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## BIBLIOGRAPHY OF AGRICULTURE

Vol. 32

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No. 7

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Literature received more than one year after publication is generally not indexed. Exceptions are made for important scientific publications.

Indexing of articles on the processing of agricultural products is limited to those on primary processing.

Unsigned articles and those signed with pseudonyms or initials, editorials, letters to the editor, and columns appearing regularly, are omitted.

For more detailed coverage of the literature on pests and their control, please consult the Pesticides Documentation Bulletin, a biweekly publication of the National Agricultural Library.

### FORMAT

The Bibliography is a classified arrangement of references under the following subjects:

- Agricultural Economics and Rural Sociology
- Agricultural Products
- Animal Industry
- Engineering
- Entomology
- Food and Human Nutrition
- Forestry
- Plant Science
- Soils and Fertilizers
- Miscellaneous

The classified section is followed by the listing of:

- New Periodicals and Serials
- Translations
- USDA Publications
- State Agricultural Experiment Station Publications
- State Agricultural Extension Service Publications
- Food and Agriculture Organization of the United Nations (FAO) Publications

The last section of each monthly issue is the Personal and Organizational index for that issue.

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## AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

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- 63234 ACKLEY, G. U. S. Economic developments and policies and their impact on agriculture. *J. Farm Econ.* 49(5):1019-1031. Dec.1967. 280.8 J822
- 63235 ALEKSANDROV, N. Development of agrarian economics. (Rus) *Ekon. Sel'skogo Khoz.* 12: 12-20. 1967. 281.8 So73
- 63236 ALLEN, R. H. The role of agriculture in world economic development. I. U. S. Nat. Adv. Comm. Food Fiber. Tech. Papers 7,33 p. Aug.1967. HD1751.A3
- 63237 AMERICAN FARM ECONOMIC ASSOCIATION. Proceedings, joint annual meeting AFEA-CAES [held at Guelph, August 13-16, 1967]. *J. Farm Econ.* 49(5):999-1626. Dec.1967. 280.8 J822 Also issued in *Can. J. Agr. Econ.* 15(2), Dec. 1967. 281.8 C16
- 63238 BADENHOP, M. B. An economic survey of the Upper Cumberland Area with special reference to agriculture. *Tenn. Agr. Exp. Sta. Bull.* 428, 79 p.,map. Ref. July 1967. 100 T25S
- 63239 BUTCHER, W. R. Evolvment and scope of production economics. *J. Farm Econ.* 49(5): 1473-1479. Dec.1967. 280.8 J822
- 63240 CHANDRASEKHAR, S., and HULTMAN, C. W., eds. Problems of economic development. Boston, Heath, 1967. 382 p. HC59.7.C3 Bibliography, p.369-382. Includes a section on agriculture.
- 63241 CLARK, C. The first stages of economic growth. *World Pop. Conf. Proc.*, v.4:59-61. 1965, pub.1967. HB849.W6 1965 Agricultural.
- 63242 CLAWSON, M. Rural poverty in the United States. *J. Farm Econ.* 49(5):1227-1236. Dec. 1967. 280.8 J822 Includes discussion by O. F. Larson.
- 63243 CROMARTY, W. A. Production economics and policy planning: an agribusiness interest. *J. Farm Econ.* 49(5):1480-1489. Ref. Dec.1967. 280.8 J822
- 63244 DEUTSCH, J. J. Canadian economic goals and policies. *J. Farm Econ.* 49(5):1009-1018. Dec. 1967. 280.8 J822
- 63245 EL DIN, Y. A. M. Egyptian agriculture: a case of arrested development. *Diss. Abstr.*, Sect. A, 28(3):853A. Sept.1967. Z5055.U49D5
- 63246 DUSSELDORP, D. B. W. M. VAN. Meerdimensionale overheidsplanning; de overheidsplanning van Suriname in de periode 1952-1964, getoetst aan een relatiemodel [Multi-dimensional government planning; government planning in Surinam in the 1952-1964 period, tested with a relation model]. Wageningen. Landbouwhoe-gesch. Medelel. 67(1),215 p. 1967. 105.2 W122 English summary. Bibliography, p.210-215.
- 63247 EICHER, C. K. The dynamics of long-term agricultural development in Nigeria. *J. Farm Econ.* 49(5):1158-1170. Ref. Dec.1967. 280.8 J822
- 63248 ELLIOTT, C. M. The process of economic development. In Warley, T. K., ed. Agricultural producers and their markets, p.3-30. 1967. HD9000.6.A35
- 63249 ELLIOTT, C. M. The role of agriculture in economic development. In Warley, T. K., ed. Agricultural producers and their markets, p.31-49. 1967. HD9000.6.A35
- 63250 EVERS, W. Cooperation between agriculture and industry in Denmark. (Ge) Germany. Bundesmin. Ernahr. Landwirt. Forsten. Ber. Land-wirt. (n.s.)45(4):738. 1967. 18 G31
- 63251 FALCON, W. P. Agricultural and industrial interrelationships in West Pakistan. *J. Farm Econ.* 49(5):1139-1157. Ref. Dec.1967. 280.8 J822 Includes discussion by S. R. Lewis.
- 63252 GEORGE, M. V., and SINGH, A. J. Role of agriculture and strategy for agricultural development in over-populated countries. *Indian J. Agr. Econ.* 22(4):94-103. Oct./Dec.1967. 281.8 In2
- 63253 GUERRERO ROJAS, G. Statistics in agricultural economics. (Sp) *Agricultura [Santo Domingo]* 442/443:2-3. July/Aug.1967. 8 R323
- 63254 HARKIN, D. A. Issues in economic development the Menominee County, Wisconsin, case. *Diss. Abstr.*, Sect. A, 28(3):850A. Sept.1967. Z5055.U49D5
- 63255 HILL, L. D. The agribusiness community as a laboratory for teaching business management: an experiment in undergraduate and adult education. *J. Farm Econ.* 49(5):1326-1331. Dec. 1967. 280.8 J822
- 63256 HOLMES, E. G. Families then and now. U. S. Agr. Res. Serv. ARS-62-5:3-6. Mar.1968. A321.9 R31 Relationships and economic conditions.
- 63257 HONEY, R. World agricultural problems and Canadian aid for economic development. *Can. Dep. Agr. Agr. Abroad* 23(1):25-28. Feb.1968. 281.9 C1642A
- 63258 HUNT, K. E. The thirteenth International Conference of Agricultural Economists. *World Agr.* 17(1):8-13. Jan.1968. 6W893
- 63259 INDIAN SOCIETY OF AGRICULTURAL ECONOMICS. Papers read at the twenty-seventh annual conference, Jabalpur, December 21-23, 1967. *Indian J. Agr. Econ.* 22(4),203 p. Oct./Dec.1967. 281.8 In2
- 63260 INTER-AMERICAN DEVELOPMENT BANK. Round table [on] agricultural development in Latin America; the next decade. Washington, 1967. 290 p. HD1790.5.A615 The Inter-American Bank and Latin American agriculture and Latin American agriculture in the next decade.
- 63261 ISHIKAWA, S. Economic development in Asian perspective. Tokyo, Kinokuniya, 1967. 488 p. (Economic Research Series, English ed. No. 8) HC412.183 Bibliography, p.469-481. Includes chapters on programs for agricultural development, farm labor and underemployment, and net resource flow between agriculture and industry. Translated from the Japanese.
- 63262 JAIN, S. C. Strategy for agricultural growth in the early stages of development. *Indian J. Agr. Econ.* 22(4):115-125. Oct./Dec.1967. 281.8 In2 Statistical.
- 63263 KAHN, A. S. Rapporteur's report on theory of economic growth in over-populated countries. *Indian J. Agr. Econ.* 22(4):58-64. Oct./Dec. 1967. 281.8 In2
- 63264 KALAMOTOU SAKIS, G. J. Economic integration and economic development: a case study of Greece and the Common Market. *Diss. Abstr.*, Sect. A, 28(3):868A. Sept.1967. Z5055.U49D5
- 63265 KAWAI, E. Nogyo to nomin wa do naru ka [What's happening to agriculture and the farmers?]. Tokyo, 1967. 216 p. (Iwanami Shinsho No. 459) HD2093.K3 1967 Economic conditions and policies.
- 63266 KENDRICK, J. W. National economic situation and outlook for 1968. *Agr. Outlook Conf. [Proc.]*, 45th Annu. Conf., paper No. 4.7 p. 1967. 1.90 C2Ou8 Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 63267 KRAVCHENKO, G. R. Electronic devices and computers in agriculture. (Rus) *Vestnik Sel'skokhoz. Nauk. [Moscow]* 1:100-101. 1968. 20 V633 English summary. Economic aspect chiefly.
- 63268 LAHIRI, R. K. Agricultural development in five developing countries—a comparative study. *Indian J. Agr. Econ.* 22(4):6-11. Oct./Dec.1967. 281.8 In2

- 63269 LEPTIN, G. Economic reforms and reform investigations in eastern Europe. (Ge) *Diplom-landwirt* 18(1):3-4. Jan.1968. 18 D62
- 63270 LEVY, J. P. The economic life of the ancient world. Chicago, University of Chicago Press, 1967. 147 p. HC31.L43  
Bibliography, p.115-139.  
Includes the agricultural economy.  
Translation of *L'economie antique*.
- 63271 LITTLE, C. H. Economic impact multipliers for Oklahoma's economy. *Okla. Curr. Farm Econ.* 41(1):32-36. Mar.1968. 100 Ok4  
Statistical research.
- 63272 LITTLE, C. H., and DOEKSEN, G. A. An input-output analysis of Oklahoma's economy. *Okla. Agr. Exp. Sta. Tech. Bull.* T-124,31 p. Feb. 1968. 100 Ok4
- 63273 LITTLETON, I. T. The bibliographic organization and use of the literature of agricultural economics. Raleigh, North Carolina, 1967. 223 p. Z5074.E3L5  
Final report submitted in fulfillment of contract #12-17-01-1-208, Economic Research Service and Statistical Reporting Service, U. S. Department of Agriculture.  
Thesis (Ph. D.)—University of Illinois.  
Bibliography, p.196-200.
- 63274 LITTLETON, I. T. Publication, indexing, and retrieval of agricultural economics literature. *J. Farm Econ.* 49(5):1561-1572. Dec.1967. 280.8 J822
- 63275 LIU, T. C. The tempo of economic development of the Chinese Mainland, 1949-1965. Washington, 1967. p.45-75. (Social Science Research Council. Committee on the Economy of China. Reprint No. 14) HC427.9.L5  
90th Congress, 1st Session. Joint Committee print.  
Includes agricultural productivity.
- 63276 MANDAL, G. C. Agricultural surplus, labour surplus and economic development—a theoretical approach. *Indian J. Agr. Econ.* 22(4):65-79. Oct./Dec.1967. 281.8 In2
- 63277 MARSHALL, J. P. The economic problem of 1968. *Va. Polytech. Inst. Ext. Va. Farm Econ.* 206:3-7. Jan./Feb.1968. 275.29 V813
- 63278 MCBRIDE, G. Toward conceptualizing the process of development. *J. Farm Econ.* 49(5):1188-1192. Dec.1967. 280.8 J822
- 63279 MELLOR, J. W. Toward a theory of agricultural development. In Southworth, H. M., and Johnston, B. F., ed. *Agricultural development and economic growth*, p.21-65. Ref., p.55-60. 1967. HD1415.S6  
Includes comment by T. W. Schultz.
- 63280 MEWES, E. The economic concept of Marin Chiritescu-Arva. (Rum) *Bucharest. Inst. Cent. Cercet. Agr. Sect. Econ. Agr. An.* 3:335-346. Ref. 1966, pub.1967. HD2052.A115 1966
- 63281 MILLER, W. L., and WADSWORTH, H. A. Improving measures of economic development. *J. Farm Econ.* 49(5):1193-1197. Dec.1967. 280.8 J822
- 63282 MIRACLE, M. P. Agriculture in the Congo Basin; tradition and change in African rural economies. Madison, University of Wisconsin Press, 1967. 355 p. S471.C75M52  
Bibliography, p.315-333.
- 63283 MISRA, B. A multi-dimensional pattern of development. *Indian J. Agr.* 22(4):104-107. Oct./Dec.1967. 281.8 In2
- 63284 MITCHELL, C., and SCHATAN, J. The outlook for agricultural development in Latin America. In *Inter-American Development in Latin America*; the next decade, p.45-146. 1967. HD1790.5.A615
- 63285 OJHA, G. The problem of land tenure and economic growth in over-populated countries. *Indian J. Agr. Econ.* 22(4):125-132. Oct./Dec. 1967. 281.8 In2
- 63286 PAPANEEK, G. F. Pakistan's development: social goals and private incentives. Cambridge, Massachusetts, Harvard University Press, 1967. 354 p. HC440.5.P3  
Bibliography, p.337-350.  
Includes chapters on economic policy in agriculture, investments, and savings.
- 63287 PARIKH, G. O., and MAHARAJA, M. H. Growth of Taiwanese versus Indian agriculture—role played by technology and extension. *Indian J. Agr. Econ.* 22(4):12-23. Oct./Dec.1967. 281.8 In2
- 63288 RAJAGOPALAN, V. Some aspects of economic growth in over-populated countries. *Indian J. Agr. Econ.* 22(4):80-86. Ref. Oct./Dec.1967. 281.8 In2
- 63289 ROY, P. Agricultural development in developing countries—a comparative study. *Indian J. Agr. Econ.* 22(4):24-36. Oct./Dec.1967. 281.8 In2
- 63290 RUTTAN, V. W. Issues in the evolution of production economics. *J. Farm Econ.* 49(5):1490-1504. Ref. Dec.1967. 280.8 J822  
Includes discussion by R. D. Kenz, W. J. Craddock, and J. C. Gilson.
- 63291 SCHUH, E., and DANNER, P. Bavaria's economy in autumn 1967. (Ge) *Bayern Zahlen* 22(1):1-7. Jan.1968. 265 B34  
Agricultural economy included.
- 63292 SCHULTZ, T. W. Economic growth theory and profit in Latin American farming. In *Inter-American Development Bank. Round table [on] agricultural development in Latin America; the next decade*, p.169-188, map. 1967. HD1790.5.A615
- 63293 SHAH, C. H. Rapporteur's report on agricultural development in developing countries—a comparative study. *Indian J. Agr. Econ.* 22(4):1-5. Oct./Dec.1967. 281.8 In2
- 63294 SHAH, S. L. A balanced growth model for India in a dualistic setting. *Indian J. Agr. Econ.* 22(4):108-114. Oct./Dec.1967. 281.8 In2
- 63295 SOUTHWORTH, H. M., and JOHNSTON, B. F., ed. *Agricultural development and economic growth*. Ithaca, New York, Cornell University Press, 1967. 608 p., map. Ref. HD1415.S6
- 63296 STARCH, K. E. A practitioner's guide to regional economic analysis. Diss. Abstr., Sect. A, 28(3):845A-846A. Sept.1967. Z5055.U49D5
- 63297 TACKE, E. Development of rural problem regions. *OECD (Organ. Econ. Co-op. Develop.) Observ.* 30:16-18. Oct.1967. 280.8 Oe2
- 63298 U. S. DEPT. OF THE INTERIOR. Conservation handbook 4. Man—an endangered species? Washington, 1968. 100 p., map. S914.U48  
Includes work of the Bureau of Outdoor Recreation, Bureau of Land Management, and Bureau of Reclamation.
- 63299 U. S. NATIONAL ADVISORY COMMISSION ON FOOD AND FIBER. Agriculture and foreign economic development. U. S. Nat. Adv. Comm. Food Fiber. Tech. Papers 7, 128 p. Aug.1967. HD1751.A3
- 63300 U. S. PRESIDENT'S NATIONAL ADVISORY COMMISSION ON RURAL POVERTY. The people left behind; a report. Washington, 1967. 160 p., map. Ref. HC110.P6U5  
Survey of economic and social conditions, including labor and unemployment, food relief and nutrition, population migration, and community services.
- 63301 VAN VLIET, H. Canadian approaches to rural poverty. *J. Farm Econ.* 49(5):1209-1224. Dec. 1967. 280.8 J822  
Includes discussion by K. B. Cooke.
- 63302 WIGHTMAN, V. F. Rural poverty and programs in the U.S. *Can. Dep. Agr. Agr. Abroad* 23(1):32-36. Feb.1968. 281.9 C1642A

## AGRICULTURAL FINANCE

- 63303 BELYAEV, A. V. Effectiveness of using working capital and the methods of increasing its return. (Rus) *Moscow. Timiryazev. Sel'skhoz. Akad. Dokl.* 128:39-45. 1967. 20 M857  
Livestock farms.



- 63304 BRITTON, V. Clothing expenditures for individuals. U. S. Agr. Res. Serv. ARS-62-5:8-12. Mar.1968. A321.9 R31
- 63305 CHEN, H. Y. Structure and productivity of capital in the agriculture of Taiwan and their policy implications to agricultural finance. Diss. Abstr., Sect. A, 28(3):848A-849A. Sept. 1967. Z5055.U49D5
- 63306 ELLIS, M. J. Farm family spending. *Vt. Farm Home Sci.* 10(2):11. Winter 1968. 100 V593
- 63307 GRYADOV, S. I. Effectiveness of using capital on different types of the state farms. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 129:79-84. 1967. 20 M857
- 63308 HARTIA, S., and BEURAN, G. The accumulation fund planning in the production agricultural cooperatives and its fulfilment control during the year. (Rum) *Probl. Agr.* [Bucharest] 20 (1):36-41. 1968. 21 R862
- 63309 LIGGETT, E. P. Family spending record. Wash. State Univ. Ext. E. M. 2714, rev., 27 p. Dec.1967. 275.29 W27Mi
- 63310 LUKANINA, E. U. Analiz kapitalovlozhenii v kolkhozakh [Analysis of capital investments on collective farms]. Moskva, Statistika, 1967. 71 p. (Bibliotekha bukhgaltera kolkhoza) HD1492.U4L8
- 63311 MAIER, J. L. Calf fattening with question marks; an undertaking heavy with risk. (Ge) *Ubersicht* 19(1):39-40. Jan.13,1968. 18 Ub3
- 63312 MITRA, A. The demographic aspects of capital formation; differences between urban and rural populations. *World Pop. Conf. Proc.*, v.4:21-23. 1965, pub.1967. HB849.W 1965
- 63313 POSHATAEV, A. V. Usage of principal working capital on the poultry state farms in the Tambov Region. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 128:75-79. 1967. 20 M857
- 63314 QUANCE, C. L. Farm capital: use, MVPs, and capital gains or losses, United States, 1917-1964. Diss. Abstr., Sect. A, 28(3):854A-855A. Sept.1967. Z5055.U49D5
- 63315 ROSS, D. M. Serious farm losses can be overcome by sound advice. *New Zeal. J. Agr.* 115(1):63,65,67. July 1967. 23 N48J  
Finance; includes bankruptcy.
- 63316 SINYUKOV, M. I. Contribution to the problem of extensive productivity of agricultural equipment. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 128:47-52. 1967. 20 M857  
Management and costs.
- 63317 WALRATH, A. J., and GIBSON, W. L. The evaluation of investment opportunities; tools for decision making in farming and other businesses. U. S. D. A. Agr. Handbook 349, 58 p. Feb.1968. 1 Ag84Ah  
Virginia Polytechnic Institute, Division of Research, Agricultural and Life Sciences, cooperating.
- Credit
- 63318 ADAMS, M. Records needed by your banker to obtain credit for cattle feeding. *Mont. Nutr. Conf. Proc.*, 19th Annu. Conf.: 27-30. 1968. 389.79 M76
- 63319 AQUINO, F. The context of the Inter-American Bank's activities. In *Inter-American Development Bank. Round table [on] agricultural development in Latin America; the next decade*, p.3-12. 1967. HD1790.5.A615  
Latin American agriculture.
- 63320 AQUINO, F. Financing of agriculture by the Inter-American Bank. In *Inter-American Development Bank. Round table [on] agricultural development in Latin America; the next decade*, p.13-41. 1967. HD1790.5.A615
- 63321 BOVEY, A. E. A very good year for Springfield Bank for Cooperatives. *News Farmer Coop.* 34 (9):7. Dec.1967. 166.2 N47  
Massachusetts.
- 63322 BRETON, P. Financing of agriculture and rural development. (Fr) *Rev. Etud. Coop.* 46 (149):317-325. Third Q.1967. 280.28 R323  
English summary, p.345.  
Problems discussed at the fourth World Congress of Agricultural Credit, held in Zurich, May 15-18, 1967.
- 63323 CAJA DE CREDITO AGRARIO, INDUSTRIAL Y MINERO, BOGOTA, COLOMBIA. Informe de gerencia, 31 de diciembre de 1966 [Management report, December 31, 1966]. Bogota, 1967. 162 p. 284.29 C127
- 63324 CENTRAL BANK FOR COOPERATIVES. Annual report, June 30th 1967. Washington, D. C., 1967. 12 p. 284.29 C332
- 63325 CONSORZIO NAZIONALE PER IL CREDITO AGRARIO DI MIGLIORAMENTO. Relazioni e bilancio dell'esercizio 1966 [Report and balance of the 1966 season]. Roma, 1967. 45 p., map. 284.29 C764B
- 63326 CORDES, S. Criteria for evaluating borrowers' repayment potential. *J. Farm Econ.* 49(5):1573-1573-1579. Dec.1967. 280.8 J822
- 63327 CRNKOVIC, R. The role of central bank in the socialist money market. (Sl) *Nase Gospod.* 13(1/2):12-22. Ref. Feb.1967. 280.8 N17  
English summary.
- 63328 CULLIGAN, M. P. Agricultural credit, the American approach. *Irish Agr. Creamery Rev.* (n.s.)21(1410):15-18. Feb.1968. 44.8 C866  
Cooperative.
- 63329 DESIMIROVIC, L. Legislation on the credit of farm cooperatives. (Se) *Glasnik* 17(1):50-55. 1968. 280.28 Z13
- 63330 FIRCH, R. S. Interregional effects of CCC pricing of cotton. U. S. Nat. Adv. Comm. Food Fiber. Tech. Papers 2:199-213. July 1967. HD1751.A3
- 63331 GIBB, R. Cooperative arrangements between FAO and international and regional development banks. *Int. Agr. Develop.* 39:18-20. Jan.1968. aS544.A316  
Chiefly World Bank.
- 63332 KELJSER, J. S. The financing of agriculture and horticulture in the Netherlands--problems and insights 1967. (Du) *Landbouwkundig Tijdschr.* 79(11):391-395. Ref. Nov.1967. 105.2 Or3  
Credit.
- 63333 NATIONAL AGRICULTURAL CREDIT CONFERENCE, 16, ST. LOUIS, MISSOURI, 1967. Proceedings. n.p., Agricultural Committee, American Bankers Association, 1967. 179 p. 284.29 N21
- 63334 NISBET, C. T. The informal credit market in rural Chile: its nature, significance and relationship to the institutional credit market. Diss. Abstr., Sect. A, 28(6):1969A. Dec.1967. Z5055.U49D5
- 63335 OMAHA BANK FOR COOPERATIVES. Annual report to the Board of Directors, June 30, 1967. Omaha, 1967. 12 p. 284.29 Om1
- 63336 RURAL BANK OF NEW SOUTH WALES. Annual report 1967. Sydney, 1967. 24 p., map. 284.9 R88
- 63337 STOCKER, N. G. What banks for co-ops mean to farmers. *News Farmer Coop.* 35(1):4,18-19. Apr.1968. 166.2 N47
- 63338 SURRIDGE, B. J. Member credit policies and rural indebtedness in developing countries. In Warley, T. K., ed. *Agricultural producers and their markets*, p.480-485. 1967. HD9000.6.A35
- 63339 TOBEY, J. S. A banker views future requirements for integrator financing. *Feedstuffs* 39(40):51-52. Oct.7,1967. 286.81 F322  
Credit for integrated farming.
- 63340 TOOTELL, R. B. The Federal Land Banks. In Knapp, J. G., and others. *Great American co-operators*, p.549-562. 1967. HD3444.5.K6
- 63341 U. S. COMMODITY CREDIT CORPORATION. Charts providing a graphic summary of operations, June 30, 1967. Washington, 1968. 67 p. 1.957 C38

- 63342 U. S. FARM CREDIT ADMIN. Summary of 1967 general counsel conference. Washington, 1967. 78 p. 1.955 A2D56
- 63343 WATTERSON, L. Checkless agribanking—a service of the future. *Banking* 60(9):95-98. Mar.1968. 284.8 Am3

#### Income

- 63344 BURGER, A. Income and prices in Hungarian agriculture. (Ge) Germany. Bundesmin. Ernähr. Landwirt. Forsten. Ber. Landwirt. (n.s.) 45(4):721-730. 1967. 18 G31  
English summary.
- 63345 DOERFLINGER, J., and BAUDER, W. W. Money and the mature worker in Iowa. *Iowa Farm Sci.* 22(10):15-17. Apr.1968. 275.28 Io94  
Financial factors affecting retirement.
- 63346 DURJAVA, O. Analysis of relations in the realization and distribution of income in a market economy. (Sl) *Nase Gospod.* 13(1/2):32-41. Ref. Feb.1967. 280.8 N17  
English summary.
- 63347 HARTIA, S. Problems of differential rent I and territorial distribution of agricultural production in agricultural production cooperatives. (Rum) Bucharest. Inst. Cent. Cercet. Agr. Sect. Econ. Agr. An. 3:13-36. 1966, pub.1967. HD2052.A115 1966  
English summary.
- 63348 MCCORMICK, F. B. Price and income trends. Ohio Rep. Res. Develop. Biol. Agr. Home Econ. 53(2):32. Mar./Apr.1968. 100 Oh3S  
Income and cost of living.
- 63349 PHILPOTT, B. P., and others. Estimates of farm income and productivity in New Zealand 1921-1965. Lincoln Coll. Agr. Econ. Res. Unit. Publ. 30, 61 p. 1967. 281.9 L632  
J. B. Ross, C. J. McKenzie, C. A. Yandle, and D. D. Hussey, joint authors.
- 63350 ROSENKRANS, D. B. More money for low-income farmers. *Ext. Serv. Rev.* 39(2):8,14. Feb.1968. 1 Ex892Ex  
Supplementary income from cucumber cultivation in Mississippi.

#### Insurance

- 63351 BECKERICH, A. Following the development of the allotment of the indemnities for farmers leaving the land. (Fr) *Agr. Prat.* 131(8):19-23. Aug./Sept.1967. 14 J82
- 63352 BUSK, T. The proposed pension system for veterinarians. (Da) *Danske Dyrægefor. Medlemsbl.* 51(3):86-102. Feb.1,1968. 41.9 D23
- 63353 CRISWELL, J. E. Insurance strategies of west Kentucky farmers. Diss. Abstr., Sect. A, 28(6):1953A-1954A. Dec.1967. Z5055.U49D5
- 63354 DAVID, J. H. Hail is too great a risk. Doane's Agr. Rep. 31(8):16-17, 52-53. Mar.8,1968. 281.8 D652  
Insurance.
- 63355 GLESSNER, J. Your liability insurance: does it cover ag chemical spraying? *Feed Farm Supplier* 42(2):16,18. Feb.1968. 47.8 H28
- 63356 MARBLE, A. W. AID's Investment Guaranty Program. In U. S. Dept. of Agriculture. Co-operatives—partners in American life, October, 1965, p.98-99. 1966. aHD1491.U5
- 63357 NOBLE, J. The Federal medicare program. Agr. Outlook Conf. [Proc.], 45th Annu. Conf., paper No. 24, 7 p. 1967. 1.90 C2Ou8  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 63358 SCHUSTER, W. The new employees insurance law. (Ge) *Diplomlandwirt* 18(1):2 of cover, 9. Jan.1968. 18 D62  
Social security.

- 63359 VRBA, V. New system of social security for farmers. (Cz) *Ekon. Zemedelstvi* 7(1):7-8. 1968. 281.8 Ek7

#### Taxation

- 63360 BECKERICH, A. Application of the T.V.A. to agriculture and livestock industry; definitions and limitations of sales taxation. (Fr) *Rev. Elevage* 23(1):13,15,17-18. Jan.1968. 49 B462
- 63361 CAMAMILE, G. H., and CARTER, E. S. Tax in perspective, investment grants in your annual accounts. Great Brit. Min. Agr. Fish. Food. Agr. 74(10):476-477. Oct.1967. 10 G79J  
Incentives.
- 63362 CAMAMILE, G. H., and CARTER, E. S. Tax in perspective, some advantages and disadvantages of trading as a company. Great Brit. Min. Agr. Fish. Food. Agr. 74(12):591-592. Dec.1967. 10 G79J
- 63363 ELLICKSON, D. L. A history of land taxation theory. Diss. Abstr., Sect. A, 28(3):862A. Sept.1967. Z5055.U49D5
- 63364 HAUSLER, L. The machine ring and the inland revenue office. I. (Ge) *Übersicht* 19(3):235-236. Mar.9,1968. 18 Ub3
- 63365 MADDEN, C. J. Taxation on Indian tea estates. *Planters' Chron.* 63(6):91,97. Mar.15,1968. 22 P693
- 63366 RICHTER, C. Finns raise quality as coffee tax is lowered. *Tea Coffee Trade J.* 133(6):22,31-32. Dec.1967. 68.8 T22
- 63367 ROSS, D. M. Incentives to farm development. New Zeal. J. Agr. 115(3):105,107,109. Sept. 1967. 23 N48J  
Taxation.
- 63368 ROTHFOS, B. High German taxes keep quality up. *Tea Coffee Trade J.* 133(6):28-29. Dec. 1967. 68.8 T22  
Coffee.
- 63369 SCHLUG, M. Surtax of farm contract labor. (Ge) *Lohnunternehmen Land-Forstwirtschaft.* 22(11):251-253. Nov.15,1967. 58.8 D81
- 63370 SINCLAIR, R. O., and CRAIG, B. L. Property tax burden in Vermont. *Vt. Agr. Exp. Sta. Bull.* 652, 23 p., map. Ref. Feb.1968. 100 V59
- 63371 WILLER, H. The concept of technical progress. (Ge) Germany. Bundesmin. Ernähr. Landwirt. Forsten. Ber. Landwirt. (n.s.) 45(4):673-686. Ref. 1967. 18 G31  
In agricultural economics.
- 63372 STOCKER, F. D. Property tax exemptions for farmers and the aged. Tax Inst. Amer. Property Tax, Probl. Potentials Symp. 1966:283-294. 1967. HJ4120.T3
- 63373 SYMPOSIUM ON THE PROPERTY TAX: PROBLEMS AND POTENTIALS, PRINCETON, 1966. [Papers]. Princeton, Tax Institute of America, 1967. 494 p. HJ4120.T3

#### AGRICULTURAL LABOR AND WAGES

- 63374 BAUDER, W. W., and DOERFLINGER, J. Work situations of Iowa's older workers. *Iowa Farm Sci.* 22(8):18-21. Feb.1968. 275.28 Io94
- 63375 BJERKE, K. The decrease in the Danish agricultural labour force, the increase in the real capital and the effects on productivity. World Pop. Conf. Proc., v.4:1-3. 1965, pub.1967. HB849.W6 1965
- 63376 CAMPBELL, R. R., and MULVEY, S. A. Perception of job opportunities among low-income groups in Missouri. Mo. Agr. Exp. Sta. Bull. B 867, 11 p. Feb.1968. 100 M693  
Includes comparison of Negro and White respondents.



- 63377 COMANESCU, M. Determination of labour time consumption for calculating the labour productivity in agricultural production cooperatives. (Rum) Bucharest. Inst. Cent. Cercet. Agr. Sect. Econ. Agr. An. 3:175-185. 1966, pub.1967. HD2052.A115 1966  
English summary.
- 63378 COMANESCU, M. Improvement of labour evidence in the agricultural production cooperatives. (Rum) Bucharest. Inst. Cent. Cercet. Agr. Sect. Econ. Agr. An. 3:303-319. 1966, pub.1967. HD2052.A115 1966  
English summary.
- 63379 DELL'ANGELO, G. G. Regional aspects of employment and underemployment in Italian agriculture. World Pop. Conf. Proc., v.4:251-253. 1965, pub.1967. HB849.W6 1965
- 63380 ELIZAGA, J. C. The demographic aspects of unemployment and underemployment in Latin America. World Pop. Conf. Proc., v.4:264-267. 1965, pub.1967. HB849.W6 1965  
Agricultural labor force included.
- 63381 EMEL'YANOV, I. Five-day plan on the state farms. (Rus) Ekon. Sel'skogo Khoz. 12:79-83. 1967. 281.8 So73  
Labor hours.
- 63382 FÖURÄSTIE, J. Economic growth and the working population in France since 1950. World Pop. Conf. Proc., v.4:62-66. 1965, pub. 1967. HB849.W6 1965  
Includes statistics of population engaged in agriculture.
- 63383 FULLER, V., and BEALE, C. L. Impact of socioeconomic factors on farm labor supply. J. Farm Econ. 49(5):1237-1244. Dec.1967. 280.8 J822  
Includes discussion by B. Perkins.
- 63384 GALE, H. F., and VAN HORN, T. R. Labor productivity in food distribution. U. S. D. A. Econ. Res. Serv. MTS-168:12-20. Feb.1968. 1.941 M8M34
- 63385 GANCHEV, K., and GROZEV, I. Shift labor in animal husbandry. (Bu) Zhivotnovudstvo 21(9/10):49-55. 1967. 49 Z62
- 63386 GHEORGHIU, O. Considerations on utilization of labour from the agricultural cooperatives in the collective production and in the personal farm. (Rum) Bucharest. Inst. Cent. Cercet. Agr. Sect. Econ. Agr. An. 3:152-165. 1966, pub.1967. HD2052.A115 1966  
English summary.
- 63387 GORJANSKY, V. F. Effects of fixed capital on labor productive capacity on the collective farms. (Uk) Visn. Sil's'kohospod. Nauk. 1:9-15. Jan.1968. 20 V82  
Russian summary.
- 63388 GROFFMANN, H. Problems of application limits of work saving solutions in dairy cattle rearing. (Ge) Tierzuchter 20(3):69-70. Feb.5, 1968. 49 T445
- 63389 GROVE, E. W. Farm labor and the structural analysis of agriculture. J. Farm Econ. 49(5):1245-1256. Ref. Dec.1967. 280.8 J822  
Includes discussion by K. R. Tefertiller. Farm types.
- 63390 HOLMES, E. G. Job-related expenditures and management practices of gainfully employed wives in North Carolina. U. S. D. A. Home Econ. Res. Rep. 34,39 p. Nov.1967. A321.9 Ag8
- 63391 JORDAN, M. F. People in changing rural America; what is ahead? Agr. Outlook Conf. [Proc.], 45th Annu. Conf., paper No. 11,14 p., map. Ref. 1967. 1.90 C2Ou8  
Employment outlook.  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 63392 JORGENSON, D. W. Surplus agricultural labour and the development of a dual economy. Oxford Econ. Pap. 19(3):288-312. Nov.1967. 280.8 Ox2
- 63393 KOMISSAROV, YU. V. Labor productive capacity on the collective farm, as related to the basic working capital. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 129:75-78. 1967. 20 M857
- 63394 KONIG, N., and others. On the distribution of the social product in agricultural production cooperatives. (Rum) Bucharest. Inst. Cent. Cercet. Agr. Sect. Econ. Agr. An. 3:271-281. 1966, pub.1967. HD2052.A115 1966  
A. Benke, P. Opra, M. Nagy, and M. Olsefszky, joint authors.  
English summary.
- 63395 LOVE, E. L. An analysis of job titles and of competencies needed in off-farm agricultural occupations in Pennsylvania. Diss. Abstr., Sect. A, 28(3):878A. Sept.1967. Z5055.U49D5
- 63396 LUTAS, C., and GHEORGHIU, O. The use of the conventional units methods in the calculations concerning labour organization and remuneration in agricultural production cooperatives. (Rum) Bucharest. Inst. Cent. Cercet. Agr. Sect. Econ. Agr. An. 3:143-151. 1966, pub.1967. HD2052.A115 1966  
English summary.
- 63397 MADIEV, T., and LIPIN, A. D. The wages on the Karl Marx collective farm. (Rus) Khlopkovodstvo 12:4-7. Dec.1967. 72.8 K522  
Cotton farm.
- 63398 NEAME, B. Training for status. Scot. Agr. 46 (4):171-173. Autumn 1967. 10 Sco82So  
Program for training agricultural labor in Great Britain.
- 63399 OKHAPKIN, K. Problems of fixing wage rates on the collective farms. (Rus) Ekon. Sel'skogo Khoz. 12:72-79. 1967. 281.8 So73
- 63400 PENNIMENT, K. J. The influence of cultural and socio-economic factors on labour force participation rates. World Pop. Conf. Proc., v.4:318-321. 1965, pub.1967. HB849.W6 1965  
Urban and rural rates of discussed.
- 63401 POPOVICI, V. V. Application of supplementary remuneration in agricultural production cooperatives. (Rum) Bucharest. Inst. Cent. Cercet. Agr. Sect. Econ. Agr. An. 3:131-141. 1966, pub.1967. HD2052.A115 1966  
English summary.
- 63402 POPOVICI, V. V., and SOTAN, S. Measurement of labour time in technical rate setting. (Rum) Bucharest. Inst. Cent. Cercet. Agr. Sect. Econ. Agr. An. 3:167-174. 1966, pub.1967. HD2052.A115 1966  
English summary.
- 63403 RAE, R. Do incentive pay schemes pay? Arable Farmer 1(12):32. Oct.1967. S3.A7  
For harvesting in California.
- 63404 RAO, V. K. R. V. Manpower planning and economic growth with special reference to the developed countries. World Pop. Conf. Proc., v.4:94-98. 1965, pub.1967. HB849.W6 1965
- 63405 SCHAIBLE, C. H. The migrant farm worker. Citrus Veg. Mag. 31(6):12,32. Feb.1968. 80 C498
- 63406 SCHANS, P. VAN DER. The agricultural technician in government service. (Du) Landbouwkundig Tijdschr. 79(8):244-247. Aug.1967. 105.2 Or3
- 63407 SCHERTZ, C. E. Human energy costs of picking oranges. Calif. Agr. 21(10):2-4. Oct.1967. 100 C12Cag
- 63408 SCHWEIZERISCHE VEREINIGUNG FUER FREIWILLIGEN LAND- UND ARBEITSDIENST. Jahresbericht [Annual report] 1966. Zurich, 1967. 16 p. 283.9 Sch9
- 63409 SHLENSKII, N. Wages of vegetable growing farmers, performing their jobs in greenhouses, (Moscow Region). (Rus) Kartofel' Ovoshchi 11:32-34. Nov.1967. 75.8 K147
- 63410 SIDOROV, V. S. Organizatsiya truda v pitsevodstve [Labor management in poultry husbandry]. Moskva, Rossel'khozizdat, 1967. 45 p. SF488.R9S5

- 63411 STEWART, C. M. Degree of urbanization and patterns of labour force participation. World Pop. Conf. Proc., v.4:327-332. 1965, pub. 1967. HB849.W6 1965  
Included population engaged in agriculture.
- 63412 TAYLOR, P. S. California farm labor: a review. Agr. Hist. 42(1):49-53. Jan. 1968. 30.98 Ag8
- 63413 THOMSON, K. W. Dutch migrants in the economy of New Zealand. New Zeal. Geogr. 23(2): 95-105. Oct. 1967. 331.8 N48  
Includes agricultural labor.
- 63414 TORRANCE, D. L. Extra in the pay packet encourages extra effort. Power Farming 40(2): 32-33. Feb. 1968. 58.8 P872  
Incentive wages of farm labor.
- 63415 TURNER, R. A novel bonus scheme for dairy-men. Scot. Agr. 46(2):54-55. Spring 1967. 10 Sco82So  
Labor incentives.
- 63416 VALENTE, A. General minimum wage. (Por) Gaz. Agr. Angola 12(11):821,823. Nov. 1967. 24 G252  
Angola.
- 63417 VOLOKHOV, S. G., and SERGEEVA, Z. V. Spravochnik normirovshchika v sel'skom khoz-yaistve [Handbook of time-and-motion study expert on the farm]. Moskva, Rossel'khozizdat, 1967. 400 p. Ref. S564.5.V6
- 63418 VRBA, L. Maximization of labor productivity. (Cz) Ekon. Zemedelstvi 7(1):19-20. 1968. 281.8 Ek7
- 63419 YEH, M. H. The labor market with particular reference to Canadian agriculture. J. Farm Econ. 49(5):1257-1270. Ref. Dec. 1967. 280.8 J822  
Includes discussion by R. C. McElroy.
- AGRICULTURE - SITUATION, POLICIES, AND PROGRAMS**
- 63420 ABRAMOV, V. A. The victory of the socialist system in agriculture. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 11:1-7. Nov. 1967. 20 V633
- 63421 BARTHOLOMEW, A. C. The National Rural Life Center of the Philippines. Town Country Church 196:4,13. Sept./Oct. 1967. 281.28 T66  
Rural development by churches.
- 63422 BOYD, A. L. Farming cameo: series 4. 2. Bedfordshire. Great Brit. Min. Agr. Fish. Food. Agr. 74(8):394-395. Aug. 1967. 10 G79J
- 63423 BRANDKAMP, F., and MULLER, H. J. Production, selling returns, and economic results of agriculture in the Federal Republic. (Ge) Agrarwirtschaft 17(2):33-48. Feb. 1968. 281.8 Ag826
- 63424 BURGESS, S. 1950-1967: 17 years unprecedented growth in Georgia agriculture. Ga. Agr. Res. 9(3):3-5. Winter 1968. 100 G295  
Chiefly contribution of Georgia University College of Agriculture curriculum and projects.
- 63425 CALAMINUS, U. Developing country Ghana. (Ge) Diplomlandwirt 18(2):27-28. Feb. 1968. 18 D62  
Agriculture included.
- 63426 CATALOGUE of serials in the Indian Agricultural Research Institute Library, March 1967, New Delhi. Delhi, Union Catalogue Division, National Science Library, Indian National Scientific Documentation Centre, 1967. 660 p. (Indian National Scientific Documentation Centre, Union Catalogue Division. Union Catalogue Series, 4) Z6945.C3
- 63427 CONFERENCE ON RURAL DEVELOPMENT IN TROPICAL LATIN AMERICA, ITHACA, NEW YORK, 1966. Rural development in tropical Latin America [papers], edited by K. L. Turk and L. V. Crowder. Ithaca, New York State College of Agriculture, 1967. 446 p., map. Ref. HD1857.T8  
Introduction by C. E. Palm.
- 63428 CONNALLY, J. Agriculture must meet the challenge of changing times. Nat. Wool Grower 58(3):16-17, 24. Mar. 1968. 45.8 N21N  
Policies and outlook in the United States.
- 63429 DALY, R. F. The agricultural situation and outlook for 1968. Agr. Outlook Conf. [Proc.], 45th Annu. Conf., paper No. 5, 6 p. 1967. 1.90 C2Ou8
- 63430 DECKER, F. N. National long-range program for agriculture; from the Books of Records of Frank Norton Decker. Syracuse, 1967. 39 p. HD1753 1967.D4  
Critical evaluation of Food and Fiber for the Future, by the National Advisory Commission on Food and Fiber.
- 63431 DEPASS, R. E., and BENDER, F. E. Growth patterns of counties in Maryland since 1940. Md. Agr. Exp. Sta. Misc. Publ. 614, 59 p. 1967. 100 M36M  
Agricultural and industrial.
- 63432 DE' STEFANI, A. Agriculture and food consumption; unbalance that should be reduced. (It) G. Agr. 78(9):95. Mar. 3, 1968. 16 It1G  
Agricultural problems.
- 63433 DOLGOV, S. I. Agricultural zones and provinces in the USSR. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 131:143-153, map. 1967. 20 M857
- 63434 DONAT, F. What will it cost Great Britain to join the European Common Market? (Fr) Rev. Franc. Agr. 18:5-11. Autumn 1967. 281.8 R328  
In relation to agriculture.
- 63435 DUBOS, Lessons of Australian agriculture. (Fr) Agriculture [Paris] 31(307):3-7. Jan. 1968. 14 Ag823  
Overall view, family farming, and trade.
- 63436 DUNLOP, H. Some international implications of agricultural protectionism in Britain and the European Economic Community. S. Afr. J. Econ. 35(3):256-264. Sept. 1967. 280.8 So83
- 63437 DURRENBERGER, R. W. Patterns on the land: geographical, historical and political maps of California. Ed. 3. Palo Alto, California, National Press Books, 1967. 109 p. G1525.D8 1967  
Includes resource utilization.
- 63438 DYMOTT, M. W. Farming cameo: series 4. 3. The Vale of the White Horse Berkshire. Great Brit. Min. Agr. Fish. Food. Agr. 74(9):448-449. Sept. 1967. 10 G79J
- 63439 EVERS, W. Structural problems of Danish agriculture. (Ge) Germany. Bundesmin. Ernahr. Landwirt. Forsten. Ber. Landwirt. (n.s.) 45(4): 737-738. 1967. 18 G31
- 63440 FORSCHUNGSGESELLSCHAFT FUR AGRAR-POLITIK UND AGRARSOZIOLOGIE. Tätigkeitsbericht [Report of activities], 1966. Bonn, 1967. 45 p. 281.9 F77
- 63441 FREEMAN, O. L. A national food budget—can we make it work? Agr. Outlook Conf. [Proc.], 45th Annu. Conf., paper No. 3, 18 p. 1967. 1.90 C2Ou8  
Agricultural policy that would allow us to produce what we needed while avoiding continued buildup of surpluses.
- 63442 GASPARINI, M. The Academy of Geographers [Accademia dei Georgofili] seriously damaged. (It) Riv. Storia Agr. 6(4):339-340. Dec. 1966. 30.98 R52  
By the floods.
- 63443 GIOSAN, N. Important tastes of our socialist agriculture. (Rum) Probl. Agr. [Bucharest] 20(1):4-9. 1968. 21 R862
- 63444 GROBMAN, A. Cropping patterns—present and future. In Turk, K. L., and Crowder, L. V., ed. Rural development in tropical Latin America, p. 303-314. Ref. 1967. HD1857.T8  
Plant ecology, farming systems, and limit to agricultural development.
- 63445 GUSEV, N. The plans of future development of agriculture. (Rus) Ekon. Sel'skogo Khoz. 12: 1-11. 1967. 281.8 So73
- 63446 HARDIN, C. M. Food and fiber in the nation's politics. U. S. Nat. Adv. Comm. Food Fiber. Tech. Papers 3, 236 p. Aug. 1967. HD1751.A3  
Includes soil conservation programs.



- 63447 HART, J. F. America's farms and ranches. Garden City, New York, Doubleday, 1967. 64 p. (Know your America Program) S441.H3
- 63448 HAVLICEK, J., and JENICEK, V. A complex study on the development of agriculture and its effectiveness. (Cz) Czech. Min. Zemedel. Les. Hospodar. Ustav Vedeckotech. Inform. Zemedel. Ekon. 40(8):531-538. Aug.1967. 281.9 C332
- 63449 HEADY, E. O., and MAYER, L. V. Food needs and U.S. agriculture in 1980; an analysis of land, labor, and capital requirements under varying levels of exports and alternative farm programs. U. S. Nat. Adv. Comm. Food Fiber. Tech. Papers 1,116 p. Ref. Aug.1967. HD1751.A3
- 63450 HEADY, E. O., and MAYER, L. V. Which farm program to control our overcapacity? Iowa Farm Sci. 22(9):3-8, map. Mar.1968. 275.28 I094
- 63451 HERTFORD, R. The development of Mexican agriculture: a skeleton specification. J. Farm Econ. 49(5):1171-1181. Ref. Dec.1967. 280.8 J822
- 63452 HILL, D. Great Britain's agriculture well equipped for joining the EEC. (Ge) Raiffeisen-Rundschau 20(1):30-32. Jan.1968. 284.28 R132
- 63453 HOGSTROM, A. W. Agriculture in Western Australia—past, present and future. West. Australia. Dep. Agr. J. (ser.4)8(9):355-358, 361-364, 367-368. Sept.1967. 23 W52J
- 63454 HRUBESCH, P. Construction of an input-index for measurement of productivity development in West German agriculture 1950/51 to 1964/65. (Ge) Germany. Bundesmin. Ernahr. Landwirt. Forsten. Ber. Landwirt. (n.s.)45(4):609-657. 1967. 18 G31
- 63455 THE ISRAEL yearbook 1968. Tel-Aviv, 1968. 326 p. 280.2 Is73  
Includes a paper on Agriculture in Israel, by Y. Chorin, p.177-187.
- 63456 JACQUIN, F. Polish agriculture. (Fr) Agriculture [Paris] 31(307):9-10. Jan.1968. 14 Ag823
- 63457 JAPAN. NATIONAL DIET LIBRARY. Japanese national bibliography, 1965. (Ja) Tokyo, 1967. 826 p. 242.91 Z4  
Includes English index.  
Includes agricultural subjects.
- 63458 KANEDA, H. The sources and rates of productivity gains in Japanese agriculture, as compared with the U. S. experience. J. Farm Econ. 49(5):1443-1454. Dec.1967. 280.8 J822  
Includes discussion by L. Auer.
- 63459 KELLOGG, C. E. World food prospects and potentials: a long-run look. In Alternatives for balancing world food production and needs, p.98-111. 1967. HD9000.5A4  
Problems of agricultural development with relation to supply of arable land and water, - incentives and institutions for development, - and investments and resource use.
- 63460 KOELLER, H. L. France's troubled farmers, a byproduct of agricultural change. Foreign Agr. Incl. Foreign Crops Markets 5(52):3-5. Dec.25,1967. A281.9 F76Fo
- 63461 KOFFSKY, N. M. The food potential of developing nations. J. Farm Econ. 49(5):1106-1117. Ref. Dec.1967. 280.8 J822  
Includes discussion by L. R. Brown.
- 63462 KRAMISH, A. M. OECD [Organisation for Economic Co-operation and Development], its role in agricultural development in developing countries. Int. Agr. Develop. 39:6-7, 14. Jan.1968. aS544.A3I6
- 63463 KROHN, H. Will farmers become "the weavers" of the 20th century? (Ge) Ubersicht 19 (3):177-179. Mar.9,1968. 18 Ub3
- 63464 LANDEBOUW GIDS. Agrarische adreslijst 1968 [Agricultural directory 1968]. Utrecht, 1968. 236 p. 12 L239
- 63465 LOUWES, S. L. Cost allocation in agricultural surveys. Inst. Int. Statist. Rev. 35(3):264-290. 1967. 251.8 In7
- 63466 LUUWAI, H., and GALLAGHER, J. Agricultural development in American Samoa. S. Pac. Bull. 17(4):35-36. Fourth Q.1967. 280.8 So89
- 63467 MARIEA, J. The law in Missouri. Ext. Serv. Rev. 39(2):6-7. Feb.1968. 1 Ex892Ex  
Legal aspects of farming.
- 63468 MAYER, L. V., and HEADY, E. O. Our capacity to produce. Iowa Farm Sci. 22(8):11-14. Feb.1968. 275.28 I094  
National agricultural outlook.
- 63469 MCCALLA, A. F. Implications for Canada of United States farm policies. J. Farm Econ. 49(5):1038-1056. Dec.1967. 280.8 J822  
Includes discussion.
- 63470 MCLAUCHLAN, G. Progressive Southland forges ahead with confidence. New Zeal. J. Agr. 115(3):34-35, 37, 39. Sept.1967. 23 N48J  
Agricultural progress.
- 63471 MEIKLEJOHN, A. K. M. Lothians and Borders: diaries and commentary. Scot. Agr. 46(2):82-86. Spring 1967. 10 Sco82So  
Agriculture.
- 63472 MICULESCU, A. Improving agricultural management. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 611:37-41. Dec.5,1967. (JPRS 43,572) 173 J663Ste  
In Romania.  
Translation from Scinteia, November 14, 1967:1-3.  
Issued by CFSTI.
- 63473 MILAM, F. M. Portugal's farm development plans. Foreign Agr. 6(17):3-4. Apr.22,1968. A281.9 F76Fo
- 63474 MONCURE, R. C. Independence for Mauritius, Indian Ocean sugar isle. Foreign Agr. 6(13):16. Mar.25,1968. A281.9 F76Fo
- 63475 MUNTKE-KAAS, H. Mao's pinkish peasants. Far East. Econ. Rev. 58(11):479-481. Dec.14, 1967. 280.8 F223
- 63476 NATIONAL ASSOCIATION OF CORN AND AGRICULTURAL MERCHANTS. And now, the next 50 years—. Agr. Merchant 48(2):i-iii, vi-vii, x-xi, xiv-xv, xvii-xix, xxi-xxiii, xxvi-xxvii, xxx, xxxiii, xxxv. Feb.1968. 10 Ag89  
A special section, rounding off NACAM's jubilee year, looks at the prospects for agriculture and the trade over the next half century; includes papers by R. Whitlock J. Morley, C. G. Metson, W. Smith, M. Bradford, S. Baker, and J. Cherrington.
- 63477 NEETZ, R. E. Agriculture in Romania gains momentum. Foreign Agr. 4(12):16. Mar.18, 1968. A281.9 F76Fo
- 63478 NIAGARA COUNTY (NEW YORK) AGRICULTURAL STABILIZATION AND CONSERVATION SERV. Niagara County handbook for 1967. Lockport, New York, 1967. 21 p. 281.9 N51
- 63479 NOBE, K. C., and TURNER, J. M. Colorado agricultural trends, 1954-1964. Colo. Agr. Exp. Sta. Bull. 531-S, 78 p., map. Jan.1968. 100 C71S
- 63480 OWEN, W. G. Farming cameo: series 4. 4. Breconshire. Great Brit. Min. Agr. Fish. Food. Agr. 74(10):495-496. Oct.1967. 10 G79J
- 63481 PAGELLA, M. Disequilibrium of income, agricultural development, and agricultural policy. (It) Riv. Polit. Agr. 14(4):45-57. Dec.1967. 281.8 R523
- 63482 PARKER, W. N. Sources of agricultural productivity in the nineteenth century. J. Farm Econ. 49(5):1455-1472. Ref. Dec.1967. 280.8 J822  
Includes discussion by G. A. MacEachern.
- 63483 POURRAT, C. Improvement of agricultural productions and human problems, an experiment on development, in progress on the high table-lands of Ardeche. (Fr) Fourrages 31: 102-117. Sept.1967. 60.8 F82  
English summary.  
Includes policies.

- 63484 PUHLE, H. J. Agrarische Interessenpolitik und preussischer Konservatismus im wilhelminischen Reich (1893-1914); ein Beitrag zur Analyse des Nationalismus in Deutschland am Beispiel des Bundes der Landwirte und der Deutsch-Konservativen Partei [Agrarian policy of interests and Prussian conservatism in the Kingdom of Wilhelm (1893-1914); a contribution to the analysis of nationalism in Germany with the Federation of Farmers and the German Conservative Party as example]. Hannover, Verlag für Literatur und Zeitgeschichte, 1967. 365 p. (Schriftenreihe des Forschungsinstituts der Friedrich-Ebert-Stiftung, B: Historisch-politische Schriften) HD1957 1966 .P8 Bibliography, p.339-365.
- 63485 RAWSON, J. E. Agriculture in the South Burnett. Queensland Agr. J. 93(12):743-753, map. Dec.1967. 23 Q33
- 63486 RECENT developments in the world food and agriculture situation. Food Agr. Organ. U. N. Mon. Bull. Agr. Econ. Statist. 16(11):1-8. Nov.1967. 251 F73Mb
- 63487 ROGERS, S. J. The adjustment process in agriculture. Great Brit. Min. Agr. Fish. Food. Agr. 74(12):574-577. Dec.1967. 10 G79J Outlook.
- 63488 THE RWANDA market. (Fr) Marches Trop. Mediter. 23(1145):2747-2790., map. Oct.21, 1967. 286.8 M33  
Contains sections on agriculture and agricultural products.
- 63489 SAMPER, A. Promoting agricultural development in Latin America. In Inter-American Development Bank. Round table [on] agricultural development in Latin America; the next decade, p.189-196. 1967. HD1790.5.A615
- 63490 SANGYO KEIKAKU KAIGI Jugo-nen go (1980) no Nihon no nogyo; koseisansei nogyo no keisei [Japanese agriculture after 15 years (1980); formation of high production in agriculture]. Ed. 2. Tokyo, Taisei Shuppan-sha, 1967. 199 p. HD2092.S32 1967
- 63491 SANTA CRUZ, H. Future development of Latin American agriculture. In Inter-American Development Bank. Round table [on] agricultural development in Latin America; the next decade, p.147-168. 1967. HD1790.5.A615  
Situation and policy.
- 63492 SCHWEIZERISCHER BAUERNVERBAND. PREISBERICHTSTELLE. The agricultural year 1967. (Ge) Grune 96(1/2):33-42. Jan.12, 1968. 17 Sch9
- 63493 SCOTLAND. DEPT. OF AGRICULTURE AND FISHERIES. The Agriculture Act, 1967. Scot. Agr. 46(4):153-159. Autumn 1967. 10 Sco82So Great Britain.
- 63494 SILVA, A. R. DA. Physical and geographic conditions. In Turk, K. L., and Crowder, L. V., ed. Rural development in tropical Latin America, p.26-33. Ref. 1967. HD1857.T8  
Includes agricultural potential.
- 63495 SPITZER, R. R. Freedom—mightier than mis-siles. Cornell Nutr. Conf. Feed Manufacturers. Proc. 1937:12-21. 389.79 C81  
General agricultural policies in the United States.
- 63496 SPRENG, H. Notes on Swiss agricultural conditions. (Ge) Grune 96(4):101-115. Ref. Jan.26, 1968. 17 Sch9
- 63497 STUTZER, D. How much does Mansholt's structural improvement cost? (Ge) DLZ Landtech. Z. 19(2):81,84,86. Feb.1968. 58.8 T677  
Agricultural policies in the European Common Market countries.
- 63498 SYSTEM DEVELOPMENT CORPORATION. A system study of abstracting and indexing in the United States. Falls Church, Virginia, 1966. 228 p. (Its Technical Memorandum. TM-WD-394) Z695.1.S3S9  
Contract NSF-C-464.  
Bibliography, p.207-228.  
Includes indexing work of the Department of Agriculture.
- 63499 SZIKSZAI, MRS. I. Computation of net production value of agriculture. (Hu) Statist. Szemle 45(12):1259-1268. Dec.1967. 266.5 St2M  
English summary.
- 63500 THOMPSON, L. M. Impact of world food needs on American agriculture. J. Soil Water Conserv. 23(1):3-9, map. Jan./Feb.1968. 56.8 J822
- 63501 TRACY, M. OECD's work on agricultural policies. FATIS (Food Agr. Tech. Inform. Serv.) Rev. 14(3):84-85. 1967. 275.249 F26
- 63502 URUGUAY. MINISTERIO DE GANADERIA Y AGRICULTURA. BIBLIOTECA CENTRAL. Bibliografia agricola del Uruguay [Agricultural bibliography of Uruguay] 1966-1967. Montevideo, 1967. 16 p. 241 Ur822
- 63503 U. S. AGRICULTURAL STABILIZATION AND CONSERVATION COMMITTEE. WYOMING. Annual report, 1967. [Casper], 1968. 101 p., map. A281.9 St15
- 63504 U. S. DEPT. OF AGRICULTURE, ECONOMIC RESEARCH SERV. FOREIGN REGIONAL ANALYSIS DIV. Agricultural policies in the Far East and Oceania. U. S. D. A. Foreign Agr. Econ. Rep. 37,38 p. Nov.1967. A281.9 Ag8F
- 63505 U. S. DEPT. OF AGRICULTURE, STATISTICAL REPORTING SERV. Score card sixty eight; how is farming likely to fare in the new year? Outlook for supplies, demand, income. Agr. Situation [Washington] 51(12):1-9. Dec.1967. 1 Ec7Ag
- 63506 U. S. NATIONAL ADVISORY COMMISSION ON FOOD AND FIBER. Requested policy papers. U. S. Nat. Adv. Comm. Food Fiber. Tech. Papers 8,227 p. Aug.1967. HD1751.A3  
Includes papers by H. H. Humphrey, O. L. Freeman, J. T. Connor, T. T. Dechant, J. G. Maddox, K. D. Naden, H. D. Newsom, C. B. Shuman, and R. C. Woodworth.
- 63507 WADSWORTH, H. A., and ENGELBRECHT, E. T. Alternatives in community and resource development. J. Farm Econ. 49(5):1198-1203. Dec.1967. 280.8 J822  
With reference to Steuben County, Indiana.
- 63508 WAUGH, F. V., and others. Agricultural policy: a review of programs and needs. U. S. Nat. Adv. Comm. Food Fiber. Tech. Papers 5, 172 p. Aug.1967. HD1751.A3  
R. W. Rudd, H. F. Breimyer, L. G. Tweeden, and F. T. Bachmura, joint authors.
- 63509 WILLIAMS, R. D. Farming cameo: series 4. 1. The Isle of Anglesey. Great Brit. Min. Agr. Fish. Food. Agr. 74(7):348-349. July 1967. 10 G79J
- 63510 WORTHINGTON, T. Farming cameo: series 4. 6. Cambridgeshire (Ely district). Great Brit. Min. Agr. Fish. Food. Agr. 74(12):593-594. Dec.1967. 10 G79J
- 63511 WYSONG, J. W. The agricultural industry in the rural-rural fringe: A case study of Harford County, Maryland. Md. Agr. Exp. Sta. Bull. 479,28 p. June 1967. 100 M36S
- 63512 YEGANIANZ, L., and MOORE, J. Agriculture and trade of the European Economic Community: A selected, annotated bibliography. Md. Agr. Exp. Sta. Misc. Publ. 616,84 p., map. Oct. 1967. 100 M36M

#### Subsidies

- 63513 HUME, D. L. British farmers to get more support. Foreign Agr. 6(17):7-8. Apr.22, 1968. A281.9 F76Fo

#### COST AND STANDARD OF LIVING

- 63514 GUNTHER, M. Costs are up, but you're living better. Iowa Farm Sci. 22(8):15-17. Feb.1968. 275.28 Io94  
Discussion of City Worker's Family Budget, issued by Bureau of Labor Statistics.



- 63515 JAEGER, C. M. Income needed for equivalent levels of living for farm and urban families: a preliminary report. Agr. Outlook Conf. [Proc.], 45th Annu. Conf., paper No. 25,8 p. 1967. 1.90 C2Ou8  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.

## FARM MANAGEMENT AND LAND ECONOMICS

- 63516 ANDERSON, J. R. Some practical notions for estimating agricultural production functions. Australian Inst. Agr. Sci. J. 33(3):214-216. Sept.1967. 23 Au74
- 63517 AVDELIDIS, P. The role of the annexed section activity in the economy of agricultural production cooperatives. (Rum) Bucharest. Inst. Cent. Cercet. Agr. Sect. Econ. Agr. An. 3:117-129. 1966, pub.1967. HD2052.A115 1966  
English summary.
- 63518 BAILEY, F. A report on the nation's two agri-cultures. I. The smalls. Banking 60(9):84,86. Mar.1968. 284.8 Am3
- 63519 BEVAN, R. A. The new dairy unit [Silcock Development Farm] at Inglewood. Great Brit. Min. Agr. Fish. Food. Agr. 75(1):8-13. Jan. 1968. 10 G79J
- 63520 BONDARENKO, I. Improving specialized agri-cultural production. (Rus) Ekon. Sel'skogo Khoz. 12:53-61. 1967. 281.8 So73  
Policies chiefly.
- 63521 BONOMI, A. The sharefarming agreement for the regions of Veneto. (It) G. Agr. 78(4):35-36. Jan.28,1968. 16 It1G
- 63522 BOYARSKII, L. G. Livestock farms in Yugo-slavia. (Rus) Zhivotnovodstvo 1:85-86. Jan. 1968. 49 Z6
- 63523 BRANT, W. L., and WALKER, O. L. Extending the representative farm concept in farm man-agement education. J. Farm Econ. 49(5):1516-1520. Dec.1967. 280.8 J822
- 63524 BRASOVEANU, N., and CONORO, G. Some aspects regarding the economic efficiency of vineyards. (Rum) Bucharest. Inst. Cent. Cer-cet. Agr. Sect. Econ. Agr. An. 3:213-224. 1966, pub.1967. HD2052.A115 1966  
English summary.  
Management.
- 63525 BRYANT, E. S., and LEUNG, K. M. Mississippi farm trends, 1950-1964. Miss. Agr. Exp. Sta. Bull. 754,8 p., map. Dec.1967. 100 M69  
Chiefly as an occupation.
- 63526 BUCKBEE, W. H. A practical man views dairy farming. Rural Realtor 19:4-5. Dec. 1967. 282.8 R88
- 63527 BUTINAR, J. Trends in the development of farms on the basis of analysis of the present economic system. (Sl) Nase Gospod. 13(7): 401-412. Oct.1967. 280.8 N17  
German summary.
- 63528 BUXTON, B. M. Economies of size in Minne-sota dairy farming. Diss. Abstr., Sect. A, 28 (6):1953A. Dec.1967. Z5055.U49D5
- 63529 COLYER, D., and IRWIN, G. D. Beef, pork, and feed grains in the Cornbelt: Supply response and resource adjustments. Mo. Agr. Exp. Sta. Bull. 921,113 p. Ref. Aug.1967. 100 M693  
Agricultural Experiment Stations of Alaska, Illinois, Indiana, Iowa, Kansas, Michigan, Min-nesota, Mississippi, Nebraska, North Dakota, South Dakota, Ohio, and Wisconsin; and U.S. Department of Agriculture, cooperating.  
Also North Central Regional Research Publi-cation No. 178.
- 63530 COLYER, D. A capital budgeting, mixed inte-ger, temporal programming model. Can. J. Agr. Econ. 16(1):1-7. Ref. Feb.1968. 281.8 C16
- 63531 CONDRATENCO, T., HARTIA, S., and SOTAN, S. A study on the optimum size of dairy farms in agricultural production cooperatives of the Negru-Voda district. (Rum) Bucharest. Inst. Cent. Cercet. Agr. Sect. Econ. Agr. An. 3:59-80. 1966, pub.1967. HD2052.A115 1966  
English summary.
- 63532 COOLIDGE, J. H. Livestock-crop combination best bet for Kansas farmer. Yield 3(10):11. Jan.1968. HD1491.A1Y5
- 63533 COOPER, J. Meeting the management lag. Pa. State Univ. Ext. Farm Econ., Feb.1968:1-4. 275.28 P38
- 63534 COROIU, I. Classification of agricultural pro-duction cooperatives from the standpoint of their economic organizational consolidation. (Rum) Bucharest. Inst. Cent. Cercet. Agr. Sect. Econ. Agr. An. 3:109-115. 1966, pub.1967. HD2052.A115 1966  
English summary.
- 63535 CREEK, C. R. Changes in sugar beet produc-tion in Colorado. Colo. Agr. Exp. Sta. Bull. 530-S,30 p., map. Jan.1968. 100 C71S  
Farm management.
- 63536 DECKER, F. N. Review; land betterments up-dated. Syracuse, 1967. 90 p. HD1759.D42  
Finalized unpublished manuscript, limited edition.  
Land economics and the man-land relation-ship.
- 63537 DEMIDOV, S. F. Economic problems of farm-ing systems. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 128:31-39. 1967. 20 M857
- 63538 DHAWAN, B. D. Productivity of factory-oper-ated cane farms in India. Indian J. Agr. Econ. 22(3):28-44. July, Sept.1967. 281.8 In2
- 63539 FUMAGALLI, V. Dominican crisis and in-crease of share farming on properties of the Monastery of San Colombano di Bobbio from 862-883. (It) Riv. Storia Agr. 6(4):352-359. Ref. Dec.1966. 30.98 R52  
English summary, p.414.
- 63540 GENEREUX, D. 951 opportunities: So, you want to farm? Nebr. Univ. Coll. Agr. Home Econ. Quart. Serving Farm Ranch Home 11, i.e.14(2):7-8. Summer 1967. 100 N27N
- 63541 GEORGIEV, T., and IVANOV, G. Planning of optimal relations between cattle and sheep husbandry in collective farms of grain-live-stock type. (Bu) Ikonicheska Mis'l 12(7): 56-58. 1967. 280.8 Ik7  
French summary, p.128-129.
- 63542 GOLIK, N. I. Investigating the causes of wheat yield variations on the state farms in the Kak-chetav Region. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 129:213-219. 1967. 20 M857  
Chiefly management.
- 63543 GROENEWALD, J. A. Selection of optimum processes and machinery combination in crop production on Corn Belt farms. Diss. Abstr., Sect. A, 28(6):1955A. Dec.1967. Z5055.U49D5
- 63544 HARTIA, S., and BAGHINSCHI, V. An econom-ic substantiation of agricultural systems. (Rum) Bucharest. Inst. Cent. Cercet. Agr. Sect. Econ. Agr. An. 3:347-365. 1966, pub.1967. HD2052.A115 1966
- 63545 HARTIA, S., BAGHINSCHI, V., and CAMASOIU, I. Establishment of the main economic indi-cators of activity in the agricultural production cooperatives, based on the annual statistical reports. (Rum) Bucharest. Inst. Cent. Cercet. Agr. Sect. Econ. Agr. An. 3:225-258. 1966, pub.1967. HD2052.A115 1966  
English summary.
- 63546 HRABE, S. On the problem of adequacy of analytical terms of regression functions. (Cz) Czech. Min. Zemedel. Les. Hospodar. Ustav Vedeckotech. Inform. Zemedel. Ekon. 40(8): 539-542. Aug.1967. 281.9 C332  
Farming.
- 63547 IMANOV, E. KH. Methods of increasing cotton profitability in the Mili Steppe. (Rus) Khlop-kovodstvo 12:1-4. Dec.1967. 72.8 K522

- 63548 JIANU, E. The superior organization of production as a decisive factor in the improvement of productive capacity of state farms. (Rum) Probl. Agr. [Bucharest] 19(7):8-13. July 1967. 21 R862
- 63549 JOHN, P. V. Impact of cropping pattern on agricultural output: a measurement. Indian J. Agr. Econ. 22(3):72-75. July/Sept. 1967. 261.8 In2
- 63550 KAHN, A. S., and ACHARYA, S. S. A study on management input in farming. India J. Agr. Econ. 22(3):45-53. July/Sept. 1967. 281.8 In2
- 63551 KLACER, I. Principles of selecting farm managers. (Cz) Ekon. Zemedelstvi 7(1):4-5. 1968. 281.8 Ek7
- 63552 KMEZIC, N. Management in cooperative farming. (Se) Glasnik 17(1):3-10. 1968. 280.28 Z13
- 63553 KNOLLE, P. Large herd management in the South and Southwest. J. Dairy Sci. 51(1):129-121. Jan. 1968. 44.8 J822
- 63554 KRISHNA, J. Evaluation of Intensive Agricultural District Programme—a case study for wheat in Ludhiana district. Indian J. Agr. Econ. 22(3):82-88. July/Sept. 1967. 281.8 In2
- 63555 KRISTOF, J. Comparison of management of four large-income production cooperative. (Hu) Magyar Mezogazdasag 22(47):9-10. Nov. 22, 1967. 19 M27
- 63556 LAH, T. Survey of some forms and trends in the process of integration in economy. (Sl) Nase Gospod. 13(1/2):56-70. Feb. 1967. 280.8 N17  
English summary.
- 63557 LANPHER, B. F. Electronic data processing for better farm management in the United States. FATIS (Food Agr. Tech. Inform. Serv.) Rev. 14(3):89-91. 1967. 275.249 F26
- 63558 LONGO, L. P. The business side of large herd management in the East. J. Dairy Sci. 51(1):120-122. Jan. 1968. 44.8 J822
- 63559 LOZA, G. M., and SHMAKOV, A. G. Development of specialization in agricultural production. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 1:102-113. 1968. 20 V633  
English summary.
- 63560 LOZA, G. M., and BUDYLKIN, G. I. Problems of organization and management on state farms. (Rus) Timiryazevskaya Sel'skokhoz. Akad. Izv. 4:215-226. 1967. 106 P44
- 63561 MACLEISH, K. The highlands, stronghold of Scottish Gaeldom. Nat. Geogr. 133(3):398-435, map. Mar. 1968. 470 N213  
Includes crofting and sheep.
- 63562 MANN, K. S. An analysis of the expected shifts in cropping pattern of the Punjab (India) resulting from the introduction of high yielding varieties of crops. Diss. Abstr., Sect. A, 28(6): 1957A. Dec. 1967. Z5055.U49D5
- 63563 MARTIRANO, G. The "professional agriculturist." (It) G. Agr. 78(7):72. Feb. 18, 1968. 16 It1G  
Includes types of tenure.
- 63564 MATSON, A. J. Farming's drop-outs, displaced person or forgotten man? S. Dak. Farm Home Res. 19(1):18-22. Winter 1968. 100 So82S  
Chiefly occupational outlook.
- 63565 MCLAUCHLAN, G. Land development pays rich rewards in Southland. New Zeal. J. Agr. 115(4):70-71, 73. Oct. 1967. 23 N48J  
Establishment of cattle, sheep and wheat farms.
- 63566 MERFORTH, M. Brief visit to collective agriculture, 1. Czechoslovakia. (Ge) Diplomalnd-wirt 18(2):21-22. Feb. 1968. 18 D62
- 63567 MONHEMIS, W. Operational research for decision making. (Du) Landbouwkundig Tijdschr. 79(11):412-414. Nov. 1967. 105.2 Or3
- 63568 MUSHTRUK, A. I., and VITER, I. K. Economics of milk production and the methods of increasing its profitability. (As illustrated by the Shevchenko State Farm in the Kiev Region). (Uk) Visn. Sil's'kohospod. Nauk. 1:21-24. Jan. 1968. 20 V82  
Russian summary.
- 63569 NICA, V. Methodologic indications for technical economic studies on the long-term development of an agricultural production cooperative. (Rum) Bucharest. Inst. Cent. Cercet. Agr. Sect. Econ. Agr. An. 3:37-58. 1966, pub. 1967. HD2052.A115 1966  
English summary.
- 63570 NORRISH, J. G. Management; the lever which applies modern ideas to modern pig farming. Can. Swine 28(4):5. Winter 1967/1968. 46.8 C16
- 63571 PAKHTUSOV, Z. I. Experimental farms of the All-Union V. I. Lenin Agricultural Academy [Vsesoyuznaya Akademiya Sel'skokhoz-yaistvennykh Nauk imeni V. I. Lenina] in the jubilar year. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 11:142-145. Nov. 1967. 20 V633
- 63572 PARKER, B. EDP: a crop manager's whetstone; electronic data processing helps guide decision making. Farm Quart. 23(2):62-65, 108, 110. Spring 1968. 6 F22995
- 63573 PELISSIER, C. L. Management of large herds in California. J. Dairy Sci. 51(1):132-137. Jan. 1968. 44.8 J822
- 63574 PROEFBOERDERIJ HEINO. Verslag [Report of the Heino Experimental Farm], 1966-1967. Ver. Proefboerderij Overijssel. Proefboerderij Heino (O) 34, 78 p. 1967. 64.9 V583
- 63575 PUECH, The dairy sheep flock. (Fr) Tech. Lait. 581:13, 15, 17, 19. Feb. 1, 1968. 44.8 Of2  
Management and returns.
- 63576 QUANCE, C. L. Elasticities of production and resource earnings. J. Farm Econ. 49(5):1505-1510. Dec. 1967. 280.8 J822
- 63577 RATUSHENKO, E., and GRECHANENKO, G. Organizing working day of economists. (Rus) Ekon. Sel'skogo Khoz. 12:96-98. 1967. 281.8 So73  
Employed on the collective and state farms.
- 63578 REDMAN, J. C. Problems in using farm accounts for decision making. Indian J. Agr. Econ. 22(3):68-72. July/Sept. 1967. 281.8 In2
- 63579 RICKARDS, P. A., ANDERSON, F. M., and KERRIGAN, R. H. Farm planning with computers. Australian Inst. Agr. Sci. J. 33(3):180-191. Sept. 1967. 23 Au74
- 63580 RIEBE, K., and PETERS, U. Critical considerations on planning method in the field of extension work. (Ge) Germany. Bundesmin. Ernahr. Landwirt. Forsten. Ber. Landwirt. (n.s.) 45(4): 587-608. Ref., p. 606-608. 1967. 18 G31  
Budgeting and linear programming.
- 63581 RITCHIE, W. Double cropping expands; farmers moving into the new-land areas of Louisiana double crop to gain an edge on costs. Doane's Agr. Rep. 31(8):44, map. Mar. 8, 1968. 281.8 D652
- 63582 ROMANY, P. Chief economical problems of farm development in farms with unfavorable basis. (Hu) Agrartud. Kozlem. 26(3/4):491-497. 1967. 19 B855  
Collective farms.
- 63583 ROSI, M. The share-farming agreement for the Three Venices signed by all the syndicates. (It) G. Agr. 78(2):13-14. Jan. 14, 1968. 16 It1G
- 63584 ROTELLI, C. Production and productivity of lands of a noble Imola family in the '700's. (It) Riv. Storia Agr. 6(4):379-398. Dec. 1966. 30.98 R52  
English summary, p. 415.
- 63585 SAHNI, O. P., and JOHL, S. S. Economic potentialities of vegetable cultivation on sullage water farms in Punjab (a case study). Indian J. Agr. Econ. 22(3):75-82. July/Sept. 1967. 281.8 In2  
Optimum farm management.



- 63586 SAZIMA, V., and PECHAC, M. Internal management and organization of collective farms according to principles of the improved system of management. (Cz) Ekon. Zemedelstvi 7(1): 16, 1968. 281.8 Ek7
- 63587 SAZIMA, V., and SUBRT, O. Internal management of unified agricultural cooperatives. (Cz) Czech. Min. Zemedel. Les. Hospodar. Ustav Vedeckotech. Inform. Zemedel. Ekon. 40(9):603-612. Sept.1967. 281.9 C332  
English summary, supplement, p.3.
- 63588 SCHMIDT-VOLKMAR, A. Intensity and forms of co-operation in the field of agricultural production and its importance for the example of an agricultural enterprise. (Ge) Germany. Bundesmin. Ernahr. Landwirt. Forsten. Ber. Landwirt. n.s.)45(4):701-720. 1967. 18 G31  
English summary.  
France as an example.
- 63589 SHARPLES, J. A., MILLER, T. A., and DAY, L. M. Evaluation of a firm model in estimating aggregate supply response. Iowa. Agr. Home Econ. Exp. Sta. Res. Bull. 558,61 p. Ref. Jan. 1968. 100 Io9  
Agricultural Experiment Stations of Alaska, Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin; and U.S. Department of Agriculture, cooperating.  
Hog and beef cattle production; includes prices.  
Also North Central Regional Research Publication No 179.
- 63590 SITES, J. W. The influence of technology on Florida agriculture. Citrus Indus. 48(12):8-12. Dec.1967. 80 C49
- 63591 SPEICHER, J. A. How Midwestern dairymen can stay in business. Hoard's Dairymen 113 (7):440,481. Apr.10,1968. 44.8 H65  
Management.
- 63592 SPEICHER, J. A. Profitable management of large dairy farms in the Midwest. J. Dairy Sci. 51(1):123-129. Jan.1968. 44.8 J822
- 63593 STANCIU, G. Some aspects regarding the intensification of the production process in agricultural cooperatives. (Rum) Bucharest. Inst. Cent. Cercet. Agr. Sect. Econ. Agr. An. 3:321-333. 1966, pub.1967. HD2052.A115 1966
- 63594 STANNARD, D. The National Agricultural Centre, Kenilworth, Warwickshire. Great Brit. Min. Agr. Fish. Food. Agr. 74(9):403-404. Sept.1967. 10 G79J  
Set up for agricultural demonstrations and the Royal Show by the Royal Agricultural Society of England.
- 63595 STEDING, F. Bodenproduktion und Veredelungswirtschaft [Soil production and livestock finishing economy]. Agrarpolit. Studienkreis. Schriftenr. 1(1),24 p. Jan.2,1967. HD1955.A1A3  
Need for vertical integration.
- 63596 STOLZ, W. Agricultural producer societies in France. (Ge) Agrarwirtschaft 17(2):48-55. Feb.1968. 281.8 Ag826
- 63597 SUCCI, G. Cooperative barns. (It) Ital. Agr. 104(9/10):1071-1083. Sept./Oct.1967. 16 It1  
Farm management in dairy industry.
- 63598 SYMPOSIUM ON LARGE HERD MANAGEMENT. [Papers]. J. Dairy Sci. 51(1):119-142. Ref. Jan.1968. 44.8 J822  
Introduction by J. L. Albright.
- 63599 TANG, A. M. Agriculture in the industrialization of Communist China and the Soviet Union. J. Farm Econ. 49(5):1118-1138. Ref. Dec.1967. 280.8 J822  
Includes discussion by N. Nimitz.
- 63600 TIJANIC, M. What kind of cooperative farms farmers demand. (Se) Glasnik 17(1):44-49. 1968. 280.28 Z13
- 63601 TRINCHENKO, L. G. Tovarnoe pitsevodstvo sovkhosa Madliena Latviiskoi SSR [Poultry husbandry on the commercial state farm "Madliena" in the Latvian SSR]. Moskva, Kolos, 1967. 94 p. SF488.L3T7
- 63602 UPCHURCH, M. O. Farming and the rural scene; changes in organization, opportunities and problems. Agr. Outlook Conf. [Proc.], 45th Annu. Conf., paper No. 9,10 p. 1967. 1.90 C2Ou8  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 63603 UVACEK, E., and SCHMEDEMANN, I. W. The cattle business, agricultural enterprise or outdoor recreation? Tex. Agr. Progr. 14(1):12-14. Winter 1968. 100 T31Te  
Includes costs and returns.
- 63604 VERMEHREN, W. Sketches on the triple organization of the social organism. (Ge) Lebendige Erde 1:25-29. Jan./Feb.1968. 18 L49  
Capital and labor relations, including management.
- 63605 VOLANTI, U. Productive disorientation: more grain, more rice, more corn. (It) G. Agr. 77 (49):575. Dec.3,1967. 16 ItIG  
Cattle farm management with respect to forage and fertilizer policy.
- 63606 WHITLOCK, R. Seeking alternatives to continuous corn cropping. Great Brit. Min. Agr. Fish. Food. Agr. 74(12):585-588. Dec.1967. 10 G79J  
Beef and dairy cattle and sheep farms.
- 63607 WILLER, H. Technischer Fortschritt und Landwirtschaft: Formen und Messung des technischen Fortschritts [Technical progress and agriculture: forms and measurement of technical progress]. Hamburg, Parey, 1967. 218 p. HD1415.W5  
English summary.  
Bibliography, p.211-218.  
Includes linear programming.
- 63608 WILLETT, L. B., and ALBRIGHT, J. L. Dairy management in larger herds. J. Dairy Sci. 51 (1):138-142. Ref. Jan.1968. 44.8 J822
- 63609 WILLIAMS, B. G. Single-suckler herds. Great Brit. Min. Agr. Fish. Food. Agr. 74(7):344-347. July 1967. 10 G79J  
Management of beef cattle.
- 63610 YOUNG, P. Rebuilding a dairy; Biltmore's managers make a fresh commitment to the future. Farm Quart. 23(2):88-92. Spring 1968. 6 F22995

#### Bookkeeping and Records

- 63611 EISGRUBER, L. M. Micro- and macro-analytic potential of agricultural information systems. J. Farm Econ. 49(5):1541-1552. Dec.1967. 280.8 J822  
Includes application to farm management analysis.
- 63612 IFROSIE, T., and others. The methodology for the planning of cost price in agricultural production cooperatives. (Rum) Bucharest. Inst. Cent. Cercet. Agr. Sect. Econ. Agr. An. 3:283-301. 1936, pub.1967. HD2052.A115 1966  
V. V. Topor, G. Paun, A. Popa, P. Avdelidis, G. Stanciu, M. Comanescu, and O. Platon, joint authors.  
English summary.
- 63613 IVENS, M. W., and BROADWAY, F. Case studies in marketing, finance and control. London, Business Publications, 1967. 314 p. Ref. (A Business Book) HF5415.18  
Includes a case on cost accounting of a combined farm and gravel pit.
- 63614 LAING, D. A. Good record keeping. Scot. Agr. 47(1):18-22. Winter 1967/68. 10 Sco82So
- 63615 LONGO, L. P. Analyzing milk output costs—how and why we do it. Hoard's Dairymen 113 (5):262-263. Mar.10,1968. 44.8 H65  
Use of computers.
- 63616 MAGNOLLY, F. The role of accounting in farm management. (Fr) Agr. Romande (ser.B) 7(1):1-8. Jan.1968. 17 Ag8

- 63617 NAUDY, G. An example of mechanization and management at the "La Ruche de la Save" agricultural cooperative. (Fr) Coop. Agr. [Paris] 14(165):21-25. Oct.1967. 280.28 C78972  
Accounting mechanization.
- 63618 PISVEJC, J. Farm's internal accounting as an instrument for the payment of incentives to collective farmers. (Cz) Ekon. Zemedelstvi 7(1): 21-23. 1968. 281.8 Ek7
- 63619 PLAUNT, D. H. Canada's experience in and aspirations for a comprehensive farm data system. J. Farm Econ. 49(5):1526-1540. Dec. 1967. 280.8 J822
- 63620 POPA, A. Some aspects concerning the computation of fixed means amortization in agricultural production cooperatives. (Rum) Bucharest. Inst. Cent. Cercet. Agr. Sect. Econ. Agr. An. 3:259-270. 1966, pub.1967. HD2052.A115 1966  
English summary.
- 63621 RASTORGUEVA, R. N. Organization of analytical vegetable accounting in greenhouses. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 128:289-293. 1967. 20 M857
- 63622 RYAN, P. D. Accounting forecasts guide farm management. New Zeal. J. Agr. 116(2):59-61, 63. Feb.1968. 23 N48J  
Cattle and sheep.
- 63623 SALMENKOVA, L. Experience with introduction of calculation within a state farm economy. (Rus) Ekon. Sel'skogo Khoz. 12:91-96. 1967. 281.8 So73
- 63624 WIRTH, A., MELI, T. Calculation of costs and returns for an intensive orchard for table cherries. (Ge) Schweiz. Z. Obst- Weinbau 103(18):544-548. (Cont.) Sept.2,1967. 80 Sch9
- Costs and Returns**
- 63625 BAGHINSCHI, V., and POPOVICI, A. Some aspects regarding the economic efficiency increase in industrial-type hothouses with own heating source. (Rum) Bucharest. Inst. Cent. Cercet. Agr. Sect. Econ. Agr. An. 3:187-193. 1966, pub.1967. HD2052.A115 1966  
English summary.
- 63626 BAJCETIC, B. The economics of the production of corn for ensiling on collective farms of Yugoslavia. (Se) Sarajevo. Univ. Poljoprivredno-Sum. Fak. Rad. 16(18):133-156. 1967. 21.5 Sa7  
German summary.
- 63627 BLYTH, A., and CUNNINGHAM, J. M. M. Some aspects of sheep intensification. Scot. Agr. 46(2):60-67. Spring 1967. 10 Sco82So  
Cost and returns.
- 63628 COLLIER, W. L., and DAVIDSON, J. R. An economic analysis of head cabbage and dry onion production in the State of Hawaii. Hawaii. Agr. Exp. Sta. Agr. Econ. Rep. 77, 52 p. Dec. 1967. 275.29 H312Ae  
Costs and returns.
- 63629 DAVIDSON, B. R. The economic efficiency of the Australian dairy industry. Australian J. Dairy Technol. 22(4):224-233. Ref. Dec.1967. 44.8 Au74  
Chiefly costs and returns of dairy farming. Includes discussion.
- 63630 DOBRININ, V. A. Economics of fodder production in the main areas of dairy cattle husbandry. (Rus) Timiryazevskaya Sel'skokhoz. Akad. Izv. 6:216-228. 1967. 106 P44  
Chiefly acreage, costs and returns.
- 63631 FISHER, H. M. Which cereal gives the best returns? West. Australia. Dep. Agr. J. (ser.4)8(9):388-390. Sept.1967. 23 W52J  
Barley, oats and wheat cultivation costs and returns by rainfall regions.
- 63632 GALLIMORE, W. W., and VERTREES, J. G. A comparison of returns to poultry growers; under contract operating independently. U. S. D. A. Marketing Res. Rep. 814, 42 p. Ref. Feb.1968. 1 Ag84Mr  
Broilers, turkeys, and eggs.
- 63633 HAMOR, W. H. Costs and returns of producing wildlife on farmland. J. Soil Water Conserv. 23(1):16-18. Jan./Feb.1968. 56.8 J822
- 63634 HARKNESS, K. Change in agriculture has to come; labor adds to economic squeeze. Mod. Milk Hauler 8(3):6,12. Jan.1968. 280.38 M72  
Farming costs and returns.
- 63635 JENICEK, V. Outline of a forecast of costs of production. (Cz) Czech. Min. Zemedel. Les. Hospodar. Ustav Vedeckotech. Inform. Zemedel. Ekon. 40(8):499-510. Aug.1967. 281.9 C332
- 63636 JUREJEVCIC, T. Utilization of modern methods in the planning and calculation of costs. (Sl) Nase Gospod. 13(1/2):42-55. Ref. Feb. 1967. 280.8 N17  
English summary.  
Includes production functions.
- 63637 KIM, D. H., and PLATT, K. B. Economic study of farm mushroom production in Umsong Gun, Korea. Farm Manage. Notes Asia Far East 3(2):29-37. July 1967. 281.8 F2228  
Costs and returns.
- 63638 KNAAP, W. VAN DER, and MELJAARD, D. Early tomatoes on wet soils. Is heating profitable? (Du) Groenten Fruit 23(20):868-869. Nov.22,1967. 80 G89  
Greenhouse culture.
- 63639 LONGO, L. P. Stop guessing! Do you know the real costs of roughages? Hoard's Dairyman 113(6):400-401. Mar.25,1968. 44.8 H65  
Corn costs.
- 63640 MAHE, L. Certain aspects of slaughter swine production costs. (Fr) Rev. Elevage 23(1):103-104, 107-108, 111-112. Jan.1968. 49 B462
- 63641 MCPHERSON, W. K., and WITT, H. G. Live-stock product transportation cost—feed cost relationships between the Midwest and Florida. Fla. Agr. Exp. Sta. Bull. 722, 55 p., map. Dec. 1967. 100 F66S
- 63642 NODLAND, T. R. 1966 annual report of the Southeastern Minnesota Farm Management Association. Minn. Univ. Inst. Agr. Dep. Agr. Econ. Rep. 290, 25 p. June 1967. 281.9 M66  
Minnesota University Institute of Agriculture, Agricultural Research Service of U. S. Department of Agriculture, county extension services of Minnesota, and Southeastern Minnesota Farm Management Association, cooperating.  
Costs and returns.
- 63643 NODLAND, T. R. 1966 annual report of the Southwestern Minnesota Farm Management Association. Minn. Univ. Inst. Agr. Dep. Agr. Econ. Rep. 289, 24 p. June 1967. 281.9 M66  
Minnesota University Institute of Agriculture, Agricultural Research Service of U. S. Department of Agriculture, county extension services of Minnesota, and Southwestern Minnesota Farm Management Association, cooperating.
- 63644 ONDRASEK, L. Attention must be paid not only to the production, but also to its economics. (Cz) Veterinarstvi 17(5):226-230. 1967. 41.8 V6439  
Livestock production.
- 63645 SCHUPPER, J. F. B. M. Produktiekosten van boomkwekerijgewassen in het centrum Boskoop. Deel I, Gebruikte methode en overzicht van alle tot dusverre berekende kostprijzen [Production costs of nursery crops in the Boskoop Center. Part I, Methods used and review of all costs estimated to date]. Landbouw-Econ. Inst. Verslagen 193, 71 p. 1966, pub.1967. 281.9 L23V  
Ornamental plants.
- 63646 SCHUPPER, J. F. B. M. Produktiekosten van boomkwekerijgewassen in het centrum Boskoop. Deel II, Specificatie van de produktiekosten van een aantal gewassen [Production costs of nursery crops in the Boskoop Center. Part II, Specification of production costs of a number of crops]. Landbouw-Econ. Inst. Verslagen 194(2), 35 p. 1966, pub.1967. 281.9 L23V  
Ornamentals.
- 63647 SHEPPARD, V. M. Cheaper feed, more pork. Va. Polytech. Inst. Ext. Va. Farm Econ. 206:16-18. Jan./Feb.1968. 275.29 V813  
Costs and returns.



- 63648 SOUTH CAROLINA CROP AND LIVESTOCK REPORTING SERV. South Carolina--cash receipts from farm marketings--State data 1963, 1964, and 1965 preliminary--county data 1965 preliminary; centennial 100 years of crop and livestock reports. S. C. Agr. Exp. Sta. AE 296,8 p. Nov.1966. 281.9 C59  
U. S. Department of Agriculture in cooperation with Department of Agricultural Economics, South Carolina Agricultural Experiment Station, Clemson University.
- 63649 SZEDERKENYI, H. Rentability trends of state farms between 1959-1965. (Hu) Gazdalkodas 11(6):11-20. 1967. 281.8 G25  
English summary.
- 63650 TIMARU, G. Effect of territory dispersion on the economic activity of state farms. (Rum) Bucharest, Inst. Cent. Cercet. Agr. Sect. Econ. Agr. An. 3:93-100. 1966, pub.1967. HD2052.A115 1966  
English summary.  
Costs and returns, labor, and yields.
- 63651 TOMS, A. M. Aspects of economics of crop production. Kenya Coffee 32(381):361,363,365-366. Oct.1967. 68.29 C652
- 63652 U. S. DEPT. OF AGRICULTURE. ECONOMIC RESEARCH SERV. The farm cost situation; 1968 outlook issue. U. S. D. A. Econ. Res. Serv. FCS-39,52 p., map. Nov.22,1967. 1.941 F8F222  
Includes returns, and input-output analysis.
- 63653 VUCETIC, M. Profitability of milk production. (Se) Glasnik 17(1):25-32. 1968. 280.28 Z13
- 63654 WELLS, A. R. The economics of beef cow herds in northwest Minnesota. Diss. Abstr., Sect. A, 28(6):1959A. Dec.1967. Z5055.U49D5  
Costs and returns.
- 63655 WISE, J. O., and CARLIN, T. A. Selected horticultural crop budgets for north Georgia. Ga. Agr. Exp. Sta. Res. Rep. 15,34 p. Oct.1967. S51.E22  
Comparative costs and returns; includes field crops and Christmas trees.
- 63656 WOLTER, R. H. It costs more to grow high yielding corn. Doane's Agr. Rep. 31(8):11-13. Mar.8,1968. 281.8 D652
- 63657 WOOLF, W. F., and HINTON, C. E. An economic analysis of cotton production practices on cotton yields in the Ouachita Valley Area of Louisiana. La. Agr. Exp. Sta. DAE Res. Rep. 356,62 p., map. Sept.1966. 100 L935  
Costs and returns
- 63658 YAKOVUK, A. S., and ALIEV, I. G. Economic effectiveness of producing tobacco seeds, as related to variety and growing conditions. (Rus) Tabak 3:52-53. 1967. 69.8 T112  
Costs and returns chiefly; in relation to tobacco planting date.
- 63659 YATES, K. C. Gross margins on hill farms. Great Brit. Min. Agr. Fish. Food. Agr. 74(7): 322-327. July 1967. 10 G79J  
Income from different systems of farm management in mountain areas; includes costs.

#### Land Settlement and Colonization

- 63660 ARAVANTINOS, A., and others. Regional planning and suggestions for a re-adjustment of settlements in the Iliia (Elis)-area of western Peloponnesus. (Ge) Erde 98(4):281-291, map. 1967. 474 Er1  
N. Desyllas, D. Kontargyris, A. Lampakis, and P. Loukakis, joint authors.  
English summary.
- 63661 BESTERMAN, W. M. Immigration as a means of obtaining needed skills and stimulating economic and social advancement. World Pop. Conf. Proc., v.4:196-198. 1965, pub.1967. HB849.W6 1965  
Touches upon agricultural settlements in Brazil.
- 63662 CAMPBELL, P. Maryland in Africa: the Maryland State Colonization Society, 1831-1857. Diss. Abstr., Sect. A, 28(6):2170A. Dec.1967. Z5055.U49D5  
Liberia.
- 63663 CONKLIN, H. E. Pioneer settlement and agrarian reform. In Turk, K. L., and Crowder, L. V., ed. Rural development in tropical Latin America, p.123-125. 1967. HD1857.T8
- 63664 RIVEROS, N. T. Settlement and development of Upper Parana. (Sp) Paraguay Indus. Com. 22(273/274):37-40. July/Aug.1967. 280.8 P213

#### Land Tenure

- 63665 ABRAHAMS, B. G. Malawi valuer. Chartered Surv. 100(7):357-359. Jan.1968. 325.8 C39  
Survey.
- 63666 BANDYOPADHYAY, N., and GHOSH, M. G. Role of agrarian reform in agricultural development in Mexico, Taiwan and India--a comparative study. Indian J. Agr. Econ. 22(4):37-48. Oct./Dec.1967. 281.8 In2
- 63667 BECKERICH, A. The game warden's statute. (Fr) Agr. Prat. 131(9):18-22. Oct.1967. 14 J82
- 63668 BOHTE, H. G. Land consolidation, village renovation, and landscape preservation. FATIS (Food Agr. Tech. Inform. Serv.) Rev. 14(3):76-79. 1967. 275.249 F26  
In the Federal Republic of Germany; includes legislation.
- 63669 CALAN, L. DE. The land consolidation association. (Fr) Agr. Prat. 131(9):27-30. Oct. 1967. 14 J82
- 63670 CASTILLO, C. M. Social significance of land tenure systems. In Turk, K. L., and Crowder, L. V., ed. Rural development in tropical Latin America, p.92-95. 1967. HD1857.T8
- 63671 COOPER, J. P. The social distribution of land and men in England, 1436-1700. Econ. Hist. Rev. (ser.2)20(3):419-440. Ref. Dec. 1967. 277.8 Ec7
- 63672 COTRONEO, R. R. The history of the Northern Pacific land grant 1900-1952. Diss. Abstr., Sect. A, 28(6):2158A-2159A. Dec.1967. Z5055.U49D5
- 63673 COTTON, G. The Departmental Associations for the Arrangement of Farm structures [A.D.A.S.E.A, Associations Departementales pour l'Amenagement des Structures des Exploitations Agricoles]: new step in the arrangement of agricultural structures. (Fr) Inform. Agr. [Paris] 373:36-38. Sept.1967. HD1945.A115
- 63674 FISHER, J. S. The modification of rural land occupancy systems: the central Georgia Piedmont. Diss. Abstr., Sect. B, 28(6):2471B. Dec. 1967. Z5055.U49D53  
Historical.
- 63675 FORSYTH, W. G. C. Farming systems: plantations or small landholders. In Turk, K. L., and Crowder, L. V., ed. Rural development in tropical Latin America, p.126-129. 1967. HD1857.T8
- 63676 HEBART, K. T. More means for "land mobilization." (Ge) Ubersicht 19(3):200-202. Mar.9, 1968. 18 Ub3  
Program for increasing farm size.
- 63677 JONES, R. M. The short-run economic impact of land reform on feudal village irrigated agriculture in Iran. Diss. Abstr., Sect. A, 28(3):851A. Sept.1967. Z5055.U49D5
- 63678 LEONS, M. B. Land reform in the Bolivian yungas. Amer. Indig. 27(4):689-713. Oct.1967. 446.9 In8A
- 63679 MCINTOSH, K. D. Privately-owned hunting lands in West Virginia: supply, quality, and access arrangements. Diss. Abstr., Sect. A, 28(3):852A-853A. Sept.1967. Z5055.U49D5

- 63680 METCALF, T. R. Landlords without land; the U. P. zamindars today. *Pacific Aff.* 41(1/2):5-18. Spring/Summer 1967. 280.8 P11  
Land reform in India.
- 63681 MUNSELL, M. R. Land and labor at Salt River: household organization in a changing economy. *Diss. Abstr.*, Sect. B, 28(6):2243B. Dec. 1967. Z5055.U49D53  
Indian reservation in Arizona.
- 63682 PETERS, J. The new guides for promotion of outsettlements, building measures on old estates, and farm size expansion. (Ge) *Betriebswirtsch. Mitt. Wirtschaftsberater* 153:25-28. July 15, 1967. 281.8 B452  
Includes financing and credit.
- 63683 PETERSDORFF, W. VON. The use of short-term area leasing agreement for contract vegetable culture. (Ge) *Indus. Obst- Gemuseverwertung* 53(2):29-32. Jan. 18, 1968. 389.8 K832
- 63684 POWELL, J. D. The politics of agrarian reform in Venezuela: history, system, and process. *Diss. Abstr.*, Sect. A, 28(3):1109A. Sept. 1967. Z5055.U49D5
- 63685 ROSS, D. M. Trusts can have valuable role in farm ownership. *New Zeal. J. Agr.* 114(6):88-89, 91, 93. June 1967. 23 N48J
- 63686 ROTHER, K. Aerial photograph Policoro, southern Italy; an area of agrarian reform in the coastal plain of Metaponto. (Ge) *Erde* 98(2):85-89, map. 1967. 474 Er1
- 63687 SCHICKE, H. The promotion of the voluntary exchange of plots as a measure for improvement of the agricultural structure. (Ge) *Z. Kulturtech. Flurbereinigung* 8(4):193-201. July/Aug. 1967. S605.A1Z4  
English summary.
- 63688 SCHLOTTER, H. G. The promotion of autonomous land consolidations in agrarian structure policy. (Ge) *Germany. Bundesmin. Ernahr. Landwirt. Forsten. Ber. Landwirt. (n.s.)* 45(4):571-586. 1967. 18 G31
- 63689 THIESENHUSEN, W. C. Chilean agrarian reform: the possibility of gradualistic turnover of land. *Land Tenure Center. LTC Reprint* 23, 22 p. 1966. HD101.L3
- 63690 VIGNIER, A. Peru—agrarian reform or revolution. (Fr) *Paysans* 67:61-68, map. Aug./Sept. 1967. 14 R323
- 63691 WAITE, C. C. The Land Commission with special application to the mineral regulations. *Chartered Surv.* 100(7):354-356. Jan. 1968. 325.8 C38
- 63692 WALKER, W. P. Farm ownership valuation and taxation in rural-urban Maryland. *Md. Agr. Exp. Sta. Misc. Publ.* 639, 27 p. Dec. 1967. 100 M36M  
Chiefly tenure.

#### Land Utilization

- 63693 BLOCK, W. J. Rural zoning: People, property, and public policy. U. S. Fed. Ext. Serv. Ext. Serv. Circ. EEC-563, 32 p. 1967. 1.9 Ex892Esc
- 63694 CALAN, L. DE. The bill on land and urban orientation; the "Ploux" law on improvements made by holders of rural leases. (Fr) *Agr. Prat.* 131(8):25-30. Aug./Sept. 1967. 14 J82
- 63695 CRIST, R. E. Tropical subsistence agriculture and settlement. In Turk, K. L., and Crowder, L. V., ed. *Rural development in tropical Latin America*, p. 130-146. Ref. 1967. HD1857.T8  
Shifting cultivation.
- 63696 DELOGU, O. E., and GREGORY, D. D. Planning and law in Maine. 1. Private property and public regulation in Maine. *Maine. Agr. Exp. Sta. Bull.* 653, 19 p. Ref. Nov. 1967. 100 M28S
- 63697 DELOGU, O. E., and GREGORY, D. D. Planning and law in Maine. 2. Powers and devices for controlling land use. *Maine. Agr. Exp. Sta. Bull.* 654, 36 p. Ref. 1967? 100 M28S

- 63698 FALKNER, E. Land use changes in Parkway School district; periodic photo study can be an asset in predicting future land use trends. *Photogram. Eng.* 34(1):52-57, map. Jan. 1968. 325.28 P56  
Missouri.
- 63699 FAUTZ, B. Land development and patterns of farm economics in New Zealand. (Ge) *Erde* 98(2):115-134, map. Ref. 1967. 474 Er1  
English summary.
- 63700 HANSON, L. D. Cropland quality and land use changes in southern Minnesota. *Minn. Sci.* 23(4):16-19, map. July 1967. 100 M668  
Includes study of soil types.
- 63701 HORODOV, V. P., and KOVAL', A. M. Using drained land effectively. (Uk) *Visn. Sil's'ko-hospod. Nauk.* 1:15-21. Jan. 1968. 20 V82  
Russian summary.
- 63702 IMLE, E. P. The region and its problems. In Turk, K. L., and Crowder, L. V., ed. *Rural development in tropical Latin America*, p. 34-36. 1967. HD1857.T8  
Resource utilization.
- 63703 JANUSZEWSKI, J. Application of method of the correlation in the selection of qualifying characteristics. (Pol) *Czasopismo Geogr.* 38(2):193-209, map. 1967. 331.8 C99  
English summary.  
Land classification for agricultural planning.
- 63704 ROSENZWEIG H., F. Economic problems of pioneer tropical development. In Turk, K. L., and Crowder, L. V., ed. *Rural development in tropical Latin America*, p. 117-122. 1967. HD1857.T8  
Land use and settlement.
- 63705 SCHULTZE, J. H., HECKLAU, H., and BADER, F. Preliminary report on the map series on Africa by the German Research Association [Deutsche Forschungsgemeinschaft], I-II. (Ge) *Erde* 98(2):135-149, map. Ref. 1967. 474 Er1  
Contains the following parts: 1. Land use patterns of Lake Victoria area, by H. Hecklau, p. 135-142; 2. Problems of vegetation recognition and representation in parts of the map of Lake Victoria, by F. Bader, p. 142-149.
- 63706 SYMINGTON, D. F. Land use in Canada; the Canada land inventory. *Can. Geogr. J.* 76(2):44-55. Feb. 1968. 470 C162
- 63707 VON DAY, S. Maine towns plan natural resources. *Soil Conserv.* 33(8):178. Mar. 1968. 1.6 So3S

#### Land Values and Valuation

- 63708 BANDINI, M. Land values. (It) *G. Agr.* 78(7):71. Feb. 18, 1968. 16 It1G
- 63709 CHEREMUSHKIN, S. On value of land. (Rus) *Ekon. Sel'skogo Khoz.* 12:84-90. 1967. 281.8 So73
- 63710 MILGRAM, G. S. The city expands. A study of the conversion of land from rural to urban use, Philadelphia, 1945-1962. *Diss. Abstr.*, Sect. A, 28(6):2362A-2363A. Dec. 1967. Z5055.U49D5  
With reference to land prices.
- 63711 MURRAY, W. G., and MAGILL, W. M. Land values rise 9 percent in 1967. *Iowa Farm Sci.* 22(8):3-6, map. Feb. 1968. 275.28 Io94

#### POPULATION

- 63712 AGAPITIDIS, S. Internal migrations in Greece and Turkey. *World Pop. Conf. Proc.*, v. 4:471-474. 1965, pub. 1967. HB849.W6 1965  
Rural-urban migration included.
- 63713 BAWDEN, D. L. A proposal to limit the flow of human resources into farming. *J. Farm Econ.* 49(5):1321-1325. Dec. 1967. 280.8 J822
- 63714 BENITEZ ZENTENO, R., and CABRERA ACEVEDO, G. The future population of Mexico: total, urban and rural. *World Pop. Conf. Proc.*, v. 2:54-58. 1965, pub. 1967. HB849.W6 1965



- 63715 BISHOP, C. E. The urbanization of rural America: implications for agricultural economics. *J. Farm Econ.* 49(5):999-1008. Ref. Dec. 1967. 280.8 J822
- 63716 BOGUE, D. J. Prospects for population control. *J. Farm Econ.* 49(5):1094-1105. Ref. Dec. 1967. 280.8 J822  
Includes discussion by K. J. Krotki.
- 63717 BOGUE, D. J. The prospects for world population control. In *Alternatives for balancing world food production and needs*, p.72-85. 1967. HD9000.5.A4
- 63718 BURFORD, R. L. Probability projections of rates of net migration for southern counties and other applications of Markov chains. *La. State Univ. Agr. Mech. Coll. Coll. Bus. Admin. Div. Res. La. Bus. Bull.* 25(1),41 p. July 1966. 280.9 L933L
- 63719 CHESNAIE, G. A paradox: The Parisian lives to be older than the Morbihan peasant. (Fr) *Agriculture [Paris]* 31(307):23-24. Jan. 1968. 14 Ag823  
Accidents and illness.
- 63720 CHUN, D. Family planning, the population problems of Hong Kong. *World Pop. Conf. Proc.*, v.2:270-273. 1965, pub. 1967. HB849.W6 1965  
Rural population included.
- 63721 CLELAND, C. L. Selected population and agricultural statistics for Tennessee counties. *Tenn. Agr. Exp. Sta. Bull.* 419,77 p., map. Ref. June 1967. 100 T25S
- 63722 DARAGAN, M. V. Economic development and internal migration. *World Pop. Conf. Proc.*, v.4:487-491. 1965, pub. 1967. HB849.W6 1965  
USSR; rural changes included.
- 63723 DIEGUES, M. Internal migration in Brazil. *World Pop. Conf. Proc.*, v.4:492-495. 1965, pub. 1967. HB849.W6 1965  
Includes rural population.
- 63724 ELKAN, W. Circular migration and the growth of towns in East Africa. *Int. Labour Rev. Labour Rev.* 96(6):581-589. Dec. 1967.
- 63725 FROSTENSON, G. Sweden seeks urban-rural balance. *Foreign Agr.* 6(10):8-9. Mar. 4, 1968. A281.9 F76Fo  
Population and labor programs.
- 63726 GHANSAH, D. K., and ARYEE, A. F. The demographic and social effects of migration in Ghana. *World Pop. Conf. Proc.*, v.4:199-201. 1965, pub. 1967. HB849.W6 1965  
Includes population engaged in agriculture.
- 63727 GONZALEZ GALINDO, A. The agricultural labor exodus. (Sp) *Rev. Sindical Estad.* 22(87):2-10. Third Q. 1967. 263 Es8B
- 63728 HAGGERTY, J. J. Population control through family planning. III. *U. S. Nat. Adv. Comm. Food Fiber. Tech. Papers* 7,33 p. Ref. Aug. 1967. HD1751.A3
- 63729 HARTMAN, J. J. Trends and changing structure of Iowa's population. *Iowa Farm Sci.* 22(8):7-10. Feb. 1968. 275.28 Io94  
Analysis of birth, mortality and migration trends.
- 63730 HEENAN, L. D. B. Rural-urban distribution of fertility in South Island, New Zealand. *Ass. Amer. Geogr. Ann.* 57(4):713-735, map. Ref. Dec. 1967. 500 As73
- 63731 HORSTMANN, K. Rural-urban migration in the European Economic Community. *World Pop. Conf. Proc.*, v.4:496-498. 1965, pub. 1967. HB849.W6 1965
- 63732 IGUN, A. A. Demographic approach to the problems of social and economic development in Africa. *World Pop. Conf. Proc.*, v.4:67-71. Ref. 1965, pub. 1967. HB849.W6 1965  
Agricultural.
- 63733 JOHNSON, G. Z. Public health activities as factors in levels and trends of mortality and morbidity in developing countries. *World Pop. Conf. Proc.*, v.2:326-330. Ref. 1965, pub. 1967. HB849.W6 1965  
Rural and urban data included.
- 63734 KHAN, A. H., and CHOLDIN, H. M. Application of a theory of rural development to family planning in East Pakistan. *World Pop. Conf. Proc.*, v.2:282-285. 1965, pub. 1967. HB849.W6 1965
- 63735 KIMURA, M. Current fertility patterns in Japan. *World Pop. Conf. Proc.*, v.2:214-218. 1965, pub. 1967. HB849.W6 1965  
Rural-urban difference discussed.
- 63736 KINCH, A. Family planning in the context of community health services in rural Ceylon. *World Pop. Conf. Proc.*, v.2:290-293. 1965, pub. 1967. HB849.W6 1965
- 63737 KISER, C. V. Social, economic and religious factors in the differential fertility of low fertility countries. *World Pop. Conf. Proc.*, v.2:219-222. Ref. 1965, pub. 1967. HB849.W6 1965  
Rural-urban differences noted.
- 63738 KURODA, T. Internal migration: an overview of problems and studies. *World Pop. Conf. Proc.*, v.4:505-508. Ref. 1965, pub. 1967. HB849.W6 1965  
Rural-urban trends discussed.
- 63739 MAYOBRE, J. A. Economic development and population growth in Latin America. *World Pop. Conf. Proc.*, v.4:72-74. 1965, pub. 1967. HB849.W6 1965  
Agricultural aspects included.
- 63740 MCNEILL, H. M. Migration in North Carolina, 1955-1960. *N. C. State Coll. Agr. Eng. Dep. Agr. Econ. Misc. Publ.* 27,8 p. Dec. 1967. 281.9 N816M  
Rural-urban.
- 63741 MORTARA, G. Factors affecting rural-urban migration in Latin America: influence of economic and social conditions in these two areas. *World Pop. Conf. Proc.*, v.4:509-512. 1965, pub. 1967. HB849.W6 1965
- 63742 NAZAREVSKY, O. R., and TCHUMICHEV, D. A. Demographic processes and their relationship to the processes of social and economic progress in the Soviet Republics of Central Asia. *World Pop. Conf. Proc.*, v.4:75-81. 1965, pub. 1967. HB849.W6 1965  
Agricultural.
- 63743 NIKOLITCH, R. Myth of "old farmer" updated. *Agr. Situation [Washington]* 52(3):6. Mar. 1968. 1 Ec7Ag  
Population statistics.
- 63744 NOTESTEN, F. W. The prospects for population growth. *U. S. Nat. Adv. Comm. Food Fiber. Tech. Papers* 8:183-196. Aug. 1967. HD1751.A3
- 63745 PEREVEDENTSEV, V. I. Relationship between population migration and ethnic convergence in the Soviet Union of today. *World Pop. Conf. Proc.*, v.4:513-518. 1965, pub. 1967. HB849.W6 1965  
Rural migration included.
- 63746 PONSIOEN, J. A. An analysis of—and a policy regarding—rural migration in developing countries. *World Pop. Conf. Proc.*, v.4:519-522. 1965, pub. 1967. HB849.W6 1965
- 63747 PROTHERO, R. M. Characteristics of rural/urban migration and the effects of their movements upon the composition of population in rural and urban areas in sub-Saharan Africa. *World Pop. Conf. Proc.*, v.4:523-526. Ref. 1965, pub. 1967. HB849.W6 1965
- 63748 ROBINSON, C. R. The impact of the city on rural immigrants to Memphis, 1880-1940. *Diss. Abstr.*, Sect. A, 28(6):2261A-2262A. Dec. 1967. Z5055.U49D5
- 63749 ROMANUK, K. The demographic aspects of economic growth in Poland. *World Pop. Conf. Proc.*, v.4:99-102. 1965, pub. 1967. HB849.W6 1965  
Rural population included.
- 63750 SANGHVI, L. D. Inbreeding in India. *World Pop. Conf. Proc.*, v.2:503-506, map. 1965, pub. 1967. HB849.W6 1965  
Rural areas included.

- 63751 SEKLANI, M. The cost of population growth under the Tunisian Development Plan (1962-1971). World Pop. Conf. Proc., v.4:103-107. 1965, pub. 1967. HB849.W6 1965  
Rural population included.
- 63752 SOUTHALL, A. The demographic and social effects of migration on the population of East Africa. World Pop. Conf. Proc., v.4:235-238. 1965, pub. 1967. HB849.W6 1965  
Agricultural population discussed.
- 63753 SOVANI, N. V. Internal migration and the future trend of population in India. World Pop. Conf. Proc., v.2:40-44. 1965, pub. 1967. HB849.W6 1965  
Includes rural population data and rural-urban migration.
- 63754 TAEUBER, I. B. International migration and population dynamics in the Far East. World Pop. Conf. Proc., v.4:239-243. Ref. 1965, pub. 1967. HB849.W6 1965  
Rural urban differences noted.
- 63755 THIRRING, L. L. Internal migration in Hungary and some Central and East European countries. World Pop. Conf. Proc., v.4:527-531. 1965, pub. 1967. HB849.W6 1965  
Rural population included.
- 63756 THOMAS, D. S. Internal migration in the United States: 1870-1960. World Pop. Conf. Proc., v.4:532-537. 1965, pub. 1967. HB849.W6 1965  
Rural population included.
- 63757 UEDA, M. Internal migration affecting age composition and fertility with reference to Japan. World Pop. Conf. Proc., v.4:538-541. 1965, pub. 1967. HB849.W6 1965  
Agricultural population included.
- 63758 URLANIS, B. T. Dynamics of the birth rate in the Union of Soviet Socialist Republics and factors contributing to it. World Pop. Conf. Proc., v.2:232-238. 1965, pub. 1967. HB849.W6 1965  
Data for rural population included.
- 63759 U. S. AGENCY FOR INTERNATIONAL DEVELOPMENT. POPULATION BR. Assistance for family planning programs in developing countries. Washington, 1967. 80 p. HQ766.A5
- 63760 VAMATHEVAN, S. Some aspects of internal migration in Ceylon. World Pop. Conf. Proc., v.5:542-549. 1965, pub. 1967. HB849.W6 1965  
Agricultural population included.
- 63761 WORLD POPULATION CONFERENCE, BELGRADE, 1965. Proceedings. New York, United Nations, 1966-67. 4 v. Ref. (United Nations. E/CONF. 41/2-5) HB849.W6 1965  
Includes rural population.
- 63762 YANG, J. M. Fertility and family planning in rural Korea. World Pop. Conf. Proc., v.2:309-312. 1965, pub. 1967. HB849.W6 1965
- 63769 HOLLAND, F. G. Leisure in the countryside—the landowner's point of view. Great Brit. Min. Agr. Fish. Food. Agr. 74(7):332-334. July 1967. 10 G79J  
Comment of recreation policy.
- 63770 JONES, G. H. Water resource projects and outdoor recreation. Amer. Soc. Civil Eng. J. 93(UP4, proc. paper 5652):141-150. Dec. 1967. 290.9 Am3Ps
- 63771 MCCALL, J. D., and BARNES, W. B. Game biologists use farm practices to improve public hunting area. Soil Conserv. 33(8):180-181, map. Mar. 1968. 1.6 So3S  
Indiana.
- 63772 MITCHELL, L. S. An empirical study of urban recreation units: playgrounds as central places. Diss. Abstr., Sect. B, 28(6):2473B. Dec. 1967. Z5055.U49D53
- 63773 O'BRIEN, W. E. An analysis of recreation leadership personnel practices in selected park and/or recreation departments in Illinois. Diss. Abstr., Sect. A, 28(6):2108A-2109A. Dec. 1967. Z5055.U49D5
- 63774 OWEN, J. D. The supply of labor and the demand for recreation in the United States, 1900-1961. Diss. Abstr., Sect. A, 28(6):1949A-1950A. Dec. 1967. Z5055.U49D5
- 63775 STOEVENER, H. H., and BROWN, W. G. Analytical issues in demand analysis for outdoor recreation. J. Farm Econ. 49(5):1295-1306. Ref. Dec. 1967. 280.8 J822  
Includes discussion by B. D. Gardner.
- 63776 SWENSON, E. A. Massachusetts improves its public pheasant shooting fields. Soil Conserv. 33(8):175-176. Mar. 1968. 1.6 So3S
- 63777 TEMPLE, G. H. Using recreation resources, [Pennsylvania] extension helps county group take action. Ext. Serv. Rev. 39(2):12-13. Feb. 1968. 1 Ex892Ex  
For community profit.
- 63778 TUTHILL, D. F., SOBERS, D., and MARSHALL, J. P. The effects of sediment pollution on water recreation in the upper Potomac estuary. Md. Agr. Exp. Sta. Misc. Publ. 653, 62 p., map. Ref. Dec. 1967. 100 M36M
- 63779 WEBB, W. L. Public use of forest wildlife: quantity & quality considerations. J. Forest 66(2):106-110. Ref. Feb. 1968. 99.8 768
- 63780 WILKINS, B. T. Outdoor recreation and commercial fishery data development, and use in planning: a case study, town of Southold. Diss. Abstr., Sect. B, 28(6):2210B. Dec. 1967. Z5055.U49D53  
New York.

## RURAL SOCIAL ORGANIZATION

## RECREATION

- 63763 BALANICA, T. Tourism in international forest publications. (Rum) Rev. Padurilor 82(10):551-554. Oct. 1967. 99.8 R327
- 63764 BOGGS, G. D. Recreation. Watersheds 2(1):8-10, map. Spring 1967. S900.W3  
Canada.
- 63765 BOHART, C. V. Good recreation area design helps prevent site deterioration. J. Soil Water Conserv. 23(1):21-22. Jan./Feb. 1968. 56.8 J822
- 63766 BROWN, P. J., and HUNT, J. D. Consumer sentiment and Utah's out of State visitor. Utah Sci. 28(4):119-120. Dec. 1967. 100 Ut1F  
Tourism.
- 63767 COX, E. The why of outdoor recreation. Va. Forests 22(2):12-15, 18, 20. Summer 1967. 99.8 V81
- 63768 FREY, J. C., and GAMBLE, H. B. Policy issues and problems in outdoor recreation. J. Farm Econ. 49(5):1307-1320. Ref. Dec. 1967. 280.8 J822  
Includes discussion by V. J. Norton.
- 63781 ALERS-MONTALVO, M. Cultural barriers and facilitators. In Turk, K. L., and Crowder, L. V., ed. Rural development in tropical Latin America, p.58-72. Ref. 1967. HD1857.T8
- 63782 ASCHENBRENNER, J. C. Endogamy and social status in a West Punjabi village. Diss. Abstr., Sect. B, 28(6):2238B-2239B. Dec. 1967. Z5055.U49D53
- 63783 BRÜNNER, E. DE S. Position papers suggest history. Rural Sociol. 32(4):473-475. Dec. 1967. 281.28 R88  
Comments on papers in the June 1967 of Rural Sociology.
- 63784 FALS BORDA, O. Cultural and social structure. In Turk, K. L., and Crowder, L. V., ed. Rural development in tropical Latin America, p.45-57. Ref. 1967. HD1857.T8
- 63785 FORNI, G. "Homo ludens," "homo creans," and the origin of techniques. (It) Riv. Storia Agr. 6(4):342-351. Ref. Dec. 1966. 30.98 R52  
English summary, p.413.  
With reference to agriculture.



- 63786 HELMS, M. W. Frontier society: life in a Misquito village in eastern Nicaragua. Diss. Abstr., Sect. B, 28(6):2240B-2241B. Dec.1967. Z5055.U49D53
- 63787 HIEBERT, P. G. Structure and integration in a central Indian village. Diss. Abstr., Sect. B, 28(6):2241B-2242B. Dec.1967. Z5055.U49D53
- 63788 HILL, G. W. Social implications of agricultural development. In Turk, K. L., and Crowder, L. V., ed. Rural development in tropical Latin America, p.73-91. Ref. 1967. HD1857.T8
- 63789 JONES, D. J. Cultural variation among six Lahu villages, northern Thailand. Diss. Abstr., Sect. B, 28(6):2242B. Dec.1967. Z5055.U49D53
- 63790 LIGUTTI, L. The human factor in the agricultural development of Latin America. In Inter-American Development Bank. Round table [on] agricultural development in Latin America; the next decade, p.197-202. 1967. HD1790.5.A615 Sociological aspects.
- 63791 LOPREATO, J. Effects of emigration of the social structure of a Calabrian community. Diss. Abstr., Sect. A, 28(6):2351A. Dec.1967. Z5055.U49D5  
Agricultural community.
- 63792 SHIRLEY, R. W. The end of a tradition: culture change and development in the municipio of Cunha, Sao Paulo, Brazil. Diss. Abstr., Sect. B, 28(6):2244B-2245B. Dec.1967. Z5055.U49D53  
Agricultural community.
- 63793 VAZQUEZ-FIGUEROA, O. Some effects of residential experience on assimilation to urban life among rural and urban migrants in Pittsburgh, Pennsylvania. Diss. Abstr., Sect. A, 28(3):1137A-1138A. Sept.1967. Z5055.U49D5
- Human Ecology
- 63794 ERICKSON, D. B. Comprehensive planning; new concept for Kansas' rural areas. Ext. Serv. Rev. 38(12):12. Dec.1967. 1 Ex892Ex  
Extension programs.
- 63795 FAIRSERVIS, W. A. The origin, character, and decline of an early civilization. Amer. Mus. Novitates 2302, 48 p., map. Ref. Oct.20, 1967. 500 N483N  
Includes settlement patterns and list of food.
- 63796 HOFFMANN, R. Conflict of interest between traffic policy and regional planning policy. (Ge) Raumforsch. Raumordnung 25(3):97-103. Aug.1967. 282.9 R19
- 63797 JAKLE, J. A. Salt and initial settlement of the Ohio Valley. Diss. Abstr., Sect. B, 28(6):2472B. Dec.1967. Z5055.U49D53
- 63798 KNITTEL, R. E. An evaluation of the reliability of the self-study method in community development. Diss. Abstr., Sect. B, 28(6):2242B. Dec.1967. Z5055.U49D53  
Relationship to anthropology.
- 63799 NONGOP HYOPTONG CHOHP CHUNGANG HOE. Naeil ui nongch'on [Inside rural villages]. Seoul, 1967. 76 p. HD2095.5.N6
- 63800 PENN, R. J., and JORDAHL, H. C. Assessment of regional planning experiences at differing governmental levels. J. Farm Econ. 49(5):1277-1294. Dec.1967. 280.8 J822  
Includes discussion by K. Kristanson and C. J. Leman.
- 63801 POULIN, F. Constraints and objectives of regional planning in Quebec. J. Farm Econ. 49(5):1271-1276. Dec.1967. 280.8 J822
- 63802 POURRAT, C. An experiment in development in course on the high Ardeche plateaux. (Fr) Agr. Prat. 131(9):11-14. Oct.1967. 14 J82  
Regional program.
- 63803 SAVAGE, E. P. An ecological study of a low socioeconomic neighborhood. Diss. Abstr., Sect. B, 28(6):2504B. Dec.1967. Z5055.U49D53
- 63804 SAVILLE, L. B. Regional economic development in Italy. Durham, North Carolina, Duke University Press, 1967. 191 p. Ref. HC305.S2
- 63805 SCHLOSSER, R. B. Image of northwestern counties projected in campaign. Sci. Farmer [Penn. Sta.] 15(2):7. Winter 1968. 100 P381S  
SPARKS, Spring Pickup and Repair Keeps "N.W. Pa." Sparkling.
- 63806 SCHOENWETTER, J. Cultural ecological research: a methodological inquiry. Diss. Abstr., Sect. B, 28(6):2244B. Dec.1967. Z5055.U49D53
- 63807 WOLFE, M. Some implications of recent changes in urban and rural settlement patterns in Latin America. World Pop. Conf. Proc., v.4:457-460. 1965, pub.1967. HB849.W6 1965
- Institutions
- 63808 ANDRADE, J. N. DE. Participation of youth in development. (Por) Ext. Rural 3(25):3-5. Jan.1968. S544.5.B7E9  
Brazil.
- 63809 BAUDER, W. W., and DOERFLINGER, J. The health situation of older workers. Iowa Farm Sci. 22(9):15-17. Mar.1968. 275.28 I094
- 63810 BLUBAUGH, R. School bells for migrants; California's schools welcome the 78,000 children of its crop-following families into the new master plan. Amer. Educ. 4(3):5-7. Mar. 1968. 156.3 Am3
- 63811 BOCHEVER, A. M., and RASKIN, L. M. Soviet agricultural literature. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 11:150-153. Nov.1967. 20 V633
- 63812 BOWDEN, O. H. CPA [Cotton Producers Association] training equals MS in Agribusiness. News Farmer Coop. 54(9):9,12. Dec.1967. 166.2 N47  
Georgia.
- 63813 BUTZ, E. L. The land grant agricultural college and national food and fiber policy. U. S. Nat. Adv. Comm. Food Fiber. Tech. Papers 8:27-36. Aug.1967. HD1751.A3  
Education, research, and extension.
- 63814 CASTILLO, L. S. Graduate training in the United States as seen by a national from a developing country. J. Dairy Sci. 51(2):237-242. Ref. Feb.1968. 44.8 J822  
Agricultural education.
- 63815 CHRISTENSEN, H. H. Education for off-farm agricultural occupations in Nevada. Diss. Abstr., Sect. B, 28(3):745B. Sept.1967. Z5055.U49D53
- 63816 CLEMSON UNIVERSITY. EXTENSION SERV. 1966 annual report. Clemson, 1967? 27 p. 275.29 S08A
- 63817 CUNHA, T. J. Positive suggestions for the future. In Turk, K. L., and Crowder, L. V., ed. Rural development in tropical Latin America, p.413-429. 1967. HD1857.T8  
Education and research.
- 63818 DURFEE, A. E. Invest yourself in growth. Ext. Serv. Rev. 38(12):4. Dec.1967. 1 Ex892Ex  
Education of New York extension workers.
- 63819 EVERETT, H. L. How an administrator evaluates a teaching program. J. Dairy Sci. 51(2):262-264. Feb.1968. 44.8 J822  
Agricultural education.
- 63820 FASICK, F. A. Educational retardation among children of migratory agricultural workers. Rural Sociol. 32(4):399-413. Ref. Dec.1967. 281.28 R88
- 63821 FULLER, T. E. An analysis of the spatial structure of manufacturing in the Appalachian Region between 1950-60. Diss. Abstr., Sect. A, 28(3):849A-850A. Sept.1967. Z5055.U49D5

- 63822 GARCIA MANZANEDO, H. Social and cultural characteristics of rural areas in Latin America: their influence on and relationship to health. (Sp) Ofic. Sanit. Panamer. Bol. 64(1): 39-51. Ref. Jan.1968. 449.9 H92B English summary.
- 63823 HAINES, K. A. The Inter-American Institute of Agricultural Sciences, its role in Latin America's agricultural development. Int. Agr. Develop. 39:12-14. Jan.1968. aS544.A316
- 63824 HAVENS, A. E. Theory and method of research on diffusion. In Turk, K. L., and Crowder, L. V., ed. Rural development in tropical Latin America, p.96-105. Ref. 1967. HD1857.T8 Communication with reference to adoption of new farming techniques.
- 63825 KEMNIZ, E. A. "Green Week"—and how much farther? (Ge) Übersicht 19(2):122-124,126. Feb.10,1968. 18 Ub3
- 63826 A KERTESZETI es Szoleszeti Foiskola Konyvtaranak tortenete, 1860-1894 [History of the Library of the College of Horticulture and Viticulture, 1860-1894]. Budapest, 1967. 58 p. (A Kerteszeti es Szoleszeti Foiskola Kiadvanyai) Z794.H8K4 English summary.
- 63827 KIMMEL, D. C. Role of international study in staff development. S. Dak. State Univ. Ext. Spec. Rep. 4:70-74. 1965. 275.29 So85Sr Extension workers.
- 63828 KLEIN, S. Scientific, technical and economic information for workers in agriculture. (Cz) Prague. Vyzk. Ustav Zemed. Vestn. 14(4):172-173. 1967. 19.5 C333
- 63829 KOHLBACH, C. Turn of the year. (Ge) Diplomlandwirt 18(1):1-2. Jan.1968. 18 D62 Agricultural education and technicians.
- 63830 KOPP, S. Reform of the agricultural sciences curriculum in central Germany. (Ge) Diplomlandwirt 18(2):22-24,26. Feb.1968. 18 D62
- 63831 KORTH, P. A. The yeoman and a market economy. Diss. Abstr., Sect. A, 28(6):2177A. Dec. 1967. Z5055.U49D5 Attitudes in Midwestern farm journals, 1888-1918.
- 63832 KRUSE, K. W. Practical training for farm take-over. FATIS (Food Agr. Tech. Inform. Serv.) Rev. 14(3):65-67. 1967. 275.249 F26 In Netherlands.
- 63833 LEUTZBACH, W. Recreation and transportation. (Ge) Raumforsch. Raumordnung 25(3): 103-110. Ref. Aug.1967. 282.9 R19
- 63834 LINSCHIED, J. Reorientation of schooling and education in agriculture. (Ge) Diplomlandwirt 18(1):4-5. Jan.1968. 18 D62
- 63835 LONG, J. S. Congress' definition of educational administrative roles for agencies participating in the general extension program authorized in the Higher Education Act of 1965. Diss. Abstr., Sect. A, 28(3):934A-935A. Sept.1967. Z5055.U49D5
- 63836 MCGHEE, O. C. Professional and technical needs of teachers of vocational agricultural in West Virginia. Diss. Abstr., Sect. A, 28(6): 2122A-2123A. Dec.1967. Z5055.U49D5
- 63837 MILLER, N. N. Village leadership and modernization in Tanzania: rural politics among the Nyamwezi people of Tabora region. Diss. Abstr., Sect. A, 28(6):2305A-2306A. Dec.1967. Z5055.U49D5
- 63838 MILLER, P. A. International education: Prospects and uncertainties for U. S. universities. J. Farm Econ. 49(5):1083-1093. Dec.1967. 280.8 J822
- 63839 MYERS, W. E. County agents, USA. Farm Technol. 24(2):4. Feb.1968. 275.28 N213
- 63840 NEVA, F. A. Health problems and agricultural practices. In Turk, K. L., and Crowder, L. V., ed. Rural development in tropical Latin America, p.194-197. 1967. HD1857.T8 Hookworm and schistosomiasis.
- 63841 NORTH CAROLINA. UNIVERSITY. EXTENSION SERV. Arts and crafts for boys and girls. N. C. Univ. Ext. Home Econ. Ser. 77,15 p. Dec.1967. 275.29 N811Hom
- 63842 NOTTINGHAM. UNIVERSITY. SCHOOL OF AGRICULTURE. Report 1966-1967. Sutton bonington, 1967. 183 p. 103 N84Re
- 63843 NUNES, P. Agriculture and health. (Por) Gaz. Agr. Angola 12(11):806-807,809,811. Nov.1967. 24 G252 Policy in Angola.
- 63844 RICHARDSON, R. W. Training of scientific personnel. In Turk, K. L., and Crowder, L. V., ed. Rural development in tropical Latin America, p.403-412. 1967. HD1857.T8
- 63845 ROCHAC, A. Economic aspects of health services in rural areas. (Sp) Ofic. Sanit. Panamer. Bol. 64(1):52-68. Jan.1968. 449.9 P192B English summary.
- 63846 ROSS, H. E. Factors influencing the allocation of county resources to cooperative extension area specialist positions in agriculture in Kansas. Diss. Abstr., Sect. A, 28(3):935A-936A. Sept.1967. Z5055.U49D5
- 63847 SCHICKELE, R. Overcoming institutional obstacles to agricultural progress in the developing countries. In Alternatives for balancing world food production and needs, p.112-133. 1967. HD9000.5.A4 Discusses agricultural development and cultural lag, poverty, education, cooperation, land reform, extension work, and technical assistance.
- 63848 SCHULTZ, T. W. Education and research in rural development. In Turk, K. L., and Crowder, L. V., ed. Rural development in tropical Latin America, p.391-402. 1967. HD1857.T8
- 63849 SCHULTZ, T. W. Efficient allocation of brains in modernizing world agriculture. J. Farm Econ. 49(5):1071-1082. Ref. Dec.1967. 280.8 J822
- 63850 SNOOK, L. C. The role of the agricultural adviser in Burmese agriculture. Australian Inst. Agr. Sci. J. 33(3):192-197. Sept.1967. 23 Au74
- 63851 STEVENS, G. Z. Agricultural education. New York, Center for Applied Research in Education, 1967. 113 p. Ref. (The Library of Education) S531.S7
- 63852 TAMMADGE, C. Rural youth and adult education. Tasmanian J. Agr. 38(4):259-262. Nov.1967. 23 T182T
- 63853 THOMAS, D. W. Role of the United States university in international education and research. J. Dairy Sci. 51(2):232-237. Feb.1968. 44.8 J822 In agriculture.
- 63854 TIEN, H. Y. Educational expansion, development of educated personnel and economic development in China. World Pop. Conf. Proc., v.4:181-183. 1965, pub.1967. HB849.W6 1965 Rural population discussed.
- 63855 TULLY, J. Agricultural extension in developing countries. S. Pac. Bull. 17(4):21-25. Fourth Q.1967. 280.8 So89
- 63856 U. S. FEDERAL COUNCIL FOR SCIENCE AND TECHNOLOGY. COMMITTEE ON SCIENTIFIC AND TECHNICAL INFORMATION. Report. Washington, Program Coordination Services, U. S. National Agricultural Library. 1967. 31 p. aQ223.A2C62 Original report prepared by M. E. Corning; revised by C. W. Mehring.
- 63857 U. S. INTERDEPARTMENTAL COMMITTEE ON CHILDREN AND YOUTH. SUBCOMMITTEE ON TRANSITION FROM SCHOOL TO WORK. From school to work: Federal services to help communities plan with youth. U. S. D. A. PA-602, rev. 44 p. Nov.1967. 1 Ag84Pro
- 63858 U. S. NATIONAL AGRICULTURAL LIBRARY. The National Agricultural Library in the next decade: changing needs and concepts, by A. J. Carabelli. Washington, 1966. 2 v. aZ733.N3C3 Bibliography v.2:29-38.
- 63859 VERMAAT, J. A. Vigla: faith and initiative in action. FATIS (Food Agr. Tech. Inform. Serv.) Rev. 14(3):80-83. 1967. 275.249 F26 Netherlands aid to refugees in Greece.



- 63860 VOETSCH, A. Toyon [Job Corps Conservation Center] offers second chance. Reclam. Era 53(4):104-107. Nov.1967. 156.84 R24 Vocational training.
- 63861 WHELDEN, H. C. Doing a better educational job. Ext. Serv. Rev. 38(12):3. Dec.1967. 1 Ex892Ex  
Maine extension workers.
- 63862 WILLIAMS, E. N. An analysis of decision making processes used by county extension chairmen in Oklahoma in selecting extension programs. Diss. Abstr., Sect. A, 28(3):928A-929A. Sept.1967. Z5055.U49D5
- 63863 ZIMMER, J. M. Expenditures for public elementary and secondary education in counties classified by the relative poverty status of their rural populations. J. Farm Econ. 49(5):1204-1208. Dec.1967. 280.8 J822

#### Leadership

- 63864 VANDEBERG, G., and SCHUSTER, R. B. What's the difference? Education/organization. Ext. Serv. Rev. 38(11):10-11. Nov.1967. 1 Ex892Ex  
Leadership extension program.
- 63865 MICHAELSEN, L. C. A study of program leadership among extension specialists directed toward learning what factors augment and deter leadership expression. Diss. Abstr., Sect. A, 28(6):2035A-2036A. Dec.1967. Z5055.U49D5

#### Rural Organizations and Movements

- 63866 ALBERTA FEDERATION OF AGRICULTURE. Twenty-seventh annual meeting, held in Calgary, Alberta, January 10th, 11th, and 12th, 1968; directors report and financial statement. Edmonton, 1968. 24 p. 7 AL17D
- 63867 AUBE, H. Responsibility, effectiveness, solidarity. (Fr) Agr. Prat. 132(1):32-34. Jan.1968. 14 J82  
Address opening the inaugural session of the Societe des Agriculteurs de France.
- 63868 CALIFORNIA STATE GRANGE. Journal of proceedings, ninety-fifth annual session, Riverside, California, 1967. Sacramento, 1967. 247 p. 4 C123
- 63869 FULLER, W. E. The rural roots of the progressive leaders. Agr. Hist. 42(1):1-13. Jan. 1968. 30.98 Ag8
- 63870 KANSAS STATE GRANGE. Roster, 1968. n.p., 1968. 74 p., map. 4 K131
- 63871 MASSACHUSETTS STATE GRANGE. Official directory, 1968. n.p., 1968. 92 p. 4 M385D
- 63872 MOORHOUSE, S. The Royal Lancashire Agricultural Society. Great Brit. Min. Agr. Fish. Food. Agr. 74(8):355-357. Aug.1967. 10 G79J
- 63873 MORRISON, D. E., and STEEVES, A. D. Deprivation, discontent, and social movement participation: evidence on a contemporary farmers' movement, the NFO [National Farmers' Organization]. Rural Sociol. 414-434. Ref. Dec.1967. 281.28 R88
- 63874 NADEL', S. Struggle of farmers in the capitalistic countries for just solution of the agrarian problems. (Rus) Ekon. Sel'skogo Khoz. 12:99-108. 1967. 281.8 So73
- 63875 PARNAUDEAU, G. Systematic encouragement of youth who make a positive contribution to the development of farms and changes in the agricultural milieu. (Fr) Agr. Prat. 131(8):12-13. Aug./Sept.1967. 14 J82  
On the Jeunesse Agricole Chretienne.
- 63876 RAHMAN, A. EL A. A. Organization of rural youth (Sadieg) clubs in the Sudan. S. Dak. State Univ. Ext. Spec. Rep. 4:40-41. 1965. 275.29 So85Sr

- 63877 SASKATCHEWAN FARMERS UNION. Eighteenth annual convention, Saskatoon, November 28, 29, 30, December 1, 1967. n.p., 1968? 84 p. 7 Sa77
- 63878 TENNESSEE YOUNG FARMERS AND HOME-MAKERS. 1968 program. n.p., 1968. 32 p. 275.29 T252
- 63879 VAUGHAN, E. D. 4-H progress and projections. Ext. Serv. Rev. 39(2):10-11. Feb.1968. 1 Ex892Ex  
Extension program outlook.
- 63880 WASHINGTON STATE UNIVERSITY. EXTENSION SERV. 1968 4-H member guide to application information. Wash. State Univ. Ext. E. M. 1486, rev., 17 p. Dec.1967. 275.29 W27Mi
- 63881 WESTERN FARMER ASSOCIATION. [51st anniversary meeting]. Western Farmer 45(9):3-33. Mar.1968. 47.8 W27

#### Cooperative Organizations

- 63882 AUSTIN, J. R. Co-operative law, regulations and constitution. In Warley, T. K., ed. Agricultural producers and their markets, p.377-391. 1967. HD9000.6.A35  
Great Britain.
- 63883 AUSTIN, J. R. Division of functions in co-operative development. In Warley, T. K., ed. Agricultural producers and their markets, p.392-398. 1967. HD9000.6.A35
- 63884 AUSTIN, J. R. Divisions and amalgamations in co-operatives. In Warley, T. K., ed. Agricultural producers and their markets, p.399-405. 1967. HD9000.6.A35
- 63885 BATES, R. Health product sales \$1,000 per month. Feed Farm Supplier 41(9):24-26. Sept.1967. 47.8 H28  
Cooperative services in Wisconsin.
- 63886 BELL, R. WFA's [Western Farmers Association] 50 years only the starting point. News Farmer Coop. 34(9):10-12. Dec.1967. 166.2 N47  
Cooperative in Seattle, Washington.
- 63887 BLUM, M. A. FCS [Farmer Cooperative Service] Division aim, in-depth appraisals. News Farmer Coop. 35(1):8,22. Apr.1968. 166.2 N47
- 63888 BONNER, A. The consumer co-operative movement. In Warley, T. K., ed. Agricultural producers and their markets, p.371-374. 1967. HD9000.6.A35  
Great Britain.
- 63889 BRIND, P. J. Labour organization and management in a co-operative. In Warley, T. K., ed. Agricultural producers and their markets, p.490-495. 1967. HD9000.6.A35  
Farmway Ltd., Darlington, Scotland.
- 63890 CARPENTER, G. A. People are the premium in co-op mergers. News Farmer Coop. 34(9):15,19. Dec.1967. 166.2 N47
- 63891 CHANDLER, E. E. FCS [Farmer Cooperative Service] helps Paraguay upgrade co-ops. News Farmer Coop. 35(1):9,21. Apr.1968. 166.2 N47
- 63892 CLARKSON, C. Forming co-operatives in underdeveloped countries. In Warley, T. K., ed. Agricultural producers and their markets, p.414-423. 1967. HD9000.6.A35
- 63893 COLLINGRIDGE, G. Public and member relations programmes in a large co-operative. In Warley, T. K., ed. Agricultural producers and their markets, p.496-504. 1967. HD9000.6.A35  
Great Britain.
- 63894 CORKE, N. C. E. The role of agricultural co-operative apex organizations in the United Kingdom. In Warley, T. K., ed. Agricultural producers and their markets, p.573-577. 1967. HD9000.6.A35
- 63895 DÄHNCKE, C. L. Co-op news from Micronesia. News Farmer Coop. 34(12):10-12. Mar.1968. 166.2 N47
- 63896 DAVIDSON, D. R. Distribution of surplus by United States co-operatives. Year Book Agr. Co-op. 1967:17-28. 280.29 H78

- 63897 DIGBY, M. Organizational structure and responsibilities in co-operatives. In Warley, T. K., ed. *Agricultural producers and their markets*, p.430-433. 1967. HD9000.6.A35
- 63898 EASTWOOD, T. W. R. Education in the agricultural co-operative movement. In Warley, T. K., ed. *Agricultural producers and their markets*, p.556-572. 1967. HD9000.6.A35
- 63899 EVERETT, MRS. L. Becoming involved—a member responsibility. *News Farmer Coop.* 34(12):13-14. Mar.1968. 166.2 N47
- 63900 GIANNINI, E. Avant-garde cooperation. (It) *Modena* 73(10):51-52. Oct.1967. 280.9 M722
- 63901 HARDY, C. E. University men briefed on co-op practicalities. *News Farmer Coop.* 34(9):13-14, 17-18. Dec.1967. 166.2 N47  
Review of 1967 Conference on Cooperatives for Extension and Other Land Grant University Staff, held at Purdue University, August 4 and 5.
- 63902 HEWLETT, R. Status, achievements and problems of agricultural co-operatives in Europe. In Warley, T. K., ed. *Agricultural producers and their markets*, p.311-321. 1967. HD9000.6.A35
- 63903 HIRSCHFELD, A. The development of French agricultural cooperation and the European Economic Community. (Fr) *Rev. Etud. Coop.* 46(149):285-303. Third Q.1967. 280.28 R323  
English summary, p.345.
- 63904 HIRSCHFELD, A. Recent development of the Tunisian cooperative movement. (Fr) *Rev. Etud. Coop.* 46(149):327-337. Third Q.1967. 280.28 R323  
English summary, p.345-346.
- 63905 HOFFGAARD, H. The old homeland. 11. Mecklenburg. (Ge) *Raiffeisen-Rundschau* 20(1):9. Jan.1968. 284.28 R132  
On agricultural cooperatives.
- 63906 HULLE, V. The European Symposium of Agricultural Cooperation. (Fr) *Rev. Etud. Coop.* 46(149):305-315. Third Q.1967. 280.28 R323  
English summary, p.345.
- 63907 INDIA. MINISTRY OF FOOD, AGRICULTURE, COMMUNITY DEVELOPMENT AND CO-OPERATION. DEPT. OF CO-OPERATION. Report 1966-67. Faridabad, 1967. 51 p. 280.9 In234  
Agricultural cooperatives included.
- 63908 KIRMAN, C. H. Crothersville, Indiana, a co-op winner. *News Farmer Coop.* 35(1):3,19-20. Apr.1968. 166.2 N47  
Future Farmers of America.
- 63909 LACHENMAIER, F. The big parcel; clarifying discussion on producer societies. (Ge) *Ubersicht* 19(3):196-199. Mar.9,1968. 18 Ub3
- 63910 LOCKHART, J. La cooperation agricole dans la CEE [Agricultural cooperation in the EEC]. Europe. Econ. Community, Etudes. Ser. Agr. 21,233 p. 1967. 281.9 Eu7
- 63911 MARSHALL, R. L. Education in the co-operative movement. In Warley, T. K., ed. *Agricultural producers and their markets*, p.544-555. 1967. HD9000.6.A35
- 63912 MATHER, J. W. FSC [Farmer Cooperative Service] Division aim—better supply service. *News Farmer Coop.* 34(12):4-5,18. Mar.1968. 166.2 N47
- 63913 MICHEL, J. Cooperation and research. (Fr) *Rev. Etud. Coop.* 46(149):339-344. Third Q. 1967. 280.28 R323  
English summary, p.346.  
France.
- 63914 MORGAN, W. The financing of agricultural co-operatives. In Warley, T. K., ed. *Agricultural producers and their markets*, p.434-445. 1967. HD9000.6.A35
- 63915 MORLEY, J. A. E. A.C.C.A. [Agricultural Central Co-operative Association Ltd.] study of a central co-operative association. In Warley, T. K., ed. *Agricultural producers and their markets*, p.578-588. 1967. HD9000.6.A35
- 63916 NAGELSCHMITZ, H. Nasser: the future of Egypt must also be a cooperative one. (Ge) *Raiffeisen-Rundschau* 20(1):13-14. Jan.1968. 284.28 R132
- 63917 NATIONALE COOPERATIEVE RAAD. Jaarverslag [Annual report], 1966, No. 29. Den Haag, 1957. 115 p. 280.29 N216
- 63918 NOUY, M. J. A fine achievement: the store of the Saint-Yvi Agricultural Cooperative. (Fr) *Coop. Agr.* [Paris] 14(165):35-38. (Cont.) Oct. 1967. 280.28 C78972
- 63919 O'HANLON, S. R. Agricultural co-operation in Britain. Great Britain Min. Agr. Fish. Food. *Agr.* 74(12):567-569. Dec.1967. 10 G79J
- 63920 ROBERTS, G. H. Initiating co-operatives: the conduct of feasibility studies. In Warley, T. K., ed. *Agricultural producers and their markets*, p.406-411. 1967. HD9000.6.A35
- 63921 SASKATCHEWAN, DEPT. OF CO-OPERATION AND CO-OPERATIVE DEVELOPMENT. CO-OPERATIVE ASSOCIATION SERV. A supplement to the twenty-third annual report, 1966. Regina? 1967. 40 n man 280.29 C747C2
- 63922 SCHIFFGEN, W. Help for self-help for developing countries. (Ge) *Raiffeisen-Rundschau* 20(1):11-12. Jan.1968. 284.28 R132  
Cooperative policy.
- 63923 STANTON, B. More co-ops told how they did. *News Farmer Coop.* 34(12):6-7,16-18. Mar. 1968. 166.2 N47
- 63924 STANTON, B. Washington opens its October observance. *News Farmer Coop.* 34(9):4-5. Dec.1967. 166.2 N47  
Cooperative Month.
- 63925 STANTON, B. E. CMD—short for Co-op [Co-operative] Management Development. *News Farmer Coop.* 35(1):10,21-22. Apr.1968. 166.2 N47  
Highlights of 17th annual meeting of Institute of Modern Management.
- 63926 STEVENSON, E. V. Questions to answer before deciding to merge. *News Farmer Coop.* 35(1):11-12. Apr.1968. 166.2 N47
- 63927 SURRIDGE, B. J. The role of co-operative apex organizations overseas. In Warley, T. K., ed. *Agricultural producers and their markets*, p.589-594. 1967. HD9000.6.A35
- 63928 SURRIDGE, B. J. Status, achievements and problems of co-operatives in developing countries. In Warley, T. K., ed. *Agricultural producers and their markets*, p.322-327. 1967. HD9000.6.A35
- 63929 SWAILS, K. Farmland Industries, Inc. expansion efforts continue. *Grainmen's Mirror* 47(2):4-5. Feb.1968. 286.81 G76  
A crude oil cooperative.
- 63930 TALL, R. Council's [National Council of Farmer Cooperatives] clinic concerned with management cobwebs. *News Farmer Coop.* 34(9):6,18. Dec.1967. 166.2 N47
- 63931 TALL, R. D. National Council [of Farmer Cooperatives] called for all-round awareness. *News Farmer Coop.* 35(1):6-7,20-21. Apr.1968. 166.2 N47
- 63932 THOR, E., and REVZAN, M. Negotiating a co-op merger. *Grain Prod. News* 20(3):25-28. Jan./Feb.1968. 286.81 G764
- 63933 U. S. PRESIDENT (L. B. JOHNSON). President Johnson opens Co-Op Month 67. *News Farmer Coop.* 34(9):3-4. Dec.1967. 166.2 N47

## RURAL SOCIAL PSYCHOLOGY

- 63934 MARSH, C. P., DOLAN, R. J., and RIDDICK, W. Anomia and communication behavior: the relationship between anomia and utilization of three public bureaucracies. *Rural Sociol.* 32 (4):435-445. Ref. Dec.1967. 281.28 R88  
The Employment Security Commission, the Agricultural Extension Service, and area vocational schools of North Carolina.
- 63935 NASHOLD, R. D. Farmer acceptance of government agricultural programs. Diss. Abstr., Sect. B, 28(3):853A-854A. Sept.1967. Z5055.U49D53



- 63936 NELSON, J. B., and MILBRATH, W. City youth visit the farm for unique experience in human relations. *Ext. Serv. Rev.* 38(11):12-13. Nov. 1967. 1 Ex892Ex  
Extension program in Minnesota.
- 63937 OBIBUAKU, L. O. Socioeconomic problems in the adoption process: introduction of a hydraulic palm-oil press. *Rural Sociol.* 32(4):464-468. Ref. Dec. 1967. 281.28 R88
- 63938 REPPEN, J. Field articulation and socioeconomic and rural-urban variables. *Diss. Abstr.*, Sect. B, 28(3):1173B. Sept. 1967. Z5055.U49D53
- 63939 WILKENING, E. A., and VAN ES, J. C. Aspirations and attainments among German farm families. *Rural Sociol.* 32(4):446-455. Ref. Dec. 1967. 281.28 R88
- 63955 D'AMICO, S. Possible fiscal and financial commodity arrangements. *Food Agr. Organ. U. N. Mon. Bull. Agr. Econ. Statist.* 16(10):1-10. Oct. 1967. 251 F73Mb
- 63956 DAR, A. K. Domestic terms of trade and economic development of India. *Diss. Abstr.*, Sect. A, 28(6):1954A. Dec. 1967. Z5055.U49D5  
With special reference to grain.
- 63957 DICANDER, G. Sweden's imports increase slightly. *Tea Coffee Trade J.* 133(6):24-25. Dec. 1967. 68.8 T22  
Coffee.
- 63958 ELIAS, A. Changes in the trade situation of milk products. (Hu) *Magyar Mezogazdasag* 22(46):8-9. Nov. 15, 1967. 19 M27
- 63959 FINLAND, TILASTOLLINEN PAATOIMISTO. Ulkomaankauppa, vuosijulkaisu. Osa I. Foreign trade. Volume I, 1966. Helsinki, 1967. 603 p. (Finlands Officiella Statistik I A:86) 267.5 B47H

## TRADE, FOREIGN AND INTERNATIONAL

- 63940 ACLAND, H. J. D., and ORMOND, J. The drive for markets. 1-2. *New Zeal. J. Agr.* 115(2):56-57, 59, 61, 63, 35. Aug. 1967. 23 N48J  
1, Wool promotion in Asia, by H. J. D. Acland;  
2, Record meat exports to Asia expected this year, by J. Ormond.  
Lamb meat and mutton advertising.
- 63941 ARLITT, M. Imports of fresh vegetables and fruits into the German Federal Republic in the year 1967; preliminary results. (Ge) *Indus. Obst- Gemuseverwertung* 53(4):91-94. Feb. 15, 1968. 389.8 K832
- 63942 AYBAR, A. Future of trade in copra and coconut oil. (Sp) *Agricultura [Santo Domingo]* 442/443:14-15, 27. July/Aug. 1967. 8 R323  
Dominican Republic and other countries.
- 63943 BAKER, S. The cost of it all. *Agr. Merchant* 48(1):6-7. Jan. 1968. 10 Ag89  
A look at the business of increased production to save imports in the light of devaluation and the foot-and-mouth epidemic in Great Britain.
- 63944 BANTAY, L., and ELIAS, A. Foreign trade of our agricultural and food industrial products in 1967. (Hu) *Magyar Mezogazdasag* 23(12):5-6. Mar. 20, 1968. 19 M27
- 63945 BESSON, M. The Swiss agricultural market and the problem of European integration. (Fr) *Indus. Lait. Suisse* 49(1):2, 4. Jan. 5, 1968. 44.8 In24
- 63946 BIANCHINI, P. Italian-French agreement for milk imports. (It) *G. Agr.* 78(5):53. Feb. 4, 1968. 16 It1G
- 63947 BINDER, A. K. The International Grains Arrangement 1967, its content and significance. *World Agr.* 17(1):3-8. Jan. 1968. 6 W893
- 63948 BOULWARE, J. H. Further favorable weather moves India toward record grain harvest, but imports to continue. *Foreign Agr. Incl. Foreign Crops Markets* 5(52):8. Dec. 25, 1967. A281.9 F76Fo
- 63949 BOULWARE, J. H. Pickup in India's soft-fiber [kenaf], jute-products output. *Foreign Agr.* 6(17):4. Apr. 22, 1968. A281.9 F76Fo  
For export.
- 63950 CEMAL, T. Course of the Turkish export market. (Fr) *Tabak-J. Int.* 4:234. Aug. 20, 1967. 286.89 T552  
English summary.
- 63951 CONNER, M. C. Foreign agricultural trade and recent trade negotiations. *Va. Polytech. Inst. Ext. Va. Farm Econ.* 205:17-23. Sept./Dec. 1967. 275.29 V813
- 63952 CORLEY, J. R. Agricultural trade of Latin American countries. *Foreign Agr. Trade U. S.*, Apr. 1968:11-23. A286.9 Ag8
- 63953 CORLEY, J. R. U.S. agricultural exports to the European Economic Community, 1962-67. *Foreign Agr. Trade U. S.*, Apr. 1968:6-10. A286.9 Ag8
- 63954 COSTA RICA, DIRECCION GENERAL DE ESTADISTICA Y CENSOS. Comercio exterior de Costa Rica, 1966 [Foreign trade of Costa Rica, 1966]. San Jose, 1966. 420 p. 254 C82Ec
- 63960 FISCHER, O. New phase of integration. (Fr) *Schweiz. Milchzeitung* 94(5):32. Jan. 16, 1968. 44.8 Sch92  
Switzerland and the European Common Market.
- 63961 FORD, G. W. The Common Market, the main marketing scheme for horticultural produce. *Great Brit. Min. Agr. Fish. Food. Agr.* 74(10):478-484, map. Oct. 1967. 10 G79J  
Fruit and vegetables.
- 63962 FOX, H. Israel grabs United Kingdom grapefruit market. *Citrus Veg. Mag.* 31(6):24, 26. Feb. 1968. 80 C498
- 63963 FREEMAN, O. L. An analysis: Goals and results of Public Law 480. *Foreign Agr.* 6(16):2-4. Apr. 15, 1968. A281.9 F76Fo
- 63964 FREITHALER, W. O. Mexico's foreign trade and economic development. New York, 1968. 160 p. Ref., p. 157-160. (Praeger Special Studies in International Economics and Development) HC135.F7
- 63965 GOODMAN, R. J. East-West trade and U.S. trade policy. *U. S. Nat. Adv. Comm. Food Fiber. Tech. Papers* 6:53-66. Aug. 1967. HD1751.A3
- 63966 GOSS, R. O. Aspects of shipping economics of importance to primary product exporters. In: Warley, T. K., ed. *Agricultural producers and their markets*, p. 87-109. 1967. HD9000.6.A35
- 63967 GROSSERER-SOCIETETETS KOMITE. Verdensmarkedet og Danmark [The world market and Denmark], 1967. Kobenhavn, 1967. 86 p. 257.1 C792Ad
- 63968 HALLOWELL, E. W. Japan's imports of feed-grains mount but U.S. accounts for smaller share. *Foreign Agr.* 6(14):10. Apr. 1, 1968. A281.9 F76Fo
- 63969 HALOW, J. Yugoslavia's baking industry becomes an important cash buyer of U.S. wheat. *Foreign Agr.* 6(15):13. Apr. 8, 1968. A281.9 F76Fo
- 63970 HEDGES, I. R. Kennedy Round agricultural negotiations and the World Grains Agreement. *J. Farm Econ.* 49(5):1332-1334. Dec. 1967. 280.8 J822  
Includes discussion by M. Schwarzmann.
- 63971 HEDLUND, F. F. International group [Food and Agricultural Organization Banana Study Group] studies banana problems. *Agr. Marketing [Washington]* 13(4):16. Apr. 1968. A280.38 Ag8
- 63972 HEIBER, J. The hard road in the European Community. (Ge) *Molk.-Zeitung Welt Milch* 22(1):3-4. Jan. 5, 1968. 44.8 M735
- 63973 HILL, D. Great Britain's dairy industry is well equipped for entry into the E.E.C. (Ge) *Molk.-Kaserei-Zeitung* 19(2):33-34. Jan. 10, 1968. 44.8 M736
- 63974 HILLMAN, J. S. Section 22: description and present status. *U. S. Nat. Adv. Comm. Food Fiber. Tech. Papers* 6:69-79. Aug. 1967. HD1751.A3  
Trade and price supports.

- 63975 HOEPEN, L. VAN. England yes, England no in the E.E.C. (Du) Inzicht 22(1):6-8. Jan.1968. 44.8 In9
- 63976 HUTCHINSON, T. Q. Heavy grain exports in voyage-chartered ships: Rates and volume. U. S. D. A. Marketing Res. Rep. 812,34 p. Jan. 1968. 1 Ag84Mr
- 63977 HUTCHISON, J. E. Preview: Brazil's agricultural trade. Foreign Agr. 6(17):5-6. Apr.22, 1968. A281.9 F76Fo
- 63978 IOANES, R. A. The commodity trade outlook. Agr. Outlook Conf. [Proc.], 45th Annu. Conf., paper No. 8,10 p. 1967. 1.90 C2Ou8  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 63979 IOANES, R. A. Foreign development aids U.S. farm exports. Foreign Agr. 4(12):7. Mar.18, 1968. A281.9 F76Fo
- 63980 ISRAEL, CENTRAL BUR. OF STATISTICS. -- Israel's foreign trade, 1966. Part I-III. Jerusalem, 1967. 3 v. (Special Series No. 230-232). 269.8 Is71
- 63981 JACOBSON, D. H. U.S. agriculture's stake in East-West trade. Foreign Agr. 6(14):2-4. Apr.1,1968. A281.9 F76Fo
- 63982 JAPAN TARIFF ASSOCIATION. Jikko kanzeiritsu hyo. Customs tariff schedules of Japan, 1967. Tokyo, 1967. 656 p. HJ6336.A4N5
- 63983 JENSEN, F. Danish consumption rising steadily. Tea Coffee Trade J. 133(6):17,39-40. Dec. 1967. 68.8 T22  
Import statistics, coffee.
- 63984 JOHNSON, D. G. Agricultural trade and foreign economic policy. U. S. Nat. Agr. Comm. Food Fiber. Tech. Papers 6:3-34. Aug.1967. HD1751.A3
- 63985 JOHNSON, D. G. Sugar program: costs and benefits. U. S. Nat. Adv. Comm. Food Fiber. Tech. Papers 6:37-47. Aug.1967. HD1751.A3  
Import quotas and domestic marketing quotes and subsidies.
- 63986 KRISTJANSON, R. L. Problems and prospects of Canadian wheat sales to China and the USSR. J. Farm Econ. 49(5):1345-1354. Dec.1967. 280.8 J822  
Includes discussion by R. J. Goodman.
- 63987 LARSEN, A. Danish agriculture as a valuta earner. (Da) Danske Dyrslaegerfor. Medlemsbl. 51(4):119-123. Feb.15,1968. 41.9 D23
- 63988 LECERF, J. The results of the Common Market. (Fr) Agr. Prat. 131(9):8-10. Oct.1967. 14 J82
- 63989 LIBBIN, S., and GERSHBEN, S. Second United Nations Conference on Trade and Development. Int. Agr. Develop. 39:15-17. Jan.1968. aS544.A3I6
- 63990 LINTON, A., and others. The drive for markets; what are the producer boards doing? 3-6. New Zeal. J. Agr. 115(3):50-53,55,57,59,61,63, 65. Sept.1967. 23 N48J  
3, N.Z. dairy sales to Asia are soaring, by A. Linton; 4, N.Z. apples command growing share of markets in South-east Asia, by K. B. Longmore; 5, Natural and man-made factors limit output of N.Z. honey, by J. W. Fraser; 6, Opportunities in Asian markets are considerable, by P. S. Plummer, joint authors.
- 63991 LIPTAK, J. On the attainment of optimal proportions in the export and import of agricultural products. (Cz) Czech. Min. Zemedel. Les. Hospodar. Ustav Vedeckotech. Inform. Zemedel. Ekon. 40(8):521-530. Aug.1967. 281.9 C332
- 63992 LOCHER, B. Sharper processed fruit competition between Australia and South Africa. (Ge) Indus. Obst- Gemuseverwertung 53(3):69-70. Feb.1,1968. 389.8 K832
- 63993 LONG, M. E. New Zealand's agricultural export problems. Foreign Agr. 6(10):2-4. Mar.4, 1968. A281.9 F76Fo  
Includes effects on economic growth.
- 63994 MADAGASCAR. INSTITUT NATIONAL DE LA STATISTIQUE ET DE LA RECHERCHE ECONOMIQUE. Statistiques du commerce exterieur de Madagascar, exportations-importations, annee 1966 [Statistics of the foreign trade of Madagascar, exports-imports, year 1966]. n.p., 1967. 425 p. 270 M26St
- 63995 MANNI, G. The pig has returned to health. (It) Modena 73(10):53-59. Oct.1967. 280.9 M722  
Italian pork trade.
- 63996 MCCORMICK, F. B. Price and income trends. Ohio Rep. Res. Develop. Biol. Agr. Home Econ. 53(1):16. Jan./Feb.1968. 100 Oh3S  
Foreign trade.
- 63997 MCHANEY, J. G., and STELLY, R. Agricultural exports important to Texas. Tex. Agr. Progr. 14(1):23. Winter 1968. 100 T31Te
- 63998 MCVEY, D. H. Co-op beeline moves U.S. grain to Japan. News Farmer Coop. 35(1):5,23-24. Apr.1968. 166.2 N47
- 63999 MEARS, L. G. Selling in Japan—different but challenging. Foreign Agr. 6(13):6-7. Mar.25, 1968. A281.9 F76Fo  
Trade.
- 64000 MICHALOPOLOUS, G. J. The U.S.—Greece's traditional tobacco customer. Tobacco [New York] 166(4):25-26. Jan.26,1968. 286.89 T552
- 64001 MORIARTY, M. J. British entry to the EEC—the New Zealand position. New Zeal. Agr. Sci. 2(2):49-51. Sept.1967. S17.N4  
Influence on its trade.
- 64002 MEINL, J. Better coffee in greater quantity. Tea Coffee Trade J. 133(6):20,34-35. Dec.1967. 68.8 T22  
Chiefly trade statistics, Austria.
- 64003 NORWAY. STATISTISK SENTRALBYRA. Utenrikshandel, 1966. Hefte II. External trade, 1966. Volume 11. Oslo, 1967. 240 p. 257.2 St2T  
Table of contents also in English.
- 64004 OSTMOE, F. Norway reports a good year for coffee. Tea Coffee Trade J. 133(6):26-27. Dec. 1967. 68.8 T22  
Import of coffee.
- 64005 PANASUK, L. A contracting market threatens the future of wool. Foreign Agr. 6(13):2-5. Mar.25,1968. A281.9 F76Fo  
Trade.
- 64006 PARODI-LUDWIG, M. The Italian fruit and vegetable processing industry in difficulties through the devaluation of the English pound. (Ge) Indus. Obst- Gemuseverwertung 53(4):96-98. Feb.15,1968. 389.8 K832
- 64007 PHILLIPS, SIR L. The marketing of grain. In Warley, T. K., ed. Agricultural producers and their markets, p.268-272. 1967. HD9000.6.A35  
Trade.
- 64008 PORTUGAL. INSTITUTO NACIONAL DE ESTADISTICA. Comercio externo, continente e ilhas adjacentes. Volume I. Comercio por mercadorias, paises e territorios, 1966 [Foreign trade, continent and adjacent islands. Volume I. Trade by commodities, countries, and territories]. Lisboa, 1967. 667 p. 264 F492  
Introduction and table headings in French.
- 64009 ROHDE, G. E. Economic analysis of international trade policies and programs affecting the exports and imports of livestock, meat and animal by-products. Diss. Abstr., Sect. A, 28(3):855A-856A. Sept.1967. Z5055.U49D5
- 64010 SCHIEFERENZ, J. Denmark between the E.E.C. and England. (Ge) Molk.-Zeitung Welt Milch 21(51/52):1592. Dec.22,1967. 44.8 M735  
Dairy products trade.
- 64011 SCHUBKEGEL, M. G. Paraguay expands farm output, exports lag. Foreign Agr. 6(15):8. Apr.8,1968. A281.9 F76Fo
- 64012 SCHUURMAN, L. E. Netherlands imports continue to increase. Tea Coffee Trade J. 133(6):18,35-36. Dec.1967. 68.8 T22  
Coffee.
- 64013 SIEGEL, G. Swiss trade in beverages in 1966. (Ge) Schweiz. Z. Obst- Weinbau 103(25):728-732. Dec.9,1967. 80 Sch9  
Includes wine.



- 64014 STEPHENS, P. R. European Economic Community has real impact on world trade. New Zeal. J. Agr. 115(1):27-29, map. July 1967. 23 N48J
- 64015 STROBEL, D. R. World's dairy surplus is biggest in EEC [European Economic Community]. Foreign Agr. 6(10):4-5. Mar. 4, 1968. A281.9 F76Fo Trade.
- 64016 SUTCH, W. B. Implications for New Zealand of Britain joining EEC. New Zeal. Agr. Sci. 2(2):51-52. Sept. 1967. S17.N4
- 64017 TAYLOR, J. A. World situation and outlook for bananas. In Warley, T. K., ed. Agricultural producers and their markets, p.273-284. 1967. HD9000.6.A35 Chiefly trade.
- 64018 THASSITIS, B. Greek Burley looking for the markets now. Tobacco [New York] 166(4):27-28. Jan. 26, 1968. 286.89 T552 Foreign markets.
- 64019 THOE SCHWARTZENBERG, W. O. C. Devaluation and agriculture; what does devaluation of the English pound hold for Netherlands trade in agricultural products? (Du) Econ.-Statist. Ber. 53(2626):28-31. Jan. 10, 1968. 280.8 Ec722
- 64020 TRINIDAD AND TOBAGO. CENTRAL STATISTICAL OFF. Overseas trade 1965. Part B: Summary tables 1-24. Port of Spain, 1967. 205 p. 254.8 T735T
- 64021 TURKEY. DEVLET ISTATISTIK ENSTITUSU. Dis ticaret yillik istatistik. Annual foreign trade statistics, 1966. Turkey. Devlet Istatistik Enstitusu. Yayin 520, 63 p. 1966. 269.9 St2
- 64023 U. S. BUR. OF THE CENSUS. U.S. foreign trade statistics; classifications and cross-classifications, 1967. Washington, 1967. loose leaf HF105.A323
- 64023 U. S. DEPT. OF AGRICULTURE. ECONOMIC RESEARCH SERV. U.S. foreign agricultural trade by commodities, fiscal year 1966/67. Foreign Agr. Trade U. S. Suppl., Jan. 1968, 38 p. A286.9 Ag9Fc
- 64024 U. S. FOREIGN AGRICULTURAL SERV. International Grains Arrangement, 1967. U. S. Foreign Agr. Serv. FAS-M-195, 46 p. Nov. 1967. A281.9 F76Fm
- 64025 U. S. NATIONAL ADVISORY COMMISSION ON FOOD AND FIBER. Foreign trade and agricultural policy. U. S. Nat. Adv. Comm. Food Fiber. Tech. Papers 6, 269 p. Aug. 1967. HD1751.A3
- 64026 VARNEY, H. R. Swaziland's agriculture export income. Foreign Agr. 6(15):9-10. Apr. 8, 1968. A281.9 F76Fo
- 64027 VEZJAK, D. The economic effect of foreign trade and its multiplicability. (Sl) Nase Gospod. 13(1/2):85-96. Ref. Feb. 1967. 280.8 N17 English summary. Includes national income multiplier.
- 64028 VON TROTHA, W. The European Common Market. (Ge) DLZ-Landtech. Z. 19(2):62-70, 72, 74, 76, 80-81. Feb. 1968. 58.8 T677 History and organization.
- 64029 WARLEY, T. K., ed. Agricultural producers and their markets. Oxford, Basil Blackwell, 1967. 596 p. Ref. HD9000.6.A35 Papers of an international seminar sponsored by the Ministry of Overseas Development of Great Britain.
- 64030 WARLEY, T. K. Problems of world trade in agricultural products. In Warley, T. K., ed. Agricultural producers and their markets, p.50-74. Ref. 1967. HD9000.6.A35
- 64031 WORTHINGTON, H. L. A look ahead at agricultural trade policy. Agr. Outlook Conf. [Proc], 45th Annu. Conf., 7, 9 p. 1967. 1.90 C2Ou8 Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 64032 ZAGLITZ, O. Agricultural trade and trade policy. U. S. Nat. Adv. Comm. Food Fiber. Tech. Papers 6:125-269. Aug. 1967. HD1751.A3





**AGRICULTURAL PRODUCTS: PROCESSING,  
DISTRIBUTION, AND STATISTICS**

**GENERAL**

- 64033 ABEL, M. E. A new look at the world food situation. Agr. Outlook Conf. [Proc.], 45th Annu. Conf., paper No. 6, 7 p. 1967. 1.90 C2Ou8  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 64034 ÁRPÁTI, GY. About activities and tasks of the Hungarian Scientific Association for Food Industries [Magyar Elelmezesipari Tudományos Egyesület]. (Hu) Elelmezesi Ipar 22(1):6-10. Jan.1968. 290.9 M57  
English summary.
- 64035 ÁRTHUR, H. B., GOLDBERG, R. A., and BIRD, K. M. The United States food and fiber system in a changing world environment. U. S. Nat. Adv. Comm. Food Fiber. Tech. Papers 4, 82 p. Aug.1967. HD1751.A3
- 64036 BROWN, L. R. New directions seen for world agriculture. Foreign Agr. 6(13):8-10. Mar.25, 1968. A281.9 F76Fo  
Population and food supply in developing areas.
- 64037 BROWN, L. R. The world food/population problem: an overview. In Alternatives for balancing world food production and needs, p.3-18. 1967. HD9000.5.A4
- 64038 BUNTING, A. H. Food science and technology in the University of Reading. Food Trade Rev. 38(2):52-54. Feb.1968. 389.8 F7334
- 64039 CLIFTON, R. E. A reappraisal of the world food problem. Kans. Stockman 53(4):56-58, 60. Feb.1968. 49 K134
- 64040 DAVAN, C. F. The international food situation: the availability of cropland to meet world food needs. U. S. Nat. Adv. Comm. Food Fiber. Tech. Papers 8:39-55. Aug.1967. HD1751.A3
- 64041 DIMENY, I. Role of technical sciences and economical politics in the development of the food industries. (Hu) Elelmezesi Ipar 22(1):1-6. Jan.1968. 290.9 M57  
English summary.  
Vertical integration.
- 64042 ENGEL, R. W. The role of agriculture in the war on hunger. Va. J. Sci. (n.s.)18(3):114-116. Ref. July 1967. 470 V81  
Food for peace.
- 64043 FORE, H. Response of the food industry to minority demands. Nutr. Soc. Proc. 26(2):222-229. 1967. 389.9 N953  
Chiefly on dietetic foods in Great Britain.
- 64044 GREAT BRITAIN. TROPICAL PRODUCTS INSTITUTE (LONDON). Report 1966. London, 1967. 43 p. 280.9 G795
- 64045 GREENE, J. J. Canadian food aid under the World Food Program. Can. Dep. Agr. Agr. Abroad 23(1):22-24. Feb.1968. 281.9 C1642A
- 64046 HASELDEN, K. The social and ethical setting of the world food situation. In Alternatives for balancing world food production and needs, p.19-34. 1967. HD9000.5.A4
- 64047 HEADY, E. O., and TIMMONS, J. F. Objectives, achievements, and hazards of the U.S. food aid and agricultural development programs in relation to domestic policy. In Alternatives for balancing world food production and needs, p.186-214. 1967. HD9000.5.A4  
Includes program of the U. S. Agency for International Development and the problem of population and food supply.
- 64048 HILGELAND, P. H. Progress and technique in the food industry. 1. The past and the future. Food Trade Rev. 38(1):30-33. Jan.1968. 389.8 F7334
- 64049 HILLMAN, J. S. Food and fiber policy for a changing agriculture. J. Farm Econ. 49(5):1057-1070. Dec.1967. 280.8 J822
- 64050 IOWA. STATE UNIVERSITY OF SCIENCE AND TECHNOLOGY, AMES. Alternatives for balancing world food production and needs. Ames, Iowa State University Press, 1967. 273 p. Ref. HD9000.5.A4  
Conference papers.
- 64051 JAGTIANI, J. K. India challenges. Food Eng. 39(12):47-48, 50. Ref. Dec.1967. 389.8 F737  
Food industry.
- 64052 KIRK, D., and JONES, G. World population: causes and consequences of growth differentials. In Alternatives for balancing world food production and needs, p.51-71. 1967. HD9000.5.A4
- 64053 KOSIKOWSKI, F. V. College course in international food development. J. Dairy Sci. 51(2):242-245. Feb.1968. 44.8 J822  
Course at Cornell University including food sources and processing.
- 64054 KRIESBERG, M. Food for Freedom with some implications. J. Dairy Sci. 51(2):245-250. Feb.1968. 44.8 J822
- 64055 LONG, E. J. Altering the variables of the food supply-demand situation. In Alternatives for balancing world food production and needs, p.159-171. 1967. HD9000.5.A4
- 64056 MOSEMAN, A. H. World food prospects and potentials: a short-run look. In Alternatives for balancing world food production and needs, p.86-97. 1967. HD9000.5.A4
- 64057 OGREN, K. E. OECD [Organisation for Economic Co-operation and Development] report on the food problem of developing countries. Foreign Agr. 4(12):6. Mar.18, 1968. A281.9 F76Fo
- 64058 PANEL discussion: optimal strategies for balancing future world food production and needs. In Alternatives for balancing world food production and needs, p.243-266. 1967. HD9000.5.A4  
Moderator: D. R. Kaldor; panel members: D. Paarlberg, L. M. Thompson, W. E. Ogg, and G. S. Maryanov.  
Includes U. S. food assistance and foreign aid and development.
- 64059 PHILLIPS, S. W. World Food Program combines food with development. Int. Agr. Develop. 39:21-23. Jan.1968. aS544.A316
- 64060 RAND, A. G. Fighting starvation with education: URI [University of Rhode Island] starts a program to meet the demand for food scientists. R. I. Agr. 14(1):4-5. Feb.1968. 100 R342  
College of Agriculture.
- 64061 SCHULTZ, T. W. U.S. malinvestments in food for the world. In Alternatives for balancing world food production and needs, p.224-242. 1967. HD9000.5.A4  
Economic policies for developing areas.
- 64062 SMITH, D. B., and WALTERS, A. H. Introductory food science. London, Classic Publications, 1967. 164 p. TX354.S6  
Contains chapters on chemistry, nutrition, chemical and biological aspects of food raw materials, food processing and preservation, and higher education.
- 64063 STROHM, J., and GANSCHOW, C. World hunger what it means to big farmers. Big Farmer 39(5):36-38. Fall 1967. 58.8 B46  
The problem of population and food supply.
- 64064 SZECHENYI, MRS. L., and NONN, MRS. F. Study on the application of the network programming method in the food industrial research activity. (Hu) Elelmezesi Ipar 22(1):20-25. Ref. Jan.1968. 290.9 M57  
English summary.

- 64065 SZILAGYI, J., and SZABADKAI, GY. System of contracts for research and development in the food industries. (Hu) *Elmezési Ipar* 22 (1):16-19. Jan.1968. 290.9 M57 English summary.
- 64066 THOMPSON, K. W. The national interest and responsibility of the United States in relation to world food needs. In *Alternatives for balancing world food production and needs*, p.172-185. 1967. HD9000.5.A4
- 64067 THOMPSON, R. G., and PURVES, C. M. World food and population: past present, and future. II. U. S. Nat. Adv. Comm. Food Fiber. Tech. Papers 7,63 p. Aug.1967. HD1751.A3
- 64068 ULBRICHT, G. Methods for the estimation of agricultural food requirements. (Ge) *Nahrung* 12(1):69-74. 1968. 389.8 N142 English summary.
- 64069 UNDERWOOD, E. J. Man, land and food; the 1967 Farrer Memorial Oration. *Agr. Gaz. New S. Wales* 78(5):258-269. May 1967. 23 N472 Developing areas.
- 64070 UPCHURCH, M. L. The capacity of the United States to supply food for developing countries. In *Alternatives for balancing world food production and needs*, p.215-223. 1967. HD9000.5.A4
- 64071 VICKERY, J. R. The scope and status of food science. *Food Preserv. Quart.* 27(3):59-66. Ref. Sept.1967. 389.9 Au7F
- 64072 WERDER, K. F. VON. The youth of the world in the fight against hunger. (Ge) *Ubersicht* 19(2): 110-113. Feb.10,1968. 18 Ub3
- ANALYSIS AND COMPOSITION**
- 64073 BERGDOLL, M. S. The staphylococcal enterotoxins. *Symp. Microbial Toxins. Papers* 1966: 1-25. Ref. 1967. QR115.S9 1966
- 64074 BOROFF, D. A., GUPTA, B. R. DAS, and FLECK, U. Chemistry and biological activity of the toxin of *Clostridium botulinum*. *Symp. Microbial Toxins. Papers* 1966:27-42. Ref. 1967. QR115.S9 1966
- 64075 CAVINS, J. F., and FRIEDMAN, M. Automatic integration and computation of amino acid analyses. *Cereal Chem.* 45(2):172-176. Mar. 1968. 59.8 C33
- 64076 DALTON, N. F. The effect of selected microorganisms on flavor. *Diss. Abstr., Sect. B*, 28(3):778B-779B. Sept.1967. Z5055.U49D53 Precooked frozen foods.
- 64077 DRUX, A. On the calcium contents of school lunches. (Ge) *Nahrung* 12(1):103-108. Ref. 1968. 389.8 N142 English summary.
- 64078 DUGGAN, R. E. FDA-Georgetown advanced course on analytical chemistry. *FDA [Food Drug Admin.] Papers* 2(1):23-25. Feb.1968. HD9000.9 U5A1
- 64079 EISNER, M. On the bases and technique of measuring inside temperature of processed foods. (Ge) *Indus. Obst.-Gemuseverwertung* 52(24):789-793. Dec.21,1967. 389.8 K832
- 64080 FRIEDMAN, M., and ROMERSBERGER, J. A. Relative influences of electron-withdrawing functional groups on basicities of amino acid derivatives. *J. Org. Chem.* 33(1):154-157. Jan.1968. 381 J827
- 64081 GUILBOT, A. Enzyme activities in less hydrated media. (Fr) *Ann. Nutr. Aliment.* 21(4): B87-B112. 1967. 389.8 An73 Review of the literature. Food products. Includes discussion.
- 64082 HARVEY, R. W. S., and PRICE, T. H. The examination of samples infected with multiple *Salmonella* serotypes. *J. Hyg.* 65(3):423-434. Ref. Sept.1967. 449.8 J82
- 64083 HEIMANN, W., and DRAWERT, F. Formation of plant aromatic substances. (Ge) *Arb. Getreideforsch. Ber. Getreidechem.-Tag.* 1967: 198-205. Ref. 389.9 Ar1 Food chemistry.
- 64084 HEIMANN, W., and WISSER, K. On the kinetics of the peroxidase reaction. (Ge) *Nahrung* 12 (1):45-52. Ref. 1968. 389.8 N142 English summary. In plant foods.
- 64085 JOHNSON, H. M., and others. Serological specificity of types A and B botulin toxins and antitoxins. *Soc. Exp. Biol. Med. Proc.* 126(3):856-861. Ref. Dec.1967. 442.9 S01 B. Smith, H. E. Hall, and K. H. Lewis, joint authors. Food research; various strains of *Clostridium botulinum*.
- 64086 KAWADA, Y., and HAYASHIYA, K. The application of polarographic method for the quantitative micro-determination of proteins. (Ja) *Agr. Chem. Soc. Jap. J.* 41(3):79-83. 1967. 385 Ag8 English summary.
- 64087 KROLLE, E. Investigations on determination of hydrogen phosphide in foods. (Ge) *Deut. Lebensm.-Rundsch.* 64(1):6-9. Ref. Jan.1968. 389.8 D482
- 64088 LUNDGREN, L. Effect of variation of sporulation time and temperature on thermostability of *Bacillus cereus* spores. *Physiol. Plant.* 20(2): 392-399. Ref. 1967. 450 P564 Food bacterium.
- 64089 MARAIS, P. G., and others. Radiometric assay of short-lived isotopes. *S. Afr. J. Agr. Sci.* 10(1):135-141. Ref. Mar.1967. 24 Su3 F. J. Haasbroek, J. H. M. Karsten, and J. van R. Smit, joint authors. In food research.
- 64090 MOELLERING, H., and BERGMAYER, H. U. Enzymatic determination of D-gluconic acid in foods. (Ge) *Z. Lebensmittel-Untersuchung - Forsch.* 135(4):198-204. Ref. 1967. 384 Z39
- 64091 SUGIYAMA, H., and others. Immunological reactivity of trypsinized *Clostridium botulinum* type E toxin. *Soc. Exp. Biol. Med. Proc.* 126(3):690-694. Ref. Dec.1967. 442.9 S01 B. von Mayerauser, G. Gogat, and R. C. Heimsch, joint authors. Food research.
- 64092 SYMPOSIUM ON MICROBIAL TOXINS, NEW YORK, 1966. Biochemistry of some foodborne microbial toxins; papers presented at the meeting of the American Chemical Society, edited by R. I. Mateles and G. N. Wogan. Cambridge, Massachusetts, M.I.T. Press, 1967. Ref. 171 p. QR115.S9 1966
- 64093 TAYLOR, A. The chemistry and biochemistry of sporidesmins and other 2,5-epidithia-3,6-dioxopiperazines. *Symp. Microbial Toxins. Papers* 1966:69-107. Ref. 1967. QR115.S9 1966
- 64094 WANDEL, M., TENGLER, H., and OSTROMOW, H. Die Analyse von Weichmachern [The analysis of plasticizers]. Berlin, Springer, 1967. 190 p. Ref. p.172-174. (Chemie, Physik und Technologie der Kunststoffe in Einzeldarstellungen, 11) TP247.7.W3 Contains a chapter on the determination of monomeric ester plasticizers in foods.
- 64095 WHITE, R. K., and MOHSENIN, N. N. Apparatus for determination of bulk modulus and compressibility of materials. *Amer. Soc. Agr. Eng. Trans. ASAE* 10(5):670-671. 1967. 290.9 Am32T Food and agricultural products.
- 64096 ZWEIG, G., and WHITAKER, J. R. Paper chromatography and electrophoresis. Volume I. Electrophoresis in stabilizing media, by J. R. Whitaker. New York, Academic Press, 1967. 420 p. QD271.Z8 1967 Includes proteins and carbohydrates.



## CONSUMPTION AND UTILIZATION

## DISTRIBUTION, MARKETING, AND TRANSPORTATION

- 64097 ANDERSEN, P., and TWEETEN, L. The world food problem—a look ahead. Okla. Curr. Farm Econ. 41(1):3-11. Mar.1968. 100 Ok4  
Consumption and sources.
- 64098 ANDERSON, R. J. Protecting consumers through research. Agr. Outlook Conf. [Proc.], 45th Annu. Conf., paper No. 28,6 p. 1967. 1,90 C2Ou8  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 64099 BIVENS, G. E. Household use of convenience foods. Agr. Outlook Conf. [Proc.], 45th Annu. Conf., paper No. 17,11 p. 1967. 1,90 C2Ou8  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 64100 BYLUND, H. B., and SANDERS, D. L. Early triers of new food products; powerful consumers. Utah Sci. 28(4):114-115. Dec.1967. 100 UtlF
- 64101 DREWS, B. On the development of research and investigation institutes in the field of industrial utilization of agricultural products in Berlin. (Ge) Arb. Getreideforsch. Ber. Getreidechem.-Tag. 1967:1-8. 389,9 Ar1
- 64102 HIEMSTRA, S. J. Consumption, prices and expenditures for food. Agr. Outlook Conf. [Proc.], 45th Annu. Conf., paper No. 14,11 p. 1967. 1,90 C2Ou8  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 64103 HSAIO, C. Y. A comprehensive study of food production in Mainland China. II. Issues Stud. 4(5):30-36. Feb.1968. 280.8 Is74  
Chiefly consumption.
- 64104 JAGGI, E. Changes in consumption and marketing of agricultural products and their influence on future production. (Ge) Schweiz. Landwirt. Monatsh. 46(1):1-14. Jan.1968. 17 Sch93
- 64105 KEPNER, K. W., LOGAN, G. L., and ANDERSON, A. R. The validity of experimental methods for analyzing consumer behavior. J. Farm Econ. 49(5):1406-1409. Dec.1967. 280.8 J822
- 64106 LE BOVIT, C. Expenditures for food away from home. Agr. Outlook Conf. [Proc.], 45th Annu. Conf., paper No. 15,10 p. 1967. 1,90 C2Ou8  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 64107 MALONE, J. W., and HUGHES, W. C. Some socio-economic factors affecting household expenditures for meat, poultry, and fish at the retail level. Nev. Agr. Exp. Sta. B 19,35 p. Jan. 1968. 100 N41B
- 64108 PRIOR, F. Limbs and how to go out on them. Agr. Outlook Conf. [Proc.], 45th Annu. Conf., paper No. 27,8 p. 1967. 1,90 C2Ou8  
Consumer education.  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 64109 PURCELL, J. C., and RAUNIKAR, R. Quantity-income elasticities for foods by level of income. J. Farm Econ. 49(5):1410-1414. Dec. 1967. 280.8 J822
- 64110 RODRIGUEZ DE ZAPATA, L. Food purchasing patterns of Puerto Rican families. (Sp) P. R. (Rio Piedras) Agr. Exp. Sta. E. & S. R. 73,93 p. Feb.1968. 100 P83Es  
English summary.
- 64111 SMITH, R. M. Consumer plans for and content of consumption as evidenced by family food provisioning. Diss. Abstr., Sect. B, 28(3): 979B. Sept.1967. Z5055.U49D53
- 64112 WHORTON, W. J. Extension consumer programs help families achieve goals. Agr. Marketing [Washington] 13(3):18-19. Mar.1968. A280.38 Ag8
- 64113 CALL, D. L. Evaluation of the Food Commission's [National Commission on Food Marketing] findings on farmer bargaining power. Nat. Bargaining Conf. Proc., 11th Conf.:23-30. 1967. A280.39 C76
- 64114 CARPENTER, G. A. Using marketing agreements and orders to improve the effectiveness of bargaining associations. Nat. Bargaining Conf. Proc., 11th Conf.:72-80. 1967. A280.39 C76  
Includes cooperatives.
- 64115 CHAIN STORE AGE. 1968 directory of supermarket and grocery chain stores. New York, Business Guides Incorporated, 1968. 807 p. 225 C34
- 64116 CHAIN STORE GUIDE. 1968 directory of voluntary and co-operative chains. New York, 1968. 329 p.,map. 225 C342  
Groceries.
- 64117 CLARK, J. E. Modern data-processing systems used by West Cumberland Farmers' Trading Society Limited. In Warley, T. K., ed. Agricultural producers and their markets, p.473-479. 1967. HD9000.6.A35  
Cooperative marketing society.
- 64118 DEZELAK, B. Market fluctuations require an organized marketing research and coordination with other functions of the enterprise. (Sl) Nase Gospod. 13(1/2):23-31. Feb.1967. 280.8 N17  
English summary.
- 64119 DODDS, P. R. The group marketing movement in the United Kingdom. In Warley, T. K., ed. Agricultural producers and their markets, p.352-366. 1967. HD9000.6.A35
- 64120 DOROFEEVA, N. A. Applying linear programming methods by compiling a plan for transportation on the farm. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 128:215-220. 1967. 20 M857
- 64121 ERNST, C. M. Navajos develop delivery system for USDA foods. Agr. Marketing [Washington] 13(4):10. Apr.1968. A280.38 Ag8
- 64122 EWBank, K. B., and others. Marketing: Backing the salesman. Agr. Merchant 48(1):42-43, 46-47,49,51. Jan.1968. 10 Ag89  
E. W. Maslen-Jones, D. R. Mumford, and J. F. Thom, joint authors.  
Great Britain.
- 64123 FINNER, W. F. Changing marketing activities and organizations. Agr. Outlook Conf. [Proc.], 45th Annu. Conf., paper No. 10,10 p. 1967. 1,90 C2Ou8
- 64124 GORMAN, W. P. Analyzing consumer markets through diffusion research. Rural Sociol. 32 (4):456-463. Ref. Dec.1967. 281.28 R88
- 64125 GRANGE, G. R. Market news—a big job. Agr. Marketing [Washington] 13(3):6-7. Mar.1968. A280.38 Ag8
- 64126 GRIFFIN, N. Financial structure of bargaining cooperatives. Nat. Bargaining Conf. Proc., 11th Conf.:7-22. 1967. A280.39 C76
- 64127 GRUBER, J. The Tinbergen-Theil-van de Panne method as aid in agricultural market research and agricultural policy. (Ge) Germany. Bundesmin. Ernahr. Landwirt. Forsten, Ber. Landwirt. (n.s.)45(4):658-672. Ref. 1967. 18 G31
- 64128 GUITON, N. F. LE H. Contracts in agricultural marketing. In Warley, T. K., ed. Agricultural producers and their markets, p.505-513. 1967. HD9000.6.A35  
Great Britain.
- 64129 HAMPTON, R. N. The "climate of opportunity" for bargaining in today's markets. Nat. Bargaining Conf. Proc., 11th Conf.:66-71. 1967. A280.39 C76  
Cooperatives; study and recommendations of the National Commission on Food Marketing.

- 64130 HARRISON, K. M. Agricultural market coordination in the economic development of Puerto Rico. Diss. Abstr., Sect. A, 28(3):850A-851A. Sept.1967. Z5055.U49D5
- 64131 HISCOCKS, E. S. The market research and development work of the Tropical Products Institute. In Warley, T. K., ed. Agricultural producers and their markets, p.519-533. 1967. HD9000.6.A35
- 64132 HUNT, K. E. The requirements, sources and use of market intelligence. In Warley, T. K., ed. Agricultural producers and their markets, p.534-543. 1967. HD9000.6.A35
- 64133 KEAST, J. D. Farmers may need new law to bargain. Doane's Agr. Rep. 31(8):46-47. Mar.8,1968. 281.8 D652 Cooperatives.
- 64134 KOTELYANETS', V. I. Transportation and its role in development of agriculture. (Uk) Visn. Sil's'kohospod. Nauk. 1:3-9. Jan.1968. 20 V82 Russian summary.
- 64135 LAUTH, J. The changing transportation scene. Agr. Marketing [Washington] 13(3):4-5. Mar. 1968. A280.38 Ag8 Containerization.
- 64136 LEONARD, R. E. Toward better incomes for American farmers. Agr. Marketing [Washington] 13(4):3. Apr.1968. A280.38 Ag8 Purchase programs under Public Law 320, the Agricultural Act of 1935.
- 64137 MARKS, H. F. Market intelligence in Western Germany. Great Brit. Min. Agr. Fish. Food Agr. 74(12):588-591. Dec.1967. 10 G79J Zentrale Markt- und Preisberichtsstelle der Deutschen Landwirtschaft.
- 64138 MORLEY, J. A. E. Marketing boards. In Warley, T. K., ed. Agricultural producers and their markets, p.341-351. 1967. HD9000.6.A35
- 64139 PICKARD, D. Advertising and marketing research in agriculture. In Warley, T. K., ed. Agricultural producers and their markets, p.514-518. 1967. HD9000.6.A35
- 64140 PITCHER, S. Sao Paulo's CEASE [Centro Estadual de Abastecimento S. A.] brings increased market efficiency to Brazil. Foreign Agr. 6 (14):8-10. Apr.1,1968. A281.9 F67Fo
- 64141 POWELL, L. A. Is supply-demand dead? Nat. Bargaining Conf. Proc., 11th Conf.:54-60. 1967. A280.39 C76
- 64142 PUPIUS, J. A. Marketing. Kenya Farmer 133: 3-5. Aug.1967. 24 R812 Text also in Swahili.
- 64143 ROY, E. P. Potentials of cooperative bargaining. Nat. Bargaining Conf. Proc., 11th Conf.: 1-6. 1967. A280.39 C76
- 64144 SAMSONOVA, T. M. Economic principles of selling surplus products on farms. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 129:145-150. 1967. 20 M857
- 64145 SAMUELS, K. Modern marketing. Int. Agr. Develop. 40:8-11. Feb.1968. aS544.A3I6
- 64146 STRAIN, J. R. Farmers and bargaining power. Nat. Bargaining Conf. Proc., 11th Conf.:31-38. 1967. A280.39 C76 Cooperatives.
- 64147 SURRIDGE, B. J. The special role of farmers' marketing organizations in economic development. In Warley, T. K., ed. Agricultural producers and their markets, p.82-86. 1967. HD9000.6.A35 With special reference to cooperatives.
- 64148 VINCENT, C. D. Marketing and economic development. In Warley, T. K., ed. Agricultural producers and their markets, p.75-81. 1967. HD9000.6.A35
- 64149 WARLEY, T. K. A synoptic view of agricultural marketing organizations in the United Kingdom. In Warley, T. K., ed. Agricultural producers and their markets, p.328-340. 1967. HD9000.6.A35
- 64150 WILSON, H. H. Serving the nation. Grain Age 9(3):18,23,26. Mar.1968. 281.8 G76 Chicago Board of Trade and agriculture.

- 64151 WOLTEMADE, U. J. T. The emergence of a market economy and socio-economic change in rural India. Diss. Abstr., Sect. A, 28(6): 1952A. Dec.1967. Z5055.U49D5
- 64152 WOOD, A. W. The marketing board approach to collective bargaining. J. Farm Econ. 49(5): 1367-1375. Ref. Dec.1967. 280.8 J822
- 64153 YUCEL, N. C. The transportation requirements of the Columbia Basin Project area. Diss. Abstr., Sect. A, 28(6):1952A-1953A. Dec.1967. Z5055.U49D5

#### GRADING, INSPECTION, STANDARDIZATION, AND QUALITY

- 64154 BARNARD, A. The need for formal GMP [Good Manufacturing Practice] guidelines in the food industry. Food Drug Cosmet. Law J. 23(1):4-7. Jan.1968. 389.58 F732
- 64155 BURTT, H. S. Quality and reliability. Scot. Agr. 46(2):53. Spring 1967. 10 Sco82So Regulated agricultural standard in Great Britain.
- 64156 CHAPMAN, D. G. A neighbor comments upon some national and international aspects of food and drug legislation. Food Drug Cosmet. Law J. 23(1):36-41. Jan.1968. 389.78 F732
- 64157 DELMORE, F. J. Voluntary compliance. FDA [Food Drug Admin.] Papers 2(1):12-15. Feb. 1968. HD9000.9 U5A1
- 64158 DEUTSCHE VETERINARMEDIZINISCHE GESELLSCHAFT. 11th working session of the working field of food sanitation. (Ge) Fleischwirtschaft 48(1):77. (Cont.) Jan.1968. 280.38 F62 Abstracts of papers, by H. J. Schriener and P. Loh.
- 64159 DUGGAN, R. E., and WEATHERWAX, J. R. Dietary intake of pesticide chemicals. Science 157(3792):1006-1010. Ref. Sept.1,1967. 470 Sci2
- 64160 EHLE, D. Confiscation of and compensation for foods attacked by salmonellae or suspected of being so attacked. (Ge) Fleischwirtschaft 48(1):68-70,72-74,77. Jan.1968. 280.38 F62 English summary.
- 64161 FERREIRA, N. P. Recent advances in research on ochratoxin. 2. Microbiological aspects. Symp. Microbial Toxins. Papers 1966:157-168. 1967. QR115.S9 1966 Test with Aspergillus ochraceus.
- 64162 FREHSE, H. Analysis of plant pesticide residues; residue problems in grain storage protection. (Ge) Arb. Getreideforsch. Ber. Getreidechem.-Tag. 1967:63-76. Ref. p.73-76. 389.9 Ar1 Food plants.
- 64163 GLATZEL, H. Physiological importance of spices. (Ge) Deut. Lebensm.-Rundsch. 64(1):1-5. Ref. Jan.1968. 389.8 D482
- 64164 GOODRICH, W. W. Status of major proposals and regulations. Food Drug Cosmet. Law J. 22(12):642-646. Dec.1967. 389.58 F732 Food and drug regulation.
- 64165 HALLER, H. L. Codex alimentarius; setting the standards for international food trade. Agr. Chem. 22(9):58,61-62. Sept.1967. 381 Ag8
- 64166 JONES, R. W. Purity standards for food additives. BSI (Brit. Stand. Inst.) News, Jan.1968: 11-12. 309.8 B772 In Great Britain.
- 64167 KAISER, W. Plant protection measures and residue problems. (Ge) Chem. Tech. Landwirt. 19(2):58-60. Feb.1968. 384 C4292 Tolerances for food.
- 64168 KEGAN, E. O. Federal pre-emption in consumer laws. Food Drug Cosmet. Law J. 23(2):79-88. Feb.1968. 389.58 F732 Includes food.
- 64169 KLIMMER, O. Residues of pesticides in foods from the point of view of toxicology. (Ge) Arb. Getreideforsch. Ber. Getreidechem.-Tag. 1967: 55-62. Ref. 389.9 Ar1



- 64170 KRUSEN, F. Codex Alimentarius. (Ge) Deut. Lebensm.-Rundsch. 64(2):31-33. (Cont.) Feb. 1968. 389.8 D482
- 64171 LENNINGTON, K. R. Status and review of the Salmonella program. FDA [Food Drug Admin.] Papers 2(1):9-11. Feb.1968. HD9000.9 U5A1
- 64172 LEWIS, K. H., and others. Food protection research in the Public Health Service. J. Milk Food Technol. 31(3):78-83. Ref. Mar.1968. 44.8 J824  
J. E. Campbell, H. E. Hall, and R. B. Read, joint authors.
- 64173 MCFARLAND, F. J., and SPIHER, A. T. A decade of regulating food additives. FDA [Food Drug Admin.] Papers 2(1):16-18. Feb.1968. HD9000.9 U5A1
- 64174 PURCHASE, I. F. H., and NEL, W. Recent advances in research on ochratoxin. 1. Toxicological aspects. Symp. Microbial Toxins. Papers 1966:153-156. 1967. QR115.S9 1966
- 64175 SCHEEL, L. D. The furocoumarins—a family of phototoxic compounds. Symp. Microbial Toxins. Papers 1966:109-118. 1967. QR115.S9 1966  
Review of the literature.
- 64176 SKOPINSKII, V. F. Activities of the border inspection station. (Rus) Zashch. Rast. 8:52-53. 1967. 421 Z1  
Inspection of imported agricultural products.
- 64177 SMITH, A. M. Do stream pollution and food toxicity come from high fertilizer nitrogen applications? Com. Fert. Plant Food Indus. 116(3):28-30. Mar.1968. 57.8 C73
- 64178 STAHL, K. Continuing consumer protection at FDA [Food and Drug Administration]. Agr. Outlook Conf. [Proc.], 45th Annu. Conf., paper No. 26,7 p. 1967. 1.90 C2Ou8  
Labeling and legislation.  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 64179 WILDBRETT, G. Organoleptic tests — indispensable means of the food technologist. (Ge) Milchwissenschaft 22(11):673-681. Ref. Nov. 1967. 44.8 M5933  
English summary.

## PACKING AND PACKAGING

- 64180 BECK, R. L. Private labeling: nonprice competition in reverse. J. Farm Econ. 49(5):1401-1405. Dec.1967. 280.8 J822
- 64181 HEINER, H. Recent studies on aluminum laminated foils. (Ge) Schweiz. Milchzeitung 94(18):135. Mar.1,1968. 44.8 Sch92  
For food packing.
- 64182 MOLLER, H. Plastic and metal laminated foils as packing materials for food and condiments. (Ge) Indus. Obst- Gemuseverwertung 53(2):50-51. Jan.18,1968. 389.8 K832
- 64183 OREGON STATE UNIVERSITY. FEDERAL CO-OPERATIVE EXTENSION SERV. The growing world of packaging. Oreg. State Univ. Ext. Ext. Circ. 735,6 p.-folder. Feb.1968. 275.29 Or32C
- 64184 QUINN, J. Containers. New Zeal. J. Agr. 115(3):80. Sept.1967. 23 N48J  
Containerization.

## PRICES, PRICE CONTROL, AND RATIONING

- 64185 BADINAND, B., and ARNOULD, J. P. Development of producers' prices and marketing structures for some food and export products in certain French countries of Africa and Madagascar. (Fr) Agron. Trop. [Paris] 23(1):116-138. Jan.1968. 26 Ag86
- 64186 BAKER, S. The threshold review. Agr. Merchant. 48(3):65-66. Mar.1968. 10 Ag89  
Outlook on prices in Great Britain.

- 64187 DAUGHERTY, J. C. Trends in retail prices. Agr. Outlook Conf. [Proc.], 45th Annu. Conf., paper No. 23,8 p. 1967. 1.90 C2Ou8  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 64188 DRUZHKOŦ, V. P. To the problem of equivalent exchange between collective farms and state. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 129:59-63. 1967. 20 M857  
Prices of agricultural products and farm supplies.
- 64189 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Prices of agricultural products and fertilizers in Europe 1966/67. Geneva, 1968. 174 p. (St/ECE/AGRI/27) 281.9 Un39
- 64190 FRECHE, G., and FRECHE, G. Les prix des legumes a Toulouse, 1486—1868; extraits des Mercuriales, suivis d'une bibliographie d'histoire des prix [Prices of grain, wine, and vegetables at Toulouse, 1486—1868; drawn from the Price Lists, followed by a bibliography of price history]. Paris, Presses Universitaires de France, 1967. 178 p. (Paris. Universite. Faculte de Droit et des Sciences Economiques. Serie Sciences Historiques, No. 10) HD9012.8 T6F7  
Bibliography, p.139-173.
- 64191 LONG, D. L. Farm-retail price spread grows. Va. Polytech. Inst. Ext. Va. Farm Econ. 206:7-9. Jan./Feb.1968. 275.29 V813
- 64192 SHAH, V. C. Agricultural price policy in a developing economy. Indian J. Agr. Econ. 22(3):16-27. July/Sept.1967. 281.8 In2
- 64193 U. S. CROP REPORTING BOARD. Crop values; season average prices received by farmers and value of production, 1966 and 1967, by States. Washington, 1967. 35 p. 1.941 F8Se1  
Field and horticultural crops.
- 64194 WACHTER, H. H. The price policy for agricultural products in the E.E.C. (Ge) Germany. Bundesmin. Ernahr. Landwirt. Forsten. Ber. Landwirt. (n.s.)45(4):521-570. Ref. 1967. 18 G31
- 64195 WILCOX, W. W. Implication of recent changes in United States farm price support policies. J. Farm Econ. 49(5):1032-1037. Dec.1967. 280.8 J822

## PROCESSING AND STORAGE

- 64196 ALIKONIS, J. J., and ZIEMBA, J. V. Edible coatings. Food Eng. 39(12):78-80. (Cont.) Dec.1967. 389.8 F737
- 64197 ALTSCHUL, A. New protein foods: shortcut to solving the world food problem? Int. Agr. Develop. 36,i.e.37:1,16. Nov.1967. aS544.A316  
Fortified products.
- 64198 AREF, M. M. Cryogenic freezing of foods. Can. Food Indus. 39(2):20-24. Feb.1968. 286.83 C166
- 64199 BALL, T. M. D. Food chemicals. Chem. Age 98(2532):xix,xxii-xxiii. Jan.27,1968. 382 C427  
Survey; includes legislation.
- 64200 BOHTZ, G., and CHRISTEN, J. On the importance of clean hands in the food plant. (Ge) Alimenta 7(1):12-14. Jan./Feb.1968. TP368.A4
- 64201 BOLANOWSKI, J. P. What you should know about heat exchangers. Food Eng. 39(12):83-87. Dec.1967. 389.8 F737  
In food processing.
- 64202 BUFFA, A. Industrial production of protein-fortified foods in developing countries. (Fr) Indus. Aliment. Agr. 84(11):1469-1481. (Concl.) Nov.1967. 383 As7
- 64203 CAIN, J. L., BENDER, F. E., and O'MARA, C. J. Electronic data processing in inventory control and sales analysis for the food processing industry. Md. Univ. Ext. Agr. Econ. Inform. Ser. 45,24 p. Feb.1968. 275.29 M36Agr

- 64204 CALDER, N. Food from gas-oil. *New Sci.* 36 (572):468-470. Nov.23,1967. 472 N42  
Yeasts grown on gas oil as source of protein.
- 64205 CLUISTRA, A., and MELJER, J. C. M. Course in the preservation of foods. 24. Recent developments in the field of food preservation. 24.2. Freeze-drying of foods. (Du) *Conserva* 16(8):186-190. Feb.1968. 389.8 C7632
- 64206 DOBO, J. Gyakorlati sugarkemia [Applied radiochemistry]. Budapest, Muszaki Konyvkiado, 1967. 175 p. Ref. QD601.D6  
Includes application in food preservation and sterilization.
- 64207 ENDRODI, J. Economical questions of the storage of raw-materials in the food industries. (Hu) *Elemezési Ipar* 21(7):204-208. July 1967. 290.9 M57  
English summary.
- 64208 FIDDLER, W., and others. Thermal decomposition of ferulic acid. *J. Agr. Food Chem.* 15(5):757-761. Ref. Sept./Oct.1967. 381 J8223  
W. E. Parker, A. E. Wasserman, and R. C. Doerr, joint authors.  
In smoke used for curing foods.
- 64209 GARLAND, K. R. Man will eat grass. *J. Agr. [Melbourne]* 65(2):464-467. Nov.1967. 23 V66J  
Leaf protein extractions.
- 64210 GULYAS, B. Results and tendencies of the development in the cooling industry. (Hu) *Elemezési Ipar* 22(1):26-30. Jan.1968. 290.9 M57  
English summary.
- 64211 GYORI, B. The Research Institute for Canning and Paprika Industry [Konzerv-es Paprikaipari Kutató Intézet]. (Hu) *Magyar Mezőgazdaság* 23 (3):8-9. Jan.17,1968. 19 M27
- 64212 HOLDSWORTH, S. D. Progress in the handling and packing of cans: warehousing, storage and transport of filled cans. *Food Trade Rev.* 38 (3):54,58. Ref. Mar.1968. 389.3 F7334  
Food.
- 64213 INTERNATIONAL CONGRESS ON CANNED FOODS. Report. *Food Trade Rev.* 38(1):35-37, 40,42. (Concl.) Jan.1968. 389.8 F7334  
Summaries of papers presented at the 5th congress.
- 64214 INTERNATIONALES HYGIENEKOLLOQUIUM, 16, ESSEN, 1967. [Summaries of papers of the International Sanitation Colloquium]. (Ge) *Alimenta* 7(1):8-11. Jan./Feb.1968. TP368.A4  
Food industry sanitation included.
- 64215 KALTETAGUNG, BERLIN, 1967. [Abstracts of papers of the Refrigeration Conference]. (Ge) *Fleischwirtschaft* 48(1):78-80. Jan.1968. 280.38 F62
- 64216 LAZAR, M. E. Modified drum dryer shows versatility. *Food Eng.* 40(2):95-97. Feb.1968. 389.8 F737  
Developed by U.S. Department of Agriculture's Western Development Laboratory at Albany, California.
- 64217 LUH, B. S. Food processing; a seminar presented to the agricultural chemistry group of the National Taiwan University, Taipei. *Taipei. Nat. Taiwan Univ. Coll. Agr. Misc. Publ.* 26: 11-22. June 1966. 107 T13M
- 64218 LYALL, N. New ingredients to aid frozen food processors. *Frozen Foods* 21(1):20-21. Jan. 1968. 295.8 Q4
- 64219 MERRIFIELD, R. B. The automatic synthesis of proteins. *Sci. Amer.* 218(3):56-62,67-72,74. Mar.1968. 470 Sci25
- 64220 MOLDOVAN, A. Hydro-osmosis. (Fr) *Quebec Lait. Aliment.* 26(9):12,14-15. Sept.1967. 44.8 Q3  
Includes food processing.
- 64221 NATIONAL FEDERATION OF COLD STORAGE AND ICE TRADES, 1968 year book. London, 1968. 120 p. 295.9 N217
- 64222 NELSON, P. E., and CHUMLEY, T. W. The changing input structure of selected food processing industries; agriculture's declining share. *U. S. D. A. Econ. Res. Serv. MTS-168:* 21-29. Feb.1968. 1.941 M8M34
- 64223 ODELL, A. D. The role of protein formulation processes in meeting the food needs of developing countries. In *Alternatives for balancing world food production and needs*, p.134-144. 1967. HD9000.5.A4
- 64224 ODELL, A. D. Textured protein foods. *Int. Agr. Develop.* 36,i.e.37:4-5. Nov.1967. aS544.A3I6
- 64225 REDSTROM, R. A. Practices in the use of homefreezers. *Agr. Outlook Conf. [Proc.]*, 45th Annu. Conf., paper No. 16,13 p. 1967. 1.90 C2Oa8  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 64226 RUTTLOFF, H., and others. On the determination of microbial glucoamylase. (Ge) *Nahrung* 12(1):53-60. Ref. 1968. 389.8 N142  
R. Friese, A. Taufel, and K. Taufel, joint authors.  
English summary.  
Used in enzymatic starch conversion.
- 64227 SPENCER, J. A. Modified food starches. *Food Process. Marketing [London]* 37(437):51-53. Feb.1968. 389.8 F738
- 64228 WEIX, R. F. Conveys with magnets. *Food Eng.* 39(12):84-85. Dec.1967. 389.8 F737  
Used in canning.
- 64229 WENNER, E., and others. Four new high protein food contracts with AID. *Int. Agr. Develop.* 36,i.e.37:6-7,10-11. Nov.1967. aS544.A3I6  
H. Bauman, K. Mattil, and R. A. Gallun, joint authors.  
Agency for International Development contracts with Brazil and El Salvador.
- 64230 YOKOTSUKA, T., and others. Production of fluorescent compounds other than aflatoxins by Japanese industrial molds. *Symp. Microbial Toxins Papers 1966:131-152. Ref. 1967. QR115.S9 1966*  
M. Sasaki, T. Kikuchi, Y. Asao, and A. Nobuhara, joint authors.

## STATISTICS

- 64231 AGREN, C. H. Production and consumption of vegetable farm products in 1966/67. (Sw) *Jordbrukskon. Medd.* 30(1):5-20. Jan.1968. 257.3 J76  
English summary, p.4.
- 64232 BELGIUM. INSTITUT NATIONAL DE STATISTIQUE. *Annuaire statistique de la Belgique*, tome 87, 1966 [Statistical annual of Belgium, volume 87, 1966]. Bruxelles, 1967. 683 p. 258 B41A  
Agricultural statistics included.
- 64233 BROOKS, E. 1970 World Census of Agriculture. *Int. Agr. Develop.* 39:4-5. Jan.1968. aS544.A3I6
- 64234 CANADA. BUREAU OF STATISTICS. Field crop reporting calendar 1968. Ottawa, 1968. 4 p. 253 St22Cr
- 64235 DENMARK. STATISTISKE DEPT. Landbrugsstatistik 1966 herunder gartneri og skovbrug. Statistics on agriculture, gardening and forestry, 1966. Kobenhavn, 1967. 97 p. 257.1 St2L  
Table of contents and table headings also in English.
- 64236 GREAT BRITAIN. CENTRAL STATISTICAL OFF. Annual abstract of statistics, No. 104, 1967. London, 1967. 370 p. 256.03 T67U  
Agricultural and food statistics included.
- 64237 HAWAII CROP AND LIVESTOCK REPORTING SERV. Statistics of Hawaiian agriculture 1966. Honolulu, 1967. 64 p. 252.20 C78  
Hawaii Department of Agriculture and Statistical Reporting Service of U.S. Department of Agriculture, cooperating.



- 64235 INDIANA, AGRICULTURAL EXPERIMENT STATION. Assessors' enumeration of 1965 crops. Ind. Crops Livestock 498,15 p. Nov. 1966. 252.25 Ag8  
U. S. Department of Agriculture, cooperating.
- 64239 INDUSTRI [Manufacturing], 1965. Stockholm, 1967. 508 p. 257.3 St21  
Table of contents, some table headings and summary also in English.  
Includes food statistics.
- 64240 JORDAN, DEPT. OF STATISTICS. Statistical yearbook, 1966. Number 17. Amman, 1967. 226 p. 269.8 T6822  
Agricultural statistics included.
- 64241 NEW ZEALAND MEAT AND WOOL BOARDS' ECONOMIC SERV. Compendium of New Zealand farm production statistics. Wellington, 1967. 12 p. 271.2 N485
- 64242 RUSSIAN SFSR. TSENTRAL'NOE STATISTICHESKOE UPRAVLENIE. RSFSR za 50 let; statisticheskii sbornik [Russian Soviet Federated Socialist Republic for 50 years; statistical handbook]. Moskva, Statistika, 1967. 255 p. HA1448.R9A5  
Includes agricultural statistics.
- 64243 SWEDEN, STATISTIKA CENTRALBYRAN. Statistical abstract of Sweden, 1967, v. 54. Stockholm, 1967. 541 p. 257.3 St2Nc  
Table of contents and table headings also in English.  
Agricultural statistics included.
- 64244 SYRIA, DIRECTORATE OF STATISTICS. Statistical abstract, 1966. Nineteenth year. Damascus, 1967. 420 p., map. 269.8 Sy8S  
Agricultural statistics included.
- 64245 U. S. AGRICULTURAL STABILIZATION AND CONSERVATION COMMITTEE, IDAHO. Annual statistical report, 1966. Boise, 1968. 145 p. 1.956 F45Id13
- 64246 U. S. BUR. OF THE CENSUS. 1964 United States Census of Agriculture. Volume II, chapter 4: Crops, horticultural products, and forest products. Washington, 1967. p.289-488. HD1753.A5 1964
- 64247 U. S. BUR. OF THE CENSUS. 1964 United States Census of Agriculture. Volume II, chapter 6: Value of farm products sold and economic class of farm. Washington, 1966. p.591-669. HD1753.A5 1964
- 64248 U. S. BUR. OF THE CENSUS. 1964 United States Census of Agriculture. Volume II, chapter 7: Farm facilities, farm equipment, farm expenditures, farm labor, and cash rent. Washington, 1967. p.677-738. HD1753.A5 1964
- BEVERAGES AND CONDIMENTS**
- 64249 AGUIAR MUXELLA, J. L., RODRIGUEZ BENITZ, V., and GARCIA MORIN, M. Study of the use and reuse of activated charcoal in rum processing. P. R. Univ. J. Agr. 52(1):1-18. Jan.1968. 8 P832J
- 64250 AKIBA, K., HINO, M., and IKEBE, N. Studies on the lactic acid bacteria employed for beverage production. IV. Microbiological assay of mixtures of glucose, lactose and sucrose by lactic acid bacteria. (Ja) Agr. Chem. Soc. Jap. J. 41(8):370-375. 1967. 385 Ag8  
English summary.
- 64251 AREF, M. M., and TAPE, N. W. Use of maple syrup for wine and liqueur production. Can. Food Indus. 39(3):34-36. Mar.1968. 286.83 C166  
Fermented products from maple syrup.
- 64252 BARKER, W. G. Tea sales increasing regardless of weather. Tea Coffee Trade J. 133(6):12,66. Dec.1967. 68.8 T22
- 64253 BUCKLEY, J. C. K. The marketing of coffee. In Warley, T. K., ed. Agricultural producers and their markets, p.125-135. 1967. HD9000.6.A35
- 64254 BURGESS, K. W. More promotion, better product. Tea Coffee Trade J. 133(6):41-43. Dec. 1967. 68.8 T22  
Coffee in Canada.
- 64255 CANTOR, S. M. High protein beverages; their success depends on how well they fit the market. Int. Agr. Develop. 36,i.e.37:2-3,11. Nov. 1967. aS544.A3I6  
Includes Vitasoy.
- 64256 CAUWE, Y., and LETHIELLEUX, D. A special system for continuous fermentation and its use in brewing. (Ge) Brauwelt 108(15):217-222. Feb.21,1968. 390.8 B732  
English summary.
- 64257 COPPINI, D., and ALBASINI, A. Detection and determination of Captan in wines by infrared spectrophotometry. (Ge) Mikrochim. Acta 1:160-166. Ref. 1968. 384 M58
- 64258 DIXON, I. J., and LEACH, A. A. The adsorption of hop substances on the yeast cell wall. Inst. Brewing J. 74(1):63-67. Jan./Feb. 1968. 390.9 In7  
During fermentation.
- 64259 ESCOBAR Y CORDOVA, A. A picture of the Mexican brewing industry. Master Brewers Ass. Amer. Tech. Quart. 5(1):2-6. Jan./Mar. 1968. 390.9 M39T
- 64260 ESSANG, S. M. The lessons of the cocoa crisis. Nigerian J. Econ. Soc. Stud. 9(2):235-242. July 1967. 280.8 N56
- 64261 FEAVER, W. R. Collection and marketing of cocoa in producing countries. In Warley, T. K., ed. Agricultural producers and their markets, p.149-158. 1967. HD9000.6.A35
- 64262 FLEMING, N. F. H. Tea Association's activities expand. Tea Coffee Trade J. 133(6):54-56. Dec.1967. 68.8 T22  
Tea Association of the U.S.A.
- 64263 FORREST, D. M. World situation and outlook for tea. In Warley, T. K., ed. Agricultural producers and their markets, p.159-171. 1967. HD9000.6.A35
- 64264 FRANZKE, C., and others. On the occurrence of theophyllin in coffee. (Ge) Hoppe-Seyler's Z. Physiol. Chem. 348(12):1725-1726. 1967. 384 Z38  
S. Grunert, U. Hildebrandt, and H. Griehl, joint authors.  
English summary.
- 64265 GAROGLIO, P. G. Wines with origin labeling. (It) G. Agr. 78(8):86. Feb.25,1968. 16 It1G
- 64266 GARVIE, E. I. Leuconostoc oenos sp. nov. J. Gen. Microbiol. 48(3):431-438. Ref. Sept.1967. 448.3 J823  
Text in English.  
Isolated from wine.
- 64267 HADERT, H. Coffee and coffee extract. (Ge) Alimentia 7(1):16-17. Jan./Feb.1968. TP368.A4
- 64268 HONGO, M., and others. The mechanism of formation of high concentration alcohol in sake brewing. I. An effective component of rice and its function. (Ja) Agr. Chem. Soc. Jap. J. 41(12):629-634. Ref. Dec.1967. 385 Ag8  
S. Hayashida, S. Inoue, R. Koizumi, and H., Kawaharada, joint authors.  
English summary.
- 64269 HUBER, H. The vintage year 1966 at the Sternenhalde. (Ge) Schweiz. Z. Obst- Weinbau 103(18):540-544. Sept.2,1967. 80 Sch9
- 64270 KATZ, P. C. The brewing industry—a revolution in growth. Master Brewers Ass. Amer. Tech. Quart. 5(1):21-28, map. Jan./Mar.1968. 390.9 M39T
- 64271 KING, J. A. Economic development projects and their appraisal; cases and principles from the experience of the World Bank. Baltimore, Johns Hopkins Press, 1967. 530 p. Ref. HD82.K52  
Includes a case study of tea roads in Kenya.

- 64272 KLEYN, J. G. Some future pathways for brewing microbiology. Master Brewers Ass. Amer. Tech. Quart. 5(1):114-117. Ref. Jan./Mar. 1968. 390.9 M39T
- 64273 KRAUSS, G., and KREMKOW, C. Barley analysis, malt analysis, and brewing yield. (Ge) Monatsschr. Brauerei 21(1):5-9. Ref. Jan. 1968. 390.8 B7323 Suppl. English summary.
- 64274 LARCHER, J. Processing of black pepper. (Fr) Agron. Trop. [Paris] 22(11):1094-1105. Ref. Nov.1967. 26 Ag86 English summary.
- 64275 LEE, S. Chemical analysis of flavor moving ahead. Tea Coffee Trade J. 133(6):16,44,46. Dec.1967. 68.8 T22 Coffee.
- 64276 LEE, S. New valve may play vital role in production of instant. Tea Coffee Trade J. 133(5):20,35-36. Nov.1967. 68.8 T22 Coffee.
- 64277 LINDEMANN, B. R. F. R. The aging of wine distillates. (Ge) Z. Lebensmittel-Untersuchung -Forsch. 136(1):10-14. Ref. 1967. 384 Z39
- 64278 MACWILLIAM, I. C. Wort composition—a review. Inst. Brewing J. 74(1):38-54. Ref. Jan./Feb.1968. 390.9 In7
- 64279 MANDL, B. Fermentation problems and biological control. Brewers Dig. 43(1):74,76,78, 80-82. Ref. Jan.1968. 390.8 B75 Of wort.
- 64280 MARESCALCHI, C. The common wine policy. (It) G. Agr. 78(7):74. Feb.18,1968. 16 It1G
- 64281 MARTRAIRE, M. Consumption and production of alcohol in France in 1966 (Fr) Indus. Aliment. Agr. 84(11):1501-1504. Nov.1967. 383 As7 Beverages.
- 64282 MASTER BREWERS ASSOCIATION OF AMERICA. Complete technical proceedings of the 80th anniversary convention. Master Brewers Ass. Amer. Tech. Quart. 5(1),117 p. Ref. Jan./Mar.1968. 390.9 M39T
- 64283 MCINNES, I. Coffee for export from East Africa: transportation of coffee from East Africa involves many media and stop-off stations. Tea Coffee Trade J. 133(5):21,32,34. Nov. 1967. 68.8 T22
- 64284 MENDLIK, F. The European Brewery Convention: its origin, development and tasks. Inst. Brewing J. 74(1):9-20. Jan./Feb.1968. 390.9 In7
- 64285 MERORY, J. Food flavorings: composition, manufacture, and use. Ed. 2, rev. and enl. Westport, Connecticut, Avi Publishing Company, 1968. 478 p. Ref.,p.423-426. TP450.M4 1968
- 64286 MOTZ, R. J. A critical evaluation of the A.O. A.C. method for the determination of milk protein in milk chocolate when applied to crumb chocolate. Analyst 93(1103):116-117. Feb. 1968. 382 An1
- 64287 MOURGUES, J., and DEIBNER, L. On the inequality of the oxidation-reduction potential value determined in different levels of wine and grape musts in alcoholic fermentation. (Fr) Indus. Aliment. Agr. 84(11):1483-1491. Ref. Nov.1967. 383 As7 English summary.
- 64288 PAN-AMERICAN COFFEE BUR. Annual coffee statistics, 1966; thirtieth anniversary edition. n.p., 1967. 382 p. 286.3689 P19
- 64289 PETIT, L. Melanoidins, their properties and role in malting-brewing. (Fr) Brasserie 23(252):9-12,14-15,17-20. Jan.1968. 390.8 B734
- 64290 PRILLINGER, F., HORWATITSCH, H., and MADNER, A. (Ge) Tests to characterize wines according to their volatile constituents. Klosterneuburg. Hoheren Bundeslehr- Versuchsanst. Wein- Obstbau. Mitt. 17(4):271-279. Ref. July 1967. 105.9 K696 English summary.
- 64291 REBELEIN, H. The influence of acetaldehyde-sulfuric acids in the colorimetric determination of lactic acid. (Ge) Deut. Lebensm.-Rundsch. 64(1):9-11. Jan.1968. 389.8 D482 In wine.
- 64292 SCHARFENSTEIN, O. H. C. Is the growing use of PVC bottles justified? (Ge) Indus. Obst-Gemuseverwertung 53(3):60-63. Feb.1,1968. 389.8 K832 For beverages.
- 64293 SCHMID, G. The sense of Art. 337 in the food ordinance. (Ge) Schweiz. Z. Obst- Weinbau 103(18):543-544. Sept.2,1967. 80 Sch9 As it affects wine.
- 64294 SCHNEYDER, J., and KAIN, W. Analyses of authentic wines of the 1966 season. (Ge) Klosterneuburg Hoheren Bundeslehr- Versuchsanst. Wein- Obstbau. Mitt. 17(4):289-292. July 1967. 105.9 K696
- 64295 SKIBBE, H. Fruit wines and dry fruit wine 1967. (Ge) Indus. Obst- Gemuseverwertung 52(24):785-787. Dec.21,1967. 389.8 K832
- 64296 SPENCER, C. C. World situation and outlook for coffee. In Warley, T. K., ed. Agricultural producers and their markets, p.113-124. 1967. HD9000.6.A35
- 64297 SZILAS, M. K. The relationship between the quality of roasted coffee and the method of roasting. (Ge) Nahrung 12(1):17-27. 1968. 389.8 N142 English summary.
- 64298 WALKER, C. E. Micro-brewing and zone electrophoresis in malting barley evaluation. Diss. Abstr., Sect. B, 28(6):2313B-2314B. Dec.1967. Z5055.U49D53
- 64299 WOOTTON, A. E. A comparison of methods for the measurement of moisture content in parchment and green coffees. Kenya Coffee 32(380):319-325. Aug.1967. 68.29 C652
- 64300 WUCHERPENNIG, K., and BRETTHAUER, G. On the formation of fluid aromatic materials during fermentation of fruit dessert wines in relation to the races of yeast used as well as the addition of diammonium phosphate. (Ge) Indus. Obst- Gemuseverwertung 53(1):1-7. Ref. Jan.4,1968. 389.8 K832
- 64301 WURZIGER, J. Tolerance to roasted coffee with special reference to coffee beverages. (Ge) Deut. Lebensm.-Rundsch. 64(2):38-43. Feb.1968. 389.8 D482
- 64302 YUILLE, A. B. Production and marketing of tea. In Warley, T. K., ed. Agricultural producers and their markets, p.172-178. 1967. HD9000.6.A35

## DAIRY PRODUCTS

- 64303 ALFONSUS, H. Report of a trip from the Federal Republic of Germany and the Netherlands. 6. (Ge) Osterr. Milchwirt. 23(5):72-76. Mar.7,1968. 44.8 Os72
- 64304 ALFONSUS, H. Travel report from the German Federal Republic and the Netherlands. 4. (Ge) Osterr. Milchwirt. 23(1,beilage 1):3-10. Jan.7,1968. 44.8 Os72
- 64305 ALLEN, G. The dairy industry—overseas problems. Agr. Gaz. New S. Wales 78(5):287-290. May 1967. 23 N472
- 64306 ARMSTRONG, D. Developments in the milk industry in Great Britain. Australian J. Dairy Technol. 22(4):234-236. Dec.1967. 44.8 Au74 Includes discussion.
- 64307 BARABASH, S. T., and others. The dairy industry of the Soviet republics. (Rus) Moloch. Prom. 11:7-42. Nov.1967. 44.8 M734  
L. P. Ryzhenko, V. K.Shagin, YU. R. Mamad-zhanov, Yu. A. Krokh, A. V. Khurodze, S. A. Zul'fugarov, M. B. Buklis, A. I. Tiunov, V. A. Naraevskii, S. T. Tursunov, I. S. Galich, A. M. Kirakosyan, S. B. Gukasov, and G. A. Tynspog, joint authors.



- 64308 BAREIL, R. M. Dairy economy in the tropical zone of West Africa. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:31-33. 1966. SF223.15 1966 v.5  
English summary, p.797.
- 64309 BENTERUD, T. The dairy industry in 1967. (No) Meieriposten 57(1):3-16. Jan.6,1968. 44.8 M47
- 64310 CALHOUN, F. H. H. Modified milks proposed as answer to imitations. Milk Dealer 57(6):40, 42. Mar.1968. 44.8 M595
- 64311 COMES, G., and LEINEKUGEL, M. The restructuring of the milksheds. (Ge) Molk.-Zeitung Welt Milch 22(4):95-96. Jan.26,1968. 44.8 M735
- 64312 DEHN, K. J., and others. What's happening to filled and imitation milks? Milk Dealer 57(6):9-12. Mar.1968. 44.8 M595
- 64313 DE LAUBENFELS, D. J. The Atherton Tableland: a dairyland in the Tropics. J. Geogr. 67 (2):104-107, map. Feb.1968. 278.8 J82
- 64314 DESAI, D. K., and NARAYANAN, A. V. S. Impact of modernization of dairy industry on the economy of Kaira district. Indian J. Agr. Econ. 22(3):54-67. July/Sept.1967. 281.8 In2
- 64315 DILANYAN, Z. KH. Molochnoe delo [Dairy industry]. Ed. 2, rev. and enl. Moskva, Kolos, 1967. 295 p. SF239.D48 1967  
A handbook.
- 64316 DOOSE, W. Technical aspects of the construction of dairy plants. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:573-579. 1966. SF223.15 1966 v.2  
English summary, p.775.
- 64317 DOZET, N., and STANISIC, M. A contribution to the study of composition and properties of milk from the experimental farm at Butmir of the Faculty of Agriculture of the University in Sarajevo. (Se) Sarajevo. Univ. Poljoprivredno-Sum. Fak. Rad. 16(18):185-195. Ref. 1967. 21.5 Sa7  
English summary.
- 64318 DUKEL'SKAYA, A. I. Production and marketing of dairy products in the Ivanovo Region. (Rus) Moloch. Prom. 1:29-30. Dec.1968. 44.8 M734
- 64319 FOREMAN, C. F. Dairy science in an animal science Department. J. Dairy Sci. 51(2):251-254. Feb.1968. 44.8 J822  
Teaching.
- 64320 GOULD, I. A. What can the American Dairy Science Association do for the dairy industry? J. Dairy Sci. 51(2):5,8. Feb.1968. 44.8 J822
- 64321 GRAFF, J. Improvements in the production, collection and transport of raw milk in countries in the course of development. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:35-40. 1966. SF223.15 1966 v.5
- 64322 GROUP proposes world dairy museum. Hoard's Dairyman 113(4):231. Feb.25,1968. 44.8 H65
- 64323 HARPER, W. J. Our changing milk supply. Ohio Rep. Res. Develop. Biol. Agr. Home Econ. 53(1):6-7. Jan./Feb.1968. 100 Oh3S  
Industry and sanitation.
- 64324 HILLMAN, J. S. Manufactured dairy products: and U.S. agricultural and trade policy. U. S. Nat. Adv. Comm. Food Fiber. Tech. Papers 6:111-124. Aug.1967. HD1751.A3
- 64325 INTERNATIONAL DAIRY CONGRESS, 17th, MUNICH, 1966. [Proceedings]. Munchen, 1966. 5 v. Ref. SF223.15 1966  
Papers in English and French and German with English summaries.  
Received April 15, 1968.
- 64326 INTERNATIONAL DAIRY FEDERATION. Report on the 52d annual convention, 1967, by H. W. Kay. (Ge) Milchwissenschaft 22(12):731-740. Dec.1967. 44.8 M5933
- 64327 KETTER, J. Ice cream—will it compete with newer frozen desserts in tomorrow's markets? Can. Dairy Ice Cream J. 47(3):26-27. Mar. 1968. 44.8 C162
- 64328 KOENG, W. France's specialty cheeses in danger? (Ge) Molk.-Zeitung Welt Milch 22(2):43-44. Jan.12,1968. 44.8 M735
- 64329 LARRAT, R., and VEISSEYRE, R. Trends in the dairy industry in tropical countries. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:21-25. 1966. SF223.15 1966 v.5  
English summary, p.795.
- 64330 LASCELLES, A. K. The role of the universities in research. Australian J. Dairy Technol. 22(4):243-245. Dec.1967. 44.8 Au74
- 64331 LEHMANN, F. Possibilities of adapting milk production to developments in demand. (Ge) Molk.-Kaserei-Zeitung 19(4):89-90. Jan.24, 1968. 44.8 M736
- 64332 LEHMANN, F. Problems of the Berlin dairy industry. (Ge) Deut. Molk.-Zeitung 89(6):199-200. Feb.8,1968. 44.8 Su2
- 64333 MATHIS, A. G. Outlook for dairy. Agr. Outlook Conf. [Proc.], 45th Annu. Conf., paper No. 18,4 p. 1967. 1.90 C2Ou8
- 64334 MESTERN, H. J. United States—Canada dairy industries compared. Butter-Fat 45(6):20-21. Feb./Mar.1968. 44.8 B98
- 64335 MITCHELL, W. D., and FOURAS, D. Fat balance in Queensland butter factories. Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:455-460. 1966. SF223.15 1966 v.3  
Output and losses.
- 64336 NIELSEN, V. H. What is sodium caseinate? Amer. Dairy Rev. 30(3):61-62,83-85. Mar. 1968. 44.8 Am38
- 64337 OLSEN, M. E. On the new Interior Department legislation on consumer milk products. (Da) Danske Dyrægefor. Medlemsbl. 50(23):1055-1085. (Cont.) Dec.1,1967. 41.9 D23
- 64338 RIBEIRO, J. A., and FRENSEL, O. Dairy production and industry in Brazil. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:53-66. 1966. SF223.15 1966 v.5
- 64339 ROSSEIN, A. Some data on the economy of dairy industry in the USSR. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:339-343. 1966. SF223.15 1966 v.5
- 64340 SCAPACCINO, M. Zootechnic policy and organization; problems associated with milk and meat. (It) Ital. Agr. 104(9/10):1085-1089. Sept./Oct.1967. 16 It1
- 64341 SCHULZ, M. E. The development of a dairy industry in subtropical countries; example: Israel. (Ge) Milchwissenschaft 22(12):741-751. Dec.1967. 44.8 M5933  
English summary.
- 64342 SCHULZ, M. E. 20 years of Bibliotheca lactis system (experience—improvements). (Ge) Milchwissenschaft 22(12):773-776. Dec.1967. 44.8 M5933  
English summary.  
The Bibliotheca lactis system, edited by M. E. Schulz, p.776-779.
- 64343 SCHWARTZ, H. The consumer point of view on imitation dairy products. Southern DairyProd. J. 82(2):12,14,16-18. Feb.1968. 44.8 So83
- 64344 SEELEMANN, M. Something on the dairy and farming industry in southern Africa. (Ge) Molk.-Zeitung Welt Milch 21(51/52):1578,1580-1581. Dec.22,1967. 44.8 M735  
South Africa.
- 64345 STRAUSS, E., and HAYDOCK, G. Commercial policy and the British butter and cheese markets. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:315-323, map. 1966. SF223.15 1966 v.5  
Geographic patten of output and consumption, and prices.
- 64346 SURKOV, V. D. High school and the problems of training engineers for dairy industry. (Rus) Moloch. Prom. 2:3-7. Feb.1968. 44.8 M734
- 64347 SYMPOSIUM ON ADVANTAGES AND LIMITATIONS OF CONSOLIDATION OF COMMODITY GROUPS IN PREPARING STUDENTS FOR A CAREER IN DAIRY SCIENCE. [Papers]. J. Dairy Sci. 51(2):251-295. Ref. Feb.1968. 44.8 J822

- 64348 SYMPOSIUM ON THE TRAINING OF UNITED STATES AND FOREIGN NATIONALS FOR LEADERSHIP IN DAIRYING IN DEVELOPING NATIONS (INTERNATIONAL). [Papers]. - J. Dairy Sci. 51(2):232-254. Feb. 1968. 44.8 J822
- 64349 VEILLET-PONCET, L. *Aeromonas hydrophila* var. *formicans* (Crawford 1954) Leclerc 1962 an indole-producing bacterium of treated pasteurized milk. (Fr) Nancy, Univ. Fac. Pharm. Ass. Diplomes Microbiol. Bull. 108:15-18. Ref. First Q. 1968. 44.8.2 N152
- 64350 WARD, A. H. The New Zealand dairy industry and the EEC. New Zeal. Agr. Sci. 2(2):53-55. Sept. 1967. S17.N4  
Production and policies.
- 64351 WEGNER, W. Development and establishment of modern dairy industry in the State of Rio Grande do Sul (Brazil) through organized planning and technical development assistance. (Ge) Molk.-Kaserei-Zeitung 19(8):248-253. Feb. 21, 1968. 44.8 M736
- 64352 WEGNER, W. Development and structural improvement of the dairy industry in Rio Grande do Sul, Brazil, through an organized plant and technical assistance. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:41-51. 1966. SF223.15 1966 v.5  
English summary, p.800.
- Analysis and Composition
- 64353 ALSAFAR, T., and WOOD, F. W. Microscopical examination of fat dispersion of ice cream. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:401-407. Ref. 1966. SF223.15 1966 v.5
- 64354 ANDRIEVSKAYA, L. Refractometric analyzer for milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:187-191. 1966. SF223.15 1966 v.2
- 64355 ANTILA, V., ALIIVAARA, K., and ANTILA, M. The amino acid content of Finnish milk proteins. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:361-363. 1966. SF223.15 1966 v.2
- 64356 ANTILA, V., and LUOTO, K. The composition of Finnish butterfat. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:127-133. 1966. SF223.15 1966 v.3  
English summary, p.505.
- 64357 APARICIO, M. Electrophoretic research on the influence of various cow's milk treatments on whey proteins. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:349-355. 1966. SF223.15 1966 v.2  
English summary, p.730.
- 64358 ARNOLD, R. G., and LINDSAY, R. C. Identification and quantitative determination of 2-furfural in sterilized concentrated milk. J. Dairy Sci. 51(2):224-226. Feb. 1968. 44.8 J822
- 64359 ASHTON, T. R., and JACKSON, D. Some experimental results on ultra high temperature milk produced by the indirect heating system and packaged under aseptic conditions. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:283-289. Ref. 1966. SF223.15 1966 v.2  
Phosphatase reactivation.
- 64360 BACIC, B., JACKSON, H., and CLEGG, L. F. L. Distribution of bacteria in milk drawn directly from the cow's udder. J. Dairy Sci. 51(1):47-49. Jan. 1968. 44.8 J822
- 64361 BAKER, B. C. Evaluation of bacteriological tests on refrigerated farm bulk milk as indices of milking shed hygiene. Australian J. Dairy Technol. 22(4):217-219. Ref. Dec. 1967. 44.8 Au74
- 64362 BAKER, B. C. Laboratory pasteurization counts by a simplified method. Australian J. Dairy Technol. 22(4):220. Dec. 1967. 44.8 Au74
- 64363 BEEBY, R. Heat-induced changes in the viscosity of concentrated skim milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:115-121. 1966. SF223.15 1966 v.5
- 64364 BEEBY, R. An interaction of milk serum protein and  $\kappa$ -casein. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:95-98. 1966. SF223.15 1966 v.2
- 64365 BEEBY, R. The isolation of sulphur-rich fractions from  $\kappa$ -casein. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:99-103. 1966. SF223.15 1966 v.2
- 64366 BEYER, F. Deep cooling and reduction test. (Ge) Deut. Molk.-Zeitung 89(4):104-106, 109. Ref. Jan. 25, 1968. 44.8 Su2
- 64367 BEZKOROVAINY, A. Physical and chemical properties of bovine milk and colostrum whey M-1 glycoproteins. J. Dairy Sci. 50(9):1368-1375. Ref. Sept. 1967. 44.8 J822
- 64368 BIRYUKOVA, Z. A., and DAVIDOV, P. B. Comparative study of methods for determining thermal resistance of milk. (Rus) Timiryazevskaya Sel'skokhoz. Akad. Izv. 6:176-181. Ref. 1967. 106 P44  
English summary.
- 64369 BOHAC, V. Measurement of the physical values in Process cheese production. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:263-266. 1966. SF223.15 1966 v.4  
English summary, p.820.
- 64370 BOTTAZZI, V. Effects of tylosin upon the growth of propionic bacteria. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:545-549. 1966. SF223.15 1966 v.4  
Isolated from Grana cheese.
- 64371 BOULET, M. Formation of calcium phosphate in milk and its ultra-filtrate. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:111-118. Ref. 1966. SF223.15 1966 v.2  
English summary, p.678.
- 64372 BRANDL, E., and SOBECK-SKAL, E. Influencing of lipolytic microorganisms through aerobic spore-forming bacteria. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:467-471. 1966. SF223.15 1966 v.2  
English summary, p.753.
- 64373 BUSSE, M. The relationship between total count and triphenyltetrazolium chloride titer in pasteurized milk. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:551-557. Ref. 1966. SF223.15 1966 v.2  
English summary, p.770.
- 64374 CERBULIS, J., and CUSTER, J. H. Casein components soluble in chloroform-methanol (2:1) and in fifty per cent aqueous ethanol. J. Dairy Sci. 50(9):1356-1359. Ref. Sept. 1967. 44.8 J822
- 64375 CHAMBERS, G., and MCDOWELL, J. Observations on the enumeration of moulds in butter. Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:313-315. Ref. 1966. SF223.15 1966 v.3
- 64376 CHANG, S. S., and others. Testing of raw milk adulteration. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:239-244. 1966. SF223.15 1966 v.2  
J. Y. Lin, H. M. Mei, and C. N. Shih, joint authors.
- 64377 CHOMAKOV, KH., KARPANOV, A., and KARBASHEVA, V. Microflora of Mongolian sour milk. (Rus) Moloch. Prom. 1:43-45. Ref. Dec. 1968. 44.8 M734  
*Lactobacillus jugurti*.
- 64378 COLAGRANDE, O., and FONTANA, P. Polarographic characterization of different types of milk. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:227-232. 1966. SF223.15 1966 v.2  
English summary, p.702.
- 64379 CORRADINI, C., SILVA, S., and FONTANA, P. Investigations on the calcium equilibria in milk. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:119-124. 1966. SF223.15 1966 v.2  
English summary, p.680.



- 64380 DAHIYA, R. S., and SPECK, M. L. Associative growth of *Lactobacillus casei* and *Streptococcus lactis* in milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:459-465. Ref. 1966. SF223.15 1966 v.2
- 64381 DELLA MONICA, E. S., and HOLDEN, T. F. Comparison of toluene distillation and Karl Fischer methods for determining moisture in dry whole milk. J. Dairy Sci. 51(1):40-43. Jan. 1968. 44.8 J822
- 64382 DELLA MONICA, E. S., CRAIG, J. C., and CALHOUN, M. J. Error in the analysis of hydroxymethylfurfural in processed milk. J. Dairy Sci. 51(3):352-355. Mar.1968. 44.8 J822
- 64383 DE MOOR, H. W. K., and HENDRICKX, H. L. J. C. The mechanization of the development of light flavor in milk. IV. The influence of light on the content of free amino acids in milk. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:305-312. Ref. 1966. SF223.15 1966 v.2  
English summary, p.719.
- 64384 DEUTSCH, A., and NILSSON, R. Free nucleotides in the milk of ruminants: comparative aspects. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:125-131. Ref. 1966. SF223.15 1966 v.2
- 64385 DOBINSKY, E. The FUCOMA protein determination procedure for milk. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:153-154. 1966. SF223.15 1966 v.2  
English summary, p.687.
- 64386 DYDENKOV, A. Modification of Kofranyi method for determination of quantity of protein substances in milk and sweetened condensed milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:183-185. 1966. SF223.15 1966 v.2
- 64387 ELLIKER, P. R. 5-day plate tests spot contamination sources. Food Eng. 39(12):81-83. Dec.1967. 389.8 F737  
Dairy products.
- 64388 EMMONS, D. B., ELLIOTT, J. A., and BECKETT, D. C. Lactic-streptococcal agglutinins in milk and blood. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:499-508. Ref. 1966. SF223.15 1966 v.4
- 64389 ENCHEW, S. Studies on thermostability of brucellae during pasteurization of cow and sheep milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:531-538. 1966. SF223.15 1966 v.2
- 64390 ESTEVES, F. A., and PATINHO, M. D. Relationship between heat resistant spore-former counts and incubation tests in laboratory sterilized milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:559-562. 1966. SF223.15 1966 v.2
- 64391 FISH, N. L., and MICKELSEN, R. Effect of hydrogen peroxide treatment on heat induced interaction of kappa-casein and beta-lactoglobulin. J. Dairy Sci. 50(9):1360-1362. Ref. Sept.1967. 44.8 J822
- 64392 FOLDA, W. Experiences with the Breed method of bacterial counting. (Ge) Deut. Molk.-Zeitung 89(3):71-73. Jan.18,1968. 44.8 Su2  
In milk.
- 64393 FOLEY, J. The measurement of electrical changes in cheese curd during cooking. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:425-430. 1966. SF223.15 1966 v.4
- 64394 FORSS, D. A., URBACH, G., and STARK, W.  $\gamma$ -dodecalactone and other  $\gamma$ - and  $\delta$ -lactones in Australian butter oil. Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:211-214. 1966. SF223.15 1966 v.3
- 64395 FOX, K. K., and others. Separation of beta-lactoglobulin from other milk serum proteins by trichloroacetic acid. J. Dairy Sci. 50(9):1363-1367. Ref. Sept.1967. 44.8 J822  
V. H. Holsinger, L. P. Posati, and M. J. Pallansch, joint authors.
- 64396 FRYER, T. F., SHARPE, M. E., and REITER, B. The microflora of Cheddar cheese made aseptically from milk containing a standard raw milk reference flora. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:61-66. 1966. SF223.15 1966 v.4
- 64397 GARVIE, E. I. The growth factor and amino acid requirements of species of the genus *Leuconostoc*, including *Leuconostoc parmesenteroides* (sp. nov.) and *Leuconostoc oenos*. J. Gen. Microbiol. 48(3):439-447. Ref. Sept.1967. 44.8 J823  
Lactic acid bacteria.
- 64398 GOLOVNYA, R. V., and others. Studying organic foundations in volatile components of cheese. (Rus) Moloch. Prom. 2:11-16. Ref. Feb.1968. 44.8 M734  
G. A. Mironov, I. L. Zhuravleva, and R. M. Abdullina, joint authors.
- 64399 GONASHVILY, S. Protein substances in cheese. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:289-295. Ref. 1966. SF223.15 1966 v.4
- 64400 GRAEFE, V. Investigation of milk using ultrasonic waves with frequencies of 22 Mc/s. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:411-417. 1966. SF223.15 1966 v.2  
English summary, p.744.
- 64401 GRUBB, H., and JORGENSEN, K. An improved method of analysis for the determination of the copper content of milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:221-226. 1966. SF223.15 1966 v.2
- 64402 GUYOT, A. L., and PIRAUX, E. F. Gas phase chromatography as a method of detecting adulteration of butter. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:199-206. 1966. SF223.15 1966 v.3  
English summary, p.522.
- 64403 HALL, T. L. Butter of low bacterial content. Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:307-312. 1966. SF223.15 1966 v.3
- 64404 HAMANN, I., and BLUMEL, B. Research into the suitability of the methylene blue test and the Bactia strip test for routine testing of milk samples for inhibiting materials. (Ge) Berliner Munchener Tierarztl. Wochenschr. 80 (16):305-308. Aug.15,1967. 41.8 B45  
English summary.
- 64405 HANNAFORD, B. D. Bacto-strip coliform test for cheese. Australian J. Dairy Technol. 22(4):233. Dec.1967. 44.8 Au74
- 64406 HANSEN, P. M. T. Stabilization of  $\alpha$ s-casein by carrageenan. J. Dairy Sci. 51(2):192-195. Ref. Feb.1968. 44.8 J822
- 64407 HEMPENIUS, W. L., and LISKA, B. J. Method for determining volatile acids in cultured dairy products. J. Dairy Sci. 51(2):221-222. Feb. 1968. 44.8 J822
- 64408 HENDRICKX, H. L. J. C., HUYGHEBAERT, A. D. C., and DEMETER, R. L. Influence of amyl alcohol on the result of milk fat determination by the Gerber method. (Fr) Int. Dairy Congr., [Proc.], 17th Congr., Sect. B:133-140. Ref. 1966. SF223.15 1966 v.2  
English summary, p.683.
- 64409 HENDRICKX, H. L. J. C., and DE MOOR, H. W. K. Influence of light on sterilized milk. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:291-298. Ref. 1966. SF223.15 1966 v.2  
English summary, p.716.
- 64410 HENNING, D. R., SANDINE, W. E., and ELLIKER, P. R. Chemical composition of a bacteriophage for *Streptococcus diacetylactis*. J. Dairy Sci. 51(3):345-351. Ref. Mar.1968. 44.8 J822
- 64411 HENNING, D. R., and others. Host-range studies of lactic streptococcal bacteriophages. J. Dairy Sci. 51(1):16-21. Ref. Jan.1968. 44.8 J822  
C. H. Black, W. E. Sandine, and P. R. Elliker, joint authors.

- 64412 HERZEN, E. I. Correlation of A-vitamin activity of milk with different factors. Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:319-323. 1966. SF223.15 1966 v.1
- 64413 HLADIK, J. Effect of heat treatment on changes of lipoprotein complex of fat globule membrane in milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:393-398. Ref. 1966. SF223.15 1966 v.2
- 64414 HOFFER, H. Solubility determination—a new rapid method for determining the solubility of dried milk. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:227-230. 1966. SF223.15 1966 v.5  
English summary, p.834.
- 64415 HOOG, P. DE, REEK, S. VAN DEN and BROUWER, F. Decomposed milk protein—a simple rapid method for determining casein content. (Ge) Fleischwirtschaft 48(1):66-67. Jan.1968. 280.38 F62
- 64416 HOUSE, M. A., and PIM, F. B. The estimation of lactose in milk and milk products. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B: 211-216. Ref. 1966. SF223.15 1966 v.2
- 64417 HUHTANEN, C. N. Ultrasonic de-gassing of lactose fermentation tubes. J. Dairy Sci. 51(3): 465. Mar.1968. 44.8 J822  
In determination of coliform bacteria.
- 64418 IKONOMOV, L., and TODOROV, D. Microbiological investigations into the pasteurization of ewe's milk. III. Stability of certain pathogenic bacteria. (Bu) Vet. Med. Nauk. 4(3):99-108. Ref. 1967. 41.8 V6468  
English summary.
- 64419 JANKOWSKA, S. A rapid assay of caesium—137 in liquid milk; the radiochemical method. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B: 253-259. Ref. 1966. SF223.15 1966 v.2
- 64420 JAYASHANKAR, S. R., DUDANI, A. T., and IYA, K. K. Studies on psychrophilic bacteria in milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:539-545. Ref. 1966. SF223.15 1966 v.2
- 64421 JENSEN, G. K., FISKE, A. N., and CHRISTENSEN, A. M. Some investigations concerning the chemical changes in cultured, salted butter as influenced by the quality of the milk used. Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:193-198. 1966. SF223.15 1966 v.3
- 64422 JESPERSEN, N. J. T. Proteolytic activity of some lactic acid bacteria. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:465-470. 1966. SF223.15 1966 v.4
- 64423 JICINSKA, E., and PESEK, M. On the presence of enterococci in raw milk and milk powder. (Ge) Milchwissenschaft 22(11):694-697. Nov.1967. 44.8 M5933  
English summary.
- 64424 JOSEPHSON, R. V., and others. Relation of heat-induced changes in protein salt constituents to astringency in milk systems. J. Dairy Sci. 50(9):1376-1383. Ref. Sept.1967. 44.8 J822  
E. L. Thomas, C. V. Moor, and S. T. Coulter, joint authors.
- 64425 JOTOV, J., and FILEV, F. Investigations on the degree of acidity of sheep's milk and the use of certain procedures for its determination. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:311-316. 1966. SF223.15 1966 v.1  
English summary, p.720.
- 64426 JULSKJAER, O. Chemical composition of three Danish cheese types at different ages. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D: 355-360. 1966. SF223.15 1966 v.4
- 64427 KANAUCHI, T., HAMAMATO, M., and HIROTA, T. Decomposition of nitrogen compounds in market milk, preserved at low temperature. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:335-339. Ref. 1966. SF223.15 1966 v.2
- 64428 KANDLER, O., ABO-ELNAGA, I. G., and PLAPP, R. Recent viewpoints on the taxonomy of lactobacilli in milk and dairy products. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:439-453. Ref. 1966. SF223.15 1966 v.2  
English summary, p.750.
- 64429 KEENAN, T. W., and LINDSAY, R. C. Diacetyl production and utilization by *Lactobacillus* species. J. Dairy Sci. 51(2):188-191. Ref. Feb. 1968. 44.8 J822
- 64430 KEENAN, T. W., and LINDSAY, R. C. Evidence for a dimethyl sulfide precursor in milk. J. Dairy Sci. 51(1):112-114. Ref. Jan.1968. 44.8 J822
- 64431 KING, N. The effect of some surface active substances on the physical forms of milk fat. Int. Dairy Congr. [Proc.], 17th Congr., Sect. C: 289-294. Ref. 1966. SF223.15 1966 v.3
- 64432 KING, N. Use of the interference contrast and anoptical contrast microscopical techniques in studying churning process. Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:303-306. 1966. SF223.15 1966 v.3
- 64433 KIERMEIER, F., and RENNER, E. On the fatty acid composition of milk fat. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:145-148. 1966. SF223.15 1966 v.3  
English summary, p.508.
- 64434 KIRCHMEIER, O. On the stoichiometric composition of the alphas beta gamma chi casein complex in milk. (Ge) Milchwissenschaft 23(1): 28-29. Jan.1968. 44.8 M5933  
English summary.
- 64435 KNOOP, A. M., KNOPP, E., and WORTMANN, A. Comparison of the physical structure of butter and margarine on the basis of electron microscopy investigations. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:253-263. Ref. 1966. SF223.15 1966 v.3  
English summary, p.532.
- 64436 KOKA, M., MIKOLAJCZAK, E. M., and GOULD, I. A. Spectrophotometric method for determination of heat-activated sulfhydryl groups of skimmilk. J. Dairy Sci. 51(2):217-219. Ref. Feb.1968. 44.8 J822
- 64437 KONRAD, H. Contribution to the determination of proteins in milk according to the semi-micro-Kjeldahl procedure. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:177-181. 1966. SF223.15 1966 v.2  
English summary, p.692.
- 64438 KOPECKY, A. The effect of the air humidity on the free fat content in dried milk. (Ge) Nahrung 12(1):93-96. 1968. 389.8 N142  
English summary.
- 64439 KOSIKOWSKI, F. V. Innovations and biological applications of the dialysis phosphatase test. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B: 269-275. 1966. SF223.15 1966 v.2  
For milk and dairy products.
- 64440 KRESHECK, G. C., and HARPER, W. J. Factors affecting the reactivation of milk alkaline phosphatase. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:277-282. Ref. 1966. SF223.15 1966 v.2
- 64441 KRISTOFFERSEN, T., and HARPER, W. J. Determining volatile sulfur in Cheddar cheese by use of S<sub>35</sub>. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:297-299. 1966. SF223.15 1966 v.4
- 64442 KRISTOFFERSEN, T., STUSSI, D. B., and GOULD, I. A. Redox changes of Cheddar cheese. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:405-411. 1966. SF223.15 1966 v.4
- 64443 KROGER, M. Observations on the analysis of chlorinated hydrocarbon pesticides in milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. A: 467-469. 1966. SF223.15 1966 v.1
- 64444 KUZDZAL, W., and KUZDZAL-SAVOIE, S. Comparative study of the free and esterified non-volatile fatty acids in cheeses. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D: 335-342. Ref. 1966. SF223.15 1966 v.4  
English summary, p.833.



- 64445 KUZDZAL-SAVOIE, S., and PETIT, J. Chromatographic fractionation of lipolysis products in cheeses. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:329-334. Ref. 1966. SF223.15 1966 v.4  
English summary, p.831.
- 64446 LACROSSE, R. D. Influence of contamination of butter with yeasts and *Klebsiella aerogenes* on the diacetyl content after storage. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. C: 317-320. 1966. SF223.15 1966 v.3  
English summary.
- 64447 LAGONI, H., and KOLM, H. The problem of partition equilibrium of radioactive strontium in milk. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:261-268. Ref. 1966. SF223.15 1966 v.2  
English summary, p.709.
- 64448 LAPSHIN, A. A. A rapid method of determination of aqueous phase dispersion in butter. Int. Dairy Congr. [Proc.], 17th Congr., Sect. C: 237-239. Ref. 1966. SF223.15 1966 v.3
- 64449 LAPSHIN, A., VOROBYEVA, N., and NAZIMOV, N. Rapid method of determining moisture content in milk powder. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:261-263. 1966. SF223.15 1966 v.5
- 64450 LAWRENCE, R. C., FRYER, T. F., and REITER, B. The production and characterization of lipases from a micrococcus and a pseudomonad. J. Gen. Microbiol. 48(3):401-418. Ref. Sept.1967. 44.8 J823  
Micrococcus freudenreichii and Pseudomonas fragi, of dairy interest.
- 64451 LAWTON, W. D., and others. Proposal for a continuing activity for development, evaluation, and preparation for publication of standard methods for the examination of dairy products. J. Dairy Sci. 51(1):181-182. Jan.1968. 44.8 J822  
J. C. Olson, M. L. Speck, W. G. Walter, and R. B. Read, joint authors.
- 64452 LEEDER, J. G. Causes of lactose crystallization in ice cream. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:409-422. 1966. SF223.15 1966 v.5
- 64453 LEESMENT, H., and NICKELS, C. Calibration of the Burri loop for bacterial counts. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:481-483. 1966. SF223.15 1966 v.2  
English summary, p.755.
- 64454 LEESMENT, H., and DUFEU, J. Comparison of two methods for determination of psychrophilic microorganisms in milk. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. B: 547-549. 1966. SF223.15 1966 v.2  
English summary, p.769.
- 64455 LEGGETT, J. Some factors which affect the properties of whipping cream. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:347-355. 1966. SF223.15 1966 v.5
- 64456 LENOIR, J., and AUBERGER, B. Contribution to the study of the microbial flora of Camembert type cheese. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:595-602. Ref. 1966. SF223.15 1966 v.4  
English summary, p.885.
- 64457 LINDQVIST, B. An approach to systematic analysis of mixtures of proteins and their decomposition products. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:201-206. 1966. SF223.15 1966 v.2
- 64458 LJUNGGREN, B. A rapid method for investigation of delivery milk on the farm in the case of bulk collecting. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:317-318. 1966. SF223.15 1966 v.1  
English summary, p.721.  
Acidity.
- 64459 LJUNGGREN, B., and LINDQVIST, B. Relation between various methods for determination of proteins in milk. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:169-175. Ref. 1966. SF223.15 1966 v.2  
English summary, p.691.
- 64460 LOEWENSTEIN, M., and GOULD, I. A. Effect of heat on the chemical nature of the fat globule membrane. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:399-404. 1966. SF223.15 1966 v.2
- 64461 LOKEMA, H., and DE GRAAF, A. W. Experience with mass-determination of protein in milk samples. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:155-160. 1966. SF223.15 1966 v.2
- 64462 LUQUET, F. M. On the counting and identification of pathogenic staphylococci in dairy products. (Fr) Lait 48(471/472):43-52. Ref. Jan./Feb.1968. 44.8 L143  
English summary.
- 64463 MACNEISH, A. C. More milk samples, faster results from Ontario's new central labs at Guelph. Can. Dairy Ice Cream J. 47(2):12-13. Feb.1968. 44.8 C162
- 64464 MAIR-WALDBURG, H., and HEINRICH, C. Fluctuations in the fat content in Chester cheese dry matter. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:353-354. 1966. SF223.15 1966 v.4  
English summary, p.836.
- 64465 MAIR-WALDBURG, H., and HEINRICH, C. Fluctuations in the fat content in Emmentaler cheese dry matter. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:349-352. 1966. SF223.15 1966 v.4  
English summary, p.835.
- 64466 MAIR-WALDBURG, H., and LUBENAU-NESTLE, R. Influence of the testing techniques on the plate count of skim-milk powder. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:253-257. Ref. 1966. SF223.15 1966 v.5  
English summary, p.839.
- 64467 MAIR-WALDBURG, H., HEINRICH, C., and LUBENAU-NESTLE, R. Relation between germ count and solubility or sediment in skim-milk powders. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:259-260. 1966. SF223.15 1966 v.5  
English summary, p.841.
- 64468 MANSON, W. The reaction of casein with the basic dye, safranin. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:193-199. Ref. 1966. SF223.15 1966 v.2
- 64469 MARCERON, J. F., LENOIR, J., and VEISSEYRE, R. Contribution to the study of the microbial flora of Saint Paulin type cheese and their proteolytic activity. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:603-610. 1966. SF223.15 1966 v.4  
English summary, p.886.
- 64470 MCKENZIE, D. A. Bacterial count, coliform and resazurin tests of raw milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:473-480. 1966. SF223.15 1966 v.2
- 64471 MICEV, N., and LAZAREVSKA, D. Bacterial and chemical investigation of white fresh sheep cheese before and after storage at -17°C. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D: 575-576. 1966. SF223.15 1966 v.4
- 64472 MILLER, A., and MORGAN, M. E. Genetic homology and attempted transformation among certain lactic streptococci. J. Dairy Sci. 51(1): 1-7. Ref. Jan.1968. 44.8 J822
- 64473 MILLER, I., and KANDLER, O. Spore inactivation in the range of ultra-high heating and its dependence on temperature and time. (Ge) Milchwissenschaft 22(11):686-691. Ref. Nov. 1967. 44.8 M5933  
English summary.

- 64474 MIRGORODSKY, B. Method for determination of the cohesion of cheese grains in monolith. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D: 421-424. 1966. SF223.15 1966 v.4
- 64475 MORR, C. V. Effect of urea upon the physical properties of beta-lactoglobulins A and B. J. Dairy Sci. 50(11):1752-1759. Ref. Nov.1967. 44.8 J822
- 64476 MORRISSEY, P. A., and PYNE, G. T. The rennet hysteresis of heated milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:247-250. 1966. SF223.15 1966 v.4
- 64477 MURPHY, F. E. Rapid method of determining the fat in separated milk and whey. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:147-151. 1966. SF223.15 1966 v.2
- 64478 MURRAY, J. G. Salmonellae in farm milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:427-430. 1966. SF223.15 1966 v.2
- 64479 MULDER, H., DE GRAAF, J. J., and WALSTRA, P. Microscopical observations on the structure of curd and cheese. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:413-420. 1966. SF223.15 1966 v.4
- 64480 NAGASAWA, T., RYOKI, T., and KUWAHARA, K. On a simplified procedure for the determination of total milk solids by means of infrared drying. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:207-210. 1966. SF223.15 1966 v.2
- 64481 NAKANISHI, T., and NAKAZAWA, Y. On the chemical properties of Oryzae cheese ripened by *Aspergillus oryzae* Chosen B. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:307-312. Ref. 1966. SF223.15 1966 v.4
- 64482 NARANG, A. S., and others. Estimation of sulphhydryls in milk with n-ethyl maleimide). Milchwissenschaft 22(11):682-685. Ref. Nov. 1967. 44.8 M5933  
J. Singh, R. V. Rao, and V. R. Bhalerao, joint authors.
- 64483 NAUDTS, M., and WAES, G. Comparative study of three simple methods of finding milk with a too high cell content in samples taken from the can. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:403-408. 1966. SF223.15 1966 v.1  
English summary, p.739.
- 64484 NEFF, E., and MORRIS, H. A. L. Agglomeration of milk powder and its influence on reconstitution of properties. J. Dairy Sci. 51(3):330-338. Ref. Mar.1968. 44.8 J822
- 64485 NELSON, F. E. Influence of emmeration conditions upon survival of thermally shocked bacteria. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:435-438. Ref. 1966. SF223.15 1966 v.2  
In milk.
- 64486 NEY, K. H., WIROTAMA, I. P. G., and SEITZ, I. Research on cheese with polyacrylamide gel electrophoresis. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:283-288. 1966. SF223.15 1966 v.4  
English summary, p.825.
- 64487 NIKI, T., YOSHIOKA, Y., and AHIKO, K. Proteolytic and lipolytic activities of *Penicillium roqueforti* isolated from Blue cheese. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:531-537. Ref. 1966. SF223.15 1966 v.4
- 64488 NILSSON, G. The poisoning effect of milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B: 491-497. 1966. SF223.15 1966 v.2  
Methylene blue test.
- 64489 NILSSON, R., and VON BOCKELMANN, I. The assessment of the bacteriological quality of bulk-collected milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:349-356. Ref. 1966. SF223.15 1966 v.1
- 64490 OOSTHUIZEN, J. C. The mechanism of the viscosity reduction in milk and caseinate solutions by cheese rennet. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:239-246. Ref. 1966. SF223.15 1966 v.4
- 64491 PALMER, J. M. A., and KOSIKOWSKI, F. V. Simple ultrasensitive test for detecting penicillin in milk. J. Dairy Sci. 50(9):1390-1394. Ref. Sept.1967. 44.8 J822
- 64492 PALO, V., and HRIVNAK, J. Gas chromatography of the volatile substances in cheese. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:387-390. 1966. SF223.15 1966 v.4  
English summary, p.843.
- 64493 PARKASH, S., and JENNESS, R. The composition and characteristics of goats' milk: a review. Dairy Sci. Abs. 30(2):67-87. Ref. Feb. 1968. 241 Im76
- 64494 PAZDERKA, J., and RADEMACHER, R. Determination of chlorides in milk. (Cz) Veterinarstvi 17(5):206-209. 1967. 41.8 V6439
- 64495 PEDERSEN, N. T. On the correct scale volume of the butyrometer. (Da) Maelkeritidende 81(3):39-40. Jan.19,1968. 44.8 M26  
For the determination of fat in dairy products.
- 64496 PLJANOWSKI, E., and others. Observations on the nitrogen distribution of milk, its oxidative susceptibility and the oxidative stability of milk fat. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:317-324. Ref. 1966. SF223.15 1966 v.2  
M. Wojtowiczowa, M. Dluzewski, and F. Buszma, joint authors.
- 64497 PILLA, A. M. Fat content. (It) G. Agr. 78(5): 53-54. Feb.4,1968. 16 It1G  
Milk costs and prices and the importance of maintaining solids-not-fat content.
- 64498 PINHEIRO, A. J. R., LISKA, B. J., and PARMALEE, C. E. Inhibitory effect of selected organic chemicals on *Pseudomonas fragi*. J. Dairy Sci. 51(2):223-224. Feb.1968. 44.8 J822
- 64499 PINHEIRO, A. J. R., LISKA, B. J., and PARMELEE, C. E. Properties of substances inhibitory to *Pseudomonas fragi* produced by *Streptococcus citrovorus* and *Streptococcus diacetylactis*. J. Dairy Sci. 51(2):183-187. Ref. Feb.1968. 44.8 J822
- 64500 PLISZKA, A. Survival and multiplication conditions of enterotoxic staphylococci in ice cream mixes. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:423-428. 1966. SF223.15 1966 v.5  
English summary, p.868.
- 64501 POFKE, R., WECKX, M., and SIMONART, P. Methylene blue test and bacteriological quality of milk. (Fr) Lait 48(471/472):31-42. Ref. Jan./Feb.1968. 44.8 L143  
English summary.
- 64502 POKORNY, J., and JANICEK, G. Reactions of oxidized lipids with protein. IV. The combination of oxidized lipids with casein. (Ge) Nahrung 12(1):81-85. Ref. 1968. 389.8 N142  
English summary.
- 64503 RADAËVA, I., and POMËTOVÁ, N. Structural changes of casein in sweetened condensed milk depending on pasteurisation temperatures and the season. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:159-165. 1966. SF223.15 1966 v.5
- 64504 RAMMELL, C. G., and HOWICK, J. M. Enumeration of coagulase positive staphylococci in cheese. J. Appl. Bacteriol. 30(2):382-388. Ref. Aug.1967. 44.8 39 So12  
*Staphylococcus aureus*.
- 64505 RANDOLPH, H. E., and GOULD, I. W. Characterization of the natural inhibitors in skimmilk affecting lactic acid bacteria. J. Dairy Sci. 51(1):8-15. Ref. Jan.1968. 44.8 J822
- 64506 RIEL, R. R. Study of the dilatometric and meltometric properties of modified milk fat. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:295-302. Ref. 1966. SF223.15 1966 v.3  
English summary, p.543.
- 64507 RITTER, W., SCHILT, P., and LOWE, A. Investigations on the development of peptides and amino acids in cheese. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:269-274. 1966. SF223.15 1966 v.4  
English summary, p.823.



- 64508 RITTER, W., HANNI, H., and GERBER, H. Investigations on the relation between pH, lactic acid content, and titration acidity of cheese. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:373-378. 1966. SF223.15 1966 v.4 English summary, p.841.
- 64509 ROY, N. K., and BHALERAO, V. R. Molecular shape and solvation of casein particles in solution by viscometric study. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:371-376. Ref. 1966. SF223.15 1966 v.2
- 64510 SADLER, A. M., and others. Acid production and curd toughness in milks of different  $\kappa$ -casein types. J. Dairy Sci. 51(1):28-30. Jan. 1968. 44.8 J822  
C. A. Kiddy, R. E. McCann, and W. A. Mattingly, joint authors.
- 64511 SAMBANDAN, R. T., and NAMBUDRIPAD, V. K. N. Incidence and characterisation of lactobacilli in raw milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:455-457. Ref. 1966. SF223.15 1966 v.2
- 64512 SAMEL, R., and SCHIMELMITZ, S. The estimation of vitamin A in dairy products using the Budowski and Bondi method. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:103-108. 1966. SF223.15 1966 v.5
- 64513 SAMHAMMER, E. Investigations on the determination of the properties of "instant" dried milks. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:209-215. 1966. SF223.15 1966 v.5  
English summary, p.832.
- 64514 SATO, M., and others. A study on free fatty acids, volatile carbonyl compounds and tyrosine in Blue cheese. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:539-544. Ref. 1966. SF223.15 1966 v.4  
T. Honda, Y. Yamada, A. Takada, and T. Kawanami, joint authors.
- 64515 SAWYER, W. H. Heat denaturation of bovine beta-lactoglobulins and relevance of disulfide aggregation. J. Dairy Sci. 51(3):323-329. Ref. Mar. 1968. 44.8 J822
- 64516 SCHARPF, L. G., and KICHLIN, T. P. Stability of a long chain polyphosphate in aqueous cheese extracts. J. Agr. Food Chem. 15(5):787-789. Ref. Sept./Oct. 1967. 381 J8223
- 64517 SCHULZ, M. E., and TIMMEN, H. Research on milk fat fractionation and possibilities for its application. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:155-160. 1966. SF223.15 1966 v.3  
English summary, p.510.
- 64518 SHALAPUGNA, E. P., and KOVALENKO, M. S. Separation of milk fat glycerides. (Rus) Moloch. Prom. 2:22-23. Feb. 1968. 44.8 M734
- 64519 SHARPE, M., and GOUDKOV, A. V. Serological characteristics of some clostridia isolated from milk and cheese. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:625-628. Ref. 1966. SF223.15 1966 v.4
- 64520 SIMONART, P., POFFE, R., and WECKX, M. Methylene blue test and leucocyte content. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:369-372. Ref. 1966. SF223.15 1966 v.1  
English summary, p.730.
- 64521 SMELLIE, T. J. Test for the whipping properties of cream. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:357-362. 1966. SF223.15 1966 v.5
- 64522 SNOW, N. S., and HAY, A. K. Variations in the chemical composition of large and small casein micelles. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:105-110. Ref. 1966. SF223.15 1966 v.2
- 64523 SOBECK-SKAL, E. Bacterial count on sodium-desoxycholate agar. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:485-490. 1966. SF223.15 1966 v.2  
English summary, p.756.
- 64524 SOLBERG, P., and DOVLE, H. Experiments on counteraction light-induced off-flavour in milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:299-303. 1966. SF223.15 1966 v.2
- 64525 SONE, T., OKADA, M., and FUKUSHIMA, M. Physical properties of butter made by different methods. Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:225-235. 1966. SF223.15 1966 v.3
- 64526 SONE, T., and TANEYA, S. Physico-chemical properties of frozen concentrated milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:123-132. 1966. SF223.15 1966 v.5
- 64527 STAXRUD, K. M. Measurement of temperature of container milk in cold storage. (No) Meierposten 57(3):41-47. Jan. 20, 1968. 44.8 M47
- 64528 STEINERT, H. J., and BEHSEN, M. The measurement of creaming in heated milk with a sedimentation balance. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:377-386. 1966. SF223.15 1966 v.2  
English summary, p.737.
- 64529 STEINSHOLT, K., and YSTGAARD, O. M. Seasonal variation in the composition of milk for cheese-making. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:207-213. 1966. SF223.15 1966 v.4
- 64530 STOCKL, W., and LESKOVA, R. Studies on the iodine content of cow's milk and colostrum. (Ge) Milchwissenschaft 22(11):692-694. Nov. 1967. 44.8 M5933  
English summary.
- 64531 SUTHERLAND, B. J., and VAN LEEUWEN, H. J. M. Estimation of lactose in cheese. Australian J. Dairy Technol. 22(4):221-223. Dec. 1967. 44.8 Au74
- 64532 SVENSEN, A., and YSTGAARD, O. The composition of the fatty acids in Norwegian butterfat. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:135-144. 1966. SF223.15 1966 v.3  
English summary, p.506.
- 64533 SWIATEK, A., KLEPACKI, J., and SANOJCA, C. Contribution to the photometric characteristics of rennet coagulation of flowing milk. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:431-438. 1966. SF223.15 1966 v.4  
English summary, p.852.
- 64534 SZABO, G. On the rheological properties of Process cheese. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:257-262. 1966. SF223.15 1966 v.4  
English summary, p.819.
- 64535 THOMAS, S. B., and DRUCE, R. G. Incidence and significance of thermophilic bacteria in farm milk supplies; a reappraisal and review. J. Appl. Bacteriol. 30(2):265-298. Ref. Aug. 1967. 44.8 So12
- 64536 TOLLE, A., ZEIDLER, H., and HEESCHEN, W. Electronic micro-colony counting, a procedure for determining the bacteriological and hygiene quality of raw milk. (Ge) Milchwissenschaft 23(2):65-70. Feb. 1968. 44.8 M5933  
English summary.  
Use of the Coulter counter.
- 64537 TORSSELL, H., WALLGREN, K., and LINDAHL, B. A method for the evaluation of the reconstitutability of milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:217-225. Ref. 1966. SF223.15 1966 v.5
- 64538 TSUGO, T., IWAIDA, M., and SAITO, Y. A simple and rapid method for the determination of orotic acid content in liquid milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:245-252. 1966. SF223.15 1966 v.2
- 64539 TVERDOKHLEB, G., and GULYAEV-ZAITSEV, S. Kinetic peculiarities of milk fat solidification at different temperatures and various cooling periods. Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:283-287. 1966. SF223.15 1966 v.3

- 64540 TVERDOKHLEB, G., MIRONOV, A., and MI-KHAILINA, A. Thixotropic properties of butter produced by different methods. Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:265-274. Ref. 1966. SF223.15 1966 v.3
- 64541 UOTILA, M., and ANTILA, M. Determination of the dry matter content of ice cream. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F: 391-393. 1966. SF223.15 1966 v.5
- 64542 VANDEZANT, C., and KRUEGER, W. F. Effect of certain variations in diluent and dilution procedure on survival of *Pseudomonas* species grown in various media. J. Milk Food Technol. 31(3):65-71. Ref. Mar.1968. 44.8 J824  
Skim milk included.
- 64543 VAN GINKEL, J. G., KROL, B. M., and ROOS, J. B. The effect of the use of a desiccator on the results of the moisture determination in cheese. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:361-364. 1966. SF223.15 1966 v.4
- 64544 VASIC, J., and DE MAN, J. M. The composition of the liquid phase of milkfat obtained by a pressure filtration method. Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:149-153. 1966. SF223.15 1966 v.3
- 64545 VASIC, J., and DE MAN, J. M. High melting glycerides and the milk fat globule membrane. Int. Dairy Congr. [Proc.], 17th Congr., Sect. C: 167-172. 1966. SF223.15 1966 v.3
- 64546 VERMA, I. S., and GARG, B. M. L. Formaldehyde titration in the determination of milk-solids-not-fat in ice-cream and other milk products. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:395-399. 1966. SF223.15 1966 v.5
- 64547 VON BOCKELMANN, I. Investigations on the bacterial content of deep-cooled raw milk. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:333-341. Ref. 1966. SF223.15 1966 v.1  
English summary, p.725.
- 64548 WAITE, R., and TAYLOR, M. M. The chemical composition and microbial flora of milk stored in the presence of potassium dichromate. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:87-93. 1966. SF223.15 1966 v.2
- 64549 WALLGREN, K., TORSSELL, H., and LIN-DAHL, B. A method for the determination of the dustability of milk powder. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:231-235. 1966. SF223.15 1966 v.5
- 64550 WALSTRA, P. Note on the influence of homogenization on the size distribution of milk fat globules. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:405-409. 1966. SF223.15 1966 v.2
- 64551 WEIDNER, K., and JAKOBSEN, P. E. Rapid method for determination of protein in milk and practical experience with its use. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B: 161-168. 1966. SF223.15 1966 v.2
- 64552 WHITTLESTONE, W. G. Leucocyte counts with automatic equipment. Australian J. Dairy Technol. 22(4):238. Dec.1967. 44.8 Au74  
Includes discussion.
- 64553 WILSSENS, A. T. E., CASTEELE, J. C. V., and DEMETER, R. L. Staphylococci and micrococci of raw milk. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:431-434. Ref. 1966. SF223.15 1966 v.2  
English summary, p.747.
- 64554 WOERNER, F. Chromatographic investigation of the "fat" obtained by various milk fat determination procedures. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:141-145. 1966. SF223.15 1966 v.2  
English summary, p.684.
- 64555 WORTMANN, A. Electron microscopy investigation of casein particles in dried milk. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:237-246. Ref. 1966. SF223.15 1966 v.5  
English summary, p.836.
- 64556 YAMAMOTO, T., and CHIKUMA, G. A new method for determining acidity of milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B: 217-220. 1966. SF223.15 1966 v.2
- 64557 ZEIDLER, H. Information on electronic cell and germ counting. (Ge) Deut. Milk.-Zeitung 89(7):227-228. Feb.15,1968. 44.8 Su2  
In milk.
- 64558 ZITTE, C. A. Precipitation of caprine and bovine caseins from acidic solutions by sodium polyphosphate: influence of pH and urea; utilization for separation of alpha<sub>s</sub>- and kappa-caseins. J. Dairy Sci. 50(9):1352-1355. Sept. Ref. 1967. 44.8 J822

#### Consumption and Utilization

- 64559 GOLEBIEWSKI, T. Consumption of milk and dairy products in Poland, divided according to population groups and sources of supply. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:331-338. 1966. SF223.15 1966 v.5  
English summary, p.854.
- 64560 MCBRIDE, G. Substitute dairy products; a new challenge. Mich. State Univ. Ext. Mich. Farm Econ. 301:1-3. Feb.1968. 275.29 M58A  
Chiefly consumer preferences.
- 64561 TRURNIT, G. Is milk still a modern beverage? (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:325-330. Ref. 1966. SF223.15 1966 v.5  
English summary, p.853.  
Consumption in Germany.
- 64562 ZANNONI, L., and BIANCHI, E. Properties of Process cheese for the taste of Italian consumers. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:267-268. 1966. SF223.15 1966 v.4  
English summary, p.822.

#### Distribution, Marketing, and Transportation

- 64563 BABB, E. M., and FREEMAN, R. E. Use of a transportation model to determine optimum milk assembly. Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:591-594. 1966. SF223.15 1966 v.1
- 64564 BERGER, H. Timely market regulation. (Ge) Osterr. Milchwirt. 23(1,beilage 1):1-3. Jan.7, 1968. 44.8 Os72
- 64565 BEYER, H. Hydraulic bases and problems of milk transportation in plastic pipes. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:533-542. 1966. SF223.15 1966 v.1  
English summary, p.763
- 64566 BIGORRE, R. Dairy propaganda and research. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:283-289. 1966. SF223.15 1966 v.5  
English summary, p.846.
- 64567 COLLETT, W. Current bargaining strengths and weaknesses in processor relationship. Nat. Bargaining Conf. Proc., 11th Conf.:86-90. 1967. A280.39 C76  
Cooperatives.
- 64568 DENNINGTON, D. New training aid for dairy salesmen. Dairy Indus. 33(3):176-177. Mar. 1968. 44.8 D1427
- 64569 GRIGGS, C. L. Let's get surplus production off our backs! Hoard's Dairyman 113(7):441. Apr.10,1968. 44.8 H65  
Milk marketing.
- 64570 HADLAND, G., and SOLBERG, P. Quality of farm bulk milk by 3-4 days' collection. Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:343-348. 1966. SF223.15 1966 v.1
- 64571 HAGG, K. Drinking milk in the beverage supply contest. (Ge) Deut. Milk.-Zeitung 89(7):229-230. Feb.15,1968. 44.8 Su2
- 64572 HARTLEY, H. J. What's new in the American Agricultural Marketing Association? Nat. Bargaining Conf. Proc., 11th Conf.:61-65. 1967. A280.39 C76  
Policies.
- 64573 JOHNSON, S. Collective bargaining in milk marketing. J. Farm Econ. 49(5):1376-1384. Dec.1967. 280.8 J822



- 64574 KIEFER, A. The background of dairy and market concentration. (Ge) *Molk.-Kaserei-Zeitung* 19(6):189-192. Feb.7,1968. 44.8 M736
- 64575 KOENEN, K. Transportation of raw milk in plastic pipes from production center to dairy. (Ge) *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. A:543-547. 1966. SF223.I5 1966 v.1 English summary, p.764.
- 64576 KRUSEBAEK-JENSEN, K. Sales promotion for milk and dairy products on the home market. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. E/F:295-303. 1966. SF223.I5 1966 v.5 Denmark.
- 64577 MOEDE, H. H. Costs, sales and the market for filled and imitation dairy products. *Milk Dealer* 57(6):14-16. Mar.1968. 44.8 M595
- 64578 MORRIS, D. Should we organize three large co-ops? *Hoard's Dairyman* 113(5):265,303,308. Mar.10,1968. 44.8 H65
- 64579 NEU, F. A., and others. Point and counterpoint on filled, imitation milk products. *Milk Dealer* 57(6):6-8,29-30. Mar.1968. 44.8 M595
- 64580 PETERSEN, E. O. A study on various systems of milk collection with special reference to costs. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. A:583-589. 1966. SF223.I5 1966 v.1
- 64581 PROCTOR, F. Sales of liquid milk in England and Wales. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. B:651-654. 1966. SF223.I5 1966 v.2
- 64582 ROUSSEAU, M. J. The professional dairy press and cooperative publicity. (Fr) *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. E/F:291-294. 1966. SF223.I5 1966 v.5 English summary, p.847.
- 64583 RYBERG, J. R. How big is the imitation and filled milk products market? *Milk Dealer* 57(6):18-20. Mar.1968. 44.8 M595
- 64584 SEIDLER, K. Factors determining the transport costs of market milk. (Ge) *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. B:643-650. 1966. SF223.I5 1966 v.2 English summary, p.793.
- 64585 SKJERVE, O. Extent of tank transportation of milk in 1970. *Meieriposten* 57(5):93-94. Feb.3, 1968. 44.8 M47
- 64586 SLAGSVOLD, P. The butter and cheese market in 1967. (No) *Meieriposten* 57(2):25-31. Jan.13,1968. 44.8 M47
- 64587 SNIDER, T. E. An economic analysis of equity capital financing in Minnesota dairy cooperatives. *Diss. Abstr.*, Sect. A, 28(6):1958A. Dec. 1967. Z5055.U49D5
- 64588 SPEAKMAN, W. G. Milk advertising and promotion in England and Wales. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. E/F:305-314. 1966. SF223.I5 1966 v.5
- 64589 SURKOV, V., and FOFANOV, J. Transportation of milk in vibrating pipelines. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. A:525-532. 1966. SF223.I5 1966 v.1
- 64590 U. S. CONSUMER AND MARKETING SERV. DAIRY DIV. Packaged fluid milk sales in Federal milk order markets by size and type of containers, and distribution method, during November 1966. U. S. Consum. Marketing Serv. C&MS-11,41 p.,map. Jan.1968. A280.39 C762 Statistics.
- 64591 VOPELIUS, O. Backward and forward look: the turn of the market and wholesale trade. (Ge) *Molk.-Zeitung Welt Milch* 22(1):14-15. Jan.5,1968. 44.8 M735  
The German market in relation to the European Common Market.
- 64592 VOSE, D. A. Market structure, conduct and performance of the Midwest dairy industries. *Diss. Abstr.*, Sect. A, 28(3):856A-857A. Sept.1967. Z5055.U49D5
- 64593 ZENTRALE MARKT- UND PREISBERICHT-STELLE DER DEUTSCHEN LANDWIRTSCHAFT G.M.B.H. Die Agrarmärkte 1966, BR Deutschland, EWG und Weltmarkt: Milch und Milcherzeugnisse [The agricultural markets of the Federal Republic of Germany, the E.E.C. and world market: Milk and dairy products]. Bad Godesberg, 1967. 73 p. 280.38 Ag83 Statistical.  
Includes The Agricultural Markets 1966 within the Framework of the Total Economy, by M. Sackur.

#### Grading, Inspection, Standardization, and Quality

- 64594 BADINGS, H. T. Causes of Ribes flavor in cheese. *J. Dairy Sci.* 50(9):1347-1351. Sept. 1967. 44.8 J822  
Caused by 2-mercapto-2-methyl-pentan-4-one.
- 64595 BADINGS, H. T., STADHOUDERS, J., and DUIN, H. Phenolic flavor in cheese. *J. Dairy Sci.* 51(1):31-35. Jan.1968. 44.8 J822  
Lactobacilli causing p-cresol in Gouda.
- 64596 BECK, G. Quality grading of raw milk. (Ge) *Milchwissenschaft* 22(12):758-760. Dec.1967. 44.8 M5933  
English summary.
- 64597 BRAUND, D. G. Pesticides and the milk supply. *J. Milk Food Technol.* 31(3):83. Mar. 1968. 44.8 J824  
Residues.
- 64598 DUNKLEY, W. L. Milk flavour. 1. As it comes from the cow. *Dairy Indus.* 33(1):19-22. Jan. 1968. 44.8 D1427
- 64599 DUNKLEY, W. L. Milk flavour. 2. Changes during storage and processing. *Dairy Indus.* 33(2):91-94. Feb.1968. 44.8 D1427
- 64600 DUNKLEY, W. L. Milk flavour. 3. Flavour quality control. *Dairy Indus.* 33(3):162-165. Ref. Mar.1968. 44.8 D1427
- 64601 FEAGAN, J. T. Dye-marking as a means of excluding antibiotics in a liquid milk supply. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. A:441-448. Ref. 1966. SF223.I5 1966 v.1
- 64602 FRANKLIN, J. G. The effect of the bacterial quality of raw milk on the subsequent keeping quality of milk after pasteurisation. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. B:499-503. Ref. 1966. SF223.I5 1966 v.2
- 64603 GILLIES, A. J., and CURTIS, C. I. A flavour defect of Queensland Cheddar cheese. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. D:629-632. 1966. SF223.I5 1966 v.4
- 64604 GROSSKLAUS, D. Residues of antibiotics in drinking milk; danger, causes and prevention. (Ge) *Deut. Tierärztl. Wochenschr.* 74(18):462-465. Sept.15,1967. 41.8 D482  
English summary.
- 64605 HADLAND, G. Oxygen measurements as a basis for classification of milk. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. B:233-237. 1966. SF223.I5 1966 v.2
- 64606 HAMANN, R. Organization and situation in standardization of equipment and testing procedures in DNA, ISO, and IMV. (Ge) *Deut. Molk.-Zeitung* 89(4):101-102. Jan.25,1968. 44.8 Su2  
German Standards Committee (Deutsche Normenausschuss), International Dairy Federation, and International Organization for Standardization policies for dairy research.
- 64607 HAUUKA, J., KOKKONEN, P., and ANTILA, M. The quality of Finnish market milk. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. B:509-514. Ref. 1966. SF223.I5 1966 v.2
- 64608 HENRIQUES, T. P., and DIAS, J. C. Classification standards adopted in Portugal for the payment of milk according to its sanitary quality. (Fr) *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. A:609-616. 1966. SF223.I5 1966 v.1  
English summary, p.776.

- 64609 HENRIQUES, T. P., HENRIQUES, R. P., and DIAS, J. C. 10 years of sanitary production of milk in the Lisbon milkshed. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:627-638. 1966. SF223.15 1966 v.1  
English summary, p.780.
- 64610 HORAN, B. M. Quality control and manufacturing technique for export requirements. Australian J. Dairy Technol. 22(4):241-243. Dec. 1967. 44.8 Au74  
Of dairy products.
- 64611 HOYLE, J. B., and CHEESEMAN, T. Bi-directional milk meters for bulk collection tankers. Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:511-516. 1966. SF223.15 1966 v.1
- 64612 HOYLE, J. B., and CHEESEMAN, T. Milk meters and their volumetric calibration using a 250-gallon reference vessel. Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:517-524. 1966. SF223.15 1966 v.1
- 64613 JANZEN, J. J. Flavor and bacteriological quality of market milk obtained in retail outlets. S. C. Agr. Exp. Sta. Circ. 149, 15 p. Dec. 1967. 100 So8
- 64614 JENKINS, D. I. Payment for milk on a compositional quality basis in England and Wales. Int. Dairy Congr. [Proc.], 17th Congr., Sect. A: 645-650. 1966. SF223.15 1966 v.1
- 64615 KEENAN, T. W., BODYFELT, F. W., and LINDSAY, R. C. Quality of commercial buttermilks. J. Dairy Sci. 51(2):226-227. Feb. 1968. 44.8 J822
- 64616 KEILLING, J., CASALIS, J., and MAURO, N. M. On the surface canker of firm paste cheeses. (Fr) Tech. Lait. 582:17-18. Feb. 10, 1968. 44.8 Of2
- 64617 KEILLING, J. The quality of cooked paste cheese. (Fr) Tech. Lait. 582:13, 15. Feb. 10, 1968. 44.8 Of2  
So-called Glaesler cheese defect.
- 64618 KEILLING, J., and others. Role of the physical state of cheese fats: two-color cheeses. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D: 395-404. Ref. 1966. SF223.15 1966 v.4  
A. Camus, P. Laniesse, M. Blanchet, J. Burdin, and F. Lempereur, joint authors.  
English summary, p.845.  
A defect.
- 64619 KIELWEIN, G. Udder health and quality payment. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:651-655. Ref. 1966. SF223.15 1966 v.1  
English summary, p.784.
- 64620 KIERMEIER, F. Influence of outside factors on milk quality. (Ge) Molk.-Zeitung Welt Milch 22(1):5-7. Jan. 5, 1968. 44.8 M735
- 64621 KOCH, G. The testing of fresh cheese in consumer packages by the German Agricultural Society [Deutsche Landwirtschafts-Gesellschaft]. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:667-673. 1966. SF223.15 1966 v.4  
English summary, p.899.
- 64622 KOENEN, K., and RUHNAU, B. Marking of skim-milk powder for feeding purposes. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:265-267. 1966. SF223.15 1966 v.5  
English summary, p.843.  
Coloring of milk that has been stored too long.
- 64623 KRUGER, W., CERSOVSKY, H., and SONNTAG, S. Comparative investigations of various procedures of measurement and testing in the receipt of raw milk from collecting points in tank trucks. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:501-509. 1966. SF223.15 1966 v.1  
English summary, p.758.
- 64624 LEALI, L., BENINATI, F., and PASTORE, M. Payment according to quality at the Central Dairy of Milan. Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:621-626. 1966. SF223.15 1966 v.1
- 64625 LENNINGTON, K. R. Status and review of the Samonella program. Food Drug Cosmet. Law J. 22(12):655-659. Dec. 1967. 389.58 F732  
In food and drugs; program of the U. S. Food and Drug Administration.
- 64626 LONGO, L. P. "Make-believe milk"—a reason to rally or retreat? Hoard's Dairyman 113(4): 190-191. Feb. 25, 1968. 44.8 H65  
Filled and imitation milk.
- 64627 MACHTIN, D. I. Improving method of milk standardization, according to protein in milk, used for manufacturing of cheese. (Rus) Moloch. Prom. 2:19-20. Feb. 1968. 44.8 M734
- 64628 MAGNUSSON, F. Observations on the rancidity of raw milk. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:331-333. 1966. SF223.15 1966 v.2  
English summary, p.726.
- 64629 MAGNUSSON, F., STORGARDS, T., and LINDQVIST, B. The quality of raw milk with 2-day bulk collection. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:357-367. 1966. SF223.15 1966 v.1  
English summary, p.729.  
Sweden.
- 64630 MAIR-WALDBURG, H. Results of the DLG testing for processed milk products 1967. (Ge) Deut. Molk.-Zeitung 89(4):109, 111-112. Jan. 25, 1968. 44.8 Su2
- 64631 MCGUGAN, W. A., and EMMONS, D. B. Unusual flavor defect in cheese similar to the odor of feline urine (*Felis libyca domestica*). J. Dairy Sci. 50(9):1495-1496. Sept. 1967. 44.8 J822
- 64632 MIHELIC, F., and others. Contribution to the study of the influence of ascorbic acid on the keeping quality and biological value of dried milk. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:197-202. 1966. SF223.15 1966 v.5  
A. Petricic, M. Filajdic, D. Vilicic, and V. Vojnovic, joint authors.  
English summary, p.829.
- 64633 MULDER, H., GEURTS, T. J., and LANGAUER, J. An observation on the spontaneously developing oxidized flavour in milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:313-316. 1966. SF223.15 1966 v.2
- 64634 OLSEN, S. J. Cell counts in connection with payment for quality of milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:373-378. 1966. SF223.15 1966 v.1
- 64635 PIRAUX, E. F. Relation between butter quality and laboratory criteria. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:401-409. Ref. 1966. SF223.15 1966 v.3  
English summary, p.569.
- 64636 PONT, E. G., and ROGERS, W. P. Oily flavour in sweet-cream butter. Australian J. Dairy Technol. 22(4):196-201. Ref. Dec. 1967. 44.8 Au74
- 64637 RIEST, U. Problems of quality in the California dairy industry. (Ge) Molk.-Zeitung Welt Milch 22(1):11-13. Jan. 5, 1968. 44.8 M735  
Oxidation and bacteria.
- 64638 RIEST, U. Quality problems of the California dairy industry. (Ge) Molk.-Zeitung Welt Milch 21(51/52):1589-1590. (Cont.) Dec. 22, 1967. 44.8 M735
- 64639 RIVA, A., and SCHIAVONE, E. L. Milk standardization; decree law No. 6640/63. (Sp) Indus. Leche. 49(577):209-212, 214. (Cont.) Aug. 1967. 44.8 In26  
Argentina.
- 64640 RIVA, A., and SCHIAVONE, E. L. Standardization of milk; decree-law No. 6640/63; comments; bacteriological grading of milk, bases and bills. (Sp) Indus. Leche 49(578):241-244, 246. (Cont.) Sept. 1967. 44.8 In26  
Argentina.
- 64641 SCHALLIBAUM, U. Report on the St. Gallen alpine milk awards 1967. (Ge) Schweiz. Milchzeitung 94(18):134-135. Mar. 1, 1968. 44.8 Sch92



- 64642 SCHULZE, A. High quality whipped cream through specialization. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:369-374. 1966. SF223.15 1966 v.5  
English summary, p.859.
- 64643 SERVAIS, J. L. Belgian experience in payment for milk and cream according to quality. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. A: 639-643. 1966. SF223.15 1966 v.1  
English summary, p.782.
- 64644 STONE, W. K., and NAFF, D. M. Increases in soluble nitrogen and bitter flavor development in cottage cheese. J. Dairy Sci. 50(9): 1497-1500. Ref. Sept.1967. 44.8 J822
- 64645 SYLVAN, E., MARCUSE, R., and JOOST, K. Taste threshold values and accuracy in grading butter. Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:411-417. 1966. SF223.15 1966 v.3
- 64646 TASMANIA, DEPT. OF AGRICULTURE. ENTOMOLOGY DIV. Pesticide residues in dairy produce. Tasmanian J. Agr. 38(4): 318-319. Nov.1967. 23 T182T
- 64647 TERPLAN, G., and ZAADHOF, K. J. On the incidence and detection of inhibitors in milk. A short review. (Ge) Milchwissenschaft 22(12): 761-771. Dec.1967. 44.8 M5933  
English summary.  
Review of the literature.  
Antibiotics.
- 64648 TWETEN, L. R. From butter to whey—dairy products earn their grades. Agr. Marketing [Washington] 13(3):12. Mar.1968. A280.38 Ag8
- 64649 VITKOVIC, D., and RASIC, J. System of payment for milk according to quality in Yugoslavia. Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:617-620. 1966. SF223.15 1966 v.1
- Packing and Packaging
- 64650 BREIL, J. Consumer milk in receptacles of more than a liter. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:79-83. 1966. SF223.15 1966 v.2  
English summary, p.671.
- 64651 CONOCHIE, J., and SUTHERLAND, B. J. Factors affecting the transmission of oxygen into packages of rindless cheese. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:75-81. 1966. SF223.15 1966 v.4
- 64652 DEARDEN, K. H., and WARRINGTON, E. The aseptic filling of milk into glass bottles. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B: 619-626. 1966. SF223.15 1966 v.2
- 64653 DOLBY, R. M. Studies on film-wrapped Cheddar cheese. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:67-74. 1966. SF223.15 1966 v.4
- 64654 FISKER, A. N., and PEDERSEN, H. C. Investigations on the suitability of various cup-shaped containers for the retail packing of butter. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:103-112. 1966. SF223.15 1966 v.3  
English summary, p.499.
- 64655 FLUCKIGER, E., and HEUSCHER, E. Investigations on the oxygen permeability of non-returnable packages for milk. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:71-78. Ref. 1966. SF223.15 1966 v.2  
English summary, p.670.
- 64656 HANSEN, R. The milk goblet idea can be developed in several directions. (Da) Nord. Mejeri-Tidsskr. 33(10):195-196. 1967. 44.8 N752
- 64657 KISS, E., EROSS, E., and MARKUS, P. Swelling of cans containing white cheese. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D: 143-148. 1966. SF223.15 1966 v.4  
English summary, p.797.
- 64658 KRINGLEBOTN, I. A test predicting permanence of bond in wax-laminated butter wrappings. Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:121-124. 1966. SF223.15 1966 v.3
- 64659 PEDERSEN, A. H., and FISKER, A. N. Investigation on the protective qualities of various methods of packing in portions. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. C: 113-120. Ref. 1966. SF223.15 1966 v.3  
English summary, p.501.
- 64660 PETRICIC, A., and BAKOVIC, D. The influence of the protective plastic coating "Casopak" on the ripening of Trappist cheese. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:83-86. 1966. SF223.15 1966 v.4
- 64661 QUACKENBUSH, D. W. The analysis and solution of two paper mill problems. Microscope 16(1st Qtr.):21-31. Jan.1968. 440.8 M584  
Detecting defects in paperboard milk cartons and their polyethylene coatings.
- 64662 STEHLE, G. The influence of packing on the ripening of Camembert. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:87-96. Ref. 1966. SF223.15 1966 v.4  
English summary, p.783.
- Prices, Price Control, and Rationing
- 64663 ALBERTARIO, P. Unification of milk prices. (It) G. Agr. 78(9):95-96. Mar.3,1968. 16 It1G  
In the countries of the Common Market.
- 64664 CATALA, C. The producers of sheep milk have good reasons to hope. (Fr) Mouton 23(1): 1-2. Jan.1968. 45.8 M86  
Prices.
- 64665 EMERY, H. J. Federal support of prices to farmers for milk in the United States. Int. Dairy Congr. [Proc.], 17th Congr., Sect. A: 603-608. 1966. SF223.15 1966 v.1
- 64666 GARNER, J. Canadians hold line on price request: \$5 for manufacturing milk. Hoard's Dairyman 113(4):234-235. Feb.25,1968. 44.8 H65
- 64667 HANSEN, R. Can a common European milk protein price prepare our way to the European Common Market? (Da) Nord. Mejeri-Tidsskr. 34(1):13-14. 1968. 44.8 N752  
Text also in German.
- 64668 MUCKE, H. The problem of milk price equalization. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:595-601. 1966. SF223.15 1966 v.1  
English summary, p.774.
- Processing and Storage
- 64669 ABBOT, J., and WAITE, R. Characterization of the ease of reconstitution of milk powders; nomenclature and tests. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:203-207. 1966. SF223.15 1966 v.5
- 64670 ACETO, N. C., and others. Storage aspects of continuous vacuum foam-dried whole milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:189-196. Ref. 1966. SF223.15 1966 v.5  
J. C. Craig, R. K. Eskew, and F. B. Talley, joint authors.
- 64671 AIGNER, M. Practical experiences with various cooling systems at milk collecting points. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:491-496. 1966. SF223.15 1966 v.1  
English summary, p.756.
- 64672 ALAIS, C., JOLLES, P., and KIGER, N. Deterioration of milk proteins in the course of heating. I. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:341-348. 1966. SF223.15 1966 v.2  
English summary, p.729.
- 64673 ALEXEEV, A. Means and ways of improving the quality of cheeses and accelerating the process of their ripening. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:451-454. 1966. SF223.15 1966 v.4

- 64674 ANATSKAYA, A. G. Drying pure culture of aroma-forming bacteria, using pulverizing method. (Rus) *Moloch. Prom.* 2:10-11. Feb. 1968. 44.8 M734  
Preparation of butter starters with *Streptococcus diacetylactis*.
- 64675 ANDERSEN, K. L. Milk cooling by producers in Denmark. (Ge) *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. A:549-553. 1966. SF223.15 1966 v.1  
English summary, p.765.
- 64676 ANNIBALDI, S. Tests related to the use of milk from Harvestore ensilage in the manufacture of some types of cheeses. (Fr) *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. D: 215-225. Ref. 1966. SF223.15 1966 v.4  
English summary, p.811.
- 64677 ANTILA, V., MALKAMAKI, J., and ANTILA, M. Butter manufacture with the emulsifier method. (Ge) *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. C:71-74. 1966. SF223.15 1966 v.3  
English summary, p.491.
- 64678 ARMSTRONG, D. L. Today's manufacturing trends in Australia and New Zealand. *Dairy Indus.* 33(2):95-97. Feb.1968. 44.8 D1427
- 64679 ASTHON, I. R. Methods of control applied in the aseptic production of milk. (Sp) *Indus. Leche.* 49(577):220-224. Aug.1967. 44.8 In26  
Discusses the difference between pasteurization and sterilization.
- 64680 BABB, E. M., and FRENCH, C. E. An application of simulation procedures for production control in a cheese plant. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. D:709-712. 1966. SF223.15 1966 v.4
- 64681 BELOUSSOV, A. P., and VERGELESSOV, V. M. Role of polymorphism in the structure formation processes of butter making. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. C: 241-251. Ref. 1966. SF223.15 1966 v.3
- 64682 BENTELE, H. Important savings in the manufacture of Camembert. (Fr) *Rev. Lait. Franc.* 250:34-36. Jan.1968. 44.8 In2
- 64683 BERGERE, J. L. Mass production of lactic streptococci cells. I. General methods of study and growth factors of *Streptococcus lactis* strain C10. (Fr) *Lait* 48(471/472):1-11. Ref. Jan./Feb.1968. 44.8 L143  
English summary.
- 64684 BERGERE, J. L., and HERMIER, J. Mass production of lactic streptococci cells. II. Growth of *Streptococcus lactis* in a medium with constant hydrogen-ion concentration. (Fr) *Lait* 48 (471/472):13-30. Ref. Jan./Feb.1968. 44.8 L143  
English summary.
- 64685 BIANCHI, E., and ZANNONI, L. A new processing system. 1. Technological possibilities in regard to the raw materials available in Italy and the properties of the manufactured products. (Ge) *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. D:169-172. 1966. SF223.15 1966 v.4  
English summary, p.802.  
Processed cheese.
- 64686 BIANCHI, E., KALOXILOS, R., and TSANAKTSIS, A. A new processing system. 2. Technological possibilities in regard to the raw materials available in Greece and the properties of the manufactured products. (Ge) *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. D: 173-174. 1966. SF223.15 1966 v.4  
English summary, p.803.  
Processed cheese.
- 64687 BILLS, D. D., and KEENAN, T. W. Method for preparing sterile solutions of volatile organic compounds. *J. Dairy Sci.* 50(9):1500-1501. Sept.1967. 44.8 J822
- 64688 BINGHAM, R. J., and others. Innovations in cultured buttermilk processing techniques. *Southern Dairy Prod. J.* 82(2):38-44. Feb.1968. 44.8 So83
- 64689 BOLLIGER, O. Manufacture of Emmental cheese from milk refrigerated 36 or 48 hours. (Ge) *Molk.-Zeitung Welt Milch* 22(3):61-65. Ref. Jan.19,1968. 44.8 M735
- 64690 BOLLIGER, O. Report on the results of a second large experiment with the interval between finishing of silage feeding and beginning of cheese manufacture shortened to four weeks. (Ge) *Schweiz. Milchzeitung* 92(20):149-150. Mar.8,1968. 44.8 Sch92  
Effects on the quality of cheese.
- 64691 BOTTAZZI, V., and CORRADINI, C. "Grana" cheese manufactured with milk containing formaldehyde. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. D:121-124. 1966. SF223.15 1966 v.4
- 64692 BOTTAZZI, V., and BATTISTOTTI, B. Manufacture of Provolone cheese with micrococci. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. D: 571-574. 1966. SF223.15 1966 v.4
- 64693 BOTTAZZI, V. Microbiology of natural starters used in cheese manufacture. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. D:509-513. Ref. 1966. SF223.15 1966 v.4
- 64694 BOTTAZZI, V., and others. Ultra treatment of milk in a plate plant with indirect heating. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. B:45-50. 1966. SF223.15 1966 v.2  
B. Battistotti, E. Bonomi, and A. Balducci, joint authors.
- 64695 BREIL, J. UHT treatment apparatus supplementing conventional pasteurizing apparatus. (Fr) *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. B:597-600. 1966. SF223.15 1966 v.2  
English summary, p.781.
- 64696 BUCHANAN, R. A., and SMITH, D. R. Recombined whipping cream. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. E/F:363-367. 1966. SF223.15 1966 v.5
- 64697 BUDARINA, M. Physiological and biochemical properties of lactic acid bacteria growing on late stages of Kostroma cheese ripening. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. D: 567-570. 1966. SF223.15 1966 v.4
- 64698 BURTON, H. The effect of forewarming on the formation of deposits from separated milk on a heated wire. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. B:607-612. 1966. SF223.15 1966 v.2
- 64699 CERISOVSKY, H., and NEUBERT, S. The use of modern milk cooling procedures in agriculture with attention to hygienic, cold technology, technological, economic viewpoints. (Ge) *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. A: 555-556. Ref. 1966. SF223.15 1966 v.1  
English summary, p.767.
- 64700 CHAKRAVORTY, S. C., and others. Comparative study of proteolysis during ripening of Cheddar cheese by bacterial milk clotting enzymes and rennet extract. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. D:187-198. Ref. 1966. SF223.15 1966 v.4  
R. A. Srinivasan, I. J. Babbar, A. T. Dudani, S. D. Burde, and K. K. Iya, joint authors.
- 64701 CHAPMAN, H. R., MABBITT, L. A., and SHARPE, E. M. Apparatus and techniques for making cheese under controlled bacteriological conditions. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. D:55-60. 1966. SF223.15 1966 v.4
- 64702 CHKHAIDZE, D. Some peculiarities of Tushinsky cheese ripening. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. D:125-130. Ref. 1966. SF223.15 1966 v.4
- 64703 CIBLIS, E. Contribution to the freeze-drying of lactic acid bacteria. (Ge) *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. C:387-393. 1955. SF223.15 1966 v.3  
English summary, p.565.  
For starters.



- 64704 CIBLIS, E. Control of bacteriophages of *Streptococcus thermophilus*. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:395-400. 1966. SF223.15 1966 v.3  
English summary, p.567.  
In yoghurt manufacture.
- 64705 COOPER, H. C. Developments in the automation of dairy processes. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:565-571. 1966. SF223.15 1966 v.2
- 64706 COSGROVE, C. J. Chocolate America's second favorite flavor. Amer. Dairy Rev. 30(3):40,89-91. Mar.1968. 44.8 Am38  
Ice cream mixes.
- 64707 CRITTALL, G. G. Preparation of a dry cake topping mix using butterfat and skim-milk solids. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:269-271. 1966. SF223.15 1966 v.5
- 64708 CROSSLEY, E. L., and GRAHAM, P. A. Microbiological changes during the storage of sweetened condensed milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:167-172. 1966. SF223.15 1966 v.5
- 64709 DAMEROW, G. Machinery for the pasteurization of butter. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:431-440. Ref. 1966. SF223.15 1966 v.3  
English summary, p.574.
- 64710 DANILS, H. Aspects on bulk collection. Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:497-499. 1966. SF223.15 1966 v.1
- 64711 DELBEKE, R. Comparative study of two techniques of manufacturing Cheddar cheese and their influence on the quality of the cheese. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:101-108. 1966. SF223.15 1966 v.4  
English summary, p.786.
- 64712 DE MAN, J. M. Effect of ortho- and polyphosphates on milk stability as measured by rennet coagulation time. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:365-370. Ref. 1966. SF223.15 1966 v.2
- 64713 DE SA, F. V., and AGUAS, J. P. M. The influence of potassium chlorate on the microflora of milk and its consequences on the quality of cheese made with raw milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:659-665. 1966. SF223.15 1966 v.4
- 64714 DE STOUTZ, W. P. "Actinization" of milk; electric pasteurization on the farm in collection centers. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:567-574. 1966. SF223.15 1966 v.1  
English summary, p.769.
- 64715 DEVOYOD, J. J., and BRET, G. Changes in the microbial flora during the processing and ripening of Roquefort cheese. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:585-594. Ref. 1966. SF223.15 1966 v.4  
English summary, p.884.
- 64716 DIMOV, N., and MINEVA, P. New kind of cheese from ewe's milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:139-142. 1966. SF223.15 1966 v.4  
Manufacture.
- 64717 DIMOV, N., and MINEVA, P. Utilization of ferments in processed cheese production. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:175-180. 1966. SF223.15 1966 v.4
- 64718 DIXON, B. D. Spreadability of butter: pilot reworking studies. Australian J. Dairy Technol. 22(4):202-208. Ref. Dec.1967. 44.8 Au74
- 64719 DOLBY, R. M., JEBSON, R. S., and LE HERON, B. S. Fritz-process buttermaking as applied to New Zealand cream. Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:43-48. 1966. SF223.15 1966 v.3
- 64720 DOLEZALEK, J. Proteolytic activity of *Streptococcus lactis*, *Streptococcus cremoris*, *Streptococcus diacetylactis*, *Lactobacillus helveticus* and *L. casei*. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:523-526. 1966. SF223.15 1966 v.4  
Cheese ripening organisms.
- 64721 DOLEZALEK, J., and BARTUSKOVA, M. A study on the microflora and ripening of "beer cheese" (cheese with white smear on the surface). Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:151-154. 1966. SF223.15 1966 v.4
- 64722 D'YACHENKO, P. F., and SHIDLOVSKAYA, V. P. Investigating cheese-making activities of combined starters. (Rus) Moloch. Prom. 1:10-13. Ref. Dec.1968. 44.8 M734
- 64723 DYLANYAN, Z., and others. Investigations of the ripening process of Swiss cheese by zone electrophoresis and paper chromatography. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:301-306. 1966. SF223.15 1966 v.4  
A. Agababyan, J. Ioanissyan, and L. Zakhar-yan, joint authors.
- 64724 EMCH, F., and ZOLLIKOFER, E. Studies on the technical equipment for centralized Emmental cheese ripening. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:701-706. 1966. SF223.15 1966 v.4  
English summary, p.903.
- 64725 ERESKO, G. Studies on heat exchange by direct steam heating of milk liquids. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B, 51-55. 1966. SF223.15 1966 v.2
- 64726 EYRARD, A., and ODET, G. Methods of manufacture (technology) of various types of consumer milk. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:21-27. 1966. SF223.15 1966 v.2  
English summary, p.657.  
Pasteurization and packing.
- 64727 FEHER, K. The Hungarian Dairy Experimental Institute [Magyar Tejgazdasági Kísérleti Intézet]. (Hu) Magyar Mezőgazdaság 23(12):18-19. Mar.20,1968. 19 M27  
At Mosonmagyaróvár.
- 64728 FENIGER, I., and JANKIELEWICZ, C. Manufacture of soft white cheese from skimmilk powder by continuous separation. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:161-168. 1966. SF223.15 1966 v.4
- 64729 FEJA, J., and ROSENBAUM, M. Possibilities of automatically regulating the water content in the continuous 4MVCS butter manufacture device. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:421-430. 1966. SF223.15 1966 v.3  
English summary, p.573.
- 64730 FORD, J. E., and PORTER, J. W. G. The availability of some essential amino acids in commercial sterilized milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:357-360. Ref. 1966. SF223.15 1966 v.2
- 64731 FOREST, H. L. Growth of farm tank milk in the United States. Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:577-582. 1966. SF223.15 1966 v.1
- 64732 FRANKLIN, J. G. Laboratory methods for pasteurising milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:515-522. Ref. 1966. SF223.15 1966 v.2
- 64733 GALESLOOT, T. E., HASSING, F., and STADHOUDERS, J. Differences in phage sensitivity of starters propagated in practice and in a dairy research laboratory. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:491-498. 1966. SF223.15 1966 v.4
- 64734 GANCULI, N. C., GUPTA, B. S., and BHALLERAO, V. R. Effect of storage on the proteose-peptone content of milk in relation to other milk proteins. Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:301-306. Ref. 1966. SF223.15 1966 v.1
- 64735 GARG, B. M. L., and VERMA, I. S. Breakdown of milk fat in cheese ripening. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:343-348. 1966. SF223.15 1966 v.4
- 64736 GEHRIGER, G. The manufacture of lyophilized dry cultures of lactic acid bacteria important in cheese manufacture. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:447-450. 1966. SF223.15 1966 v.4  
English summary, p.855.

- 64737 GENIN, G. Rennet substitutes. (Fr) Lait 48 (471/472):53-59. Jan./Feb.1968. 44.8 L143
- 64738 GNATCHENKO, S. K., and DROZDOVA, G. N. New methods of melting butter. (Rus) Moloch. Prom. 1:36-37. Dec.1968. 44.8 M734
- 64739 GORNER, F., PALO, V., and BERTAN, M. Changes of the content of volatile substances during ripening of yoghurt. (Ge) Milchwissenschaft 23(2):94-100. Ref. Feb.1968. 44.8 M5933  
English summary.
- 64740 GUTTFELD, M., and ROSENFELD, P. Re-combined milk and dairy products produced from milk powder and vegetable fat in Israel and its significance for other developing countries. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:27-29. 1966. SF223.15 1966 v.5
- 64741 HABAJ, B., and others. Effect of different strains of starter bacteria on the quality and the texture of Edam cheese. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:471-482. Ref. 1966. SF223.15 1966 v.4  
S. Poznanski, T. Rapczynski, and J. Rymaszewski, joint authors.
- 64742 HABAJ, B., and others. Formation dynamics of some compounds in starter cultures originating from various countries. Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:329-336. Ref. 1966. SF223.15 1966 v.3  
K. Habaj, T. Rapczynski, and M. Rusiecki, joint authors.
- 64743 HABAJ, B., HNATKOWSKA, M., and RAPCZYNSKI, T. The influence of some properties of bacteriophages on the difficulties of controlling fermentation troubles. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:483-490. Ref. 1966. SF223.15 1966 v.4  
Cheese manufacture.
- 64744 HABAJ, B., RAPCZYNSKI, T., and TOMASIK, K. On possibilities of preparing mother cultures to be stored for several days. Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:361-366. 1966. SF223.15 1966 v.3  
Starters.
- 64745 HABERKAMP, A. Knowledge obtained by advisory work on mechanical sour cream butter manufacture. (Ge) Molk.-Kaserei-Zeitung 19 (2):35-37. Jan.10,1968. 44.8 M736
- 64746 HABERKAMP, A. Recent knowledge in butter manufacture advisory work. (Ge) (Extr.) Deut. Molk.-Zeitung 89(2):39-41. Jan.11,1968. 44.8 Su2
- 64747 HALLSTROM, B. Thermodynamic relationship in milk heat treatment systems of steam injection type. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:601-606. 1966. SF223.15 1966 v.2
- 64748 HANSEN, E. A. Continuous butter manufacture; manufacture of salted butter. Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:39-41. 1966. SF223.15 1966 v.3
- 64749 HAYASHI, H. Study of atomization by the milk centrifugal atomizer. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:177-188. 1966. SF223.15 1966 v.5
- 64750 HEDRICK, T. I., SCHÄNDERL, S. H., and HUNTER, W. B. Cherry utilization in dairy products. Amer. Dairy Rev. 30(3):42-43,76. Mar.1968. 44.8 Am38
- 64751 HEDRICK, T. I., and STINE, C. M. Freezing rate studies on continuous ice cream freezer. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:429-433. 1966. SF223.15 1966 v.5
- 64752 HELDMAN, D. R., HALL, C. W., and HEDRICK, T. I. Air filtration for the spray drying of dairy products. J. Dairy Sci. 51(3):466-470. Mar.1968. 44.8 J822
- 64753 HENDERSON, H. B. Dairy manufacturing in a dairy science department. J. Dairy Sci. 51(2):259-262. Feb.1968. 44.8 J822  
Teaching.
- 64754 HERZ, W. The influence of deep cooling on milk quality. (Ge) Deut. Molk.-Zeitung 88(47):1921-1924. Ref. Nov.23,1967. 44.8 Su2
- 64755 HOLLAND, R. F. Flavored milks and milk drinks. Amer. Dairy Rev. 30(3):38,77-81. Mar.1968. 44.8 Am38
- 64756 HUTIN, G., and STENNE, P. Cheese making with concentrated milk. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:39-42. 1966. SF223.15 1966 v.4  
English summary, p.770.
- 64757 HUTIN, G., and STENNE, P. Concentrated milk in cheese manufacture. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:43-47. 1966. SF223.15 1966 v.4  
English summary, p.771.
- 64758 IWADA, M., HAYASAWA, H., and TSUGO, T. Studies on the determination of the aroma compounds produced by Streptococcus diacetylactis. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:379-386. Ref. 1966. SF223.15 1966 v.4  
Cheese starter.
- 64759 JAGER, H. Milk as raw material in hard cheese manufacture. (Ge) Deut. Molk.-Zeitung 89(5):155-158. Feb.1,1968. 44.8 Su2
- 64760 JAKOVLEV, D., and SHMELEVA, L. Bacteriophage in continuous culture of lactic acid streptococci. Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:375-385. Ref. 1966. SF223.15 1966 v.3  
For starters.
- 64761 JAKUBOWSKI, J., and REPS, A. The migration of water and minerals in cheese caused by salting. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:365-372. 1966. SF223.15 1966 v.4  
English summary, p.840.
- 64762 JAMOTTE, P. Recent trends in the continuous manufacture of butter in Belgium. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:75-82. 1966. SF223.15 1966 v.3  
English summary, p.492.
- 64763 JOHANSSON, S., and SWARTLING, P. The effect of de-aeration on the consistency of butter. Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:27-31. Ref. 1966. SF223.15 1966 v.3  
Cream processing for butter manufacture.
- 64764 JOHANSSON, S. Removal of chive taint from cream for buttermaking by means of the Alfa-Laval vacu-therm de-aerator. Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:21-26. Ref. 1966. SF223.15 1966 v.3
- 64765 JOOST, K., BERTELSEN, E., and BRESBY, G. Some factors influencing skimming efficiency. Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:461-465. 1966. SF223.15 1966 v.3
- 64766 JORGENSEN, H. The influence of cheese technology on the characteristic and the quality of cheese. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:49-53. 1966. SF223.15 1966 v.4
- 64767 JUREIT, S. Comparison of fresh cheese manufacture costs. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:749-756. 1966. SF223.15 1966 v.4  
English summary, p.911.
- 64768 KACHERAUSKIS, D. Effect of re-esterification on physical and mechanical properties of manufactured milk fat. Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:161-166. 1966. SF223.15 1966 v.3
- 64769 KETTING, F., and SZABO, G. The influence of heat treatment on the chemical and microbial properties of Kaschkawal cheese. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:131-138. Ref. 1966. SF223.15 1966 v.4  
English summary, p.793.
- 64770 KHURODY, D. N. Preparation and marketing of toned and double toned milks. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:67-70. 1966. SF223.15 1966 v.2  
Buffalo's milk with reconstituted skim milk.
- 64771 KIKUCHI, T. Observations on Camembert cheese ripening. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:313-319. Ref. 1966. SF223.15 1966 v.4



- 64772 KING, D. W. The economics of the mechanisation of Cheddar cheese manufacture. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D: 723-728. Ref. 1966. SF223.15 1966 v.4
- 64773 KISZA, J., SOBINA, A., and ZBIKOWSKI, Z. Retention of the available  $\epsilon$ -N-DNP-lysine in evaporated milk and milk powder during processing and storage. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:85-89. Ref. 1966. SF223.15 1966 v.5  
English summary, p.807.
- 64774 KISZA, J., BATURA, K., and KRUK, A. Vitamin A losses in heat treated milk. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F: 91-97. Ref. 1966. SF223.15 1966 v.5  
English summary, p.809.
- 64775 KNAUT, T., KARNICKA, H., and USAJEWICZ, I. The proteolytic properties of lactobacilli. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:515-522. 1966. SF223.15 1966 v.4  
English summary, p.868.  
Starters.
- 64776 KNAUT, T. The survival rate of *Pseudomonas* cells in the peroxide-catalase treatment of milk. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:523-530. Ref. 1966. SF223.15 1966 v.2  
English summary, p.764.
- 64777 KNEZ, V., OLSANSKY, C., and MINARIK, R. Influence of cutter and agitator of the VS 5000 cheese-making machine on the variability of curd grain size. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:689-700. 1966. SF223.15 1966 v.4  
English summary, p.901.
- 64778 KOLK, H. van der. Losses in the separation of powder with dried air. II. (Du) Alg. Zuivelbl. 61(2):21-24. Jan.22,1968. 44.8 AL32  
Milk drying.
- 64779 KOSIKOWSKI, F. V., and O'SULLIVAN, A. C. Bacterial centrifugation of low-grade milk for Cheddar cheese. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:25-32. Ref. 1966. SF223.15 1966 v.4
- 64780 KOSTYGOV, L., and ROGOV, I. Stimulation of fat system separation by means of a uniform electric field of alternating current. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:419-426. 1966. SF223.15 1966 v.2  
Skimming.
- 64781 KROGER, M. Effect of various physical treatments on certain organochlorine hydrocarbon insecticides found in milk fat. J. Dairy Sci. 51(2):196-198. Ref. Feb.1968. 44.8 J822
- 64782 KROL, B. M., and HUMME, H. E. Experiences obtained in estimating the curdling power of rennet in the Netherlands. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:181-186. 1966. SF223.15 1966 v.4
- 64783 KUBIK, S. Analysis of labor costs for producing Tilsit cheese round and in rectangular loaves. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:739-748. 1966. SF223.15 1966 v.4  
English summary, p.909.
- 64784 KUBIK, S. Profitability of concentration of cheese production in Poland. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:757-764, map. 1966. SF223.15 1966 v.4  
English summary, p.912.
- 64785 KUGENEV, P., and MEDVEDEVA, M. Amino acid composition of proteins in preserved milk after 2 years of storage. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:99-102. Ref. 1966. SF223.15 1966 v.5
- 64786 KUTZNER, H. J. Studies on butyric fermentation in semi-hard and hard cheese. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D: 647-658. Ref. 1966. SF223.15 1966 v.4  
English summary, p.897.
- 64787 LAGONI, H., and PETERS, K. H. The frozen storage of milk and cream and its effect on the stability of milk colloids. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:219-224. Ref. 1966. SF223.15 1966 v.3  
English summary, p.527.
- 64788 LANG, F., and LANG, A. The development of new liquid and semi-liquid milk products. 1. Milk Indus. 62(2):26-28. (Cont.) Feb.1968. 44.8 M593
- 64789 LANG, R. Technical methods of safety in the heat treatment of milk. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:581-587. 1966. SF223.15 1966 v.2  
English summary, p.777
- 64790 LANGLOIS, B. E., and RANDOLPH, H. E. Manufacturing practices for chocolate-flavored milk and drink in the United States. J. Dairy Sci. 50(9):1519-1522. Sept.1967. 44.8 J822
- 64791 LAPSHIN, A. A., and VOROB'Yeva, N. I. Increasing firmness and reducing losses, while manufacturing cream butter. (Rus) Moloch. Prom. 1:18-20. Dec.1968. 44.8 M734
- 64792 LEDFORD, R. A., CHEN, J. H., and SHIPE, W. F. Effect of direct steam heating and vacuum treatment on levels of pesticide residues in milk. J. Dairy Sci. 51(2):219-220. Feb. 1968. 44.8 J822
- 64793 LEMBKE, A. Milk research yesterday, today, and tomorrow. (Ge) Molk.-Zeitung Welt Milch 22(3):70-71. Jan.19,1968. 44.8 M735
- 64794 LEVITON, A., and others. Stabilization of frozen milk concentrates with polyphosphates. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:133-140. Ref. 1966. SF223.15 1966 v.5  
J. H. Vestal, H. E. Vettel, and B. H. Webb, joint authors.
- 64795 LEWIS, P. M. A note on the continuous flow culture of mixed populations of lactobacilli and streptococci. J. Appl. Bacteriol. 30(2):406-409. Aug.1967. 44.8 J822  
Yoghurt starter strains.
- 64796 LIKOVNIKOVA, L. A., and KAPOTINA, Z. A. Symbiotic starter with mesophilic lactic acid bacteria, for butter. (Rus) Moloch. Prom. 1: 4-5. Dec.1968. 44.8 M734
- 64797 LINDQVIST, B., and STORGARDS, T. Changes in the serum protein fraction during cold storage of raw milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:297-300. 1966. SF223.15 1966 v.1
- 64798 LIPINSKA, E., and others. Application of nisin powder and nisin resistant strains for prevention of butyric acid fermentation in Tilsit cheese. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:633-640. Ref. 1966. SF223.15 1966 v.4  
E. Roslon, J. Tomaszewska, and A. Swiatek, joint authors.  
English summary, p.893.
- 64799 LUBENAU-NESTLE, R., and MAIR-WALDBURG, H. Differentiation of starter streptococci. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:355-360. Ref. 1966. SF223.15 1966 v.3  
English summary, p.557.
- 64800 LUBENAU-NESTLE, R., and MAIR-WALDBURG, H. Investigations on the bacteriological composition of starters. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:321-327. Ref. 1966. SF223.15 1966 v.3  
English summary, p.550.
- 64801 LUCK, H. Development of a greenish colour in butterfat during prolonged cold storage. Int. Dairy Congr. [Proc.], 17th Congr., Sect. C: 207-209. 1966. SF223.15 1966 v.3
- 64802 LUCZAK, M. Effect of small moderate doses of gamma rays ( $^{60}\text{Co}$ ) on the organoleptic changes and on the vitamins thiamine, riboflavin, cobalamin ( $\text{B}_{12}$ ) and biotin in whole milk powder. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:247-252. Ref. 1966. SF223.15 1966 v.5  
English summary, p.838.

- 64803 LUNDSTEDT, E. Creaming formulas for Cottage cheese. *Cult. Dairy Prod.* J. 2(3):2-6. In *Milk Dealer* 56,i.e.57(5). Feb.1968. 44.8 M595
- 64804 LUTSKOVA, M. Production of vitamin B<sub>12</sub> in form of biomass by means of microbiological synthesis on whey nutrient medium. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. E/F:75-77. 1966. SF223.I5 1966 v.5
- 64805 MAJOR, W. C. T. Butter freed from weed taints. *Queensland Agr. J.* 93(12):754-756. Dec.1967. 23 Q33  
During processing.
- 64806 MAJOR, W. C. T. Removal of cress weed taint during butter manufacture. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. C:33-38. Ref. 1966. SF223.I5 1966 v.3  
Processing of cream for butter manufacture.
- 64807 MANN, E. J. Bactofugation of milk. *Dairy Indus.* 33(3):178-179. Mar.1968. 44.8 D1427  
Review of the literature.
- 64808 MASTAKOV, N. Effect of various conditions of heat treatment on age thickening of preserved milk. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. E/F:151-152. 1966. SF223.I5 1966 v.5  
Sweetened condensed milk.
- 64809 MAXCY, R. B. For protection, quality-clean. *Nebr. Univ. Coll. Agr. Home Econ. Quart. Serving Farm Ranch Home* 11,i.e.14(2):2. Summer 1967. 100 N27N  
Chiefly milk.
- 64810 MCDONOUGH, F. E., HARGROVE, R. E., and TITSLER, R. P. Decolorization of annatto in Cheddar cheese whey. *J. Dairy Sci.* 51(3):471-472. Mar.1968. 44.8 J822
- 64811 MCGILLIVRAY, W. A., and KING, D. W. Manufacture of Cheddar cheese by a mechanised process. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. D:109-114. 1966. SF223.I5 1966 v.4  
MENSHIKOV, N. Acceleration of cheese ripening with increased proportions of lactic acid cultures and introduction of buffer salts. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. D:565-566. 1966. SF223.I5 1966 v.4
- 64813 METZ, H. Danish preserved milk products. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. E/F:173-176. 1966. SF223.I5 1966 v.5
- 64814 MIKOLAJCICK, E. M. Protein changes associated with extended storage of sterile unheated skim milk. *J. Dairy Sci.* 51(3):457-458. Ref. Mar.1968. 44.8 J822
- 64815 MILLER, J. Spray washing of butter. *Australian J. Dairy Technol.* 22(4):213-216. Ref. Dec.1967. 44.8 Au74
- 64816 MIRGORODSKIL, B. G. Production of cheese on the flowing line. (Rus) *Moloch. Prom.* 1:41-43. Dec.1968. 44.8 M734
- 64817 MIRONENKO, A. M. The cheese "Kurortnyi." (Rus) *Moloch. Prom.* 2:31-32. Feb.1968. 44.8 M734  
Processing chiefly.
- 64818 MOL, J. J., and SCHAAP, J. E. Continuous preparation of sterilized and aseptically packed whipped cream; improvement of stability with long-term storage. (Du) *Alg. Zuivelbl.* 61(4):51-53,55. Feb.19,1968. 44.8 AL32
- 64819 MORRIS, T. A. Some effects of shortening the manufacture of Cheddar cheese. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. D:115-120. Ref. 1966. SF223.I5 1966 v.4
- 64820 MULLER, L. L., and KIESEKER, F. G. The manufacture of recombined sweetened condensed milk. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. E/F:141-146. 1966. SF223.I5 1966 v.5
- 64821 MULLER, L. L., and others. The manufacture of specialized casein products. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. E/F:69-74. Ref. 1966. SF223.I5 1966 v.5  
N. S. Snow, J. F. Hayes, and R. A. Buchanan, joint authors.
- 64822 MURPHY, M. F., MULCAHY, M. J., and O'CALLAGHAN, P. A. Some aspects of the manufacture and keeping quality of continuously made sweet-cream salted butter. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. C:91-98. 1966. SF223.I5 1966 v.3
- 64823 NAKANISHI, T., and ITO, R. A study on milk deposit formation on heat exchange surfaces in the UHT system. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. B:613-618. Ref. 1966. SF223.I5 v.2
- 64824 NARAYANAN, K. M., MURTHY, M. K. R., and BHALERAO, V. R. Effect of processing on the phospholipid content of milk fat. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. C:215-218. Ref. 1966. SF223.I5 1966 v.3
- 64825 NIKULICHEV, P. Studies on the process of butter production out of high fat cream. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. C:57-65. 1966. SF223.I5 1966 v.3
- 64826 OLSHANOVA, K., and others. The use of ion exchange resins in the production of preserved milk. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. E/F:147-150. 1966. SF223.I5 1966 v.5  
N. Morozova, A. Divac, and S. Barkan, joint authors.
- 64827 OLSSON, T., and SWARTLING, P. Systems for transferring butter from the churn to the printing machine. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. C:441-446. 1966. SF223.I5 1966 v.3
- 64828 OSTROUMOV, L. A. Ripening of cheese in plastics. (Rus) *Moloch. Prom.* 1:26-27. Dec. 1968. 44.8 M734
- 64829 O'SULLIVAN, A. C. U.H.T. processing; milk to egg nog to diet packs. *Irish Agr. Creamery Rev. (n.s.)* 21(409):5-9. Ref. Jan.1968. 44.8 C866
- 64830 PACK, M. Y., and others. Effect of temperature on growth and diacetyl production by aroma bacteria in single- and mixed-strain lactic cultures. *J. Dairy Sci.* 51(3):339-344. Ref. Mar.1968. 44.8 J822  
E. R. Vedamuthu, W. E. Sandine, P. R. Elliker, and H. Leesment, joint authors.
- 64831 PATKUL', G. M. Methods of obtaining firm bacterial starters. (Rus) *Moloch. Prom.* 1:6-9. Dec.1968. 44.8 M734  
For dairy products.
- 64832 PENEV, P., and PRODANSKI, P. Preparation of a new type of white brined cheese with incorporation of whey proteins without high milk pasteurization. (Fr) *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. D:149-150. 1966. SF223.I5 1966 v.4  
English summary, p.798.  
Bulgaria.
- 64833 POPOVA, T. V. Peculiarities of ripening cheese in the polymer films. (Rus) *Moloch. Prom.* 2:16-19. Feb.1968. 44.8 M734
- 64834 POULSEN, P. R., and JENSEN, G. K. The effect of the storage temperature on the liability of liquid milk to develop oxidized flavour. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. B:325-329. 1966. SF223.I5 1966 v.2
- 64835 POULSEN, N. Efficient butter manufacture with trolley and pump. (Ge) *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. C:447-452. 1966. SF223.I5 1966 v.3  
English summary, p.577.
- 64836 POYARKOVA, G., and others. Microbiological and biochemical processes in the sour cream butter produced by the separation method. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. C:49-56. 1966. SF223.I5 1966 v.3  
Z. Chuzhova, E. Sidorova, N. Makaryina, and V. Aristova, joint authors.
- 64837 POZNANSKI, S., and others. Influence of different starter cultures on the protein breakdown in Edam cheese. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. D:555-564. Ref. 1966. SF223.I5 1966 v.4  
B. Habaj, J. Rymaszewski, and T. Rapczynski, joint authors.



- 64838 PUHAN, Z. Enzymes in obtaining a milk renneting enzyme from *Bacillus subtilis*. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D: 199-204. 1966. SF223.15 1966 v.4 English summary, p.809.
- 64839 PULAY, G. Control of butyric acid fermentation in cheese with egg white. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:641-646. Ref. 1966. SF223.15 1966 v.4 English summary, p.895.
- 64840 QUEST, H. The processing and examination of surfaces over which milk has passed. (Ge) Molk.-Kaserei-Zeitung 19(3):63-66. Jan.17, 1968. 44.8 M736
- 64841 READ, R. B., DICKERSON, R. W., and THOMPSON, H. E. Time-temperature standards for the ultra-high temperature pasteurization of grade A milk and milk products by plate heat exchange. J. Milk Food Technol. 31(3):72-74. Mar.1968. 44.8 J824
- 64842 READING (ENGLAND) UNIVERSITY. NATIONAL INSTITUTE FOR RESEARCH IN DAIRYING. Report for 1966. Shinfield, 1967? 178 p. 44.9 N211
- 64843 RHYN, H. Automatic control of yoghurt and cream acidification by regulation of pH and temperature. (Fr) Rev. Lait. Franc. 250:41-43. Jan.1968. 44.8 In2
- 64844 RITTER, P. Influence of storage temperature upon the activity of propionic acid bacteria culture for Emmentaler cheese. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:551-554. 1966. SF223.15 1966 v.4 English summary, p.875.
- 64845 ROBERTSON, P. S. Bulk starter preparation in New Zealand cheese factories. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:439-446. 1966. SF223.15 1966 v.4
- 64846 ROEHRIG, P. G. Effects of forewarming treatments and additives on properties of sterilized milk concentrate. Diss. Abstr., Sect. B, 28(3):932B. Sept.1967. Z5055.U49D53
- 64847 ROTH, H. T., MARSHALL, R. T., and SCHMIDT, F. F. Solubilization of Cottage cheese curd by alkaline wash waters and its causes. J. Dairy Sci. 51(1):36-39. Jan.1968. 44.8 J822
- 64848 ROTHWELL, J. A preliminary study of the effects of some waters, skim milk, and skim milk powder on the viscosity and pH of ice cream stabiliser solutions. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:387-390. 1966. SF223.15 1966 v.5
- 64849 SAMHAMMER, E., and WERNER, K. The effect of mechanical and heat treatment on viscosity of milk. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:387-392. 1966. SF223.15 1966 v.2 English summary, p.739.
- 64850 SAMUELSSON, E. G., and HOLM, S. Technological principles for ultra-high-heat treatment of milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:57-65. 1966. SF223.15 1966 v.2
- 64851 SCOTT, R. Some studies on plant heat exchangers as used for heat treatment of cheese milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:677-688. 1966. SF223.15 1966 v.4
- 64852 SCHROTER, K. Modern system for cooling, weighing, pneumatic conveying, and storage of powdered milk fat concentrate. (Ge) Molk.-Kaserei-Zeitung 19(8):254-256,258. Feb.21, 1968. 44.8 M736
- 64853 SCHULZ, M. E., and VOSS, E. Manufacture of spreadable dried butter. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:67-69. 1966. SF223.15 1966 v.3 English summary, p.489.
- 64854 SCHULZ, M. E., and VOSS, E. Water-free milk fat as raw material for butter manufacture. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:99-101. 1966. SF223.15 1966 v.3 English summary, p.497.
- 64855 SEELEMANN, M. Milk production and sanitation. (Ge) Molk.-Zeitung Welt Milch 22(4):89-92,94. Jan.26,1968. 44.8 M735
- 64856 SHILER, G. G., and SURKOV, V. D. Burning in milk pasteurization equipment. (Rus) Moloch. Prom. 1:13-16. Dec.1968. 44.8 M734
- 64857 SHMELEVA, L., and JAKOVLEV, D. Continuous culture of lactic acid bacteria. Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:367-374. 1966. SF223.15 1966 v.3
- 64858 SHUTOVA, L., BALASHOVA, R., and SEMONOVA, L. Ripening of rindless cheeses in the atmosphere of inert and active gases. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D: 321-327. 1966. SF223.15 1966 v.4
- 64859 SIEGENTHALER, E. J. A comparative study of the influence of heat treatment and hydrogen peroxide catalase treatment of cheese milk on bacterial count, coliforms and methylene blue reduction time. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:33-38. 1966. SF223.15 1966 v.4 English summary, p.769.
- 64860 SILVERSIDES, H. Cheese making in New South Wales. Agr. Gaz. New S. Wales 78(4):234-235. Apr.1967. 23 N472
- 64861 SIMONART, P., and others. Bactofugation and bacterial flora of Gouda cheese. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D: 21-24. Ref. 1966. SF223.15 1966 v.4 R. Poffe, M. Weckx, and A. van Reusel, joint authors. English summary, p.767.
- 64862 SIPKA, M., and ZAKULA, S. The influence of various holding temperatures on the hygienic quality of pasteurized milk. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:505-508. Ref. 1966. SF223.15 1966 v.2 English summary, p.760.
- 64863 SLANOVEC, T. S., and KERVINA, F. F. The problem of the Emmentaler cheese production in Slovenia. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:97-100. Ref. 1966. SF223.15 1966 v.4
- 64864 SOLCOVA, M., SOLC, P., and MOKRY, Z. The influence of some factors on the pepsin coagulation of milk in vitro. (Ge) Nahrung 12(1): 109-114. Ref. 1968. 389.8 N142 English summary.
- 64865 SOLOVEI, I. M. Experience with application of unified cheese production line. (Rus) Moloch. Prom. 2:28-29. Feb.1968. 44.8 M734
- 64866 SPECK, M. L. Current concepts in lactic cultures. Cult. Dairy Prod. J. 2(3):6-8. In Milk Dealer 56,1.e.57(5). Feb.1968. 41.8 M595
- 64867 STADHOUDERS, J., and LANGEVELD, L. P. M. The microflora of the surface of cheese; factors affecting its composition. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D: 577-584. 1966. SF223.15 1966 v.4 Ripening.
- 64868 STADIE, W. Limits to efficiency in cheese manufacturing. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:729-738. 1966. SF223.15 1966 v.4 English summary, p.908. Tilsit cheese costs.
- 64869 STALBERG, S., and RADAIEVA, I. Effect of various substances inhibiting melanoidin formation in sweetened condensed milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F: 153-157. Ref. 1966. SF223.15 1966 v.5 Browning.
- 64870 STALLINGA, P., and LOKEMA, H. Economic comparisons of dairies. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:713-716. 1966. SF223.15 1966 v.4 Cheese factories.
- 64871 STEINER, C. H. Operating costs in Emmentaler cheese manufacture. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:717-722. 1966. SF223.15 1966 v.4 English summary, p.906.

- 64872 STISTRUP, K., and ANDREASEN, J. Homogenization of ice cream mix. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:375-386. 1966. SF223.15 1966 v.5
- 64873 STORGARDS, T., and ANDERSON, L. Investigations on the influence of disinfectants and antibiotics on multiple strain starters. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D: 461-464. 1966. SF223.15 1966 v.4 English summary, p.858.
- 64874 STORGARDS, T., and MAGNUSSON, F. The properties of cream for churning from milk collected every other day by tankers and their influence on the quality of butter. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. C: 173-178. 1966. SF223.15 1966 v.3 English summary, p.515.
- 64875 STRAND, A. H., BYRE, O., and USTGAARD, O. M. Brine salting of Jarlsberg cheese immediately after pressing. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:155-160. 1966. SF223.15 1966 v.4
- 64876 SUKHOTSKENE, I. I., and KAIRYUKSHTENE, I. P. Kaunas bacterial starters. (Rus) Moloch. Prom. 2:8-9. Ref. Feb.1968. 44.8 M734 Used in dairy products in Lithuania.
- 64877 SWARTLING, P., and MUKHERJI, S. The effect of heat on milk as a medium for starter cultures. I. Acid production in milk heated to various temperatures for varying period. Int. Dairy Congr. [Proc.], 17th Congr., Sect. C: 337-346. Ref. 1966. SF223.15 1966 v.3
- 64878 SZABO, G. Factors influencing the rheological properties of Process cheese. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D: 251-256. 1966. SF223.15 1966 v.4 English summary, p.818.
- 64879 THOMAS, K. C., NAMBU DRIPAD, V. K. N., and DUDANI, A. T. Comparative studies on the growth and biochemical activities of starter organisms in cow and buffalo milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D: 455-460. 1966. SF223.15 1966 v.4
- 64880 THOMASOS, F. I., and WOOD, F. W. The effect of homogenization of the moisture dispersion of Gold'n flow and conventional butters. Int. Dairy Congr. [Proc.], 17th Congr., Sect. C: 83-89. Ref. 1966. SF223.15 1966 v.3
- 64881 THOMASOW, J. Continuous cheese manufacture. (Ge) Molk.-Zeitung Welt Milch 21 (51/52):1574-1577. Ref. Dec.22,1967. 44.8 M735 English summary.
- 64882 THOMASOW, J., and SCHMANKE, E. Experiments of continuous milk coagulation in the Multitub cheesemaking machine. (Ge) Milchwissenschaft 23(2):88-93. Ref. Feb.1968. 44.8 M5933 English summary.
- 64883 THOMASOW, J. The Roiner method using the Waldner moulding process. (Ge) Milchwissenschaft 23(1):24-27. Jan.1968. 44.8 M5933 English summary. Camembert cheese manufacture.
- 64884 TITOV, M. A. Pasteurization of cream in the tubular pasteurizers. (Rus) Moloch. Prom. 1: 32-33. Dec.1968. 44.8 M734
- 64885 TOBIAS, J. Dairy technology in a food science department. J. Dairy Sci. 51(2):255-259. Feb. 1968. 44.8 J822 Teaching, including dairy products manufacture and chemistry.
- 64886 TODOROV, D. Resistance of *S. typhimurium* and *S. enteritidis* in hard cheese (Kaschkawal). (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:619-624. 1966. SF223.15 1966 v.4 English summary, p.889.
- 64887 TUROWSKI, H. Experiences with the Stenne-Hutin system in the manufacture of fresh cheese. (Ge) Molk.-Kaserei-Zeitung 19(3): 67-69. Jan.17,1968. 44.8 M736
- 64888 TSUGO, T., MATSUOKA, H., and HIRATA, H. The formation of amines during the ripening of the semi-soft white mould cheese ripened by *Penicillium caseicolum*. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:275-282. Ref. 1966. SF223.15 1966 v.4
- 64889 VEDAMUTHU, E. R., and others. Competitive growth of *Streptococcus diacetylactis* in mixed strain lactic cultures and cheese. Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:611-618. Ref. 1966. SF223.15 1966 v.4 B. A. Hauser, D. R. Henning, W. E. Sandine, P. R. Elliker, and E. A. Day, joint authors.
- 64890 WALZHOLZ, G. On the subject of short-time heating. (Ge) Milchwissenschaft 22(12):752-756. Dec.1967. 44.8 M5933 English summary.
- 64891 WASSERFALL, F. On the usability of antibiotic-resistant starter cultures in practical dairying. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. C:347-354. Ref. 1966. SF223.15 1966 v.3 English summary, p.556.
- 64892 WAUSCHKUHN, B. The use of yeast cultures for the production of soft cheese and ripened acid curd cheese. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:527-530. 1966. SF223.15 1966 v.4 English summary, p.871.
- 64893 WILLART, S., and SJOSTROM, G. The effect of cooling and freezing on the lipolysis in raw milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:287-295. Ref. 1966. SF223.15 1966 v.1
- 64894 WITTIG, A. B. Some observations and new points of view round [sic] the homogenizing process. Int. Dairy Congr. [Proc.], 17th Congr., Sect. B:29-37. 1966. SF223.15 1966 v.2
- 64895 WUNDERLICH, J., and RICHTER, H. Dynamics of labor costs for butter manufacture. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. C: 467-474. 1966. SF223.15 1966 v.3 English summary, p.582.
- 64896 YUZVYAK, A. G., and TUREVSKAYA, S. P. Synthetic washing solutions, used for sanitation of the milk bottles. (Rus) Moloch. Prom. 2: 21-22. Feb.1968. 44.8 M734

#### Statistics

- 64897 QUEINNEC, G. The congress of the National Syndicate of French Veterinarians [Syndicat National des Veterinaires Francais] and the development of livestock. (Fr) Tech. Lait. 578:21,23. (Cont.) Jan.1,1968. 44.8 Of2 Dairy products statistics.

#### FEED AND FORAGE CROPS

- 64898 BENDZ, G., and HAGLUND, A. Grass anthocyanins. I. On anthocyanins in *Molinia caerulea*. Acta Chem. Scand. 21(8):2286-2287. 1967. 385 Ac82
- 64899 BLAIR, J. F. Slurry mix system for feed additives tried in feedlots. Feedstuffs 40(7):44-45. Feb.17,1968. 286.81 F322
- 64900 BURNS, L. V. The cost of not having quality control. 1. Feeds Illus. 19(2):21-23. Feb.1968. 389.78 F326
- 64901 CLAYTON, W. S. The analogue computer solves the wider aspects of research and commercial animal feed formulation. Milling 149 (24):480,482,484. Dec.15,1967. 298.8 M622
- 64902 CLOUGH, M. Outlook for feed. Agr. Outlook Conf. [Proc.], 45th Annu. Conf., paper No. 12, 4 p. 1967. 1.90 C2Ou8 Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.



- 64903 COSTA, J. A. High energy products available for feed manufacturers. *Feedstuffs* 39(41):48. Oct.14,1967. 286.81 F322  
Food products used for feed preparation.
- 64904 FERGUSON, K. How "mini-mills" maximize feed sales and service. *Feed Illus.* 19(2):12-17. Feb.1968. 389.78 F326
- 64905 FERRANDO, R., HENRY, N., and LARVOR, P. The protein quality of meat meals as assayed with the rat and with *Streptococcus zymogenes*. *Brit. J. Nutr.* 22(1):129-131. Feb.1968. 389.8 B773
- 64906 FINGER, H. Storage losses of mangels harvested and clamped in different ways. (Ge) *Wirtschaftseigene Futter* 14(1):84-89. Jan. 1968. 389.79 F98  
English summary.
- 64907 GRIFFIN, E. D. The role of the feed manufacturer in food production. *Mont. Nutr. Conf. Proc.*, 19th Annu. Conf.:6-10. 1968. 389.79 M76  
Utilization of food by-products.
- 64908 GROSHEV, V. D. Economic evaluation of forage plants. (Rus) Moscow. Timiryazev. Sel'sk Khoz. Akad. Dokl. 129:177-180. 1967. 20 M857  
Includes nutritive value and costs.
- 64909 HANNA, J. G. Commercial feeding stuffs, report for 1966. *Conn. Agr. Exp. Sta. Bull.* 685, 13 p. Mar.1968. 100 C76St  
Inspection.
- 64910 IVANOV, D. Some economic problems of forage crops production. (Bu) *Zhivotnovodstvo* 21(9/10):56-61. 1967. 49 Z62  
Acreage and costs.
- 64911 MAYS, D. L., and others. Cobalt loss by ashing in porcelain crucibles. *Ass. Offic. Anal. Chem. J.* 50(3):735-737. June 1967. 381 As7  
W. V. Kessler, J. A. Chilko, and E. D. Schall, joint authors.  
Feed analysis.
- 64912 MCDOWELL, D. N. How states cooperate with FDA in enforcing laws. *Feed Farm Supplier* 41(9):22. Sept.1967. 47.8 H28  
For feed inspection.
- 64913 MONTANA NUTRITION CONFERENCE FOR FEED MANUFACTURERS, DEALERS, SALESMEN, AND LIVESTOCK MEN, 19, BOZEMAN, 1968. *Proceedings*. Bozeman, Montana State College, 1968. 73 p. Ref. 389.79 M76  
Montana Feed Manufacturers and Dealers Association and American Feed Manufacturers Association, cooperating.
- 64914 PEDERSEN, E. J. N. Alcohol in silage. (Da) *Tidsskr. Planteavl* 71(3):355-358. 1967. 11 T439  
English summary.
- 64915 PRESTON, R. L. Cost evaluation of feedstuffs. *Feedstuffs* 39(46):69,72. Nov.18,1967. 286.81 F322  
Use of computers, to determine comparative nutrient value and costs.
- 64916 REGIER, D. W. Projected feed grain demand in the EEC. *J. Farm Econ.* 49(5):1355-1361. Dec. 1967. 280.8 J822
- 64917 REYNOLDS, R. K., and MOORE, J. M. Feed, situation and outlook. *Va. Polytech. Inst. Ext. Va. Farm Econ.* 205:23-26. Sept./Dec.1967. 275.29 V813
- 64918 RICHTER, J. Salmonella and antibiotics in feeds get government scrutiny. *Feed Farm Supplier* 41(9):48-49. Sept.1967. 47.8 H28
- 64919 SANCHEZ-MARROQUIN, A., LOARIOS, C., and FERNANDEZ, P. Saponin-utilizing microorganisms isolated from maguey (*Agave atrovirens* Karw.) silage. (Sp) *Ciencia* 25(5):173-176. Ref. July 20,1967. 475 C48  
English summary.
- 64920 SMITH, B. W. National [Feed Dealers National Association] chalks up four more years of action leadership. *Grain Age* 9(3):3,6,10. Mar. 1968. 281.8 G76
- 64921 SMITH, B. W. West Germany looking forward to centennial of mixed feed trade. *Feed Bag* 44 (1):3,42. Jan.1968. 389.78 F32
- 64922 SPANYAR, P., BLAZOVICH, M., and GABOR, N. Simple method for parallel determination of ergosterol and vitamin D in forage yeast. (Fr) *Indus. Aliment. Agr.* 84(11):1495-1499. Nov. 1967. 383 As7  
English summary.
- 64923 STANGER, E. A. Plant design--problems of layout. *Milling* 149(1):8-10. (Cont.) July 7, 1967. 298.8 M622  
For feed.
- 64924 SYNOWIEC, J., and MACHEJ, J. Industrial methods of producing fodder phosphates. (Pol) *Przemysl Chem.* 146(8):437-441. Ref. Aug. 1967. 385 P952
- 64925 TUCK, R. The small business in a computer age. *Milling* 149(1):12. July 7,1967. 298.8 M622  
Feed.
- 64926 TUSL, J. The determination of manganese in feed by formaldoxime method after preliminary separation by ion-exchange chromatography. (Cz) *Chem. Listy* 61(11):1500-1502. Ref. 1967. 385 C425  
German summary.
- 64927 U. S. AGRICULTURAL STABILIZATION AND CONSERVATION SERV. The Feed Grain Program, 1968. U. S. D. A. PA-855,4 p. Jan.1968. 1 Ag84Pro
- 64928 VERMEER, J. Profitability of participation in the 1962 Feed Grain Program in the Corn Belt. U. S. D. A. Econ. Res. Serv. ERS-362,20 p., map. 1967. A281.9 Ag83E  
Includes statistics.
- 64929 ZALEVSKII, A. Present state and outlook of feed production. (Rus) *Ekon. Sel'skogo Khoz.* 12:61-68. 1967. 281.8 So73

## FIBERS AND TEXTILES

- 64930 ALIEV, G. Tadzhikistan--main producer of the fine-fibred cotton. (Rus) *Khlopkovodstvo* 11: 12-14. 1967. 72.8 K522
- 64931 BEHR, G. E. Shortened review on cotton finishing. (Ge) *Spinner Weber Textilveredlung* 86 (1):37-38. Jan.1968. 304.8 Sp41
- 64932 BELL, W. A., MULHOLLAND, H., and STOUT, H. P. Long vegetable fibres--production, chemistry, and physics. *Rev. Textile Progr.* 17:36-57. 1965/66, pub.1967. 304.9 T318  
Review of the literature.
- 64933 BENDIT, E. G. The distribution of high- and low-sulfur fractions in alpha-keratin. *Textile Res. J.* 38(1):15-21. Ref. Jan.1968. 304.8 T293  
In wool.
- 64934 BLACK, W. E. Like it or not, change coming to mohair marketing system. *Sheep Goat Raiser* 48(5):20-21,24-26. Feb.1968. 45.8 Sh3
- 64935 BLACKLEY, S. R. The sale of wool and competition with synthetic fibers. (Fr) *Mouton* 23(2):17. (Cont.) Feb.1968. 45.8 M86
- 64936 BONNEN, J. T. The distribution of benefits from the cotton price and income support programs. U. S. Nat. Adv. Comm. Food Fiber. *Tech. Papers* 2:167-198. July 1967. HD1751.A3  
Includes discussion.
- 64937 BRADBURY, J. H., and KING, N. L. R. The chemical composition of wool. IV. *Australian J. Chem.* 20(12):2803-2807. Ref. Dec.1967. 475 Au73
- 64938 BULLOCK, A. L., CIRINO, V. O., and ROWLAND, S. P. Mono-O-(methylsulfonyl)ethyl-D-glucoses. *Can. J. Chem.* 45(3):255-260. Ref. Feb.1,1967. 470 C16B  
In cotton fibres.
- 64939 CANNIZZARO, A. M., GOYNES, W. R., and ROLLINS, M. L. A water soluble embedding medium for microscopical evaluation of chemically modified cotton. *Amer. Dyestuff Rep.* 57(2):23-29. Ref. Jan.15,1968. 306.8 Am3

- 64940 CHADWICK, G. E. Developments in yarn processing equipment. *Textile Weekly* 67(2069): 728-730,733. Nov.24,1967. 304.8 T3127
- 64941 CHEPURNOI, N. I., and NEDUKHA, A. L. In the Kemerchug Region. (Rus) *Len Konoplya* 11:13-15. 1967. 73.8 L542  
Flax and hemp industry.
- 64942 CHESNER, L. Purification and bleaching of cellulosic materials. *Rev. Textile Progr.* 17: 346-355. 1965/66,pub.1967. 304.9 T318  
Review of the literature.  
Chiefly cotton.
- 64943 CRANENDONK, I. A. C. Cellulosic fibres—production. *Rev. Textile Progr.* 17:1-16. 1965/66,pub.1967. 304.9 T318  
Review of the literature.
- 64944 DEGELMAN, R. K. Standard quality control in cotton spinning. I. (Ge) *Spinner Weber Textilveredlung* 86(1):26-29. (Cont.) Jan.1968. 304.8 Sp41
- 64945 DICKSON, P. R. The story of the Galveston cotton market. *Agr. Marketing [Washington]* 13 (3):15. Mar.1968. A280.38 Ag8
- 64946 DONALD, J. R. Outlook for cotton in 1968. *Agr. Outlook Conf. [Proc.]*, 45th Annu. Conf., paper No. 22,10 p. 1967. 1.90 C2Ou8  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 64947 DONEY, J. M. Protein fibres—production. *Rev. Textile Progr.* 17:58-80. 1965/66,pub.1967. 304.9 T318  
Review of the literature.  
Chiefly from wool.
- 64948 ELLWOOD, F. E. Farmers Federation (Wool) Limited. Great Brit. Min. Agr. Fish. Food. *Agr.* 74(8):371-374. Aug.1967. 10 G79J  
Farmers' cooperative for grading wool.
- 64949 ETTLING, G. Drives for ring spinning frames. *Spinner Weber Textilveredlung* 85(9):859. Sept. 1967. 304.8 Sp41  
Text also in German.
- 64950 FRANKLIN, W. E., MACK, C. H., and ROWLAND, S. P. Dissociation and Diels-Alder reactions of dicyclopentadienedicarboxylic esters. *J. Org. Chem.* 33(2):626-632. Feb.1968. 381 J827  
In relation to research in the chemistry of cotton cellulose.
- 64951 FREEDLAND, V. D. Carpets. *Rev. Textile Progr.* 17:287-301. 1965/66,pub.1967. 304.9 T318  
Review of the literature.  
Description of fibers.
- 64952 FROHLICH, H. G. On the factors determining and influencing the felting of wool and hair. (Ge) *Z. Gesamte Textil Indus.* 70(1):25-28. Ref. 1968. 304.8 D485
- 64953 GREENHALGH, K. Short-staple spinning. *Rev. Textile Progr.* 17:191-205. 1965/66,pub.1967. 304.9 T318  
Review of the literature.  
Chiefly cotton.
- 64954 GUPTA, K., PATNAIK, B. K., and CHIPALKATTI, V. B. Isolation of coloring matter from canary-colored wool. *Textile Res. J.* 38 (1):107-108. Jan.1968. 304.8 T293
- 64955 HEFFNER, L. L. The state of the art of flame retardant fabrics. *Amer. Dyestuff Rep.* 57(5): 29-32. Ref. Feb.26,1968. 306.8 Am3
- 64956 HENRY, Z. A., and LAWSON, R. Instruments for cotton fiber evaluation. *Tenn. Farm Home Sci. Progr. Rep.* 64:17-21. Oct./Dec.1967. 100 T25F
- 64957 HICKS, E. M. Status and outlook for fiber consumption: U.S. and free world. U. S. Nat. Adv. Comm. Food Fiber. *Tech. Papers* 8:103-119. Aug.1967. HD1751.A3
- 64958 HORNE, M. K. The competitive position of cotton. U. S. Nat. Adv. Comm. Food Fiber. *Tech. Papers* 8:123-143. Aug.1967. HD1751.A3  
Marketing and trade.
- 64959 HUTCHINSON, W. B. Raw cotton marketing. In Warley, T. K., ed. *Agricultural producers and their markets*, p.191-204. 1967. HD9000.6.A35  
Includes the futures market.
- 64960 INSTITUT TEXTILE DE FRANCE. *Compte rendu de l'activite au cours de l'annee 1966 [Report of activities for the year 1966]*. Paris, 1967. 81 p. (Supplement to the Bulletin de l'Institut Textile de France) 304.9 In73
- 64961 IZMAILOV, F. Agrotechnical improvement. (Rus) *Zemledelie* 2:18-21. Feb.1968. 20 Z44  
Cotton industry in the Uzbek SSR.
- 64962 JOHNSON, D. J. Protein fibres—physics. *Rev. Textile Progr.* 17:98-110. 1965/66,pub.1967. 304.9 T318  
Review of the literature.  
Wool fibers.
- 64963 KERR, A. Sisal and the competition of synthetic fibers. (Por) *Gaz. Agr. Angola* 12(12):912-913,916. Dec.1967. 24 G252
- 64964 KNOEPFLER, N. B., and GENTRY, W. T. Some observations on the elastic behavior of resin-treated cotton batting at temperatures between 135°F and 170°F. *Textile Res. J.* 38(1): 44-51. Ref. Jan.1968. 304.8 T293
- 64965 KRUSE, W., and FILIPP, K. Heavily flammable textiles. (Ge) *Melliand Textilber.* 49(2):203-212. Ref. Feb.1968. 304.8 T312
- 64966 LAUGHLIN, K. C., and CUSICK, G. E. Carpet performance evaluation. II. Stress-strain behavior. *Textile Res. J.* 38(1):72-80. Jan.1968. 304.8 T293  
In relation to fiber types.
- 64967 LENNOX, F. G. Protein fibres—chemistry. *Rev. Textile Progr.* 17:81-97. 1965/66,pub.1967. 304.9 T318  
Review of the literature.  
From wool and silk.
- 64968 LENNOX-KERR, P. Situation of the open-end spinning process. (Ge) *Melliand Textilber.* 49 (2):140-141. Feb.1968. 304.8 T312
- 64969 LORENZ, G. Efficient card cleaning with centralized waste collection. *Spinner Weber Textilveredlung* 85(9):854. Sept.1967. 304.8 Sp41  
Text also in German.
- 64970 MATCHANOV, N. M. Cotton industry in the Uzbek SSR, for 50 years. (Rus) *Khlopkovodstvo* 11:2-6. 1967. 72.8 K522
- 64971 MCFALL, J. P. Premiums for style. *New Zeal. Meat Prod.* 12(5):17,21. Feb.1,1968. 50.8 N48  
Wool marketing and prices.
- 64972 MCFALL, J. P. Wool prices and devaluation. *New Zeal. Meat Prod.* 12(4):21. Jan.1,1968. 50.8 N49
- 64973 MILLER, B. Thermoanalytical studies on the durable-press curing of cellulose. I. The thermal behavior of trimethylolmelamine-carbohydrate mixtures. *Textile Res. J.* 38(1):1-6. Jan. 1968. 304.8 T293  
For cotton fabrics.
- 64974 MOORE, L. World situation and outlook for cotton. In Warley, T. K., ed. *Agricultural producers and their markets*, p.179-190. Ref. 1967. HD9000.6.A35
- 64975 MUSATENKO, A., and SERDYUK, D. Hemp in the Cherkassy Region. (Rus) *Len Konoplya* 11:9-13. 1967. 73.8 L542  
Industry.
- 64976 OVEZOV, B. O. Increase of cotton industry in the Turkmenistan. (Rus) *Kolopkovodstvo* 11: 7-11. 1967. 72.8 K522
- 64977 OWENS, H. P. Apalachicola before 1861. *Diss. Abstr.*, Sect. A, 28(6):2182A. Dec.1967. Z5055.U49D5  
Cotton center.
- 64978 POTTER, M. D., and CORBMAN, B. P. *Textiles: fiber to fabric*. Ed. 4. New York, McGraw-Hill, 1967. 495 p. TS1446.P6 1967  
Bibliography, p.479-484.



- 64979 PRAKASH, J., OKA, P. G., and IYENGAR, R. L. N. Studies on luster in textiles. III. Contribution of structural elements towards the luster behavior of cotton fibers. *Textile Res. J.* 38(1):52-62. Ref. Jan.1968. 304.8 T293
- 64980 RAY, A. K., and MANDAL, A. K. Retting and quality of jute fibre. *Jute Bull.* 30(4):131-139. Ref. July 1967. 73.38 In2
- 64981 ROBERTS, E. J., and ROWLAND, S. P. Synthesis of mono-O-(2-diethylaminoethyl)-D-glucoses and distribution of substituent groups in O-(2-diethylaminoethyl) cellulose. *Can. J. Chem.* 45(3):261-265. Ref. Feb.1,1967. 470 C16B  
In cotton fibres.
- 64982 RODEHACKE, K. Is pneumatic cleaning a rational measure in woollen yarn spinning? *Spinner Weber Textilveredlung* 85(9):850. Sept. 1967. 304.8 Sp41  
Text also in German.
- 64983 ROHS, W., OTTO, R., and LAMBRINOU, I. The structure of fibers in flax yarns. I-II. (Ge) *Melliand Textilber.* 49(1):7-15. Jan.1968. 304.8 T312
- 64984 ROZIER, J., and BERGERON, M. A rapid test for the determination of the percentage of reticulated truffle spores in a mixture. (Fr) *Acad. Vet. France. Bull.* 143(12):1241-1246. Dec.1967. 41.8 R24  
Truffle types used in processed pork in relation to food legislation.
- 64985 RUSCA, R. A., and BROWN, J. J. Cotton products from SRRL. *Textile Indus.* 132(2):93-97. Ref. Feb.1968. 304.8 C823  
Textile processing.
- 64986 SAMSONOV, V. P. Belorussian flax. (Rus) *Len Konoplya* 11:4-8. 1967. 73.8 L542  
Industry.
- 64987 SAVIGE, W. E. Studies in wool yellowing. XVIII. Processes for retardation of sunlight yellowing of fluorescent-brightened wool. *Textile Res. J.* 38(1):101-102. Ref. Jan.1968. 304.8 T293
- 64988 SCHADE, W. Recent data on silk fibroin research. (Ge) *Melliand Textilber.* 49(2):183-186. Ref. Feb.1968. 304.8 T312
- 64989 SHELTON, R. C., ROACH, R. A., and BACKER, S. Design of an on-line computer-based textile information retrieval system. *Textile Res. J.* 38(1):81-100. Jan.1968. 304.8 T293  
For bibliographic information.
- 64990 SIEGL, R. Evolution in cotton spinning. (Ge) *Melliand Textilber.* 49(1):17-36. Ref. Jan. 1968. 304.8 T312
- 64991 SIMPSON, J. Observations for improving cotton carding. *Textile Res. J.* 38(1):103-104. Jan.1968. 304.8 T293
- 64992 SMITH, P. A. Non-woven and bonded-fibre fabrics and fabric laminates. *Rev. Textile Progr.* 17:270-286. 1965/66, pub.1967. 304.9 T318  
Review of the literature.
- 64993 SMITHIES, J. Worsted and woollen yarn manufacture. *Rev. Textile Progr.* 17:206-219. 1965/66, pub.1967. 304.9 T318  
Review of the literature.
- 64994 SPENCER-SMITH, J. L. Cellulosic fibres—physics. *Rev. Textile Progr.* 17:17-35. 1965/66, pub.1967. 304.9 T318  
Review of the literature.
- 64995 STEIN, H. Spinning seen with high-speed movies. *Textile Indus.* 132(2):68-75. Feb.1968. 304.8 C823  
Translation from *Melliand Textilberichte*.
- 64996 STOTSKII, V. N. Development of cotton industry in the USSR. (Rus) *Khlopkovodstvo* 11:15-19. 1967. 72.8 K522
- 64997 STRAW, W. A. Analysis, testing, grading, and defects—chemical testing. *Rev. Textile Progr.* 17:478-490. 1965/66, pub.1967. 304.9 T318  
Review of the literature.  
Of natural fibers.
- 64998 SWART, L. S., and JOUBERT, F. J. The fractionation of the high-sulfur proteins from oxidized mohair. *Textile Res. J.* 38(1):36-44. Ref. Jan.1968. 304.8 T293
- 64999 TEXAS. UNIVERSITY. COTTON ECONOMIC RESEARCH. Shippers' services and costs in marketing United States cotton. *Tex. Univ. Cotton Econ. Res. Res. Rep.* 87,30 p. Ref. May 1967. 72.9 T319  
In cooperation with U. S. Dept. of Agriculture, Economic Research Serv. and Texas. Agricultural and Mechanical University, Agricultural Economics and Sociology.
- 65000 TEXAS. UNIVERSITY. COTTON ECONOMIC RESEARCH. Summary report of the Texas cotton crop for the 1966-67 season. *Tex. Univ. Cotton Econ. Res. Res. Rep.* 85,70 p., map. 1967. 72.9 T319
- 65001 TEXTILE INSTITUTE. Review of textile progress; a survey of world literature. Volume 17, 1965-1966. New York, Butterworths, 1967. 601 p. 304.9 T318
- 65002 TOBEL, R. The effect of the load ratios at the drawing rollers of a ring spinning frame. (Ge) *Z. Gesamte Textil Indus.* 69(7):440-442. July 1967. 304.8 D485  
English summary.  
Rayon viscose included.
- 65003 UEDA, M., and KAJITANI, K. Dilute solution properties of poly (vinyl acetate). I. Molecular weight dependence of the limiting viscosity number in a few solvents. *Makromol. Chem.* 108:138-152. Ref. Oct.11,1967. 384 M28
- 65004 U. S. DEPT. OF AGRICULTURE. ECONOMIC RESEARCH SERV. World fiber balances: past, present, and future. *U. S. Nat. Adv. Comm. Food Fiber. Tech. Papers* 2:xi-80. Ref., p. 78-80. July 1967. HD1751.A3
- 65005 U. S. NATIONAL ADVISORY COMMISSION ON FOOD AND FIBER. Cotton and other fiber problems and policies in the United States. *U. S. Nat. Adv. Comm. Food Fiber. Tech. Papers* 2,213 p. July 1967. HD1751.A3
- 65006 VAUGHAN, J. E. Finishing cellulosic materials. *Rev. Textile Progr.* 17:448-463. 1965/66, pub.1967. 304.9 T318  
Review of the literature.
- 65007 VESELOV, V. I., and ZHATOVA, A. E. Isolation of high-quality fibre from the hemp stem. (Rus) *Vses. Akad. Sel'skokhoz. Nauk V. I. Leninga. Dokl.* 8:18-19. Aug.1967. 20 Ak1
- 65008 WAGNER, E. F. Further investigations on the porosity of fiber surfaces after the mercury printing method. (Ge) *Z. Gesamte Textil Indus.* 69(7):468-472. July 1967. 304.8 D485  
Cotton and rayon included.
- 65009 WALKER, T. The synthesis of keratin. (Ge) *Seifen-Ole-Fette-Wachse* 93(15):531-532. Ref. July 19,1967. 307.8 Se4  
Composition of wool keratin.
- 65010 WATT, I. C., and LEEDER, J. D. Role of carboxyl groups in water absorption by keratin. *J. Appl. Chem.* 18(1):1-4. Ref. Jan.1968. 382 J82  
Wool keratin.
- 65011 WEGENER, W., and HOTH, E. G. Changing of fiber length distribution through ginning. (Ge) *Melliand Textilber.* 49(1):37-42. Jan.1968. 304.8 T312  
Cotton.
- 65012 WEGENER, W., and PEUKER, H. Comparison of continental and English worsted spinning systems. (Ge) *Z. Gesamte Textil Indus.* 70(1):11-18. (Cont.) 1968. 304.8 D485
- 65013 WEGENER, W., and PEUKER, H. Comparison of continental and English worsted spinning systems. (Ge) *Z. Gesamte Textil Indus.* 70(2):85-92. (Cont.) 1968. 304.8 D485
- 65014 WEGENER, W., and FUNDER, A. The factors influencing the wet spinning process of bast fibers and their effects on yarn properties. (Ge) *Z. Gesamte Textil Indus.* 69(7):443-449. (Cont.) July 1967. 304.8 D485
- 65015 WHITAKER, R. The cotton surplus problem 1930-66. *U. S. Nat. Adv. Comm. Food Fiber. Tech. Papers* 2:81-166. Ref. July 1967. HD1751.A3

## FRUITS, VEGETABLES, AND NUTS

- 65016 AMARAL, M. DE L. D. Israel's agricultural miracle. II. Production and trade in fruits and vegetables. (Por) Gaz. Agr. Angola 12(11): 846-847, 850-851, 853, 855, 858, 866. Nov. 1967. 25 G252
- 65017 BRADER, C. R. The outlook for fruits and tree nuts in 1968. Agr. Outlook Conf. [Proc.], 45th Annu. Conf., paper No. 21, 3 p. 1967. 1.90 C2Ou8  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 65018 FLORIDA FRUIT AND VEGETABLE ASSOCIATION. 1966-67 directory. Orlando, 1967. 28 p., map. 225 F662
- 65019 HAWAII CROP AND LIVESTOCK REPORTING SERV. Vegetable and fruit outlook for 1968. Honolulu, 1968. 18 p. 252.20 C78Ha
- 65020 HINTON, W. L. British horticulture and the Common Market. J. Agr. Econ. [Reading] 19(1): 77-85. Jan. 1968. 281.9 Ag8
- 65021 JIRIK, J. The state of vegetable production in People's Republic Bulgaria. (Cz) Prague. Vyzk. Ustav Zemed. Vestn. 14(4):146-148. 1967. 19.5 C333
- 65022 KRAUSE, H. 1967-backward and forward look. (Ge) Indus. Obst- Gemuseverwertung 52(24):758-764. Dec. 21, 1967. 389.8 K832  
Fruit and vegetables.
- 65023 KRAUSE, H. Marmalade industry in the year 1967. (Ge) Indus. Obst- Gemuseverwertung 52(24):777-781. Dec. 21, 1967. 389.8 K832
- 65024 KURYLOSKI, D. S. The outlook for vegetables and potatoes in 1968. Agr. Outlook Conf. [Proc.], 45th Annu. Conf., paper No. 20, 4 p. 1967. 1.90 C2Ou8  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 65025 LINER, H. L. An economic analysis of vegetable production for processing in southeastern North Carolina. Diss. Abstr., Sect. A, 28(3):852A. Sept. 1967. Z5055.U49D5
- 65026 WESTERN GROWERS ASSOCIATION. Yearbook. West. Grower Shipper 38(11), 122 p. Nov. 1967. 280.38 W52
- 65027 WINKLER, G. Fruit juice and sweet must—review of the situation. (Ge) Indus. Obst- Gemuseverwertung 52(24):774-777. Dec. 21, 1967. 389.8 K832
- 65028 WINKLER, G. The 1967 cucumber year—backward and forward look. (Ge) Indus. Obst- Gemuseverwertung 52(24):769-772. Dec. 21, 1967. 389.8 K832
- 65029 WINKLER, G. Sauerkraut 1967. (Ge) Indus. Obst- Gemuseverwertung 52(24):773-774. Dec. 21, 1967. 389.8 K832

## Analysis and Composition

- 65030 BAUNOK, I., and GEISSBUEHLER, H. Specific determination of urea herbicide residues by EC gas chromatography after hydrolysis and iodine derivative formation. Bull. Environ. Contamination Toxicol. 3(1):7-17. Jan./Feb. 1968. RA1270.P35A1  
In fruit and field crops.
- 65031 CAVETT, J. J., and GARVIE, E. I. Biochemical and serological characters of three strains of streptococci previously reported as Streptococcus cremoris isolated from deep-frozen peas after thawing. J. Appl. Bacteriol. 30(2): 377-381. Ref. Aug. 1967. 448.39 So12
- 65032 CUNNINGHAM, H. H., ZAEHRINGER, M. V., and TOURNEAU, D. J. LE. Potato extractives and the sloughing of potato tissue. Amer. Potato J. 44(11):393-401. Ref. Nov. 1967. 75.8 P842  
With reference to storage.
- 65033 GASTON, L. K., and GUNTHER, F. A. Pyrolysis-gas chromatographic method for polybutene residues on navel oranges. Bull. Environ. Contamination Toxicol. 3(1):1-6. Jan./Feb. 1968. RA1270.P35A1

## Consumption and Utilization

- 65034 HERRMANN, K. On the value of spinach—especially with reference to its debated components oxalate and nitrate. (Ge) Indus. Obst- Gemuseverwertung 53(3):57-59. Ref. Feb. 1, 1968. 389.8 K832  
Composition.
- 65035 JURICS, E. W. Paper chromatographic determination of catechin and epicatechin in fruits. (Ge) Z. Lebensmittel-Untersuchung -Forsch. 135(5):269-275. Ref. 1967. 384 Z39
- 65036 LAMBERT, R. D., DICKEY, E. E., and THOMPSON, N. S. The uronic acids in a hydrolyzate of sapote gum. Carbohydr. Res. 6(1):43-51. Ref. Jan. 1968. 385 C172
- 65037 MCCARTHY, M. A., ORR, M. L., and WATT, B. K. Phenylalanine and tyrosine in vegetables and fruits. Amer. Diet. Ass. J. 52(2):130-134. Feb. 1968. 389.8 Am34
- 65038 OMURA, H., UCHIDA, Y., and SONDA, T. Reflection and absorption spectra of peeled apple slices in a visible range of wave length. (Ja) Kyushu Univ. Fac. Agr. Sci. Bull. 23(2):33-42. July 1967. 107.6 K995B  
English summary.  
Spectrophotometry.
- 65039 PIORR, W., and TOTH, L. Detection and determination of biphenyl, o-hydroxybiphenyl, and diphenylamine, by thin layer chromatography, gas chromatography, and spectrofluorimetry. (Ge) Z. Lebensmittel-Untersuchung -Forsch. 135(5):260-269. Ref. 1967. 384 Z39  
In citrus peel.
- 65040 PRIBELA, A., and VASATKO, J. Determination of volatile aldehydes and ketones in fruit. (Cz) Biologia [Bratislava] 22(2):96-107. Ref. 1967. 442.8 B5265  
German and Russian summaries.
- 65041 SHARON, M., and MAYER, A. M. The effect of sodium chloride on catechol oxidase from apples. Israel J. Chem. 5(6):275-280. Ref. Nov./Dec. 1967. 385 Is7
- 65042 STERNKOPF, G. Comparative studies on the determination of tryptophan in some grain Leguminosae. (Ge) Nahrung 12(1):75-80. Ref. 1968. 389.8 N142  
English summary.
- 65043 STURM, W., and HANSEN, E. On the hydrocyanins in seeds of Prunoideae and other foods. II. Prussic acid in raw and processed bitter almonds; toxicological and food regulatory considerations. (Ge) Z. Lebensmittel-Untersuchung -Forsch. 135(5):249-259. Ref. 1967. 384 Z39
- 65044 SZOTYORI, K. S., and JURICS, E. W. Paper chromatography determination of flavonoids in fruit. (Ge) Z. Lebensmittel-Untersuchung -Forsch. 135(4):192-198. Ref. 1967. 384 Z39
- 65045 TATUM, J. H., SHAW, P. E., and BERRY, R. E. Some compounds formed during nonenzymic browning of orange powder. J. Agr. Food. Chem. 15(5):773-775. Ref. Sept./Oct. 1967. 381 J8223

## Distribution, Marketing, and Transportation

- 65046 SMITH, M. E. How to buy fresh fruits. U. S. D. A. Home Gard. Bull. 141, 24 p. Oct. 1967. 1 Ag84Hg
- 65047 SMITH, M. E. How to buy fresh vegetables. U. S. D. A. Home Gard. Bull. 143, 24 p. 1967. 1 Ag84Hg
- 65048 BARNES, G. V. Advice for producers: don't upset the apple cart! PACA [Perishable Agricultural Commodities Act] can help you cut risks in fruit and vegetable trading. Agr. Marketing [Washington] 13(4):7. Apr. 1968. A280.38 Ag8
- 65049 CHANDLER, E. E. Sunsweet [Growers, Inc.] ends half century—as winner. News Farmer Coop. 34(12):8-9. Mar. 1968. 166.2 N47  
Prune cooperative in San Jose, California.



- 65050 ELLISON, M. A. A message from the United [Fresh Fruit and Vegetable Association]. West. Grower Shipper 38(11):21-29. Nov.1967. 280.38 W52  
Includes marketing and shipping.
- 65051 HANDY, J. Techniques of bargaining. Nat. Bargaining Conf. Proc., 11th Conf.:91-95. 1967. A280.39 C76  
Cherries.
- 65052 LOCHER, B. Processing industry and marketing customs in Italy. (Ge) Indus. Obst- Gemuseverwertung 53(1):11-12. Jan.4,1968. 389.8 K832  
Fruit and vegetables.
- 65053 MEYER, C. H. Improving fruit and vegetable co-op marketing. News Farmer Coop. 34(9):8, 17. Dec.1967. 166.2 N47
- 65054 PARKER, B. Ultimate marketing. Farm Quart. 22(4):62-63,99-100,102,104. Fall 1967. 6 F22995  
Of grapes.
- 65055 PHILP, D. A. The marketing of bananas. In Warley, T. K., ed. Agricultural producers and their markets, p.285-296. 1967. HD9000.6.A35
- 65056 STEINER, M. P., and DRURY, C. A. The marketing of Idaho-eastern Oregon sweet Spanish onions, 1960-1966. Idaho Agr. Res. Progr. Rep. 124,31 p. 1967. S53.E2
- 65057 THIAULT, J. European perspectives of chestnut marketing. (Fr) Pomol. Franc. 10(1):10-18. Jan.1968. 80 P77
- 65058 U. S. CONSUMER AND MARKETING SERV. 1968 acreage-marketing guides, vegetables for commercial processing. U. S. Consum. Marketing Serv. AMG 60,40 p. Feb.1968. A281.3919 M34
- 65059 VASILESCU, N. Aspects of transportation costs in the vegetable production on state farms in lasi area. (Rum) Mec. Elec. Agr. 13(1):15-24. Jan.1968. 58.8 M4623

#### Grading, Inspection, Standardization, and Quality

- 65060 ANJOU, K., and SYDOW, E. von. The aroma of cranberries. II. Vaccinium macrocarpon Ait. Acta Chem. Scand. 21(8):2076-2082. 1967. 385 A82
- 65061 BOTTICHER, W. Quality inspection of the mushroom and forest berry harvest in the Bavarian Forest; indexes of raspberry juice. (Ge) Indus. Obst- Gemuseverwertung 52(23):727-732. Ref. Dec.7,1967. 389.8 K832
- 65062 D'YACHENKO, V. Estimating the quality of onions. (Rus) Kartofel' Ovoshchi 11:39. Nov.1967. 75.8 K147
- 65063 EEC PROTECTIONISM extended to fruit products containing added sugar. Int. Processed Fruits 11(3):26,29-30,33,35-36,39-40,43-44. 1967. 286.83 In82  
Text also in French and German.
- 65064 FLORIDA. DEPT. OF AGRICULTURE. DIV. OF FRUIT AND VEGETABLE INSPECTION. 1966-1967 season annual report. Tallahassee, 1967. 77 p. 280.3939 F663
- 65065 GURAM, M. S. Disappearance of endosulfan and related compounds on plants under greenhouse conditions. Diss. Abstr., Sect. B, 28 (3):1271B. Sept.1967. Z5055.U49D53  
Loss of toxicity in vegetables.
- 65066 JOSSERAND, M. Collective poisoning most probably caused by Hygrophorus croceus (H. constans Lange). (Fr) Soc. Linn. Lyon. Bull. Mens. 37(2):65-67. Feb.1968. 505 L992B
- 65067 LAMMERS, R. P. Research on the improvement of the quality of prepared dry legumes in the years 1963-1966; introduction. (Du) Conserva 16(8):177-178. Feb.1968. 389.8 C7632
- 65068 MURPHY, E. F., TRUE, R. H., and HOGAN, J. M. Detection threshold of sensory panels for mealiness of baked potatoes as related to specific gravity differences. Amer. Potato J. 44(12):442-451. Ref. Dec.1967. 75.8 P842

- 65069 PHEIL, E. R. Traveling man; country shipping point inspectors help get good quality fruits and vegetables to market, to the processing plant, and to the consumer. Agr. Marketing [Washington] 13(3):10-11. Mar.1968. A280.38 Ag8
- 65070 SCOTT, K. J. Market quality of pome fruits. Agr. Gaz. New S. Wales 79(2):72-77. Feb. 1968. 23 N472  
Apples and pears.
- 65071 SENSER, F., REHM, H. J., and RAUTENBERG, E. Microorganisms causing spoilage in fruit juices. II. Mold species in different juices. (Ge) Zentralbl. Bakteriell. Parasitenk. Infektionskr. Hyg. Abt. II, Naturwiss. 121(7):736-746. Ref. Nov.10,1967. 448.3 C33  
English summary.
- 65072 WILLIAMS, E. C. We're eating more frozen French fries; C&MS [Consumer and Marketing Service] inspects frozen potato products in Washington State's Columbia Basin and in other producing areas. Agr. Marketing [Washington] 13(4):8-9. Apr.1968. A280.38 Ag8

#### Packing and Packaging

- 65073 BOWMAN, E. K. Citrus packing methods improvement. Citrus Indus. 48(8):26-28. Aug. 1967. 80 C49
- 65074 FULLER, E. J. Advice to apple and pear packers. Agr. Gaz. New S. Wales 79(2):95-100. Feb.1968. 23 N472
- 65075 GORMLEY, T. R., and MACCANNNA, C. Pre-packing and shelf life of mushrooms. Irish J. Agr. Res. 6(2):255-265. Ref. Oct.1967. 10.5 Ir45
- 65076 KUPFERSCHMID, W., and ZIEGLER, P. The keeping quality of salads in plastic packages. (Ge) Nahrung 12(1):129-134. Ref. 1968. 389.8 N142  
English summary.
- 65077 MATHER, J. W. Cooperative procurement of containers for fruit and vegetable processing. U. S. Farmer Coop. Serv. Gen. Rep. 146,40 p., map. Nov.1967. A280.29 F22G
- 65078 MCLAUCHLAN, G. Trial shipment of apples in bulk bins. New Zeal. J. Agr. 115(3):75. Sept.1967. 23 N48J  
Packing for water transport.
- 65079 SKULBERG, A. Processed vegetables in foil pouches. (Ge) Indus. Obst- Gemuseverwertung 53(4):88-91. Feb.15,1968. 389.8 K832
- 65080 STOUT, B. A., and others. Handling tomatoes in pallet boxes. U. S. D. A. Marketing Res. Rep. 802,14 p. Jan.1968. 1 Ag84Mr  
S. K. Ries, F. W. Bakker-Arkema, and J. F. Herrick, joint authors.  
Michigan Agricultural Experiment Station, co-operating.

#### Processing and Storage

- 65081 ANGEL, C. B. Cooling a stack of fruit: packed bed analysis. Diss. Abstr., Sect. B, 28(6): 2470B-2471B. Dec.1967. Z5055.U49D53
- 65082 BROCKMANN, H. Basic equations for the flowing-off of liquid in pressing. (Ge) Indus. Obst- Gemuseverwertung 53(2):27-29. Jan.18,1968. 389.8 K832  
Fruit.
- 65083 FELD, H. N. Tomato paste and devaluation or when is a contract a contract? Food Trade Rev. 38(1):28-30. Jan.1968. 389.8 F7334  
Production and marketing in Portugal and Italy.
- 65084 FERRAGUTI, M. Internal browning of winter pears. (It) G. Agr. 78(7):75. Feb.18,1968. 16 It1G  
Possibly physiological.
- 65085 FITZPATRICK, T. J., and PORTER, W. L. Microwave finishing of potato chips; effect on the amino acids and sugars. Amer. Potato J. 45(3):103-110. Ref. Mar.1968. 75.8 P842

- 65086 GREIG, W. S., and HEIFNER, R. G. Locational effects of raw product prices, labor costs, length of processing season and transportation costs in fruit and vegetable processing. Mich. Agr. Exp. Sta. Res. Bull. 19,97 p.,map. 1968. 100 M58R
- 65087 GRIGG, G. T., and CHASE, R. W. The effect of washing potatoes with wash solutions containing chlorine. Amer. Potato J. 44(12):425-428. Dec.1967. 75.8 P842
- 65088 HAMPSON, C. P. Suppress those sprouts. Arable Farmer 1(11):54-55,57. Sept.1967. S3.A7  
Chemical control in potatoes.
- 65089 HAMPSON, C. P. Weight loss halved with new storage system. Arable Farmer 3(1):20-21,23. Jan.1967. S3.A7  
Potatoes.
- 65090 HARDING, P. R. Effect of ozone on *Penicillium* mold decay and sporulation. Plant Dis. Rep. 52(3):245-247. Mar.1968. 1.9 P69P  
On oranges and lemons in storage in California.
- 65091 HARDING, P. R. Wax emulsion additives for control of storage decay in lemons. Plant Dis. Rep. 51(9):781-784. Ref. Sept.1967. 1.9 P69P  
California.
- 65092 HAUPT, H. G. Deep-frozen fruits and vegetables. (Ge) Indus. Obst- Gemuseverwertung 52(24):783-785. Dec.21,1967. 389.8 K832
- 65093 HAUPT, H. G. Processed fruit and vegetables. (Ge) Indus. Obst- Gemuseverwertung 52(24):764-767. Dec.21,1967. 389.8 K832  
Industry.
- 65094 HEINRICH, H. R. Aspects of the central German industry for processed fruit and vegetables. (Ge) Indus. Obst- Gemuseverwertung 53(1):14-15. Jan.4,1968. 389.8 K832
- 65095 HEINRICH, H. R. Aspects of the Spanish fruit and vegetable processing industry. (Ge) Indus. Obst- Gemuseverwertung 53(2):37-39. Jan.18, 1968. 389.8 K832
- 65096 HELLAND. Notes from Holland: In the world of vegetables and fruit, modern technique of preservation. (It) G. Agr. 77(53):624. Dec.31,1967. 16 It1G  
Freezing.
- 65097 HELLENDORF, E. W., and WEIDE-PEEK, J. E. M. van der. Improvement of the digestibility of potato puree during manufacture into flakes. (Du) Conserva 16(8):183-185. Ref. Feb.1968. 389.8 C7632
- 65098 KALTENBACH, M. Chambers with controlled atmosphere. (Fr) Pomol. Franc. 10(1):3-6. Jan.1968. 80 P77  
For apple storage.
- 65099 KNOOP, J. G. CA extends the fruit market; controlled atmosphere (CA) protects fruit in storage. Farm Quart. 23(2):66,123,125. Spring 1968. 6 F22995
- 65100 KOENG, W. F. Problems of functional stage in the French processing industry. (Ge) Indus. Obst- Gemuseverwertung 53(1):9-10. Jan.4, 1968. 389.8 K832  
Fruit and vegetable processing.
- 65101 LEVERINGTON, R. E. Problems associated with pineapple products. Food Technol. Australia 20(1):20,23,25,27-29. Ref. Jan.1968. 389.8 F7333
- 65102 LOOKER, M. Whose potatoes in the can? Arable Farmer 1(12):18-19,21. Oct.1967. S3.A7
- 65103 LUGOVKIN, V. Development of the vegetable canning industry. (Rus) Kartofel' Ovoshchi 11:28-29. Nov.1967. 75.8 K147
- 65104 MEISSEL, G. H. E. Swedish processed potatoes. (Ge) Indus. Obst- Gemuseverwertung 53(2):39-41. Jan.18,1968. 389.8 K832
- 65105 MEYRATH, J. Citric acid production. Process Biochem. 2(10):25-27,56. Ref. Oct.1967. TP1.P7
- 65106 MORGAN, C. V. G., and ANGLE, B. J. Influence of pre-storage treatments on the mortality of the San Jose scale (Homoptera: Diaspididae) on apples held in storage. Can. Entomol. 99(9): 975-978. Sept.1967. 421 C16  
*Aspidiotus perniciosus*; includes treatment with alcohol.
- 65107 MORGAN, C. V. G., and ANGLE, B. J. Mortality of the San Jose scale (Homoptera: Diaspididae) on stored apples of different varieties and harvest dates. Can. Entomol. 99(9):971-974. Sept.1967. 421 C16  
*Aspidiotus perniciosus*.
- 65108 NELSON, K. E., and RICHARDSON, H. B. Storage temperature and sulfur dioxide treatment in relation to decay and bleaching of stored table grapes. Phytopathology 57(9):950-955. Ref. Sept.1967. 464.8 P56  
Mold caused by *Botrytis cinerea*.
- 65109 NEUBAUER, L. W., PURI, Y. P., and KUCERA, E. R. Effects of relative humidity on Irish potatoes in storage. Calif. Agr. 21(11):4-5. Nov. 1967. 100 C12Cag
- 65110 PAULUS, K. Decontamination of fruits and vegetables infected on the surface with radioactive materials. (Ge) Indus. Obst- Gemuseverwertung 53(4):85-88. Ref. Feb.15,1968. 389.8 K832
- 65111 POINTEL, J. G. Contribution to cowpea storage. (Fr) Agron. Trop. [Paris] 22(10):925-932. Oct.1967. 26 Ag86  
English summary.  
For food and seeds in Africa.
- 65112 SCHARFENSTEIN, O. H. C. Food aerosols in the fruit and vegetable processing industries? (Ge) Indus. Obst- Gemuseverwertung 53(2): 32-33. Jan.18,1968. 389.8 K832
- 65113 SCHARFENSTEIN, O. H. C. Processed potatoes have a future. (Ge) Indus. Obst- Gemuseverwertung 53(1):7-8. Jan.4,1968. 389.8 K832
- 65114 SCHWEISSEIMER, W. Quick-frozen orange juice in the United States. (Ge) Indus. Obst- Gemuseverwertung 52(22):708-710. Nov.16, 1967. 389.8 K832
- 65115 SEBERRY, J. A. Long storage of winter lemons. Agr. Gaz. New S. Wales 78(5):278. May 1967. 23 N472
- 65116 SHIBABE, S., ITO, H., and IIZUKA, H. Effect of gamma irradiation on strawberries as a means of extending its shelf-life and lethal dose of *Botrytis cinerea*. Agr. Biol. Chem. 31(8):930-934. Ref. Aug.1967. 385 Ag8B
- 65117 SMITH, W. L., and REDIT, W. H. Postharvest decay of peaches as affected by hot-water treatments, cooling methods, and sanitation. U. S. D. A. Marketing Res. Rep. 807,9 p. Mar. 1968. 1 Ag84Mr  
*Monilinia fructicola* and *Rhizopus nigricans*.
- 65118 TAJIMA, M., KIDA, K., and FUJIMAKI, M. Effect of gamma irradiation on volatile compounds from cooked potato. Agr. Biol. Chem. 31(8):935-938. Aug.1967. 385 Ag8B
- 65119 VISHNEVETSKAYA, A. M. Fruit diseases in storages. (Rus) Zashch. Rast. 8:37-39. 1967. 421 Z1  
Caused by fungi on deciduous fruit.
- 65120 VOLOVIK, A. S., and SHNEIDER, YU. I. Potato storage diseases. (Rus) Zashch. Rast. 1:37-38. 1968. 421 Z1  
Caused by fungi and bacteria; includes control.
- 65121 WARREN, R. Control of sprouting during storage of commercial potatoes. Oreg. Weed Contr. Handbook 1967:156-157. 275.28 Or3  
Use of MH-30 and CIPC.
- 65122 WOLF, W. The vegetable drying industry 1967. (Ge) Indus. Obst- Gemuseverwertung 52(24): 768-769. Dec.21,1967. 389.8 K832

# Statistics

- 65123 AMERICAN AGRICULTURAL MARKETING ASSOCIATION. Summary—1967 processing vegetable intentions. n.p., 1967. 5 p. 284.3919 Am3S
- 65124 CONNOLLY, C., and CRAVENS, M. E. Ohio and competing processing tomato supply states. Ohio. Agr. Res. Develop. Center. Res. Bull. 1007,24 p.,map. Jan.1968. 100 Oh3S  
Statistics.
- 65125 CSERES, MRS. T., and DEAK, I. Situation in vegetable production and consumption. (Hu) Statist. Szemle 46(1):55-72,map. Jan.1968. 266.5 St2M  
English summary.  
Statistics.



- 65126 SIEVERS, M. Potato production and harvests. (Ge) Statist. Monh. Schleswig-Holstein 20(1):7-11,14. Jan.1968. 265 Sch32Sm
- 65127 WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet: Fall potatoes. Wash. State Univ. Ext. E. M. 2343,rev.,2 p. Nov.1967. 275.29 W27Mi
- 65128 WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet: Late summer potatoes. Wash. State Univ. Ext. E. M. 2312,rev.,2 p. Nov.1967. 275.29 W27Mi

## GRAIN AND GRAIN PRODUCTS

- 65129 ACKER, L., SCHMITZ, H. J., and HAMZA, Y. On the lipides of wheat. (Ge) Arb. Getreideforsch. Ber. Getreidechem.-Tag. 1967:29-44. Ref., p.42-44. 389.9 Ar1
- 65130 AMERICAN ASSOCIATION OF CEREAL CHEMISTS. 1967 annual report. Cereal Sci. Today 13(4):172-179. Apr.1968. 59.8 C333
- 65131 ASKEW, W. R. Outlook for rice in 1967/68. Agr. Outlook Conf. [Proc.], 45th Annu. Conf., paper No. 29.4 p. 1967. 1.90 C2Ou8  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 65132 ASKEW, W. R. Outlook for wheat in 1967/68. Agr. Outlook Conf. [Proc.], 45th Annu. Conf., paper No. 31.8 p. 1967. 1.90 C2Ou8  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 65133 AUDIDIER, Y., and others. Determination of damaged starch in wheat flours. (Ge) Arb. Getreideforsch. Ber. Getreidechem.-Tag. 1967:131-146. Ref. 389.9 Ar1  
J. F. De La Gueriviere, Y. Seince and K. Benoualid, joint authors.
- 65134 AXFORD, D. W. E., and others. Recent investigations on Purothionin. (Ge) Arb. Getreideforsch. Ber. Getreidechem.-Tag. 1967:109-116. Ref. 389.9 Ar1  
G. A. H. Elton, N. Fisher, and D. G. Redman, joint authors.  
Relation to other wheat proteins.
- 65135 BALLSCHMIETER, H. M. B. The sorption isotherms of flour, flour products, and other foods at 30° C. (Ge) Getreide Mehl 17(10):118-120. Ref. Oct.1967. 298.8 G332
- 65136 BICKNELL, G. R. The "gleam" of consolidation is becoming a reality. Yield 3(10):4. Jan. 1968. HD1491.A1Y5  
Of grain elevators cooperatives.
- 65137 BOLLING, H., and ZWINGELBERG, H. Milling problems with various diagram techniques. (Ge) Muhle 105(1):5-6. (Cont.) Jan.4,1968. 298.8 M89
- 65138 BOULWARE, J. H. India moves closer to peak foodgrain crop. Foreign Agr. 6(13):11. Mar.25, 1968. A281.9 F76Fo
- 65139 BOYLAN, A. Storage and outloading as applied to flour and feed milling. Milling 149(24):470, 472,474,476,478,484. Dec.15,1967. 298.8 M622
- 65140 BRUCKNER, G. Methods for the determination of the milling degree of flour. (Ge) Arb. Getreideforsch. Ber. Getreidechem.-Tag. 1967:99-107. Ref. p.104-107. 389.9 Ar1
- 65141 BUENOS AIRES. MERCADO DE CEREALES A TERMINO. Memoria, 59° ejercicio al 30 de junio de 1967 [Report, 59th season as of June 30, 1967, of the Buenos Aires Grain Futures Market]. Buenos Aires, 1967. 52 p. 280.39 B86
- 65142 CANADA. BUR. OF STATISTICS. Flour mills, 1965. Ottawa, 1967. 18 p. (Annual Census of Manufactures) 298.9 C16
- 65143 CHAKRAVARTI, A. K. The areal relationships of foodgrain production and agricultural population in India 1921-1951. Diss. Abstr., Sect. B, 28(3):934B. Sept.1967. Z5055.U49D53
- 65144 CHARBONNIERE, R., and others. Investigations on the birefringence of cornstarches with different amylose content. (Ge) Arb. Getreideforsch. Ber. Getreidechem.-Tag. 1967:215-223. Ref. 389.9 Ar1  
C. Mercier, M. T. Toller and A. Guilbot, joint authors.
- 65145 CONCHIE, J., GELMAN, A. L., and LEVY, G. A. Inhibition of glycosidases of aldonolactones of corresponding configuration. Biochem. J. 106(1):135-140. Ref. Jan.1968. 382 B52  
Includes barley and almond emulsin.
- 65146 DALRYMPLE, D. G. New directions in rice production and marketing. Int. Agr. Develop. 40:11-14. Feb.1968. aS544.A316
- 65147 DEUTSCH, G. P., and CLYDE, D. H. Flow and pressure of granular materials in silos. Amer. Soc. Civil Eng. J. 93(EM6,proc.paper. 5660):103-125. Ref. Dec.1967. 290.9 Am3Ps  
Grain silos.
- 65148 DONELSON, J. R., and YAMAZAKI, W. T. Enzymatic determination of starch in wheat fractions. Cereal Chem. 45(2):177-182. Mar.1968. 59.8 C33
- 65149 DREWS, E. Evaluation of methods of determining the sprouting damage in rye in the field of higher amylase activity. (Ge) Getreide Mehl 18(1):1-7. Ref. Jan.1968. 298.8 G332
- 65150 DREWS, E. Evaluation of the methods for determining the sprouting damage in rye in the realm of higher amylase activity. (Ge) Arb. Getreideforsch. Ber. Getreidechem.-Tag. 1967:175-190. Ref. p.189-190. 389.9 Ar1
- 65151 DZYADZIO, A. M., and KEMMER, A. S. Pnevmaticheskii transport na zernoperera-batyvayushchikh predpriyatiyakh [Pneumatic transportation on the grain processing enterprises]. Moskva, Kolos, 1967. 295 p. Ref. TJ1415.D9 1967
- 65152 EBER, D. S. AOM [Association of Operative Millers]-what it is, what it does. Northwest. Miller 275(3):12-13. Mar.1968. 298.8 N81
- 65153 ERLANDER, S. R., PURVINAS, R. M., and GRIFFIN, H. L. The transition from helix to coil at pH 12 for amylose, amylopectin, and glycogen. Cereal Chem. 45(2):140-153. Ref. Mar.1968. 59.8 C33  
Chiefly prepared from cornstarch.
- 65154 FOOD GRAIN TECHNOLOGIST'S RESEARCH ASSOCIATION OF INDIA. Proceedings of the fifth annual meeting of the general body for the year ending 1966. Bull. Grain Technol. 5(1):62-70. Mar.1967. TS2120.B8
- 65155 FRECK, J. A., and POWELL, E. L. Properties of commercial high-amylose starches. Cereal Sci. Today 13(4):167-170,188. Apr.1968. 59.8 C333  
Chiefly from corn.
- 65156 GEHLE, H. The screeners. (Ge) Muhle 105(1):1-2. (Concl.) Jan.4,1968. 298.8 M89
- 65157 GETREIDECHEMIKER-TAGUNG, DETMOLD, 1967. Report of the Grain Chemistry Conference. (Ge) Detmold, Granum-Verlag, 1967. 245 p. 389.9 Ar1
- 65158 GIBBINGS, C. W. A Canadian looks at some wheat questions. U. S. Nat. Adv. Comm. Food Fiber. Tech. Papers 8:67-100. Aug.1967. HD1751.A3  
Includes marketing and trade in Canada and the United States.
- 65159 GILLES, K. A., and SIBBITT, L. D. Quality factors of the 1967 durum crop. N. Dak. Farm Res. 25(2):13-20, map. Nov./Dec.1967. 100 N813B
- 65160 GOMME, F. R. Bulgur. U. S. D. A. Econ. Res. Serv. WS-203:12-39. Mar.1968. 1.9 Ec752F  
Includes processing.
- 65161 GRECO, C. Grains in Europe. (It) G. Agr. 78(3):28. Jan.21,1968. 16 R1G  
Situation.
- 65162 HAZELDINE, W. J. Cereals forward contracting. Great Brit. Min. Agr. Fish. Food. Agr. 74(7):314-316. July 1967. 10 G79J
- 65163 HISCOCKS, G. A., and PEARSON, G. G. A review of the world wheat situation. Can. Dep. Agr. Agr. Abroad 23(1):42-47. Feb.1968. 281.9 C1642A

- 65164 HOBSON, K. Wheat, world production and use. Wash. State Univ. Ext. E. M. 2341, rev. 6 p. Nov. 1967. 275.29 W27Mi
- 65165 HONOLD, G. R., and STAHMANN, M. A. The oxidation-reduction enzymes of wheat. IV. Qualitative and quantitative investigations of the oxidase. *Cereal Chem.* 45(2):99-108. Ref. Mar. 1968. 59.8 C33
- 65166 HOPF, L. Correction of yield in the short diagram. (Ge) *Mullerei* 21(1):3. Jan. 6, 1968. 298.8 M91
- 65167 HOUSE, H. L., and GRAHAM, A. R. Capric acid blended into foodstuff for control of an insect pest, *Tribolium confusum* (Coleoptera: Tenebrionidae). *Can. Entomol.* 99(9):994-999. Ref. Sept. 1967. 421 C16
- 65168 HULUGALLE, L. World situation and outlook for grain. In Warley, T. K., ed. *Agricultural producers and their markets*, p. 248-267. 1967. HD9000.6.A35  
Includes trade trends.
- 65169 IRVINE, G. N. Problems in milling research: The relation between milling degree and baking methods. (Ge) *Arb. Getreideforsch. Ber. Getreidechem.-Tag.* 1967:225-231. 389.9 Ar1
- 65170 JANICKI, J., and others. Changes in the composition of microflora during grain storage and their effects on the technological properties of the grain. (Ge) *Getreide Mehl* 17(10):113-117. (Cont.) Oct. 1967. 298.8 G332  
E. Kaminski, S. Stawicki, and H. Chrzanowska, joint authors.
- 65171 JAY, R. 4 ways to dry corn. *Farm Quart.* 22(4):74-76, 97, 99. Fall 1967. 6 F22995
- 65172 JENKINS, W. J. Grain production programs in Pakistan. *Can. Dep. Agr. Abroad* 23(1):37-39. Feb. 1968. 281.9 C1642A
- 65173 JOHNSON, R. M. Modified flour disk reflectance method as a measure of bread quality. *Cereal Sci. Today* 13(3):142-145. Mar. 1968. 59.8 C333  
Wheat test.
- 65174 JONES, J. L. Two systems for feed grain storage. *Arable Farmer* 3(1):56-57. Jan. 1967. S3.A7
- 65175 JORGENSEN, B. B., and JORGENSEN, O. B. Inhibition of barley malt alpha-glucosidase by tris (hydroxymethyl) aminomethane and erythritol. *Biochim. Biophys. Acta* 146(1):167-172. Ref. Sept. 12, 1967. 381 R522
- 65176 KAUSS, H. Biosynthesis of the glucuronic acid unit of hemicellulose B from UDP-glucuronic acid. *Biochim. Biophys. Acta* 148(2):572-574. Ref. Nov. 28, 1967. 381 B522  
From corn cobs.
- 65177 KENT, N. L., and EVERS, A. D. Premilling treatment of hard wheat at low temperature. *Milling* 149(25):497-499. Dec. 22, 1967. 298.8 M622
- 65178 KOELLER, H. L. Record seen for French wheat output, barley may fall. *Foreign Agr.* 6(16):16. Apr. 15, 1968. A281.9 F76Fo
- 65179 KRISANAMIS, P. Paddy price movements and their effect on the economic situation of farmers in the Central Plain of Thailand. *Diss. Abstr.*, Sect. 2, 28(6):1957A. Dec. 1967. Z5055.U49D5
- 65180 KUVSHINOV, I. S., and PIS'MENNAYA, D. N. Economic stimulants of increasing grain production. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 129:13-21. 1967. 20 M857  
Chiefly on prices and costs.
- 65181 LASZTITY, R. The relationships between the chemical structure and the rheological properties of gluten proteins. (Ge) *Nahrung* 12(1):3-16. Ref. 1968. 389.8 N142  
English summary.  
From wheat.
- 65182 LEFKOVITCH, L. P., and PIXTON, S. W. Calibrating moisture meters. *J. Stored Prod. Res.* 3(2):81-89. Aug. 1967. 421 J829  
Grain.
- 65183 LEGE, F. M. Australia reaps smaller wheat, rice crops. *Foreign Agr.* 6(11):8. Mar. 11, 1968. A281.9 F76Fo
- 65184 LOOKER, M. Group sponsors grain syndicate. *Arable Farmer* 1(11):8-10. Sept. 1967. A3.A7  
Storage cooperative in Britain.
- 65185 LUCHSINGER, W. W., and RICHARDS, A. W. Beta-glucosyl-transferase from germinated barley. *Cereal Chem.* 45(2):115-123. Ref. Mar. 1968. 59.8 C33
- 65186 LUDWICZAK, R. S., RYKOWSKI, A., and ZYNSKA, I. On some neutral constituents of corn (wheat) gluten. (Pol) *Rocz. Chem.* 41(9):1639-1642. 1967. 385 R59  
English summary.
- 65187 MAROUSEK, G. E. Production and distribution of south Idaho wheat, 1965-66. *Idaho Agr. Res. Progr. Rep.* 125, 29 p. June 1967. S53.E2  
Statistics.
- 65188 MATTHEWS, R. H., FIFIELD, C. C., and HARTSING, T. F. Assessing wheat quality with breads prepared by two formulations. *Cereal Chem.* 45(2):133-139. Ref. Mar. 1968. 59.8 C33
- 65189 MAXFIELD, D. W. A change in the locational pattern of production sites with a change in transportation rates: as applied to wheat export sites. *Diss. Abstr.*, Sect. B, 28(6):2472B-2473B. Dec. 1967. Z5055.U49D53
- 65190 MILLER, H. A micro centrifuge to determine water-retention properties of wheat flour. *Cereal Chem.* 45(2):109-114. Mar. 1968. 59.8 C33
- 65191 MIROCHA, C. J., CHRISTENSEN, C. M., and NELSON, G. H. An estrogenic metabolite produced by *Fusarium graminearum* in stored corn. *Symp. Microbial Toxins. Papers* 1966:119-130. 1967. QR115.S9 1966
- 65192 MUSSULMAN, W. C., and WAGONER, J. A. Electron microscopy of unmodified and acid-modified corn starches. *Cereal Chem.* 45(2):162-171. Mar. 1968. 59.8 C33
- 65193 NOVOTNY, D. J., and SVEC, R. J. European Economic Community's grain price system in operation. *Yield* 3(10):10. Jan. 1968. HD1491.A1Y5
- 65194 OLERED, R., and JONSSON, G. Electrophoretic studies on alpha-amylase in wheat. (Ge) *Arb. Getreideforsch. Ber. Getreidechem.-Tag.* 1967:207-214. 389.9 Ar1
- 65195 PATTON, J., and DISHAW, M. A. Flour color evaluation with the Green Agtron. *Cereal Sci. Today* 13(4):163-166, 188. Apr. 1968. 59.8 C333
- 65196 PFEILSTICKER, K., and RASMUSSEN, H. Investigations on the behavior of ethylene oxide in the gas treatment of foods. I. On the quantitative determination of ethylene oxide and its residual build-up in wheat in silo research. (Ge) *Z. Lebensmittel-Untersuchung -Forsch.* 136(1):1-7. Ref. 1967. 384 Z39
- 65197 POMA, J., and BURE, J. Practical use of mathematical interpretation of the Chopin alveogram curve. (Ge) *Arb. Getreideforsch. Ber. Getreidechem.-Tag.* 1967:147-174. 389.9 Ar1
- 65198 QUIRK, T, comp. Flour consumption in the United States. Northwest. *Miller* 275(1):9-12. Jan. 1968. 298.8 N81  
Statistics.
- 65199 ROSE, L. C., and SOLLE, H. Present status of conventional bread evaluation procedures. *Cereal Sci. Today* 13(4):179-183. Apr. 1968. 59.8 C333  
For the determination of the baking quality of wheat flour.
- 65200 ROSI, M. Alarms for grain. (It) *G. Agr.* 78(8):84. Feb. 25, 1968. 16 It1G  
Marketing and prices and the European Common Market.
- 65201 RYCHLIKOWA, I. Produkcja zbyszowa wielkiej wlasnosci w Malopolsce, w latach 1764-1805 [Production of grain on large estates in small Poland in the course of the years 1764-1805]. *Poland. Inst. Hist. Kult. Mater. Stud. Dziejow Gosp. Wiejskiego* 9(1), 146 p. Ref. 1967. 20.5 P76  
French summary.
- 65202 SHUKIS, A. J. Flour and dough improvers. *Bakers Weekly* 215(14):46-48. Apr. 8, 1968. 389.8 B172



- 65203 SIBBITT, L. D., and GILLES, K. A. The quality of North Dakota's 1967 hard red spring wheat. N. Dak. Farm. Res. 25(2):3-11, map. Nov./Dec. 1967. 100 N813B
- 65204 SULLIVAN, B. Wheat-based products for world use. Ass. Oper. Millers Bull. Oct. 1967:3006-3009. Ref. 298.9 A57  
Wheat concentrate with 20% protein and high amino acid content.
- 65205 SUPERBIE MENDIOLA, F. The barley and the malt industry in Mexico. Master Brewers Ass. Amer. Tech. Quart. 5(1):44-49. Ref. Jan./Mar. 1968. 390.9 M39T
- 65206 STAGE, G. Malts prepared with maximum economy of water. (Ge) Brauwelt 108(1/2):3-7. Ref. Jan. 3/5, 1968. 390.8 B732  
English summary.
- 65207 TIDEMAN, P. L. Wheat on the northern agricultural frontier, 1840-1920. Diss. Abstr., Sect. B, 28(6):2474B. Dec. 1967. Z5055.U49D53
- 65208 TRAYLOR, H. D., STELLY, R., and GRIGSBY, R. M. A \$20 million expansion in the rough rice drying and storage industry? Rice J. 71(2):3,6,8,10. Feb. 1968. 59.8 R36
- 65209 U. S. AGRICULTURAL STABILIZATION AND CONSERVATION SERV. 1968 wheat program. U. S. D. A. PA-856, 3 p. Jan. 1968. 1 Ag84Pro  
Acreage allotments.
- 65210 WALTHER, W. As SRS [Statistical Reporting Service] takes stock of wheat. Agr. Econ. Res. 52(2):2. Feb. 1968. 1 Ec7Ag
- 65211 WASHINGTON STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet: Barley. Wash. State Univ. Ext. E. M. 2303, rev., 2 p. Dec. 1967. 275.29 W27Mi
- 65212 WASHINGTON STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet: Wheat. Wash. State Univ. Ext. E. M. 2357, rev., 2 p. Nov. 1967. 275.29 W27Mi
- 65213 WESTERHOLD, R. W. An optimal grain storage system for the State of Ohio. Diss. Abstr., Sect. A, 28(6):1959A. Dec. 1967. Z5055.U49D5
- 65214 WHISTLER, R. L., and PYLER, R. E. Action of chlorine on wheat flour polysaccharides. Cereal Chem. 45(2):183-191. Ref. Mar. 1968. 59.8 C33
- 65215 WHITAKER, T. B. Theoretical and experimental studies of diffusion in spherical bodies with a variable diffusion coefficient. Diss. Abstr., Sect. B, 28(6):2396B. Dec. 1967. Z5055.U49D53  
Moisture movement in such agricultural products as grains.
- 65216 WYSS, E. Practical experience with the processing of maize. Milling 150(1):24-27. Jan. 1968. 298.8 M622
- 65217 YU, T. Y. S. Analysis of factors affecting the optimum size and number of country elevators in Indiana. Diss. Abstr., Sect. A, 28(6):1960A. Dec. 1967. Z5055.U49D5
- HONEY AND BEESWAX**
- 65218 ALDWORTH, J. Honey rev-up; an opportunity to expand industry horizons. Gleanings Bee Cult. 96(3):159-159, 188. Mar. 1968. 424.8 G47  
Assessing honey producers to pay for honey promotion.
- 65219 BECK, C. R. Economic problems we must face to survive. Amer. Bee J. 108(3):100-101. Mar. 1968. 424.8 Am3  
Honey prices, costs, and imports.

**LIVESTOCK AND LIVESTOCK PRODUCTS**

- 65220 BATE-SMITH, E. C., and INGRAM, M. Forty years of research on meat. Food Preserv. Quart. 27(3):67-72. Ref. Sept. 1967. 389.9 Au7F
- 65221 BENNETT, R. K. A look at the future—beef cattle. Can. Cattleman 31(2):18-19. Feb. 1968. 49 C16
- 65222 BONATO, C. Cattle raising in Italy and the Common Market. (It) Ital. Agr. 104(9/10):895-908. Sept./Oct. 1967. 16 It1
- 65223 BUCHWALD, W. The raw material basis for bacon production and prospects for its development. (Pol) Gosp. Miesna 20(2):8-11. 1968. 50.8 G69
- 65224 CALL, D. L. Impact of meat analogs on the livestock industry. Cornell Nutr. Conf. Feed Manufacturers. Proc. 1967:5-11. 389.79 C81
- 65225 CALZECCHI-ONESTI, A. The battle of meat and milk. (It) Ital. Agr. 104(9/10):889-892. Sept./Oct. 1967. 16 It1
- 65226 DEGRAFF, H. The livestock industry as a food source for humans. Cornell Nutr. Conf. Feed Manufacturers. Proc. 1967:1a-8a. 389.79 C81
- 65227 DRUCKER, A. N. A recent study on the rawhide of Brazil and tropical Africa. (Fr) Rev. Tech. Indus. Cuir 60(1):2-6, 9-10, 12, 15. Jan. 1968. 303.8 C89
- 65228 ELLIS, G. F. Alternative may be to integrate or capitulate. Cattleman 54(10):36-37. Mar. 1968. 49 C29  
Vertical integration in cattle industry.
- 65229 EUROPEAN CONGRESS OF MEAT RESEARCH INSTITUTES, 13, ROTTERDAM, 1967. [Abstracts of papers]. II. (Ge) Fleischwirtschaft 48(1):83-86. (Cont.) Jan. 1968. 280.38 F62
- 65230 FECHNEY, D. J. The meat industry and the EEC. New Zeal. Agr. Sci. 2(2):55-58. Sept. 1967. S17.N4  
New Zealand policies.
- 65231 FONTENIL, M. Guide to the European [Common Market] policy of mutton. (Fr) Patre 150:12-16. Jan. 1968. 45.8 P272
- 65232 GORBATOVA, V., RODINA, A., and FALEEVA, G. Meat industry in Holland. (Rus) Myasnaya Indus. SSSR. 1:42-45. Jan. 1968. 50.8 M58
- 65233 HARVEY, J. Threat or boon to agriculture? Meatless meats hold real promise. Grain Feed J. 125(2):14-16. Jan. 24, 1968. 298.8 G762
- 65234 KHINKOVSKI, TS. Trends in sheep industry in Bulgaria. (Bu) Zhivotnovudstvo 21(7):3-7. July 1967. 49 Z62
- 65235 KOVALENKO, A. D. Growth of animal industry in Bulgaria. (Bu) Zhivotnovudstvo 21(7):41-46. July 1967. 49 Z62
- 65236 KUTISH, F. A., and SITLER, H. G. A study of the economics of land use and livestock production in Greece. U. S. Int. Agr. Develop. Serv. IADS-S-16, 57 p. June 1967. aHD1407.A3  
U. S. Foreign Agricultural Service, cooperating.
- Chiefly livestock industry, including costs and returns, marketing, and suggested programs.
- 65237 PREISS, Measures for encouragement of stock raising in the German Federal Republic. (Fr) Rev. Elevage 23(2):73-74, 77-78, 81-82, 85. Feb. 1968. 49 B462
- 65238 ROSI, M. The problem of pastures with mountain. (It) G. Agr. 78(7):71. Feb. 18, 1968. 16 It1G  
Economic policy and livestock production.
- 65239 ROSSI, S. The second Green Plan; different factors for cattle raising. (It) Ital. Agr. 104(9/10):1101-1112. Sept./Oct. 1967. 16 It1
- 65240 ROUY, H. Animal production at the crossing of the ways. (Fr) Agr. Prat. 131(9):23-24. Oct. 1967. 14 J82
- 65241 SEABORG, D. The outlook for livestock and meat in 1968. Agr. Outlook Conf. [Proc.], 45th Annu. Conf., paper No. 13, 4 p. 1967. 1.90 C2Ou8  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 65242 SOMERS, R. K. Outlook for livestock and meats. Agr. Outlook Conf. [Proc.], 45th Annu. Conf., paper No. 30, 3 p. 1967. 1.90 C2Ou8  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 65243 SPAGNOLLI, G. The most dramatic problem of our age. (It) Ital. Agr. 104(9/10):893-894. Sept./Oct. 1967. 16 It1  
Introduction to this issue of the periodical which is on the importance of livestock raising.
- 65244 STEPHENS, P. R. EEC agricultural policy presents many hurdles. New Zeal. J. Agr. 115(3):101, 103. Sept. 1967. 23 N48J  
Livestock, meat and dairy products.

- 65245 SWINE production in Europe. (Fr) Rev. Elevage 23(2):103-104,107-108,111-112,115. Feb. 1968. 49 B462
- 65246 THOMSEN, H. The meat industry in the United States. (Ge) Germany. Bundesmin. Ernähr. Landwirt. Forsten. Ber. Landwirt. (n.s.) 45 (4):731-737. 1967. 18 G31
- 65247 WISNER, R. N. Estimated optimum inter-regional competition and location patterns in the southern cattle slaughtering industry in 1975. Diss. Abstr., Sect. A, 28(3):857A. Sept.1967. Z5055.U49D5
- Analysis and Composition
- 65248 ABERLE, E. D. Physical and biochemical properties of porcine muscle as affected by some adrenal hormones and post-mortem glycolytic parameters. Diss. Abstr., Sect. B, 28(3):931B. Sept.1967. Z6055.U49D53
- 65249 ANDO, N., and YAMAUCHI, K. Studies on oxidative rancidity in cooked meat. I. A modified steam distillation method for the determination of TBA number of meat. (Ja) Jap. J. Zootech. Sci. 39(1):41-47. Ref. Jan.1968. 49 N62  
English summary.  
Thiobarbituric acid test.
- 65250 BRACKELSBURG, P. O., and others. Relationship of sectional characteristics to beef carcass composition. J. Anim. Sci. 27(1):39-44. Jan.1968. 49 J82  
N. S. Hale, W. A. Cowan, and D. M. Kinsman, joint authors.
- 65251 CERVENKA, J. Importance of thermostatic testing of canned meat for export. (Cz) Veterinarstvi 17(5):202-203. 1967. 41.8 V6439
- 65252 DAVIDSON, R. J., and COOPER, D. R. The effect of ultraviolet irradiation on acid-soluble collagen. Biochem. J. 105(3):965-969. Ref. Dec.1967. 382 B52
- 65253 FACCINI, G., and MARCATO, P. S. Research concerning raw sausages containing potassium nitrate. (It) Nuova Vet. 43(5):583-587. Sept./Oct.1967. 41.8 N922  
English summary.
- 65254 GARDNER, G. A., CARSON, A. W., and PATTON, J. Bacteriology of prepacked pork with reference to the gas composition within the pack. J. Appl. Bacteriol. 30(2):321-333. Ref. Aug.1967. 448.39 S012
- 65255 GRASSMANN, W. The polytripeptide poly-(L-prolyl-glycyl-L-proline) as model of collagen. (Ge) Leder 19(2):21-28. Ref. Feb.1968. 303.8 L492  
English summary.
- 65256 HAMM, R., and RIESNER, K. The rheology of meat I. (Ge) Fleischwirtschaft 47(10):1122-1128. Oct.1967. 280.38 F62  
English summary.
- 65257 HAMM, R., and HOFMANN, K. Sulfur-containing compounds of meat. IV. (Ge) Z. Lebensmittel-Untersuchung-Forsch. 136(1):7-10. Ref. 1967. 384 Z39
- 65258 KOPECKÝ, A. On the evaluation of fat rancidity in freeze-dried meat by means of the thiobarbituric acid value. (Ge) Nahrung 12(1):87-91. 1968. 389.8 N142  
English summary.
- 65259 KORMENDY, L., SZEREDY, I., and MIHALYI, V. The influence of proteolytic enzymes on the heat loss of cured meat. (Ge) Nahrung 12(1):97-102. Ref. 1968. 389.8 N142  
English summary.
- 65260 LEISTNER, L., and AYRES, J. C. Molds and meats. Fleischwirtschaft 48(1):62-65. Ref. Jan.1968. 280.38 F62
- 65261 LOCKER, R. H., and HAGYARD, C. J. Variations in the small subunits of different myosins. Arch. Biochem. Biophys. 122(2):521-522. Nov. 1967. 381 Ar2  
In meat.
- 65262 MENCHER, J. R., and ALFORD, J. A. Purification and characterization of the lipase of *Pseudomonas fragi*. J. Gen. Microbiol. 48(3):317-328. Ref. Sept.1967. 448.3 J823  
In meat.
- 65263 OLSMAN, W. J. Chemical composition of beef and pork. (Du) Conserva 16(8):179-182. Feb. 1968. 389.8 C7632
- 65264 PRZEDZIECKA, T., and ZOLTOWSKA, A. Contents of hydrosulfide and mercaptans in canned meat as an index of changes originating from heat processing. (Pol) Inst. Przem. Miesnego. Roczn. 4:107-121. Ref. 1967. TS1950.15  
English summary.
- 65265 SALEH, B. A. H. S. The role of pyridine nucleotides, substrates, and intermediates in the enzymatic reduction of metmyoglobin in ground beef. Diss. Abstr., Sect. B, 28(3):932B-933B. Sept.1967. Z5055.U49D53
- 65266 STANKIEWICZ-BERGER, H. The influence of temperatures of 2° and 6°C on the dynamics of microbial growth in meat. (Pol) Inst. Przem. Miesnego. Roczn. 4:41-53. Ref. 1967. TS1950.15  
English summary.
- 65267 STAWICKA-CHOMIAK, D., and TYSZKIEWICZ, I. Investigations on the relationship between the tenderness and selected physico-chemical factors in maturing meat. (Pol) Inst. Przem. Miesnego. Roczn. 4:63-73. Ref. 1967. TS1950.15  
English summary.
- 65268 STEPANOVA, M. A. Evaluation of meat by the use of bromothymol blue and catalase number. (Rus) Veterinaria 10:108. Oct.1967. 41.8 V6426
- 65269 STOYA, W. Determination and evaluation of liver pastes. (Ge) Deut. Lebensm.-Rundsch. 64(1):12-15. Ref. Jan.1968. 389.8 D482
- 65270 TYSZKIEWICZ, S., and PANASIK, M. Comparison of wateriness of meat, as measured by selected methods, with its biophysical features, characterized by means of the intracellular concentration. (Pol) Inst. Przem. Miesnego. Roczn. 4:55-61. 1967. TS1950.15  
English summary.
- 65271 WENKER, K. On the meat basis of meat salad. (Ge) Deut. Lebensm.-Rundsch. 64(2):43-46. Feb.1968. 389.8 D482  
Composition.
- Consumption and Utilization
- 65272 U. S. CONSUMER AND MARKETING SERV. How to buy beef roasts. U. S. D. A. Home Gard. Bull. 146, 16 p. Jan.1968. 1 Ag84Hg  
Includes cuts.
- Distribution, Marketing, and Transportation
- 65273 ABRAMS, V. Know more about meat when you buy. Butter-Fat 45(6):27-28. Feb./Mar.1968. 44.8 B98
- 65274 BRION, A. Transportation of animals by rail, road, sea, and air. (Fr) Rev. Elevage 23(2):61-62,65-66,69-70. (Cont.) Feb.1968. 49 B462
- 65275 BUCKNALL, V. J. L. The history, functions and significance of F.M.C. (Meat) Limited. In Warley, T. K., ed. Agricultural producers and their markets, p.367-370. 1967. HD9000.6.A35  
Fatstock Marketing Corporation.
- 65276 COLE, D. L. Analysis of economic factors influencing price, organization, and facilities of the Wisconsin cooperative graded beef feeder cattle auction sales. Diss. Abstr., Sect. A, 28(3):849A. Sept.1967. Z5055.U49D5
- 65277 DANN, J. E. Bacon egg-style—here's one way to break the Danish stranglehold on the British bacon market. Pig Farming 16(4):20-21. Apr. 1968. 46.8 P623
- 65278 DRYER, G. New Wisconsin Center serves three co-ops. News Farmer Coop. 35(1):17. Apr. 1968. 166.2 N47  
Livestock.
- 65279 GARRETT, J. R. A cost analysis of Northwest livestock auctions. Diss. Abstr., Sect. A, 28(6):1954A. Dec.1967. Z5055.U49D5



- 65280 GASPARINI, U. The activity of the cattle market of Bologna during the latest ten years. (It) *Nuova Vet.* 43(4):495-516. July/Aug.1967. 41.8 N922  
English summary.  
Includes livestock statistics.
- 65281 HAWKINS, M. H. An analysis of structure and conduct in the wholesale meat industry in Ohio. *Diss. Abstr.*, Sect. A, 28(6):1955A. Dec.1967. Z5055.U49D5
- 65282 MAIER, J. L. Shorten fattening time; swine market in crisis. (Ge) *Ubersicht* 19(3):204-205. Mar.9,1968. 18 Ub3  
Includes prices.
- 65283 MARLEY, C. F. NFO [National Farmers Organization] hog marketing. *Cath. Rural Life* 16(10):4-5. Oct.1967. SI.C3
- 65284 MARTELLO, F. B. Organizations of zootechnic production. (It) *Ital. Agr.* 104(9/10):1091-1096. Sept./Oct.1967. 16 It1  
Associations for cattle marketing.
- 65285 MYERS, L. H., and HAVLICEK, J. Some theoretical aspects of short-term hog supply. *J. Farm Econ.* 49(5):1395-1400. Dec.1967. 280.8 J822
- 65286 NARAEVSKII, V. Purchasing of cattle according to weight and quality of beef. (Rus) *Myasnaya Indus. SSSR*. 1:37-39. Jan.1968. 50.8 M58  
In Latvia.
- 65287 ORGANISATION FOR ECONOMIC CO-OPERATION AND DEVELOPMENT. The market for beef and veal and its factors. Paris, 1967. 110 p. HD9433.A2O7  
World production and consumption, international trade, and factors influencing production and consumption.
- 65288 PEEL, L. J. A note on livestock selling: the 1840's and now. *Australian Inst. Agr. Sci. J.* 33(3):209-210. Sept.1967. 23 Au74
- 65289 PURCELL, W. D. An appraisal of the information system in beef marketing. *Diss. Abstr.*, Sect. B, 28(3):854A. Sept.1967. Z5055.U49D53
- 65290 SEREJO, J. DE G. On the need for establishing regulations on meat inspection in Mozambique. (Por) *Mozambique. Serv. Vet. An.* 10:447-455. 1962, pub.1966. 41.9 M872
- 65291 VAN HORN, T., and HUDSON, J. F. Procurement patterns of Louisiana packers and buyer practices at Louisiana auctions. *La. Agr. Exp. Sta. DAE Res. Rep.* 358, 59 p., map. Dec.1966. 100 L935  
Beef cattle and calves.
- 65297 KLEIN, R. Is dry sausage that is manufactured with glucono delta lactone adulterated? (Ge) *Fleischwirtschaft* 47(10):1100-1102, 1104. Oct.1967. 280.38 F62  
English summary.
- 65298 KOUDELA, K. Dynamics of the importance of tuberculosis, especially infections by *Mycobacterium avium*, in the sanitation of livestock products. (Cz) *Veterinarstvi* 17(5):195-198. 1967. 41.8 V6439
- 65299 KOUDELA, K. The significance of tumors in slaughtered animals from the point of view of meat hygiene. (Ge) *Fleischwirtschaft* 48(1):46-54. Ref. Jan.1968. 280.38 F62  
English summary.
- 65300 KULIKOV, V. Stencils from synthetic materials. (Rus) *Myasnaya Indus. SSSR*. 1:28-29. Jan.1968. 50.8 M58  
Meat labeling.
- 65301 LAIDET, M. The wrinkles and roughening of [sheep] hides. (Fr) *Patre* 150:29,31,33. Jan.1968. 45.8 P272
- 65302 LAT, J. Laboratory inspection of semi-finished livestock products and tidbits. (Cz) *Veterinarstvi* 17(5):199-201. 1967. 41.8 V6439
- 65303 MURRAY, G. J. B. Import inspection trailer saves time. *Agr. Marketing [Washington]* 13(3):14. Mar.1968. A280.38 Ag8  
Meat inspection.
- 65304 OCKERMAN, H. W., and CAHILL, V. R. Water extractability of muscle protein and factors which affect this procedure as a method of determining pork quality. *J. Anim. Sci.* 27(1):31-38. Ref. Jan.1968. 49 J82
- 65305 PIERCE, J. C. Federal-State cooperation: Livestock grades. *Agr. Marketing [Washington]* 13(4):15. Apr.1968. A280.38 Ag8
- 65306 SMITH-PILLING, S. H. Lamb grading for export. *New Zeal. Meat Prod.* 12(4):53,61. Jan.1,1968. 50.8 N48
- 65307 STEWART, A. Key to mink recovery must be quality pelt production. *Fur Trade J. Can.* 45(10):12-13. Oct.1967. 410 F965
- 65308 SWIERZBINSKA, I., and TURKOWSKI, T. New English regulations on tinned meat. (Pol) *Gosp. Miesna* 20(2):12-14. 1968. 50.8 G69
- 65309 THOMAS, P. R. Comparisons between buyer estimates of live cattle yield grades and actual carcass performance. *Diss. Abstr.*, Sect. A, 28(6):1958A. Dec.1967. Z5055.U49D5
- 65310 U. S. CONSUMER AND MARKETING SERV. Federal meat inspection; a statistical summary for 1967. U. S. Consum. Marketing Serv. C&MS-54, 16 p. Feb.1968. A280.39 C762
- 65311 U. S. CONSUMER AND MARKETING SERV. How to buy beef steaks. U. S. D. A. Home Gard. Bull. 145, 15 p. Feb.1968. 1 Ag84Hg  
Grades and cuts.
- 65312 WELZ, W. The labelling of mock turtle soups in the light of the new food labelling regulations. (Ge) *Fleischwirtschaft* 47(10):1095-1098. Ref. Oct.1967. 280.38 F62  
English summary.

#### Grading, Inspection, Standardization, and Quality

- 65292 DUNCUM, W. J. Do you understand the new regulations. *Meat Indus. [London]* 41(2):53,55. Feb.1968. 389.8 Im72  
Meat in Great Britain.
- 65293 GUALANDI, G., and PRATI, G. Considerations on three outbreaks of food poisoning. (It) *Nuova Vet.* 43(4):444-450. Ref. July/Aug.1967. 41.8 N922  
English summary.  
Caused by *Salmonella* contaminated meat.
- 65294 HADLOK, R., GRUNWALD, E., and BARTELS, H. Experiments in the differentiation of *Clostridium botulinum* from other types of clostridia in bacteriological meat inspection. (Ge) *Fleischwirtschaft* 48(1):39-44. Ref., p.42-44. Jan.1968. 280.38 F62  
English summary.
- 65295 HEIDA, J. An instrument for the control of the hygienic condition of different surfaces. (Du) *Tijdschr. Diergeneesk.* 93(2):89-91. Jan.15, 1968. 41.8 T431  
English summary.  
Meat inspection.
- 65296 KEMP, J. D., and others. Effect of fresh ham quality on aged ham quality. *J. Anim. Sci.* 27(2):366-369. Mar.1968. 49 J82  
D. L. Gammon, W. G. Moody, and J. A. Jacobs, joint authors.

#### Packing and Packaging

- 65313 GRIFFITHS, W. O. Centralized meat packaging: fresh versus frozen. *Amer. Manage. Ass. Manage. Bull.* 106:20-23. 1967. 249.09 Am3Ab

#### Prices, Price Control, and Rationing

- 65314 ENTZ, J. W. The "why and how" of price marking. *Amer. Cattle Prod.* 49(10):25, map. Mar.1968. 49 P94
- 65315 FRANZMANN, J. R. Slaughter cattle prices: Up or down? *Okl. Curr. Farm Econ.* 41(1):24-31. Mar.1968. 100 Ok4  
Statistical research.
- 65316 IVANOVIC, D. Price, an acute problem in swine production. (Se) *Glasnik* 17(1):36-44. 1968. 280.28 Z13

- 65317 JONES, L. L. Short-term forecasting models for average monthly prices of wholesale beef. Diss. Abstr., Sect. A, 28(6):1956A. Dec.1967. Z5055.U49D5
- 65318 MAIER, J. L. What determines swine prices? The origins of price movements. (Ge) *Ubersicht* 19(2):118-120. Feb.10,1968. 18 Ub3
- 65319 PANEK, J. 1968: tighter regulations of trade on the meat markets. (Ge) *Raiffeisen-Rundschau* 20(1):24-25. Jan.1968. 284.28 R132 Prices.
- 65320 PIERCE, J. C. Storm warnings for livestock industry; producers—overfeeding can bring a low price this year. *Agr. Marketing* [Washington] 13(3):3. Mar.1968. A280.38 Ag8
- 65321 SEABORGE, D. Hog output little change from last year. *Agr. Econ. Res.* 52(2):6. Feb.1968. 1 Ec7Ag Prices.
- Processing and Storage
- 65322 ALEXA, G., and CONSTANTIN, I. Contribution to the study of the behavior of the hide in direct contact with concentrated tanning solutions. (Fr) *Rev. Tech. Indus. Cuir* 60(1):16-25. Jan.1968. 303.8 C89 English summary.
- 65323 ANTHONY, W. E. Structural changes in the federally inspected meat processing industry, 1961-64. U. S. D. A. *Agr. Econ. Rep.* 129, 20 p., map. Feb.1968. A281.9 Ag8A
- 65324 BABANOV, G., and others. Electro-thermal meat loafs. (Rus) *Myasnaya Indus. SSSR.* 1: 33-36. Jan.1968. 50.8 M58  
N. Tkach, V. Mitsyk, V. Myslovich, I. Kondratyev, V. Bezuglaya, L. Prusova, S. Semkina, E. Tsinovaya, and O. Yurevich, joint authors.
- 65325 BASHILOV, I. Equipment for formation of meat loafs. (Rus) *Myasnaya Indus. SSSR.* 1: 27-28. Jan.1968. 50.8 M58
- 65326 BELLSTEDT, N. Freezing, deep cold storage, and thawing of meat. (Ge) *Fleischwirtschaft* 48(1):31-36, 38. Ref. Jan.1968. 280.38 F62 English summary.
- 65327 BONNETT, D. Survey of the modern Swedish tanning industry. *Leather* 167(4267, sup.):vi-xii. Jan.19,1968. 303.8 L48
- 65328 BORGER, K. Experiments for determining resistance capacity of commercial sausage casings against some chemical control materials. (Ge) *Prakt. Tierarzt* 48(11):495-496. Nov.1, 1967. 41.8 P882
- 65329 BUTLAND, P. Meat flavor improvement by combining yeast extract with hydrolysed vegetable protein. *Can. Food Indus.* 39(3):28-29. Mar.1968. 286.83 C166
- 65330 GIMEL'FARB, N. Mechanized transportation of carcasses on sectional suspension. (Rus) *Myasnaya Indus. SSSR.* 1:27. Jan.1968. 50.8 M58
- 65331 HETZEL, L. V., and SOMERVILLE, I. C. Unhairing calfskins and side leather by an enzymatic process. *Amer. Leather Chem. Ass. J.* 63(2):90-110. Ref. Feb.1968. 303.9 Am32 Hides and skins.  
Includes discussion.
- 65332 HILGELAND, P. H. Progress and technique in the food industry. 2. Bangers are big business. *Food Trade Rev.* 38(2):44-46. Feb.1968. 389.8 F7334  
In Great Britain.
- 65333 KOZLOWSKI, Z. The influence of storage time upon the amount of phenolic smoke constituents in meat minces. *Inst. Przem. Miesnego. Roczn.* 4:33-39. 1967. TS1950.15
- 65334 LITWINOWICZ, J. Spices and herbs applied to meat products. (Pol) *Gosp. Miesna* 20(2):17-19. 1968. 50.8 G69
- 65335 LYALL, N. Wider uses for pure yeast products. *Meat Indus.* [London] 41(2):29, 55. Feb. 1968. 389.8 Im72  
In meat processing.
- 65336 OKITANI, A., TAKAGI, O., and FUJIMAKI, M. The changes of "myosin B" during storage of rabbit muscle. IV. *Agr. Biol. Chem.* 31(8):939-946. Ref. Aug.1967. 385 Ag8B
- 65337 OLEWINSKI, S., and others. Establishing of optimal conditions for counterpressure pasteurization of hams and shoulders. (Pol) *Inst. Przem. Miesnego. Roczn.* 4:139-156. Ref. 1967. TS1950.15  
E. Kosiba, W. Kowalewski, and H. Miller, joint authors.  
English summary.
- 65338 ORLINSKA, H. Investigation on the preparation, packaging and storing of retail cut beef. (Pol) *Inst. Przem. Miesnego. Roczn.* 4:123-137. 1967. TS1950.15  
English summary.
- 65339 ROGOV, I., and ADAMENKO, V. Thermal processing of skinless hot dogs in the electromagnetic generator. (Rus) *Myasnaya Indus. SSSR.* 1:33. Jan.1968. 50.8 M58
- 65340 SCHNAKE, L. D., FRANZMANN, J. R., and HAMMONS, D. R. Economies of size in non-slaughtering meat processing plants. *Okla. Agr. Exp. Sta. Tech. Bull.* T-125, 38 p. Feb. 1968. 100 Ok4
- 65341 SUZUKI, A., NAKAZATO, M., and FUJIMAKI, M. Studies on proteolysis in stored muscle. I. Changes in nonprotein nitrogenous compounds of rabbit muscle during storage. *Agr. Biol. Chem.* 31(8):953-957. Ref. Aug.1967. 385 Ag8B
- 65342 TANDLER, K. Problems of hygiene and the maintenance of quality when making beef that is slightly infested with *Cysticercus bovis* fit for human consumption. II. Problems of maintenance of quality. (Ge) *Fleischwirtschaft* 47(11):1226-1234. Ref. Nov.1967. 280.38 F62 English summary.
- 65343 THOMPSON, J. W. The economics of beam-house practice on raw unpreserved hides and rectangular cutting of hides before tanning. (Fr) *Rev. Tech. Indus. Cuir* 60(1):26, 28, 30-32. Jan.1968. 303.8 C89  
English summary.
- 65344 TILGNER, D. J. The technology of frying. (Ge) *Fleischwirtschaft* 47(11):1201-1202. Nov.1967. 280.38 F62  
English summary.
- 65345 UHLIG, H. The problem of analytic determination of enzymatic tanning aids. (Ge) *Leder* 19(2):28-33. Ref. Feb.1968. 303.8 L492  
English summary.
- 65346 WITWICKA, K. Criteria for the choice of the optimal size of plants manufacturing sausages and other smoked foods. (Pol) *Inst. Przem. Miesnego. Roczn.* 4:175-215. Ref. 1967. TS1950.15  
English summary.
- Statistics
- 65347 CIOCOIU, F., and NICOLAE, I. Some aspects regarding the territorial distribution of animals in agricultural cooperatives from the zone supplying the town of Constanta. (Rum) *Bucharest. Inst. Cent. Cercet. Agr. Sect. Econ. Agr. An.* 3:80-92. 1966, pub.1967. HD2052.A115 1966  
English summary.
- 65348 DIACK, A. R. Sheep returns are obligatory and valuable. *New Zeal. J. Agr.* 115(3):111-112. Sept.1967. 23 N48J  
For government records.
- OILS AND OILSEEDS
- 65349 BADAMI, R. C., and DAULATABAD, C. D. Component acids of *Luffa aegyptiaca* and *acutangula* seed oils. *J. Sci. Food Agr.* 18(10): 445-446. Ref. Oct.1967. 382 S012



- 65350 BEMIS, W. P., and others. Composition of *Apo-danthera undulata* oil. *Can. J. Chem.* 45(21): 2637. Nov.1,1967. 470 C16B  
M. Moran, J. W. Berry, and A. J. Deutschman, joint authors.
- 65351 BORNMANN, G., and LOESER, A. The problem of chronic toxic effect of dichloromethane. (Ge) *Z. Lebensmittel-Untersuchung -Forsch.* 136(1):14-18. 1967. 384 Z39  
Used as solvent in fats and oils; tests with rats.
- 65352 BUZIASSY, C. Specificity of hydrolysis in heated triglycerides. *Diss. Abstr.*, Sect. B, 28(3):931B-932B. Sept.1967. Z5055.U49D53
- 65353 DAXENBICHLER, M. E., and others. Rape-seed meal autolysis, formation of diastereomeric (2R)-1-cyano-2-hydroxy-3,4-epithiobutanes from progointrin. *Can. J. Chem.* 45(17): 1971-1974. Ref. Sept.1,1967. 470 C16B  
C. H. Van Eiten, W. H. Tallent, and I. A. Wolff, joint authors.
- 65354 EIDELMAN, M. Analysis of chlorinated pesticide residues in fats and oils, utilizing dimethyl sulfoxide: a collaborative study. *Ass. Offic. Anal. Chem. J.* 50(3):591-595. June 1967. 381 As7
- 65355 ENNEVER, W. A. Marketing essential oils. *Trop. Sci.* 9(3):136-143. 1967. 26 T756
- 65356 FANIEV, G. G. Margarine industry in the USSR, during the 50 years of the Soviet power. (Rus) *Maslo-Zhir. Prom.* 11:7-12. Nov.1967. 307.8 M37
- 65357 GUILLAUMIN, R., and PERTUISOT, J. F. Nature of trienes formed during bleaching of activated earths. I. (Fr) *Rev. Franc. Corps Gras* 15(1):27-33. Ref. Jan.1968. 307.8 R32  
English summary, p.41.
- 65358 HILL, P. Cottonseed fit to compete. *Farm Quart.* 22(4):39-40,110-111. Fall 1967. 6 F22995  
Experiments to free it from gossypol.
- 65359 HILLMAN, J. S. Peanuts: U.S. agricultural and trade policy. *U. S. Nat. Adv. Comm. Food Fiber. Tech. Papers* 6:97-108. Aug.1967. HD1751.A3
- 65360 HOERR, C. W. Changing the physical properties of fats and oils for specific uses. *Baker's Dig.* 41(6):42-45. Dec.1967. 389.8 S11
- 65361 HOUCK, J. P., and MANN, J. S. An analysis of domestic and foreign demand for U.S. soybeans and soybean products. *Minn. Agr. Exp. Sta. Tech. Bull.* 256,59 p. Ref. 1968. 100 M66
- 65362 JACKSON, C. R. Development of fungi in peanuts during artificial drying. *Ga. Agr. Exp. Sta. Res. Rep.* 19,10 p. Nov.1967. S51.E22
- 65363 KNOOP, E., SAMHAMMER, E., and WAUSCH-KUHN, P. The crystal modification of saturated triglycerides. (Ge) *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. C:275-282. 1966. SF223.15 1966 v.3  
English summary, p.538.
- 65364 KROMER, G. W. Outlook for peanuts in 1967/68. *Agr. Outlook Conf. [Proc.]*, 45th Annu. Conf., paper No. 33,4 p. 1967. 1.90 C20u8  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 65365 KROMER, G. W. The U.S. coconut oil situation. *U. S. D. A. Econ. Res. Serv. FOS-242*: 26-33. Apr.1968. 1.9 Ec752F
- 65366 LAI, R., NAUDET, M., and UCCIANI, E. Oxo synthesis and lipochemistry. II. Supplementary study of hydroformylation of methyl oleate. (Fr) *Rev. Franc. Corps Gras* 15(1):15-21. Jan.1968. 307.8 R32  
English summary, p.41.
- 65367 LESYUIS, A. A., PIROG, B. I., and PODKOVANTSEVA, V. A. Refining of sunflower oil. (Rus) *Maslo-Zhir. Prom.* 1:13-15. Jan.1968. 307.8 M37
- 65368 LOEW, G. Oil bleaching with bleaching earths. (Ge) *Seifen-Ole-Fette-Wachse* 93(21):799-804, 810. (Concl.) Ref. Oct.11,1967. 307.8 Se4
- 65369 LOOSEN, R. The fats and oils situation in the United States. (Fr) *Oleagineux* 23(1):47-50. Jan.1968. 77.8 OL2  
English summary, p.XXXVIII.
- 65370 LOURY, M., FRANCOIS, R., and BLOCH, C. Influence of trace metals on the effectiveness of synergist mixtures with tocopherol base for control of autoxidation of methyl oleate. (Fr) *Rev. Franc. Corps Gras* 15(1):34-35. Jan.1968. 307.8 R32
- 65371 MCDONALD, D., and HARKNESS, C. Aflatoxin in the groundnut crop at harvest in Northern Nigeria. *Trop. Sci.* 9(3):148-161. 1967. 26 T756
- 65372 MOD, R. R., HARRIS, J. A., and SKAU, E. L. Binary freezing point behavior of some normal octadecenoic acids. *J. Chem. Eng. Data* 13(1): 115-117. Jan.1968. 381 C4242
- 65373 MKOLAJCZAK, K. L., and SMITH, C. R. Penta-acid triglycerides of *Chamaepeuce afra* seed oil. *Biochim. Biophys. Acta* 152(2):244-254. Ref. Mar.4,1968. 381 B522
- 65374 MIRZABEKOV, G. G. Automation of production in the oil-fat industry. (Rus) *Maslo-Zhir. Prom.* 11:5-7. Nov.1967. 307.8 M37
- 65375 MIZZI, Improve quality, reduce costs. (It) (Excerpts.) *G. Agr.* 77(49):574, map. Dec.3, 1967. 16 It1G  
On the olive oil industry.
- 65376 NAYA, Y., and KOTAKE, M. New monoterpenoids from hop oil. *Tetrahedron Lett.* 13:1645-1649. Feb.1968. 385 T29
- 65377 NECHAEV, N. A., and others. Hydrogenation of cottonseed oil on a stationary nickel-aluminum catalyzer with addition of molybdenum. (Rus) *Maslo-Zhir. Prom.* 1:15-18. Jan.1968. 307.8 M37  
D. V. Sokol'skii, F. G. Golodov, and V. I. Shlyakhov, joint authors.
- 65378 OKKERSE, C. Selectivity in the catalytic hydrogenation of fatty oils. (Du) *Chem. Weekbl.* 63(20):237-244. Ref. May 19,1967. 385 C42
- 65379 PERRON, R., and MATHIEU, A. Description of a simplified apparatus for thermal differential analysis for the examination of concrete fats. (Fr) *Rev. Franc. Corps Gras* 15(1):23-25. Ref. Jan.1968. 307.8 R32  
English summary, p.41.
- 65380 PEYRON, L., BENEZET, L., and GARNERO, J. Sesquiterpenic hydrocarbons of lavender, lavandin super and abrialis oils. (Fr) *Soc. Chim. Franc. Bull.* 8:3038-3039. Ref. Aug. 1967. 383 P21B  
English summary.
- 65381 PFAB, W., and BERNHART, K. The transition of lubricants from polystyrene to coconut fat. (Ge) *Deut. Lebensm.-Rundsch.* 64(2):33-37. Feb.1968. 389.8 D482  
English summary.
- 65382 POUJADE, R. Inauguration of the palm oil mill of the Sociedad Industrial Agraria La Palma. (Sp) *Oleagineux* 23(1):3-8. Jan.1968. 77.8 OL2  
English summary, p.XXXVII  
Colombia.
- 65383 PUSKI, G., and MELNYCHYN, P. Starch-gel electrophoresis of soybean globulins. *Cereal Chem.* 45(2):192-201. Ref. Mar.1968. 59.8 C33
- 65384 REINGARD, L. DE. A modern electric equipment in a new palm oil plant of the Ivory Coast. (Fr) *Oleagineux* 23(1):43-45. Jan.1968. 77.8 OL2
- 65385 ROLLET, M., CUISINAUD, G., and MONGHAL, M. A. Contribution to the study of aromatic distilled rose water. 1-2. (Fr) *Ann. Pharm. Franc.* 25(11):705-716. Nov.1967. 396.8 An7  
1, by M. Rollet, and M. A. Monghal; 2, by M. Rollet, G. Cuisinaud, and M. A. Monghal.
- 65386 RZHEKHIN, V. P. The development of research programs in the oil-fat industry, during the 50 years of the Soviet power. (Rus) *Maslo-Zhir. Prom.* 11:1-5. Nov.1967. 307.8 M37

- 65387 SAVAGE, J. World situation and outlook for oilseeds, oils and fats. In Warley, T. K., ed. *Agricultural producers and their markets*, p.231-243. 1967. HD9000.6.A35
- 65388 SCHMAUDERER, E. Studies on fats and oils in ancient cultures. 4. (Ge) *Deut. Apoth.-Zeitung* 108(2):34-40. Ref., p.39-40. Jan.1968. 396.8 Su2
- 65389 TEASDALE, B. F. Technology of edible fats prepared from oils of rape and other Cruciferae. (Fr) *Rev. Franc. Corps Gras* 15(1):3-13. Ref. Jan.1968. 307.8 R32  
English summary, p.41.
- 65390 TEXAS. UNIVERSITY. COTTON ECONOMIC RESEARCH. Texas cottonseed crushing mills and their products; 1965-66 season. Tex. Univ. Cotton Econ. Res. Res. Rep. 86,54-p. Apr.1967. 72.9 T319
- 65391 U. S. BUR. OF THE CENSUS. Fats and oils: production, consumption, and factory and warehouse stocks; summary for 1966. Washington, 1967. (Current Industrial Reports). 15 p. 157.41 F11242
- 65392 USHER, C. D., FAVELL, D. J., and LAVERY, H. A method for the determination of vitamin A, alpha- and beta-carotene in margarine, including the results of a collaborative test. *Analyst* 93(1103):107-110. Feb.1968. 382 An1
- 65393 WEDD, W. B. The marketing of oilseeds, oils and fats. In Warley, T. K., ed. *Agricultural producers and their markets*, p.244-247. 1967. HD9000.6.A35
- 65394 WOLFF, J. P. Physico-chemical methods of fats analysis. (Fr) *Chim. Analyt.* 50(1):18-24. Ref. Jan.1968. 383 An72  
English summary.
- POULTRY AND POULTRY PRODUCTS**
- 65395 BALDWIN, R. E., and others. High temperature storage of spray-dried egg white. 1-2. *Poultry Sci.* 46(6):1421-1437. Nov.1967. 47.8 Am33P  
O. J. Cotterill, M. M. Thompson, and M. Myers, joint authors.
- 65396 BARTON, T. Farm Bureau's broiler market service and grower relations. *Nat. Bargaining Conf. Proc.*, 11th Conf.:81-85. 1967. A280.39 C76  
American Agricultural Marketing Association, an affiliate of the American Farm Bureau Federation.
- 65397 BESCH, E. L., SLUKA, S. J., and SMITH, A. H. Determination of surface area using profile recordings. *Poultry Sci.* 47(1):82-85. Ref. Jan. 1968. 47.8 Am33P  
Eggs.
- 65398 BORTZ, A. New concepts in the art of bargaining. *Nat. Bargaining Conf. Proc.*, 11th Conf.:39-43. 1967. A280.39 C76  
Egg marketing cooperatives in California.
- 65399 BRETH, F. E. Decentralization aids Yugoslav poultry expansion. *Poultry Internat.* 7(2):46,48. Feb.1968. 47.8 P8698  
Vertical integration.
- 65400 CIANI, L. A. Pasteurizes by batch. *Food Eng.* 39(12):75-77. Dec.1967. 389.8 F737  
Eggs.
- 65401 DAWSON, L. E., and WILKINSON, R. J. Nitrogen fraction changes in turkey roasts during latter stages of cooking. *Poultry Sci.* 47(1):133-137. Ref. Jan.1968. 47.8 Am33P
- 65402 DEMAND, H. Conveys ice by air. *Food Eng.* 39(12):72-74. Dec.1967. 389.8 F737  
For poultry meat cooling.
- 65403 DONOVAN, J. W., DAVIS, J. G., and PARK, L. U. Sugar nucleotides of chicken egg white. *Arch. Biochem. Biophys.* 122(1):17-23. Ref. Oct.1967. 381 Ar2
- 65404 FISHER, H., BRUSH, M. K., and GRIMINGER, P. Effect of defatted egg powder and whole eggs on serum cholesterol levels of healthy students. *N. J. Agr. Exp. Sta. Bull.* 819,7 p. Feb. 1968. 100 N465
- 65405 FLAKE, G., and ANDERSON, R. Consumer response to use of turkey. *Utah Sci.* 28(4):121-123,129,132. Dec.1967. 100 UtlF
- 65406 GOFFINET, R., and LEDENT, A. Structure des productions avicoles en Belgique [Structure of poultry production in Belgium]. *Brussels. Inst. Econ. Agr. Cah. I.E.A.* 66,89 p. 1967. 281.9 B832
- 65407 GRAY, A. W. Seller held responsible for disease-free birds. *Poultry Meat* 5(3):50. Mar. 1968. 47.8 P8656
- 65408 HALL, K. N., and SPENCER, J. V. Quantitative comparisons of certain nucleotides and related compounds in chicken and turkey meat. *Poultry Sci.* 47(1):300-305. Ref. Jan.1968. 47.8 Am33P
- 65409 HENRY, W. R. Grower contracts; it pays to offer grower less risk, longer terms. *Broiler Indus.* 31(3):50-52. Mar.1968. 47.8 N45
- 65410 HESTER, O. C. Outlook for poultry and eggs in 1968. *Agr. Outlook Conf. [Proc.]*, 45th Annu. Conf., paper No. 19,4 p. 1967. 1.90 C2Ou8  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 65411 IVEY, M., CLABORN, H. V., and BRINKMAN, B. Method for residues of Zytron, O-2,4-dichlorophenyl O-methyl isopropylphosphoramidothioate, in chicken tissues and eggs. *Ass. Offic. Anal. Chem. J.* 50(3):634-637. June 1967. 381 As7
- 65412 JABAT, J. V. Backyard operations dominate North Vietnam poultry industry. *Poultry Internat.* 7(2):30,32. Feb.1968. 47.8 P8698
- 65413 JABAT, J. V. North Korea tries turkey. *Poultry Internat.* 7(2):42-43. Feb.1968. 47.8 P8698
- 65414 JAMES, P. E., and RETZER, H. J. Measuring egg shell strength by beta backscatter technique. *Poultry Sci.* 46(5):1200-1203. Sept. 1967. 47.8 Am33P
- 65415 JOHANNLUKENS, E. The up and down on the egg market. (Ge) *Ubersicht* 19(3):184-188. Mar.9,1968. 18 Ub3  
Prices.
- 65416 MORSE, L. J., and RUBENSTEIN, A. D. A food-borne institutional outbreak of enteritis due to Salmonella blockley. *JAMA (J. Amer. Med. Ass.)* 202(10):939-940. Ref. Dec.4,1967. 448.9 Am37  
Isolated from eggs.
- 65417 NIXON, D. M. Hot boning: new way to trim processing costs. *Poultry Meat* 5(3):A-16-A-18. Mar.1968. 47.8 P8656
- 65418 PARTMANN, W. Effects of subzero storage temperatures on free amino acids, the solubility of fibrillar proteins and the contractibility of chicken muscle. (Ge) *Fleischwirtschaft* 47(9):957-960. Sept.1967. 280.38 F62  
English summary.
- 65419 PIZZUTI, R. Cause and effect of economic integration in aviculture. (It) *G. Pollicoltori* 17(7):36-42. July 1967. 47.8 G43  
Includes discussion.
- 65420 SMITH, D. P., and BOOTH, R. E. Automation cuts cooked parts freezing tenfold. *Broiler Indus.* 31(3):54,56. Mar.1968. 47.8 N45
- 65421 SOUTHEASTERN POULTRY AND EGG ASSOCIATION. Poultry industry directory, 1968. n.p., 1968. 184 p. 225 So84
- 65422 STEWART, G. F. Fifty years of research on egg quality. *Food Preserv. Quart.* 27(3):73-82. Ref. Sept.1967. 389.9 Au7F
- 65423 TANMATSU, H., and others. The influences of silicone oil treatment on egg weight and egg qualities. (Ja) *Jap. Poultry Sci.* 5(1):15-20. Jan.1968. 47.8 N57  
I. Imai, M. Matsushima, and S. Noguchi, joint authors.  
English summary.
- 65424 UNDERDAL, B. Mercury in foods determined by activation analysis. I. Egg. (Da) *Nord. Veterinaarmed.* 20(1):8-9,13. Jan.1968. 41.8 N813



- 65425 U. S. CONSUMER AND MARKETING SERV. Poultry market statistics, 1967; annual summary. U. S. D. A. Statist. Bull. 421,54 p. Mar.1968. 1 Ag84St  
Includes eggs.
- 65426 VAN KOETSVELD, E. E., and VOUTE, E. J. Objective characteristics for the quality of fat chickens. (Ge) Fleischwirtschaft 47(9): 963-966. Ref. Sept.1967. 280,38 F62  
English summary.
- 65427 WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet: Chicken eggs, U.S. Wash. State Univ. Ext. E. M. 2331,rev.,2 p. Oct.1967. 275.29 W27Mi
- 65428 WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet: Chicken eggs, Washington. Wash. State Univ. Ext. E. M. 2330,rev.,2 p. Oct.1967. 275.29 W27Mi
- 65429 WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet: Chicken meat, U.S. Wash. State Univ. Ext. E. M. 2323,rev.,2 p. Oct.1967. 275.29 W27Mi
- 65430 WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet: Chicken meat, Washington. Wash. State Univ. Ext. E. M. 2324,rev.,2 p. Oct.1967. 275.29 W27Mi
- 65431 WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet: Turkeys, U.S. Wash. State Univ. Ext. E. M. 2314,rev.,2 p. Nov.1967. 275.29 W27Mi
- 65432 WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet: Washington turkeys. Wash. State Univ. Ext. E. M. 2315,rev.,2 p. Nov.1967. 275.29 W27Mi
- 65433 WILSON, S. P., MARKS, H. L., and JAMES, P. E. Associations among beta backscatter measurements and other measures of shell strength. Poultry Sci. 47(1)232-237. Ref. Jan.1968. 47.8 Am33P
- 65434 WOOTEN, P. Broiler growers bargain; Southern farmers bring in professional negotiators. Farm Quart. 22(4):56-57,115-117. Fall 1967. 6 F22995

## RUBBER AND RUBBER SUBSTITUTES

- 65435 AMERICAN CHEMICAL SOCIETY. DIV. OF RUBBER CHEMISTRY. 1961 bibliography of rubber literature (including patents). Lancaster, Pennsylvania, 1967. 1074 p. 241.4 B47
- 65436 ANSHEL, K. R. Problems and prospects of the Nigerian rubber industry. Nigerian J. Econ. Soc. Stud. 9(2):145-159. July 1967. 280.8 N56
- 65437 BOEL, M. An experimental approach to an advanced understanding of rubberlike elasticity. Diss. Abstr., Sect. B, 28(3):806B. Sept. 1967. Z5055.U49D53
- 65438 CAREY, R. M. K. Devaluation and the rubber industry. Rubber J. 150(1):10-12. Jan.1968. 305.8 In21  
In Great Britain.
- 65439 FAVRE, J. P. Study of 2-mercaptobenzothiazole zinc compounds and their development in the course of aging of rubber vulcanizates. II. (Fr) Soc. Chim. France. Bull. 1:237-242. Jan. 1968. 383 P21B
- 65440 KRYUCHKOV, A. P. Kauchuk [Rubber]. Ed. 2, rev. and enl. Moskva, Khimiya, 1967. 159 p. Ref. TS1890.K7 1967  
Industry.
- 65441 RUBBER forecast for '68. Rubber World 157 (4):47-49. Jan.1968. 305.8 In2
- 65442 SMITH, D. A. Compounding for flexibility. 1. Rubber J. 150(1):21-24. Ref. Jan.1968. 305.8 In21  
Of rubber.
- 65443 WHITE, D. W., and GROVER, G. H. Rubber process oil specifications. Rubber J. 150(1): 29-30. Jan.1968. 305.8 In21

- 65444 YAU, W., and STEIN, R. S. Optical studies of the stress-induced crystallization of rubber. J. Polymer Sci. Part A-2, Polymer Phys. 6(1): 1-30. Ref. Jan.1968. QD471.J62

## SEEDS

- 65445 COLLIER, J. W. [Texas] A&M's Foundation Seed Section. Tex. Agr. Progr. 14(1):19-20. Winter 1968. 100 T31Te
- 65446 DAVYDOV, V. A. On the problem of grading seeds. (Rus) Selekt. Semenovod. 6:62-64. Nov./Dec.1967. 61.9 Se5
- 65447 GRACE, J. P. War on hunger can be won. Agr. Nitrogen News 17(6):68,70,72-73. Nov./Dec. 1967. 381 Ag82  
New technology in seeds and chemicals as weapons in the War on Hunger.
- 65448 IOWA CROP IMPROVEMENT ASSOCIATION. Iowa growers of certified seed; plant certified seed grown in 1967. Ames, 1967. 32 p. 225 Io97
- 65449 LOBANOV, V. YA. From the history of seed certification. (Rus) Selekt. Semenovod. 6:27-30. Nov./Dec.1967. 61.9 Se5  
In USSR.
- 65450 MARINICH, P. E. State variety testing. (Rus) Selekt. Semenovod. 6:20-27. Nov./Dec.1967. 61.9 Se5  
Certification of seeds.
- 65451 NEBRASKA CROP IMPROVEMENT ASSOCIATION. 1967-68 directory, winter edition, Nebraska certified seed. Lincoln, 1967. 56 p. 225 N272
- 65452 PROKOP'EVA, T., and EROKHIN, D. The seed industry of vegetables, melons and feeding root crops. (Rus) Kartofel' Ovoshchi 11:22-25. Nov.1967. 75.8 K147
- 65453 RAGLESS, D. C. Some answers about seed certification. S. Australia J. Agr. 71(5):152-155. Dec.1967. 23 So84  
South Australia Seed Certification Scheme.
- 65454 ROLLIN, S. F. Recent significant changes in the Federal Seed Act and regulations. Seed World 102(3):4-6,20-21. Feb.9,1968. 61.8 Se52
- 65455 TANAKA, K. Electronic seed counter. (Ja) Jap. J. Breeding 17(4):59. Dec.1967. 64.8 J27
- 65456 YOSIOKA, I., and others. On the unexpected identity of theasapogenol D (=camelliagenin A), a minor sapogenol of tea seeds, with dihydropriveogenin A. Tetrahedron Lett. 52:5343-5347. Dec.1967. 385 T29  
T. Nishimura, N. Watani, and I. Kitagawa, joint authors.

## SUGAR AND SIRUPS

- 65457 BLAKE, R. Grower-processor bargaining in the sugarbeet industry. Nat. Bargaining Conf. Proc., 11th Conf.:44-53. 1967. A280.39 C76  
Cooperatives.
- 65458 BOBROVNIK, L. D., VOLOSHANENKO, G. P., and KOZYAVKIN, A. P. Migration of nonsugars, by electrodialytic clarification of green molasses. (Rus) Sakharn. Prom. 2:13-15. Feb.1968. 65.8 Sa2
- 65459 BRADFORD, D. Care of harvested beet. Brit. Sugar Beet Rev. 36(2):64. Dec.1967. 66.8 B77  
Storage.
- 65460 BURMAN, M. E. Starch and syrup industry in 1967 and their goals for 1968. (Rus) Sakharn. Prom. 2:1-6. Feb.1968. 65.8 Sa2
- 65461 CAYLE, T., VIEBROCK, F., and SCHIAFFINO, J. Gas chromatography of carbohydrates. Cereal Chem. 45(2):154-161. Mar.1968. 59.8 C33  
In various syrups.
- 65462 CHATTERJEE, A. C. D.M.C. process. Indian Sugar [Calcutta] 17(6):507-508. Sept.1967. 65.8 In26
- 65463 DELAVIER, H. J., and HIRSCHMULLER, H. The sugar economy of Kenya. (Ge) Z. Zucker-indus. 17(9):459-463. Sept.20,1967. 65.8 D48  
Sugarcane.

- 65464 DICK, W. E., BAKER, B. G., and HODGE, J. E. Preparation and characterization of 1,2,6,2',3',6'-hepta-O-acetyl-beta-maltose. Carbohydr. Res. 6(1):52-62. Ref. Jan.1968. 385 C172
- 65465 EDELER, H. Beet juice industry 1966/67. (Ge) Indus. Obst- Gemuseverwertung 52(24): 781-782. Dec.21,1967. 389.8 K832
- 65466 HAYENGA, M. L. Sweetener competition and sugar policy. J. Farm Econ. 49(5):1362-1366. Dec.1967. 280.8 T899
- 65467 HIRSCHMULLER, H., and DELAVIER, H. J. Sugar in the Soviet Union. (Ge) Z. Zuckerindus. 17(8):407-416, map. Aug.20,1967. 65.8 D48  
English summary.
- 65468 KAMMERER, X., and DELAVIER, H. J. Physical, chemical and microbial changes in sugar beet under freezing temperature. (Ge) Z. Zuckerindus. 17(8):419-427; (9):464-469. Ref. Aug.20-Sept.20,1967. 65.8 D48  
English summary.  
In storage.
- 65469 KOPELOVA, E. K. Estimating swelling properties in different kinds of starches. (Rus) Sakharn. Prom. 2:59-62. Feb.1968. 65.8 Sa2
- 65470 KWAN, P. C. Technical developments for bagasse saving in Taiwan factories. Sugar J. 30(7):35-38. Dec.1967. 65.8 Su391  
Cutting down on use as fuel in order to divert the supply to board and pulp manufacture.
- 65471 LADUR, T. A., and KRAVCHENKO, S. F. Increasing output of glucose, obtained by double combination with sodium. (Rus) Sakharn. Prom. 2:62-68. Feb.1968. 65.8 Sa2
- 65472 LESQUIBE, F. Extraction of tartaric acid by glucose nitric oxidation. (Fr) Indus. Aliment. Agr. 84(11):1493-1494. Nov.1967. 383 As7
- 65473 LEYNSELE, J. VAN. La politique de la betterave [Beet policy]. Marches Struct. Agr. 6,174 p., map. Ref., p.161-162. 1967. 281.8 M33
- 65474 LIDDIARD, R. E. World situation and outlook for sugar. In Warley, T. K., ed. Agricultural producers and their markets, p.205-212. 1967. HD9000.6.A35
- 65475 LISTOWSKY, I., and ENGLARD, S. Characterization of the far ultraviolet optically active absorption bands of sugars by circular dichroism. Biochem. Biophys. Res. Commun. 30(4):329-332. Feb.26,1968. 442.8 B5236
- 65476 LYGIN, E. S. Solubility of sucrose in water, depending on pH. (Rus) Sakharn. Prom. 2:16-17. Feb.1968. 65.8 Sa2
- 65477 MAKSYUTOV, V. A., and DUSHITSKII, YU. I. Determination of losses of sugar beets and their sugars, while transporting to the plant. (Rus) Sakharn. Prom. 2:50-53. Feb.1968. 65.8 Sa2
- 65478 MAURITIUS, CHAMBER OF AGRICULTURE. The president's report, 1966-1967. Port Louis, 1967. 70 p. 24 M44Re  
Chiefly sugar industry.
- 65479 MULLER, G., and REUTER, D. On the microbiology of sugar. (Ge) Nahrung 12(1):115-127. Ref. 1968. 389.8 N142  
English summary.
- 65480 PANFEROVA, E. V. Effect of soil content and the green leaves on sugar beets on their quality in storage. (Rus) Sakharn. Prom. 2:46-49. Feb.1968. 65.8 Sa2
- 65481 PANNELL, R. J. H. New advances in glucose syrups and their application to flour confectionery. Food Trade Rev. 38(3):50-53. Mar.1968. 389.8 F7334  
Analysis and properties.
- 65482 PLUM, G. Balancing the books for the 1965/66 sugar industry. (Ge) Z. Zuckerindus. 17(9): 473-482. Sept.20,1967. 65.8 D48  
Includes statistics.
- 65483 SCHLIEPHAKE, D., and ORLOWSKI, F. A. The effect of agitation by means of vapor bubbles on the crystallization velocity of sucrose. (Ge) Zucker 20(13):347-351. July 1,1967. 65.8 Z82  
English summary.
- 65484 SCHOTTNER, MRS. K. Packing for retail marketing in the sugar industry. (Hu) Cukoripar 21(1):29-32. Jan./Feb.1968. 65.8 C89  
German summary.
- 65485 SHASHA, B. S., and others. O-(alkyl- and aryl-oxythiocarbonyl) sugar derivatives. Carbohydr. Res. 6(1):34-42. Jan.1968. 385 C172  
W. M. Doane, C. R. Russell, and C. E. Rist, joint authors.
- 65486 SHEMILT, G. L. The marketing of sugar. In Warley, T. K., ed. Agricultural producers and their markets, p.213-230. 1967. HD9000.6.A35
- 65487 SIEVERS, M. Sugar beets and sugar production. (Ge) Statist. Monh. Schleswig-Holstein 19(11):243-274. Nov.1967. 265 Sch32Sm
- 65488 THE SOUTH African sugar yearbook 1966-67. Durban, 1967. 280 p. 65.8 So83
- 65489 THIELE, H. The influence of temperature on the crystallization of pure massecuite. (Ge) Z. Zuckerindus. 17(8):416-419. Aug.20,1967. 65.8 D48  
English summary.
- 65490 TOGYO Nenkan [Sugar industry yearbook], 1967. Tokyo, Togyo Shimbunsha, 1967. 702 p. 65.8 T57  
Includes statistics.
- 65491 TOGYO Nenkan [Sugar industry yearbook], 1968. Tokyo, Togyo Shimbunsha, 1968. 615 p. 65.8 T57  
Includes statistics.
- 65492 TREGUBOV, N. N., LADUR, T. A., and KHVO-ROVA, L. S. Improving conditions of crystallization and centrifugalizing of glucose massecuites by laminating them with green syrup. (Rus) Sakharn. Prom. 2:54-59. Feb.1968. 65.8 Sa2
- 65493 VAVRINECZ, G. Crystallography of sugar. I. Outer development of crystals. (Hu) Cukoripar 21(1):3-9. Ref. Jan./Feb.1968. 65.8 C89  
German summary.
- 65494 VERHAART, M. L. A., POEL, P. W. VAN DER, and VISSER, N. H. M. DE. The distribution of non sugars among the saccharose crystals and mother liquor. (Fr) Sucrerie Belge 87 (2):67-82. Ref. Oct.15,1967. 66.8 Su1  
English summary.

## TOBACCO

- 65495 ARYAL, H. Changing tastes dictate production of better tobaccos. Tobacco [New York] 166 (4):53-54. Jan.26,1968. 286.89 T552  
In Turkey.
- 65496 BILLICK, G. D. DE. Tobacco trends-Europe. Tobacco [New York] 165(25):12. Dec.22,1967. 286.89 T552
- 65497 BRUMARETSKII, V. E. Tobacco industry in Moldavia is growing. (Rus) Tabak 3:10-13. 1967. 69.8 T112
- 65498 BURTON, H. R., and BURDICK, D. Thermal decomposition of tobacco. I. Thermogravimetric analysis. Tobacco [New York] 165(25):23. Dec.22,1967. 286.89 T552
- 65499 BUTLER, R. Ten years of Oriental mechanization progress. Tobacco [New York] 166(4):42-44. Jan.26,1968.
- In tobacco processing in the Balkan Peninsula.
- 65500 DIBLAN, R. Future policies will look to further update Turkish production. Tobacco [New York] 166(4):51-52. Jan.26,1968. 286.89 T552
- 65501 EORSSY, J. New tobacco prices mean more economical production. (Hu) Magyar Mezogazdasag 23(11):9-10. Mar.13,1968. 19 M27
- 65502 FARDY, A. Lebanon looks for share of Oriental market. Tobacco [New York] 166(4):58-60. Jan.26,1968. 286.89 T552  
Production, industry and trade of tobacco.
- 65503 FEDOTENKO, V. A., and ZHURAVLEV, N. V. Effect of temperature and tobacco moisture on its mechanical properties. (Rus) Tabak 3:28-32. 1967. 69.8 T112
- 65504 GEORGIEVSKI, K. The post-war years fruitful for Yugoslavia tobacco. Tobacco [New York] 166(4):61-63, map. Jan.26,1968. 286.89 T552



- 65515 GODFREY, H. D. A year of decision for flue-cured tobacco. Tobacco [New York] 165(7): 16-18, 20. Aug.18,1967. 286.89 T552
- 65516 GOLUBEV, A. M., and others. Some physical and mechanical properties of dry tobacco. (Rus) Tabak 3:37-39. 1967. 69.8 T112  
G. V. Nalivko, A. M. Golubev, and G. V. Nalivko, joint authors.
- 65517 HAYWARD, J. Care in reaping, curing can avoid "black" tobacco. Mod. Farming Cent. Afr. 4(7):15,17. Jan.1968. 24 M72
- 65518 JABAT, J. V. Japan—all signs pointing to a banner crop year for tobacco. Tobacco [New York] 165(24):14-15. Dec.15,1967. 286.89 T552
- 65519 MANTZARIS, N. Industry board [Hellenikos Organismos Kapnou] strengthening quality control programs to meet present market demands. Tobacco [New York] 166(4):18-19. Jan.26,1968. 286.89 T552
- 65520 MAURITIUS, TOBACCO BOARD. Report on the operations of the Tobacco Board and the Tobacco Warehouse, year ended 30th June 1967. Port Louis, 1967. 19 p. 69.9 M44
- 65521 NETHERLANDS. CENTRAAL BUR. VOOR DE STATISTIEK. Produktiestatistiek, tabakverwerkende industrie 1966 [Production statistics, tobacco processing industries 1966]. 's-Gravenhage, 1968. 35 p. 259 St2Pr  
English summary, and table headings in contents.  
Includes raw tobacco statistics.
- 65522 SABOURIN, L. Tobacco quality and combustibility as affected by its chlorine content. I. The industrial defects of high chlorine tobaccos. Coresta Inform. Bull. 2:14-23. 1967. 241 C78  
Text also in French.
- 65523 SACKRIN, S. M. Outlook for tobacco. Agr. Outlook Conf. [Proc.], 45th Annu. Conf., paper No. 32,4 p. 1967. 1.90 C20u8  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 65524 SCISM, J. E. Marketing chaos widens cleavage between multi-sale and one-sale markets. Tobacco [New York] 165(26):35-36. Dec.29, 1967. 286.89 T552
- 65525 SKANDALIS, E. SEKS's role two-fold in the Greek tobacco economy. Tobacco [New York] 166(4):21-22. Jan.26,1968. 286.89 T552  
A cooperative organization in Greece.
- 65526 SMITH, C. E. D. The marketing of tobacco. In Warley, T. K., ed. Agricultural producers and their markets, p.304-308. 1967. HD9000.6.A35
- 65527 SMITH, C. E. D. World situation and outlook for tobacco. In Warley, T. K., ed. Agricultural producers and their markets, p.297-303. 1967. HD9000.6.A35  
Price supports and trade.
- 65528 STOUT, S. E. Vacuum cooling process aids in tobacco storage problem. Tobacco [New York] 165(23):16-17. Dec.18,1967. 286.89 T552
- 65529 THASSITIS, B. Greek industry faces serious questions in '68. Tobacco [New York] 166(4): 15-16. Jan.26,1968. 286.89 T552
- 65530 THASSITIS, B. The Greek seasons of '66 and '67—a look back at some of the successes and disappointments. Tobacco [New York] 166(4): 39-40. Jan.26,1968. 286.89 T552  
Production output by districts and varieties of tobacco.
- 65531 THASSITIS, B. National Tobacco Office [Hellenikos Organismos Kapnou] under new management. (Ge) Tabak-J. Int. 4:252. Aug.20, 1967. 286.89 T117  
English summary.
- 65532 TOBACCO. Directory of Greek, Cypriot and Turkish tobacco suppliers. Tobacco [New York] 166(4):65-71. Jan.26,1968. 286.89 T552
- 65533 UMUR, A. Industry gearing to keep pace with national growth. Tobacco [New York] 166(4): 47-49. Jan.26,1968. 286.89 T552  
In Turkey.
- 65534 U. S. CONSUMER AND MARKETING SERV. TOBACCO DIV. Flue-cured tobacco market review, 1967 crop. Washington, 1968. 55 p., map. 1.9 Ec714T  
Statistics.
- 65535 WALKER, H. W. Whither tobacco? Va. Polytech. Inst. Ext. Va. Farm Econ. 206:9-14. Jan./Feb.1968. 275.29 V813  
Outlook as result of policies.
- 65536 ZUIKOVA, E. P., and BASKIN, I. I. Smoking qualities and physicochemical properties of "Samsuna" tobacco, grown in Krasnodar Territory. (Rus) Tabak 3:39-41. 1967. 69.8 T112

## MISCELLANEOUS PRODUCTS

- 65527 AITKEN, R. A., and others. Quantitative analyses of beer bittering substances by thin-layer chromatography. Inst. Brewing J. 73(6):528-534. Ref. Nov./Dec.1967. 390.9 In7  
A. Bruce, J. O. Harris, and J. C. Seaton, joint authors.  
In hops.
- 65528 ASHURST, P. R. The chemistry of the hop resins. Fortschr. Chem. Org. Naturstoffe 25:63-89. 1967. 384 F773  
Review of the literature.
- 65529 BOTELHO, A. T. Generalities on dried and salted fish. (Por) Conserv. Peixe 22(262):19, 24. Jan. 1968. 389.8 C7609
- 65530 CHRISTY, F. T. Protein concentrate and a rationalized fishery. In Alternatives for balancing world food production and needs, p.145-158. 1967. HD9000.5.A4
- 65531 COLE, H., and MCKEE, G. W. A storage decay of Crownvetch (*Coronilla varia*) "crowns" caused by *Fusarium roseum* and its control by fungicide dip treatments. Plant Dis. Rep. 51 (10):820-822. Oct.1967. 1.9 P69P  
Pennsylvania.
- 65532 DALEY, M. Progress in crab developments. Can. Food Indus. 39(2):33,36-37. Feb.1968. 286.83 C166  
Industry and processing.
- 65533 DE METS, M., and VERZELE, M. The aroma of hops. I. Origin and identification of hop aroma substances. Inst. Brewing J. 74(1):74-81. Jan./Feb.1968. 390.9 In7
- 65534 DUNBAR, D. Cut flower availability chart. Florists' Rev. 141(3656):11-13. Dec.21,1967. 80 W41
- 65535 GERMANY (FEDERAL REPUBLIC). STATISTISCHES BUNDESAMT. Gartenbau und Weinwirtschaft. V. Pflanzenbestände in Baumschulen; Obstgehölze [Horticulture and grape industry. V. Plant stocks in nurseries; Fruit stocks] 1967. Wiesbaden, 1967. 15 p. 265 G218Garn
- 65536 HOUWING, H., and RUITER, A. The preparation of long-keeping marinated mussels. (Fr) Rev. Conserv. 24,i.e.23(1):97-102. Jan.1968. 389.8 R326
- 65537 KOON, G. Standard grading, a must. Florists' Rev. 142(3668):16,40-41,43-44. Mar.14,1968. 80 W41
- 65538 OREGON. STATE DEPT. OF AGRICULTURE. PLANT DIV. Oregon licensed nurserymen 1967-1968. Salem, 1967. 68 p. 225 Or32
- 65539 PARIS, R., and HERISSET, A. Trials on "industrial lyophilization" of drug plants. VI-VII. (Fr) Ann. Pharm. Franc. 25(11):669-677. Nov. 1967. 396.8 An7  
Part VI is on *Digitalis purpurea*.
- 65540 PATTERSON, J. M. Container growing. 2. Financing the new business. Amer. Nurseryman 126(11):13,59-61. Dec.1,1967. 80 Am371
- 65541 SHEWAN B., J. M., and HOBBS B., G. The bacteriology of fish spoilage and preservation. In Hockenhyl, D. J. D., ed. Progress in industrial microbiology, v.6,p.169-208. 1967. 448.2 H652  
Review of the literature.
- 65542 VAN BOVEN, M., and VERZELE, M. 4-acetyl humulinic acids. Inst. Brewing J. 74(1):81-83. Jan./Feb. 1968. 390.9 In7
- 65543 WOSJE, D. C. Brine salting and smoking Lake Michigan chub (*Leucichthys hoyi*). Diss. Abstr., Sect. B, 28(3):933B. Sept.1967. Z5055.U49D53





## ANIMAL INDUSTRY

References on processing, distribution, economic aspects and statistics of livestock and livestock products are classified with Agricultural Products; references on housing of livestock with Agricultural Engineering.

## BREEDS AND BREEDING

- 65544 CHANGE, M. C. The reaction of uterine endometrium on spermatozoa and eggs. Nottingham. Univ. Easter Sch. Agr. Sci. Proc. 13th Easter Sch.:459-477. 1966, pub. 1967. S217.E2  
Review of the literature.  
Animals.  
Includes discussion.
- 65545 FOLEY, C. W., and WILLIAMS, W. L. Effect of bicarbonate and oviduct fluid on respiration of spermatozoa. Soc. Exp. Biol. Med. Proc. 126(3):634-637. Ref. Dec. 1967. 442.9 S01  
From rabbits, rams, and boars.
- 65546 HAYNES, N. B. The influence of the uterine environment on the phagocytosis of spermatozoa. Nottingham. Univ. Easter Sch. Agr. Sci. Proc. 13th Easter Sch.:500-512. 1966, pub. 1967. S217.E2  
Review of the literature.  
Animals.
- 65547 HORN, A. Genetical and environmental progress in livestock breeding. (Hu) Agrartud. Kozlem. 26(3/4):513-523. Ref. 1967. 19 B855
- 65548 IVANOV, P. Local breeds and their importance in livestock breeding. (Bu) Zhivotnovudstvo 21(11):32-35. Nov. 1967. 49 Z62
- 65549 JOCHLE, W. The circadian rhythm in female reproduction. Nottingham. Univ. Easter Sch. Agr. Sci. Proc. 13th Easter Sch.:267-281. 1966, pub. 1967. S217.E2  
Review of the literature.  
Livestock.  
Includes discussion.
- 65550 LABIK, K., and OREL, V. Practical and theoretical studies of the breeding of livestock in German Federal Republic. (Cz) Veterinarstvi 18(1):16-20. 1968. 41.8 V6439
- 65551 MILOVANOV, V. K. The development of the artificial insemination of farm animals in the USSR. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 1:63-72. 1968. 20 V633  
English summary.
- 65552 NOTTINGHAM UNIVERSITY. EASTER SCHOOL IN AGRICULTURAL SCIENCE, 13, 1966. Reproduction in the female mammal; proceedings, by G. E. Lamming and E. C. Amoroso. London, Butterworths, 1967. 583 p. S217 E2  
Review of the literature.
- 65553 PHILLIPS, R. W. Animal genetic resources. World Rev. Anim. Prod. 3(13, FAO spec. issue): 28-33. Ref. 1967. 49 W89
- 65554 RAJAKOSKI, E. J. Studies on reproduction. Penn. Vet. 10(1):5-6. Mar. 1968. 41.8 P38
- 65555 RICE, V. A., and others. Breeding and improvement of farm animals. Ed. 6. New York, McGraw-Hill, 1967. 477 p. Ref. SF105.R5 1967  
F. N. Andrews, E. J. Warwick, and J. E. Legates, joint authors.
- 65556 ROBERTSON, A. Animal breeding. Annu. Rev. Genet. 1:295-312. 1967. QH431.A1A5  
Review of the literature.
- 65557 RUSSE, I. Semen cells of mammals between mating and fertilization. (Ge) Naturwissenschaften 54(9):501-505. Ref. Oct. 1, 1967. 474 N213  
Livestock.
- 65558 SMIRNOV, L. Soviet Union—a birthplace of artificial insemination of livestock. (Bu) Zhivotnovudstvo 21(9/10):13-18. 1967. 49 Z62
- 65559 SOCIETY FOR THE STUDY OF FERTILITY. Proceedings of the annual conference, 1967. J. Reprod. Fertil. 14(2):343-353. Oct. 1967. 442.8 J8222  
Includes abstracts on livestock.

- 65560 ULBERG, L. C. Effects of macro- and micro-environment on the biology of mammalian reproduction. In Shaw, R. H., ed. Ground level climatology, p. 265-276. Ref. 1967. QC981.S5  
Chiefly livestock.
- 65561 VENEV, I. Some problems of selection in animal husbandry. (Bu) Zhivotnovudstvo 21(7): 23-27. July 1967. 49 Z62
- 65562 VOLOSKOV, P. A., and MIKHAILOV, N. N. Science of physiology and pathology of animal reproduction for the October jubilee. (Rus) Veterinaria 10:77-80. Oct. 1967. 41.8 V6426
- FEEDS AND FEEDING
- 65563 ANDERSON, E. W. Grazing systems as methods of managing the range resources. J. Range Manage. 20(6):383-388, map. Nov. 1967. 60.18 J82
- 65564 BAINTER, K., VITAL, MRS. I., and BODIS, MRS. L. Safe feeding with carbamide. (Hu) Magyar Mezogazdasag 23(9):15. Feb. 28, 1968. 19 M27  
Ruminants.
- 65565 BECKER, M. Nitrate and nitrite in livestock feed (a review of the literature). (Ge) Qualitas Plant. Mater. Veg. 15(1):48-64. Oct. 3, 1967. 64.8 M41  
English summary.
- 65566 BECKHOFF, J. Investigations on silage made in metallic silos with bottom unloaders. (Ge) Wirtschaftseigene Futter 14(1):62-70. Jan. 1968. 389.79 F98  
English summary.  
Composition and nutritive value.
- 65567 BIRO, GY. Feed saving in livestock nutrition. (Hu) Magyar Mezogazdasag 22(50):16. Dec. 13, 1967. 19 M27  
Use of various cheaper mixtures.
- 65568 CASELLI, R. Biosynthesis of vitamins. (It) Riv. Zootec. 40(9):496-503. (Cont.) Sept. 1967. 49 R52  
Includes vitamins in the diet of livestock.
- 65569 CHALUPA, W. Problems in feeding urea to ruminants. J. Anim. Sci. 27(1):207-219. Jan. 1968. 49 J82  
Review of the literature.
- 65570 CHATTERJEE, G. C. Ascorbic acid requirements of animals. In Sebrell, W. H., and Harris, R. S., ed. The vitamins, v.1, ed. 2, p. 495-500. 1967. QP801.V534 1967  
Review of the literature.
- 65571 CHATTERJEE, G. C. Effects of ascorbic acid deficiency in animals. In Sebrell, W. H., and Harris, R. S., ed. The vitamins, v.1, ed. 2, p. 407-457. 1967. QP801.V534 1967  
Review of the literature.
- 65572 CORNELL NUTRITION CONFERENCE FOR FEED MANUFACTURERS, BUFFALO, N. Y., 1967. Proceedings. Ithaca, 1967. 156 p. Ref. 389.79 C81  
Departments of Poultry Science, Animal Science and Biochemistry of the New York State College of Agriculture and the Graduate School of Nutrition, Cornell University, Ithaca, N. Y., in cooperation with the American Feed Manufacturers' Association.
- 65573 CROWDER, L. V., and RUTGER, J. N. Corn silage; should you go to high populations? Crops Soils 20(7):22-23. Apr./May 1968. 6 W55  
Effect of yields on silage quality.
- 65574 DIJKSTRA, N. D. Evaluation of various feeding stuffs derived from pasture on the basis of their starch value and digestibility. (Ge) Wirtschaftseigene Futter 14(1):71-83. Jan. 1968. 389.79 F98  
English summary.
- 65575 EKKELUND, S., and ENGEBECK, K. Determination of pepsin insoluble crude proteins. (Ge) Stockholm. Stat. Lantbrukskem. Kontrollanstalt. Medd. 29:19-44. Ref. 1967. 385 St6  
Feed.

- 65576 FALLER, H. Hormones in animal nutrition. (Ge) Tierzuchter 20(3):72-73. Feb.5,1968. 49 T445
- 65577 FERRANDO, R. Sanitary problem of feed additives; the process of their regulation and evaluation on a national and international plan. (Fr) Rev. Fr. Prod. Anim., Feb.1968:4,6-12. 47.8 C64
- 65578 FLAM, F. Investigation on the possibility of a utilization of nisin and nisin whey in the silaging of fodder. (Cz) Czech. Min. Zemed. Les. Hospod. Ustav Vedeckotech. Inform. Zivocisna Vyroba 40(9):693-704. Ref. Sept. 1967. 49.9 C33  
German summary.
- 65579 FROST, D. V. Recent advances in trace elements: emphasis on interrelationships. Cornell Nutr. Conf. Feed Manufacturers. Proc. 1967:31-40. Ref. 389.79 C81
- 65580 GESELLSCHAFT FÜR ERNÄHRUNGSPHYSIOLOGIE DER HAUSTIERE. 20th conference in Giessen, April 25, 26, and 27, 1966. (Ge) Z. Tierphysiol. Tierernähr. Futtermittelkunde 23 (1):30-60. Sept.1967. 389.78 Z3  
Summaries of papers.
- 65581 HARROLD, R. L. Further studies of corn distillers dried solubles fractions with rats, pigs and chicks. Diss. Abstr., Sect. B, 28(6):2202B-2203B. Dec.1967. Z5055.U49D53
- 65582 HAYER, W. T., ENGIBOUS, J. C., and MOOSE, M. G. Calcium and phosphorus effects on forage and animal production. Mont. Nutr. Conf. Proc., 19th Annu. Conf.:69-73. 1968. 389.79 M76  
-In soils.
- 65583 KAMETAKA, M. The nutritional significance of the endogenous nitrogenous compounds in the gastrointestinal tract. (Ja) Jap. J. Zootech. Sci. 39(1):1-11. Ref. Jan.1968. 49 N62  
Review of the literature.
- 65584 KÄRG, H. Estrogens and anti-estrogens in feed. I. (Ge) Z. Tierphysiol. Tierernähr. Futtermittelkunde 23(1):21-27. Ref. Sept.1967. 389.78 Z3  
English summary.
- 65585 KEWITZ, H. The use of medicated feed. (Ge) Berliner Münchener Tierärztl. Wochenschr. 80(14):265-268. July 15,1967. 41.8 B45  
English summary.
- 65586 MATSUSHIMA, J. K., and STENQUIST, N. J. Corn: Reconstituted, fine ground, dry rolled, ensiled, flaked. Colo. Farm Home Res. 18(2):3-5. Jan./Mar.1968. 100 C712Co
- 65587 MAXWELL, T. J., and RUNCIE, K. V. The use of urea and straw in the feeding of ruminants. Scot. Agr. 46(4):174-178. Autumn 1967. 10 Sco82So
- 65588 MAYS, D. A. Corn silage yield as affected by different harvesting techniques. Agron. J. 60(1):97-98. Jan./Feb.1968. 4 Am34P
- 65589 MILLER, W. J. Unusual ensiling character of Coastal [bermudagrass] requires precautions. Ga. Agr. Res. 9(3):8,10-11. Winter 1968. 100 G295
- 65590 MOORE, T. Effects of vitamin A deficiency in animals. In Sebrell, W. H., and Harris, R. S., ed. The vitamins, v.1, ed.2, p.245-266. 1967. QP801.V5S4 1967  
Review of the literature.
- 65591 MOORE, T. Requirements of vitamin A in animals. In Sebrell, W. H., and Harris, R. S., ed. The vitamins, v.1, ed.2, p.294-301. 1967. QP801.V5S4 1967  
Review of the literature.
- 65592 NYIREDY, I. The effect of microbiological quality of mixed feed on the function of the digestive canal. (Hu) Agrartud. Kozlem. 26(3/4):373-377. 1967. 19 B855
- 65593 PANAIOTOV, P. Ensiling corn with addition of molasses and urea. (Bu) Zhivotnovodstvo 21(7):31-35. July 1967. 49 Z62
- 65594 PATEL, B. M., SHUKLA, P. C., and PATEL, C. A. Studies on making silage from lucerne. Indian J. Agr. Sci. 37(4):259-263. Aug.1967. 22 Ag83I
- 65595 PIATKOWSKI, B., STEGER, H., and JUNG, H. Comparative studies on the nutrient consumption for the production of edible protein in early-weaned fattening calves, growing swine, and broilers. 1-2. (Ge) Arch. Tierernähr. 17 (4/5):321-343. Ref. July 1967. 389.78 Ar22
- 65596 ROBERTS, N. K. Discovering grazing values. J. Range Manage. 20(6):369-375. Nov.1967. 60.18 J82
- 65597 ROSIVAL, I. The influence of feeding urea and ammonia salts on the physiologic state of ruminant organism. (Cz) Veterinarstvi 17(10):454-457. 1967. 41.8 V6439
- 65598 SCOTT, J. T. High-lysine corn: How will it affect Midwest livestock and feed industries? Ohio Rep. Res. Develop. Biol. Agr. Home Econ. 53(2):26-27. Mar./Apr.1968. 100 Oh3S
- 65599 SCOTT, J. T. High-lysine corn, its likely future impact. Feed Bag 44(1):18-19. Jan.1968. 389.78 F32
- 65600 SCHUKKING, S., and BLUSTERVELDT, Q. P. M. VAN. Ensiling in tower silos and clamp silos. (Du) Landbouwmecanisatie 18 (9):853-857. Sept.1967. 58.8 L2352  
English summary.
- 65601 SLESINGER, L. Nutrition of livestock and the collaboration of veterinarians with feed industry. (Cz) Veterinarstvi 18(1):14-15. 1968. 41.8 V6439
- 65602 SONDEREGGER, H. Vitamins in practical animal nutrition. (Ge) Grune 95(44):1686-1693. Nov.3,1967. 17 Sch9
- 65603 SPRINGFIELD, H. W., and REID, E. H. Crested wheatgrass [Agropyron desertorum] for spring grazing in northern New Mexico. J. Range Manage. 20(6):406-408. Nov.1967. 60.18 J82
- 65604 SWIFT, G. The feeding value of whole crops forages. Scot. Agr. 47(1):43-45. Winter 1967/68. 10 Sco82So
- 65605 TAJI, K. Studies on the utilization of soiling forage grasses in warmer districts of Japan. X. Feeding value in green forage, hay, and silage of Italian ryegrass. (Ja) Jap. J. Zootech. Sci. 39(1):33-40. Ref. Jan.1968. 49 N62  
English summary.
- 65606 TAKANO, N. Studies on the quality improvement and evaluation methods of corn silage. (Ja) Hokkaido Nat. Agr. Exp. Sta. Res. Bull. 70,74 p. Ref. Aug.1967. 107.6 H68  
English summary.
- 65607 TKACHEV, I. F., and others. Carbohydrate yeasts as protein-vitamin feed. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 12:44-52. 1967. 20 V633  
F. A. Petunin, G. A. Taranenko, A. P. Bachikalo, N. S. Maksimenko, P. U. Onufriev, V. N. Semin, G. M. Bazhov, V. M. Kochetov, N. P. Peretitskaya, A. Ya. Golovko, V. V. Grigorov, V. G. Savenko, L. N. Tokareva, and N. A. Nyupenko, joint authors.  
English summary.
- 65608 TKACHEV, I. F., and others. Nutritive value of concentrates with vitamins and proteins. (Rus) Zhivotnovodstvo 1:87-90. Jan.1968. 49 Z6  
G. A. Taranenko, V. N. Semin, and V. G. Savenko, joint authors.
- 65609 TOMME, M. F., and others. The progress of animal feeding research. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 12:37-43. 1967. 20 V633  
N. I. Denisov, N. I. Leonov, M. T. Taranov, M. Yu. Tsyknov, and A. A. Berezovskii, joint authors.  
English summary.
- 65610 TROELSEN, J. E. Systems for estimating the nutritional quality of hay for domestic ruminants. Diss. Abstr., Sect. B, 28(6):2205B. Dec.1967. Z5055.U49D53



- 65611 VALENTINE, K. A. Seasonal suitability, a grazing system for ranges of diverse vegetation types and condition classes. *J. Range Manage.* 20(6):395-397. Ref. Nov.1967. 60.18 J82
- 65612 THE VITAMINS; chemistry, physiology, pathology methods. Volume I, edited by W. H. Sebrell and R. S. Harris. Ed. 2. New York, Academic Press, 1967. 570 p. QP801.V5S4 1967  
Review of the literature.  
Includes vitamins in animal and human nutrition.
- 65613 WEISSBACH, F., and LAUBE, W. Mode of action of alkali metabisulfites as additive in green forage ensiling. 2. (Ge) *Arch. Tierernähr.* 17(4/5):345-359. Ref. July 1967. 389.78 Ar22  
English summary.  
Potassium pyrosulfite and sodium pyrosulfite.
- 65614 WHITTENBURY, R., MCDONALD, P., and BRYAN-JONES. A short review of some biochemical and microbiological aspects of ensilage. *J. Sci. Food Agr.* 18(10):441-444. Ref. Oct.1967. 382 S012
- 65615 WILSON, W. O. Environmental temperature and feed-regulating mechanisms. In Shaw, R. H., ed. *Ground level climatology*, p.247-264. Ref. 1967. QC981.S5  
Livestock.
- VETERINARY MEDICINE**
- 65616 ABRAMOV, I. V. Veterinary protozoology for the jubilee of the Soviet State. (Rus) *Veterinaria* 10:52-55. Oct.1967. 41.8 V6426
- 65617 ADAMS, C. E. Ovarian control of early embryonic development within the uterus. Nottingham. Univ. Easter Sch. Agr. Sci. Proc. 13th Easter Sch.:532-548. 1966, pub.1967. S217.E2  
Review of the literature.  
Animals.  
Includes discussion.
- 65618 AKULOV, A. V., YUDIN, G. A., and ZEMSKOVA, Z. S. Morphological reactions in animals, caused by acid-fast saprophytes. (Rus) *Veterinariya* 9:43-45. Ref. Sept.1967. 41.8 V6426  
Saprophytic bacteria.
- 65619 ALLAM, M. W. Allied medical report. Penn. *Vet.* 10(1):11-14. Mar.1968. 41.8 P38  
History of the School of Veterinary Medicine of the University of Pennsylvania.
- 65620 AMBORSKI, R. L. Study of the effects of low molecular weight materials derived from animal tissues on the growth of animal cells in vitro. *Diss. Abstr.*, Sect. B, 28(6):2543B. Dec. 1967. Z5055.U49D53
- 65621 AMERICAN VETERINARY MEDICAL ASSOCIATION. Scientific proceedings of the 104th annual meeting, July 9-13, 1967, Dallas, Texas. *Amer. Vet. Med. Ass. J.* 151(12):1557-1940. Ref. Dec.15,1967. 41.8 Am3
- 65622 AUSTIN, V. H. Preceptorship. *Calif. Vet.* 22(1):14-17. Jan./Feb.1968. 41.8 C12  
A program for training veterinary students in California.
- 65623 AUSTRALIAN VETERINARY ASSOCIATION. The annual general meeting and conference, Melbourne, 22 to 26 May, 1967. *Australian Vet. J.* 43(8):329-337. Aug.1967. 41.8 Au72
- 65624 AUSTRALIAN VETERINARY ASSOCIATION. Conference papers, Melbourne, May, 1967. *Australian Vet. J.* 43(9):359-411. Ref. Sept.1967. 41.8 Au72.
- 65625 BADNJEVIC, B. Twenty years of activity of the State Veterinary Institute [Veterinarski Zavod] and the Research Institute of the Veterinary Faculty (Veterinarski Fakultet, Naucnoistraživacki i Dijagnosticki Institut) at Sarajevo. (Se) *Veterinaria [Sarajevo]* 16(1):3-54. Ref. 1967. 41.8 V6494  
English summary.
- 65626 BAKER, L. A. Needed: a new code of ethics. *Vet. Econ.* 8(11):50. Nov.1967. 41.8 V6458
- 65627 BARTIK, M., and MARCANIK, J. Use of isoenzymes of dehydrogenases of lactic acid in diagnosis. (Cz) *Veterinarstvi* 17(12):556-561. 1967. 41.8 V6439  
In veterinary medicine.
- 65628 BARTOS, J., and others. A contribution to the testing of resistance of bacteria to antibiotics. (Cz) *Veterinarstvi* 17(12):552-556. 1967. 41.8 V6439  
J. Lebduska, V. Horakova, and O. Matouskova, joint authors.
- 65629 BATES, R. How much merchandising help do dealers get? *Feed Farm Supplier* 41(9):43-44. Sept.1967. 47.8 H28  
Drugs for animal health.
- 65630 BELKOV, N. F., and KOSSIKH, V. P. The oldest veterinary institute of Siberia. (Rus) *Veterinariya* 9:111-113. Sept.1967. 41.8 V6426  
Omskii Gosudarstvennyi Veterinarnyi Institut.
- 65631 BOTHE, W. Witch and warlock—their importance and control in veterinary health among farmers in the Bavarian Forests. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 80 (21):419-421. Nov.1,1967. 41.8 B45  
English summary.
- 65632 BOYAKHCHYAN, A. B. From the history of veterinary medicine of Armenia. (Rus) *Veterinaria* 10:119-120. Oct.1967. 41.8 V6426
- 65633 BRAMBLE, A. J. Control of hydatid disease at abattoirs and country slaughterhouses. *Tasmanian J. Agr.* 38(4):309-312. Nov.1967. 23 T182T
- 65634 BRATANOV, K., and DIKOV, V. The influence of some immunity factors with agricultural domestic animals in cases of reproductive disturbances. (Ge) *Fortpflanzung, Besamung, Aufzucht Haustiere* 3(2):153-159. 1967. QP251.F6  
English summary.
- 65635 BRION, A. How do the animals sleep? (Fr) *Rev. Elevage* 23(1):75-76, 79-80. Jan.1968. 49 B462
- 65636 BRITISH SOCIETY FOR PARASITOLOGY. Proceedings of this meeting, 1967. *Parasitology* 57(4):1P-23P. Ref. Nov.1967. 448.8 P21  
Includes livestock.
- 65637 BROWN, F. The foot and mouth virus. *Sci. J.* 4(2):32-36. Feb.1968. Q1.S34
- 65638 BRUGGEMANN, J. Contributions to game biology and comparative animal physiology. (Ge) *Z. Tierphysiol. Tierernähr. Futtermittelkunde* 23(2):125-128. Ref. Nov.1967. 389.78 Z3
- 65639 BRUGGEMANN, J., GIESECKE, D., and WALSER-KARST, K. Contributions to the biology of game and comparative animal physiology. II. Microorganisms in the rumen of the red deer (*Cervus elaphus*) and roe deer (*Capreolus capreolus*). (Ge) *Z. Tierphysiol. Tierernähr. Futtermittelkunde* 23(3):143-151. Ref. Dec.1967. 389.78 Z3  
English summary.
- 65640 BULL, L. S., JOHNSON, D. E., and REID, J. T. The utilization of volatile fatty acids by ruminants. *Cornell Nutr. Conf. Feed Manufacturers. Proc.* 1967:83-96. 389.79 C81
- 65641 CAIRNEY, I. M. Foot and mouth disease. *New Zeal. Meat Prod.* 12(5):35-36. Feb.1,1968. 50.8 N48
- 65642 CAMPBELL, C. H. Effect of incubation temperature and serum content in agar overlay on plaque production by foot-and-mouth disease virus. *Can. J. Comp. Med. Vet. Sci.* 31(10):251-255. Ref. Oct.1967. 41.8 C162
- 65643 CARDEILHAC, P. T. Toxicity of 2-thiouracil unrelated to thyroid hormone. *Amer. J. Vet. Res.* 29(3):663-667. Ref. Mar.1968. 41.8 Am3A
- 65644 CARTER, G. R. Diagnostic procedures in veterinary bacteriology and mycology. Springfield, Illinois, Thomas, 1967. 282 p. Ref. QR49.C3

- 65645 CHERNYSHOVA, M. I., LARIONOVA, G. F., and KURDINA, D. S. Detection of R forms of Brucella by indirect fluorescent antibody. (Rus) Veterinaria 10:31-32. Oct.1967. 41.8 V6426
- 65646 CONSTANTINE, D. G., SOLOMON, G. C., and WOODALL, D. F. Transmission experiments with bat rabies isolates; responses of certain carnivores and rodents to rabies viruses from four species of bats. Amer. J. Vet. Res. 29(1): 181-190. Ref. Jan.1968. 41.8 Am3A  
Includes dogs.
- 65647 DANILEVSKY, V. M. About the degree of saturation of venous blood with oxygen. (Rus) Veterinariya 9:78-79. Sept.1967. 41.8 V6426
- 65648 DAVIDSON, R. M. Britain's experience with foot and mouth disease. New Zeal. J. Agr. 114 (6):32. June 1967. 23 N48J
- 65649 DAWE, D. L., MYERS, W. L., and SEGRE, D. Mechanism of action of Freund's complete adjuvant. Ill. Vet. 11(1):16. 1968. 41.8 IL62
- 65650 DEUTSCHE VETERINARMEDIZINISCHE GESELLSCHAFT. 11th working session of the German Society of Veterinary Medicine in Göttingen, September 27 to 29, 1967. (Ge) Alimentaria 7(1):1-7. Jan./Feb.1968. TP368.A4  
Summaries of papers.
- 65651 DVORAK, M. Activity of the Research Institute of Veterinary Medicine [Vyzkumny Ustav Veterinarniho lekarstvi] at Brno. (Cz) Prague. Vyzk. Ustav Zemed. Vestn. 14(5):218-220. 1967. 19.5 C333
- 65652 EBNER, K. E., and BRODBECK, U. Biological role of alpha-lactalbumin: a review. J. Dairy Sci. 51(3):317-322. Ref. Mar.1968. 44.8 J822
- 65653 ELIESHYUS, V. Prophylaxis of animal non-infectious diseases in a district. (Rus) Veterinaria 10:72-74. Oct.1967. 41.8 V6426
- 65654 ELLINGHAUSEN, H. C. Stimulation of Leptospiral growth by glucose. Amer. J. Vet. Res. 29(1):191-199. Ref. Jan.1968. 41.8 Am3A  
Leptospira pomona.
- 65655 ELLIS, H. R. Toxoplasmosis. Pract. Vet. 1: 26-27. Jan./Feb.1968. 41.8 AL5  
Transmission to animals and man.
- 65656 ERIKSEN, S. Value of animal health drugs given greater recognition. Feed Farm Supplier 41(9):14-15,20. Sept.1967. 47.8 H28
- 65657 ERSHOV, V. S. The All-Union K. I. Skryabin Institute of Helminthology [Vsesoyuznyi Institut Gel'mintologii imeni K. I. Skryabina]. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 11:133-136. Nov.1967. 20 V633  
Activities.
- 65658 ERSHOV, V. S. Veterinary helminthology for the jubilee of the Great October. (Rus) Veterinaria 10:49-52. Oct.1967. 41.8 V6426
- 65659 FEIGIN, R. D., and others. Live, attenuated Venezuelan equine encephalomyelitis virus vaccine. II. Amer. J. Trop. Med. Hyg. 16(6): 769-777. Ref. Nov.1967. 44.8 Am326  
-R. F. Jaeger, R. W. McKinney, and A. C. Alevisatos, joint authors.
- 65660 FERENCIK, M., LADZIANSKA, K., and CIZAR, I. Content of amino acids, fatty acids and some glycosides in the fungus Stachybotrys alternans. (Cz) Czech. Min. Zemedel. Lesniho Hospodar. Ustav Vedeckotech. Inform. Vet. Med. 40(8):451-455. Aug.1967. 41.9 C333  
English summary.  
Studies on the fungus as a cause of disease.
- 65661 FERRANDO, R., and others. Enterotoxemia in animals; causative role of feeding and raising methods. (Fr) Rec. Med. Vet. 143(12):1269-1280. Ref. Dec.1967. 41.8 R24  
P. Cottereau, L. Renault, L. Toucas, G. Muireau, and J. Laplassotte, joint authors.  
English summary.  
Resulting from feed contaminated with Welchia perfringens.
- 65662 FOUGEREAU, M. Phylogeny of the immune response. (Fr) Rec. Med. Vet. 164(1):5-20. Ref. Jan.1968. 41.8 R24  
English summary.
- 65663 GALKIN, V. N., GRACHEV, A. R., and SAVENKOV, A. V. Veterinary-zootechnical supply in the RSFSR. (Rus) Veterinariya 9:40-42. Sept.1967. 41.8 V6426
- 65664 GALLINA, L. Veterinary medicine has lost more than 65 percent of its students. (It) G. Agr. 78(2):16. Jan.14,1968. 16 It1G
- 65665 GARIBALDI, J. A. Media for the enhancement of fluorescent pigment production by Pseudomonas species. J. Bacteriol. 94(5):1296-1299. Ref. Nov.1967. 44.8 J82  
Egg white added to commercial media.
- 65666 GIBBONS, R. A., and SELLWOOD, R. A method for the estimation of  $^{45}\text{Ca}$  in biological samples using a specific adsorbant. Int. J. Appl. Radiat. Isotopes 19(2):129-134. Feb.1968. 334.8 In84  
Radioassay of blood plasma and urine samples.
- 65667 GRABER, M. Preliminary study of the biology of Haemonchus longistipes (Railliet et Henry, 1909) of dromedary (Camelus dromedarius); results obtained in the laboratory. (Fr) Rev. Elevage Med. Vet. Pays Trop. (n.s.)20(2):213-225. 1967. 41.8 R3262  
English summary.
- 65668 GUPTA, I., and BHIDE, N. K. Study of protective action of some CNS depressants in experimental Paspalum scrobiculatum poisoning. Indian Vet. J. 44(9):786-793. Ref. Sept.1967. 41.8 In2  
For livestock protection.
- 65669 GUTHRIE, R. K., BRUNSON, K. W., and STILES, J. C. A selective-differential medium for detection of Streptococcus agalactiae. Can. J. Comp. Med. Vet. Sci. 32(1):366-367. Jan. 1968. 41.8 C162
- 65670 HAPKE, H. J. Drug effects on the eye; summary review. (Ge) Deut. Tierarztl. Wochenschr. 74(14):368-372. (Concl.) July 15,1967. 41.8 D482
- 65671 HARTUNG, K., CLAUSS, W., and KELLER, H. Radiation protection while taking roentgen pictures of horses in veterinary practice (measurements of personal dosages). (Ge) Berliner Münchener Tierarztl. Wochenschr. 81(3):41-43. Feb.1,1968. 41.8 B45  
English summary.  
In diagnostic use.
- 65672 HOWLAND, K. E. U.K. foot-and-mouth scourge on the wane. Foreign Agr. 4(12):2-5, map. Mar.18,1968. A281.9 F76Fo
- 65673 JAMIESON, S. Rational quarantine. World Rev. Anim. Prod. 3(13,FAO spec.issue):40-45. 1967. 49 W89  
Requirements related to animal health.
- 65674 JAMIESON, S. Records of animal movements are keystone in disease control. New Zeal. J. Agr. 115(3):17-19. Sept.1967. 23 N48J
- 65675 JASMIN, A. M. Isolation and identification of the sporeforming anaerobes commonly encountered in domestic animals. Cornell Vet. 57(3): 364-382. Ref. July 1967. 41.8 C81
- 65676 JOHNSON, R. W., and ORLANDO, M. D. Growth of Rift Valley fever virus in tissue culture. Amer. J. Vet. Res. 29(2):463-471. Ref. Feb.1968. 41.8 Am3A
- 65677 JUDGE, F. J. The veterinarian's responsibilities under the Animal Welfare Act. Amer. Vet. Med. Ass. J. 151(12):1876-1882. Dec.15, 1967. 41.8 Am3  
Public Law 89-544, Laboratory Animal Welfare Act.
- 65678 KADAR, T. Tasks of livestock health services. (Hu) Magyar Mezogazdasag 23(8):17. Feb.21, 1968. 19 M27
- 65679 KAREV, V. P., and BELYAEV, M. G. Efforts for protection of young livestock. (Rus) Veterinaria 10:16-19. Oct.1967. 41.8 V6426  
Research in disease prevention.
- 65680 KARZANOV, G. I. Veterinary and sanitary service in town. (Rus) Veterinaria 10:98-100. Oct.1967. 41.8 V6426



- 65681 KATIC, R. V. Hygienic conditions and diseases caused by *Clostridium perfringens* in livestock. (Se) Vet. Glas. 21(7):593-601. Ref. 1967. 41.8 J93  
English summary.
- 65682 KLOOSTER, A. T. VAN'T. De toestand van calcium, magnesium en enkele andere mineralen in darminhoud en mest van herkauwers in verband met hun resorptie [The situation of calcium, magnesium, and other minerals in intestinal contents and feces of ruminants in relation to their absorption]. Wageningen. Landbouwhogeschool. Mededeel. 67(5), 135 p. 1967. 105.2 W122
- 65683 KOLESOV, S. G. State control of veterinary preparations in the USSR. (Rus) Veterinaria 10:12-16. Oct. 1967. 41.8 V6426  
Drugs and other preparations and their creators.
- 65684 KOLOBOLOTSKII, G. V. The achievements of veterinary and sanitary expertise for the 50 years of the Soviet State. (Rus) Veterinaria 10:101-103. Oct. 1967. 41.8 V6426
- 65685 KONYUKHOV, M. P., and POLUBOVARINOVA, G. V. The role of complement fixation and prolonged complement fixation in revealing immunity to theileriasis in previously-affected animals. (Rus) Veterinaria 10:56-59. Oct. 1967. 41.8 V6426
- 65686 KOUDELA, K., and TITERA, P. Current role of fascioliasis in fattened livestock. (Cz) Veterinarstvi 17(5):204-206. 1967. 41.8 V6439
- 65687 KOVALENKO, YA. R. The All-Union Institute of Experimental Veterinary [Vsesoyuznyi Institut Experimental'noi Veterinarii]. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 11:128-133. Nov. 1967. 20 V633  
Activities.
- 65688 KOVRIGIN, A. V. Veterinary service of Moscow City for the 50th anniversary of the October jubilee. (Rus) Veterinaria 10:94-98. Oct. 1967. 41.8 V6426
- 65689 KROGH, P. Mycotoxicosis. (Da) Danske Dyr-laegefor. Medlemsbl. 51(3):69-73. Ref. Feb. 1, 1968. 41.9 D23
- 65690 LANE, G. T., and others. Apparatus for obtaining ruminoreticular samples and the effect of sampling location on pH and volatile fatty acids. J. Dairy Sci. 51(1):114-116. Ref. Jan. 1968. 44.8 J822  
C. H. Noller, V. F. Colenbrander, K. R. Cummings, and R. B. Harrington, joint authors.  
Via rumen fistula.
- 65691 LAVERTON, S. Fighting the foot-and-mouth virus. New Sci. 36(574):586. Dec. 7, 1967. 472 N42  
Great Britain.
- 65692 LEIPZIG. KARL MARX UNIVERSITÄT. VETERINÄRMEDIZINISCHE FAKULTÄT. ARBEITSGEMEINSCHAFT "HERDENDIAGNOSTIK." Colloquium, held March 30, 1966 [of the Working Group "Herd Diagnostic," Veterinary Faculty, Karl Marx University]. (Ge) Fortpflanzung, Besamung, Aufzucht Haustiere 3(1):3-80. Ref. 1967. QP251.F6  
Papers presented.
- 65693 LEPPI, T. J., and SPICER, S. S. The histochemistry of carbohydrate-rich substances in certain ungulate salivary glands. Anat. Rev. 159(2):179-192. Ref. Oct. 1967. 447.8 A1  
In cattle, sheep, and swine.
- 65694 LIENERT, E., and JAHN, F. Forecasting trematocidal action of symmetrical biphenols supplied with electrons attracting substituents and various bonds by determining their pKa (and hRf) values. (Ge) Wien. Tierarztl. Monatsschr. 54(8):519-525. Aug. 1967. 41.8 T345  
English summary.  
Various substances tested against Fasciola hepatica.
- 65695 LOWER, H. F. Handle with care. S. Australia J. Agr. 71(5):138-143. Dec. 1967. 23 S84  
Insecticide toxicity to livestock and man, application precautions.
- 65696 LYON, W. F., and TREECE, R. E. Insect and mite pests of livestock, poultry, and farm buildings. Ohio. State Univ. Ext. Bull. 473, 12 p. Jan. 1968. 275.29 Oh32  
Chemical control.
- 65697 LYUBASHENKO, S. YA., and others. Tests of concentrated polyvalent adsorbate-vaccine against leptospirosis. (Rus) Veterinaria 10:40-43. Oct. 1967. 41.8 V6426  
L. G. Kostrikina, P. G. Deripasko, R. P. Kornelaeva, I. A. Loginov, V. M. Belyaev, V. M. Korolev, V. S. Slugi, and L. D. Gavrilova, joint authors.
- 65698 MALIAVIN, A. G., and SOLOVIEVA, V. S., and SHUPLIKO, A. N. Specific prophylaxis of leptospirosis of farm and fur-bearing animals. (Rus) Veterinaria 9:61-64. Sept. 1967. 41.8 V6426
- 65699 MANTOVANI, G. The predisposing factors for the appearance of infectious diseases of the newborn in the gastrointestinal region. (It) Veterinaria [Milano] 16(6):379-406. Nov./Dec. 1967. 41.8 V6499  
English summary.
- 65700 MARTIN, S. J., and BROWN, F. Effect of virus infection on the stability and synthesis of actinomycin-resistant ribonucleic acid in baby-hamster kidney cells. Biochem. J. 105(3):987-993. Ref. Dec. 1967. 382 B52
- 65701 MARTIN, S. J., and BROWN, F. Synthesis of ribonucleic acid in baby-hamster kidney cells in the presence of actinomycin D. Biochem. J. 105(3):979-993. Ref. Dec. 1967. 382 B52  
Virus study.
- 65702 MARUSICH, W. L., and others. Relative activity of D- and DL-alpha-tocopheryl acetate based on plasma levels. J. Anim. Sci. 27(1):58-67. Ref. Jan. 1968. 49 J82  
G. Ackerman, W. C. Reese, and J. C. Bauernfeind, joint authors.  
Trials with calves, rats, and chicks.
- 65703 MATTHAEUS, W. Determination of the electrophoretic mobility of foot-and-mouth disease virus in agar gel by measuring the radioactivity. (Ge) Zentralbl. Bakteriell. Parasitenk. Infektionskr. Hyg. Abt. I, Orig. 204(2):161-165. Aug. 1967. 448.3 C33  
English summary.
- 65704 MCKAY, K. A., CORNER, A. H., and BYRNE, J. L. Microbial persistence and latent infection. Can. J. Comp. Med. Vet. Sci. 31(10):256-259. Ref. Oct. 1967. 41.8 C162  
Includes resistance to antibiotics and other drugs.
- 65705 MCNUTT, S. H. Recommendations of the National Brucellosis Committee. Nat. Brucell. Comm. Proc., June 1966:43. aSF809.B8N3
- 65706 MERKAL, R. S. Susceptibilities of mycobacterial and nocardial species to benzalkonium chloride. Amer. J. Vet. Res. 29(3):759-761. Mar. 1968. 41.8 Am3A  
From various domestic species.
- 65707 MICHAELSON, S. M., and HODGE, H. C. Concepts and development of graduate training in toxicology at the University of Rochester. Amer. Vet. Med. Ass. J. 152(5):496-502. Mar. 1, 1968. 4p.8 Am3  
Veterinary toxicology.
- 65708 MICHALEC, C. The system of enzymes in the metabolism of animal sphingolipids. (Cz) Chem. Listy 61(12):1612-1643. Ref. Dec. 1967. 385 C425
- 65709 MICHIGAN VETERINARY MEDICAL ASSOCIATION. 1967-1968 membership yearbook. Holland, 1967. 54 p. 225 M585
- 65710 MOULTON, W. M. The Near East Animal Health Institute: international cooperation in disease control. World Rev. Anim. Prod. 3 (13, FAO spec. issue):54-60. 1967. 49 W89
- 65711 MOZGOV, I. E. Fifty years of Soviet veterinary pharmacology. (Rus) Veterinaria 10:60-65. Oct. 1967. 41.8 V6426

- 65712 NALBANDOV, A. V., and others. Comparative studies on progesterone synthesis in vitro—thoughts on corpus luteum formation. Nottingham. Univ. Easter Sch. Agr. Sci. Proc. 13th Easter Sch. 338-345. 1966, pub. 1967. S217.E2  
B. Cook, C. C. Kaltenbach, and P. L. Keyes, joint authors.  
Review of the literature.  
Animals.  
Includes discussion.
- 65713 NEPOKLONOV, A. A., and TALANOV, G. A. Contemporary preparations, used in control of livestock Hypoderma. (Rus) Khim. Sel'skom Khoz. 5(8):59-65. Ref. Aug. 1967. 385 K524
- 65714 NIPHADKAR, S. M., and RAO, S. R. Natural occurrence of *Schistosoma spindale* in *Bandicota bengalensis* in Bombay together with a note on their possible role in the dissemination of schistosomiasis spindale in domestic ruminants. Indian Vet. J. 44(7):563-565. July 1967. 41.8 In2
- 65715 NONGNIMBU CH'UKSAN'GUK. Nongnim t'ong-gye yonbo. suui wisaeng p'yon [Yearbook of agriculture and forestry statistics. Statistics of the veterinary service], 1967. n.p., 1967. 75 p. 269.7 K847
- 65716 NORDSTOGA, K. Spontaneous bilateral renal cortical necrosis in animals. Pathol. Vet. 4 (3):233-244. 1967. 41.8 P27  
Review of the literature.
- 65717 ONDRASEK, L., and SPACEK, A. Social and economic importance of diseases of animals. (Cz) Veterinarstvi 18(1):4-7. 1968. 41.8 V6439  
Includes losses.
- 65718 ONDRASEK, M. Veterinary education in Tanzania. (Cz) Veterinarstvi 18(1):37-38. 1968. 41.8 V6439
- 65719 ONTARIO VETERINARY ASSOCIATION. SMALL ANIMAL PRACTICE COMMITTEE. Standards of professional employment relationships. Can. Vet. J. 8(12):279-281. Dec. 1967. 41.8 R3224
- 65720 ORLOV, P. T. About practical measures directed to improvement of prophylaxis of non-infectious diseases of animals. (Rus) Veterinariya 9:76-78. Sept. 1967. 41.8 V6426
- 65721 PAGE, L. A. Proposal for the recognition of two species in the genus *Chlamydia* Jones, Rake, and Stearns, 1945. Int. J. Syst. Bacteriol. 18(1):51-66. Jan. 1968. 448.3 In8  
*Chlamydia trachomatis* and *C. psittaci*.
- 65722 PAVLOV, P. Institute of Parasitology of the Polish Academy of Sciences [Polska Akademia Nauk, Zaklad Parazytologii]. (Bu) Vet. Med. Nauk. 4(3):109-110. 1967. 41.8 V6468  
Includes livestock parasitology.
- 65723 PEARSON, W. E. How Great Britain is fighting foot & mouth. Feed Bag 44(2):14, 31. Feb. 1968. 389.78 F32
- 65724 PERSSON, G. Air pollution as a sanitary and economic problem. Index (Svenska Handelsbanken) 4(sup.), 8 p. 1967. 280.8 In23  
Includes damage to animals and plants.
- 65725 PIGNATTELLI, P., and FAUSTINI, R. Pharmacological behaviour of aminosidine sulfate following oral administration in some animal species of veterinary interest. (It) Nuova Vet. 43(4):346-354. July/Aug. 1967. 41.8 N922  
English summary.
- 65726 PILLONI, A. Factors and times of recovery in the irradiated organism. Veterinaria [Milano] 16(6):425-434. (Concl) Nov./Dec. 1967. 41.8 V6499
- 65727 PITRE, J. Determination of the sensitivity of bacteria to antibiotics in clinical veterinary; a proposition of a method of interpretation. (Fr) Rec. Med. Vet. 143(12):1253-1267. Dec. 1967. 41.8 R24
- 65728 POLAK, L. Current problems of veterinary medicine and their solution. (Cz) Veterinarstvi 18(1):1-4. 1968. 41.8 V6439
- 65729 PORTER, A. R. W., and CUNNINGHAM, I. J. Registration in Great Britain of New Zealand veterinary graduates. New Zeal. Vet. J. 15 (11):214-215. Nov. 1967. 41.8 N483
- 65730 RECUEIL DE MEDECINE VETERINAIRE. Deuxieme centenaire de l'Ecole Nationale Veterinaire d'Alfort et hommage a Gaston Ramon [The second centennial of the Alfort National Veterinary School and homage to Gaston Ramon]. Rec. Med. Vet. 143(11):1031-1212. Nov. 1967. 41.8 R24
- 65731 REES, H. G. Perspective. New Zeal. Vet. J. 15(11):197-205. Nov. 1967. 41.8 N483  
In veterinary medicine.
- 65732 ROSSNER, W., and WESTHUES, M. Survival time of electroencephalogram (EEG) under different experimental conditions. (Ge) Berliner Munchener Tierarztl. Wochenschr. 80 (16):310-315. Ref. Aug. 15, 1967. 41.8 B45  
English summary.
- 65733 RUD, V. N., RUD, I. A., and SHEKHOVTSOV, V. S. Luminescent method of cysticercosis diagnosis. (Rus) Veterinaria 10:104-107. Oct. 1967. 41.8 V6426
- 65734 RUDENKO, N. P. Efforts in creation of Soviet veterinary medicine. (Rus) Veterinaria 10:2-7. Oct. 1967. 41.8 V6426
- 65735 RUIZ HOLGADO, A. P. DE, and others. Serological investigation for antibodies against arboviruses in animals of the province of Tucuman, Argentina. (Sp) Ofic. Sanit. Panamer. Bol. 63(4):323-329. Oct. 1967. 449.9 P192B  
J. M. Raya, M. S. Sabattini, O. R. M. de Nader, and N. R. de Castagnaro, joint authors.  
English summary.  
Chiefly equine western encephalitis.
- 65736 RUSINOV, A. F. Application of corticosteroid preparations in clinical practice. (Rus) Veterinaria 10:67-68. Oct. 1967. 41.8 V6426
- 65737 SAKANYAN, S. SH. Investigations in immunopharmacology. (Rus) Veterinaria 10:65-66. Oct. 1967. 41.8 V6426
- 65738 SCHIFF, R. A safranin-fast green stain for the differentiation of the nuclei of rumen protozoa. Springfield, Virginia, Clearinghouse for Federal Scientific and Technical Information, 1967. 6 p. (Contract NONR 4709 00.) Microfiche Q350.A1C55. AD 651 632
- 65739 SCHREIBER, J. Topography of the Veterinary College of Vienna [Tierarztliche Hochschule]. (Ge) Wien. Tierarztl. Monatsschr. 54(11):699-716, map. Nov. 1967. 41.8 T345  
English summary.
- 65740 SEDLACEK, O. The outbreak of salmonellosis in the Ostrava district in 1966. (Cz) Veterinarstvi 18(1):30-34. 1968. 41.8 V6439
- 65741 SELEZNEV, N. D. Combination of trace elements for prophylaxis of disorders of blood-formation functions. (Rus) Veterinaria 10:75-76. Oct. 1967. 41.8 V6426  
Especially in study of nutritional anemia of baby pigs.
- 65742 SHARABRIN, I. G., and SMIRNOV, S. I. Achievements and prospects of prophylaxis and therapy of animal internal infectious diseases. (Rus) Veterinaria 10:69-72. Oct. 1967. 41.8 V6426
- 65743 SHCHUREVSKII, V. E. All-Union Institute of Experimental Veterinary Medicine [Vsesoyuznyi Institut Eksperimental'noi Veterinari] and 50th anniversary of Great October Revolution. (Rus) Veterinaria 10:8-11. Oct. 1967. 41.8 V6426
- 65744 SHESTOCHENKO, M. A. Express-diagnosis of causative agents of viral and bacterial diseases by means of luminescent microscopy. (Rus) Veterinaria 10:29-31. Ref. Oct. 1967. 41.8 V6426



- 65745 SHMANENKOV, N. A. The All-Union Institute of Livestock Physiology and Biochemistry [Vsesoyuznyi Institut Fiziologii i Biochemii Sel'skokhozyaistvennykh Zhivotnykh]. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 11:123-127. Nov.1967. 20 V633  
Activities.
- 65746 SICKENGA, F. N. The significance of salmonellosis for man. (Du) Tijdschr. Diergeneesk. 93(3):115-125. Ref. Feb.1,1968. 41.8 T431  
English summary.  
Includes livestock.
- 65747 SIMPSON, C. F. Marginal bands in the blood cells of four animal species. Cornell Vet. 57 (3):390-397. Ref. July 1967. 41.8 C81  
Erythrocytes of chicken and turkeys and thrombocytes of cattle.
- 65748 SINESHCENKOV, A. D. Research programs in livestock physiology. (Rus) Zhivotnovodstvo 11:28-30. Nov.1967. 49 Z6
- 65749 SIVOKHIN, N. A. Acute toxicity of cresyl ethers of N-methylcarbamic acid. (Rus) Veterinariya 9:87-89. Sept.1967. 41.8 V6426
- 65750 SMIRNOV, L. G. Pathogenetic therapy of foot-and-mouth disease complications. (Rus) Veterinariya 9:83-85. Sept.1967. 41.8 V6426
- 65751 SOLBERG, I. Streptococcus dysgalactiae; a possible disease-producing agent in various animal species. Nord. Veterinaarmed. 20(1):26-27. Jan.1968. 41.8 N813
- 65752 STALHEIM, O. H. V. A toxic factor in Leptospira pomona. Soc. Exp. Biol. Med. Proc. 126 (2):412-415. Ref. Nov.1967. 442.9 Sol
- 65753 STALHEIM, O. H. V. Vaccination against Leptospirosis: immunogenicity of viable, avirulent Leptospira pomona in hamsters, swine, and cattle. Amer. J. Vet. Res. 29(2):473-478. Ref. Feb.1968. 41.8 Am3A
- 65754 STEINER, H. A self supporting hoof-lifter. (Ge) Prakt. Tierarzt 49(1):7. Jan.1,1968. 41.8 P882
- 65755 STOCKL, W. Hormone antibodies. (Ge) Wien. Tierarztl. Monatsschr. 55(1):21-30. Ref. 1968. 41.8 T345  
English summary.
- 65756 STRAUB, C. The billion-dollar disease. Farm Quart. 23(2):76-79,121-122. Spring 1968. 6 F22995  
Foot-and-mouth disease.
- 65757 STRELTSOV, L. F., SHCHERBATYKH, P. YA., and NOSKOV, F. S. Diagnosis of Aujeszky's disease by the method of immunofluorescence. (Rus) Veterinaria 10:33-35. Oct.1967. 41.8 V6426
- 65758 SYMPOSIUM ON NITROGEN UTILIZATION BY THE RUMINANT. [Papers]. J. Dairy Sci. 51 (2):265-295. Feb.1968. 44.8 J822
- 65759 SYURIN, V. N. Achievements and problems of veterinary virology. (Rus) Veterinaria 10:25-28. Oct.1967. 41.8 V6426
- 65760 THACKER, R. Wiseman Hall Research Laboratories. Inst. Anim. Tech. J. 18(4):149-162. Dec.1967. QL55.I5  
At Ohio State University.
- 65761 THIELE, O. W., and HOFFMANN, K. Coenzym Q<sub>10</sub> in Brucella abortus Bang. Naturwissenschaften 55(2):86. Feb.1968. 472 N213
- 65762 THORLEY, H. British reel from foot and mouth epidemic. Cattleman 54(10):42,44. Mar. 1968. 49 C29
- 65763 THORPE, B. D., SIDWELL, R. W., and LUNDGREN, D. L. Experimental studies with four species of Brucella in selected wildlife, laboratory, and domestic animals. Amer. J. Trop. Med. Hyg. 16(5):665-674. Ref. Sept.1967. 448.8 Am326
- 65764 THORSELL, W. The in vitro effect of hexachlorophene on some enzymes in the liver fluke, Fasciola hepatica L. Parasitology 57(4):665-671. Ref. Nov.1967. 448.8 P21
- 65765 TITERA, P., and KOUDELA, K. National results of veterinary inspection of livestock for slaughtering and meat in Czechoslovakia during 1966. (Cz) Veterinarstvi 17(12):561-564. 1967. 41.8 V6439
- 65766 UBERTINI, B., and others. BHK 21 cell cultures for the large-scale production of foot-and-mouth disease virus. Zentralbl. Veterinarmed. Reihe B, 14(5):432-441. Ref. Aug. 1967. 41.8 Z52  
L. Nardelli, A. D. Prato, G. Panina, and S. Barei, joint authors.
- 65767 VIALI, G. Provisions for health protection of livestock. (It) G. Agr. 78(3):30. Jan.21,1968. 16 It1G  
Legislation.
- 65768 VISEK, W. J. Some aspects of ammonia toxicity in animal cells. J. Dairy Sci. 51(2):286-295. Feb.1968. 44.8 J822  
Review of literature.  
Ruminants.
- 65769 VISEK, W. J. Some recent knowledge on gastrointestinal absorption. Cornell Nutr. Conf. Feed Manufacturers. Proc. 1967:97-104. Ref. 389.79 C81  
In ruminants.
- 65770 VISIT USDA'S Animal Disease Laboratory. Hoard's Dairyman 113(4):198,202. Feb.25,1968. 44.8 H65
- 65771 VIVISECTION—vivistudy: the facts and the benefits to animal and human health. Amer. J. Public Health Nat. Health 57(9):1597-1626. Sept.1967. 449.9 Am3J  
Four papers presented at a joint Symposium of the American Public Health Association and the Conference of Public Health Veterinarians, 1966, San Francisco.
- 65772 VU-THIEN-THAI. Certain aspects of animal production in Vietnam. (Fr) World Rev. Anim. Prod. 3(13,FAO spec.issue):66-75. 1967. 49 W89  
English summary.  
Chiefly animal health and diseases.
- 65773 WALDO, D. R. Nitrogen metabolism in the ruminant. J. Dairy Sci. 51(2):265-275. Feb. 1968. 44.8 J822  
Review of the literature.
- 65774 WEINHOLD, P. A., and ANDERSON, L. Metabolism of myo-inositol in animals. III. Arch. Biochem. Biophys. 122(3):529-536. Ref. Dec. 1967. 381 Ar2
- 65775 WEIPERS, W. L. Postgraduate diplomas. Vet. Rec. 82(4):104-109. Jan.27,1968. 41.8 V641  
In Great Britain.
- 65776 WHEN foot and mouth disease struck the U.S.A. Okla. Cowman 8(2):10,22,25. Feb.1968. 43.8 Ok42  
A hypothetical case.
- 65777 WIDDRA, K. To the article of W. Kuntze; "Origin and meaning of the word veterinarian." (Ge) Deut. Tierarztl. Wochenschr. 74(18):465-467. Sept.15,1967. 41.8 D482
- 65778 WILLER, H., and MULLER, L. Latest developments of biological statistics in veterinary medicine. (Ge) Monatsh. Veterinarmed. 22 (14):561-563. July 15,1967. 41.8 M742  
English summary.
- 65779 WOELFFER, E. A. Can animals transmit diseases to man? Hoard's Dairyman 113(6):377. Mar.25,1968. 44.8 H65
- 65780 WOLTERS, K. L. Tetanus problem. (Ge) Prakt. Tierarzt 49(1):4-6. Jan.1,1968. 41.8 P882  
Control measures.
- 65781 WOODS, G. Research on respiratory diseases of livestock. Ill. Vet. 10(4):10. 1967. 41.8 IL62

- 65782 ZEETTI, R. Considerations over the use of alive attenuated vaccines prepared in Italy, in connection with international trade of animals and products of animal origin. (It) *Nuova Vet.* 43(4):429-435. July/Aug.1967. 41.8 N922 English summary.
- 65783 ZIV, R., PEREK, M., and RAZIN, S. The action of *Mycoplasma gallisepticum* upon chicken, rabbit, and cow erythrocytes. *Avian Dis.* 11(3):370-377. Aug.1967. 41.8 Av5

## MISCELLANEOUS

- 65784 AMERICAN SOCIETY OF ANIMAL SCIENCE. SOUTHERN SECT. Abstracts of papers to be presented at the meeting, February 5-February 7, 1968, Louisville, Kentucky. *J. Anim. Sci.* 27(1):283-303. Jan.1968. 49 J82
- 65785 ANDERSON, S., and JONES, J. K., ed. Recent mammals of the world; a synopsis of families. New York, Ronald Press, 1967. 453 p., map. QL703.A5  
Bibliography, p.407-433.  
Includes domestic animals.
- 65786 BENEZRA R., M. Climatic factors influencing livestock production. In Turk, K. L., and Crowder, L. V., ed. *Rural development in tropical Latin America*, p.367-374. Ref. 1967. HD1857.T8
- 65787 BOND, T. E. Microclimate and livestock performance in hot climates. In Shaw, R. H., ed. *Ground level climatology*, p.207-220. Ref. 1967. QC981.S5
- 65788 BOTTICELLI, S. General plan of the new slaughter-house of Pesaro. (It) *Nuova Vet.* 43(4):480-487. July/Aug.1967. 41.8 N922 English summary.
- 65789 ERNST, L. K. The All-Union Research Institute of livestock [Vsesoyuznyi Nauchno-Issledovatel'skii Institut Zhivotnovodstva]. (Rus) *Vestnik Sel'skokhoz. Nauk. [Moscow]* 11:120-123. Nov.1967. 20 V633  
Activities.
- 65790 FOX, M. W., and FRASER, A. F. Animal ethology (animal behaviour). *Vet. Annu.* 8:283-306. 1966/67. 41.8 V6456  
Review of the literature.
- 65791 HINDMARSH, W. L. The introduction of llamas into New South Wales. *Australian Vet. J.* 43(8):304. Aug.1967. 41.8 Au72
- 65792 HODGSON, R. E. Livestock production and the science of animal husbandry. *World Rev. Anim. Prod.* 3(13,FAO spec.issue):22-27. 1967. 49 W89
- 65793 KOMAROV, N. M. Hygiene of farm animals in the Soviet Union and its aims. (Rus) *Veterinaria* 10:90-94. Oct.1967. 41.8 V6426
- 65794 KRUSTANOV, KH. Twenty five years in service to science and practice. (Bu) *Zhivotnovodstvo* 21(9/10):23-31. 1967. 49 Z62  
Activities of Scientific Research Institute of Animal Husbandry [Nauchnoissledovatel'ski Institut po Zhivotnovodstvo] in Stara Zagora.
- 65795 LATVIETIS, YA. YA. The Latvian Research Institute of Livestock Husbandry and Veterinary Science [Latviiskii Nauchno-Issledovatel'skii Institut Zhivotnovodstva i Veterinariii], on occasion of anniversary. (Rus) *Zhivotnovodstvo* 11:52-54. Nov.1967. 49 Z6  
Research programs.
- 65796 MCDOWELL, R. E. Factors in reducing the adverse effects of climate on animal performance. In Shaw, R. H., ed. *Ground level climatology*, p.277-291. Ref. 1967. QC981.S5
- 65797 MENEAR, J. R. To study animal response to sonic boom! *Agr. Eng.* 49(2):86. Feb.1968. 58.8 Ag83
- 65798 NEALE, J. E. Hygienic farm slaughtering. *New Zeal. J. Agr.* 114(6):28-29. June 1967. 23 N48J  
Design for slaughterhouse.

- 65799 NESTEL, B. L. The Indicative World Plan for agriculture. *World Rev. Anim. Prod.* 3(13,FAO spec.issue):34-39. 1967. 49 W89  
Study of the livestock industry production by FAO.
- 65800 PHILLIPS, R. W. National, regional and international societies serving animal science. *J. Anim. Sci.* 27(1):251-261. Jan.1968. 49 J82
- 65801 RAUN, N. S. Professional animal scientist throughout the world. *J. Anim. Sci.* 27(1):267-272. Jan.1968. 49 J82
- 65802 RETZLAFFE, N. Conditions in communal slaughterhouses in the German Federal Republic. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 80(20):391-394. Ref. Oct.15, 1967. 41.8 B45  
English summary.
- 65803 SIMON, M. O. Half century of livestock husbandry in Siberia. (Rus) *Zhivotnovodstvo* 11:9-14. Nov.1967. 49 Z6  
Chiefly research programs.
- 65804 STONAKER, H. H. Land-grant universities in world animal production. *J. Anim. Sci.* 27(1):262-266. Jan.1968. 49 J82
- 65805 VUTOV, D. Preparation of cadres for mechanized animal husbandry—a primary task. (Bu) *Zhivotnovodstvo* 21(9/10):36-37. 1967. 49 Z62
- 65806 WERNBERG, N. E. Modern slaughterhouse planning and slaughtering technique. (Ge) *Fleischwirtschaft* 48(1):25-30. Jan.1968. 280.38 F62  
English summary.
- 65807 WILLIAMS, C. M. Livestock production in cold climates. In Shaw, R. H., ed. *Ground level climatology*, p.221-231. Ref. 1967. QC981.S5
- 65808 ZHIVOTNOVODSTVO Severnogo Kazakhstana [Livestock husbandry in the northern Kazakhstan]. Moskva, Kolos, 1967. 159 p. SF55.K3Z45

## CATTLE

## Breeds and Breeding

- 65809 ALIM, K. A. Cattle breeding in Sudan. (Ge) *Tierzuchter* 20(2):55-56, map. Jan.20,1968. 49 T445
- 65810 AL'TSHULER, V. E., and MAKOVSKII, V. I. Unsettled problems of evaluating bulls according to their progeny. (Rus) *Zhivotnovodstvo* 1:34-37. Jan.1968. 49 Z6
- 65811 ANDERSON, W. R. The metabolism of fructose—C<sup>14</sup> by bovine spermatozoa. Diss. Abstr., Sect. B, 28(3):747B. Sept.1967. Z5055.U49D53
- 65812 ANWAR-AFGHAN, M. Comparative values of liver nicotinamide nucleotide coenzymes, endocrine glands, and their relationships with production traits of diallel crossed beef bulls. Diss. Abstr., Sect. B, 28(3):792B. Sept.1967. Z5055.U49D53
- 65813 ASHDOWN, R. R., and COOMBS, M. A. Experimental studies on spiral deviation of the bovine penis. *Vet. Rec.* 82(5):126-129. Feb.3, 1968. 41.8 V641
- 65814 BANE, A. Control and prevention of inherited disorders causing infertility. *Brit. Vet. J.* 124(1):1-8, 15. Jan.1968. 41.8 V643  
Review of the literature.  
Chiefly in cattle.
- 65815 BARTLETT, D. E. Artificial insemination. In Cunha, T. J. *Factors affecting calf crop*, p.299-318. 1967. SF201.C8  
In beef cattle.
- 65816 BEEBY, R., and LOFTUS, H. G. Gelation in evaporated milk; the possible influence of the breed of cow. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. E/F:81-83. 1966. SF223.I5 1966 v.5



- 65817 BONADONNA, T. Facts on artificial insemination. (It) Ital. Agr. 104(9/10):1045-1070. Ref. Sept./Oct.1967. 16 It1  
Includes cattle fertility in various countries.
- 65818 BOND, J. Environment and reproduction. In Cunha, T. J. Factors affecting calf crop, p.179-191. 1967. SF201.C8  
Effects on beef herds.
- 65819 BONSEMBIANTE, M. The Red Pied Friuli breed; situation and perspectives. (It) Ital. Agr. 104(9/10):959-964. Sept./Oct.1967. 16 It1
- 65820 BONSMMA, J. C. Climatology and breeding for adaptation. In Cunha, T. J. Factors affecting calf crop, p.146-175. 1967. SF201.C8
- 65821 BONSMMA, J. C. Genes and phenotype interaction. In Cunha, T. J. Factors affecting calf crop, p.176-178. 1967. SF201.C8
- 65822 BOYD, L. J. What does direct service cost? Hoard's Dairyman 112(17):1045,1047. Sept.10, 1967. 44.8 H65  
Artificial insemination costs for cattle, on the farm.
- 65823 BRACKELSBURG, P. O., and WILLHAM, R. L. Relationships among some common live and carcass measurements and beef carcass composition. J. Anim. Sci. 27(1):53-57. Ref. Jan. 1968. 49 J82  
Trials with Angus and Hereford.
- 65824 BURNS, W. C. Breeding season length and subsequent calf crops. In Cunha, T. J. Factors affecting calf crop, p.280-284. 1967. SF201.C8  
Includes management.
- 65825 BURNSIDE, E. B., and LEGATES, J. E. Estimation of genetic trends in dairy cattle populations. J. Dairy Sci. 50(9):1448-1457. Ref. Sept.1967. 44.8 J822
- 65826 CARNAHAN, D. Beef cattle reproduction an economic factor. Kans. Stockman 53(4):13,29. Feb.1968. 49 K134
- 65827 CARTER, H. W. Percentage of sire's daughters having a second, fourth, and sixth lactation. J. Dairy Sci. 51(2):312-313. Feb.1968. 44.8 J822
- 65828 CHAPMAN, H. L. Blackstrap molasses and different breeds. In Cunha, T. J. Factors affecting calf crop, p.78-91. 1967. SF201.C8  
Brahman, Angus, and Hereford.
- 65829 COHEN, P. Rhythmic activity and monthly variation in cattle conception rates. Vet. Rec. 82(3):74-76. Jan.20,1968. 41.8 V641  
Survey of the results of artificial insemination in various countries.
- 65830 CONLIN, B. J. Extra money by improving reproductive performance. Minn. Univ. Ext. Ext. Pam. 219,6 p.-folder. Apr.1967. 275.29 M66P  
Dairy herds.
- 65831 CROWLEY, J. P., and HARRINGTON, D., and LACY, M. A survey of reproductive efficiency in cattle. 1. The reproductive performance of Irish cattle artificially inseminated. Irish J. Agr. Res. 6(2):237-246. Ref. Oct.1967. 10.5 Ir45
- 65832 CUNNINGHAM, E. P. A note on the level of use of young bulls in A.I. [artificial insemination]. Irish J. Agr. Res. 6(2):288-291. Oct. 1967. 10.5 Ir45
- 65833 DEESE, R. E., and KOGER, M. Heritability of reproduction. In Cunha, T. J. Factors affecting calf crop, p.232-238. 1967. SF201.C8  
Includes research methods.
- 65834 DINKEL, C. A., and others. Effects of inbreeding on growth and conformation of beef cattle. J. Anim. Sci. 27(2):313-322. Mar.1968. 49 J82  
- D. A. Busch, J. A. Minyard, and W. R. Trevillyan, joint authors.
- 65835 EDWARDS, J. Beef from the dairy herd. Milk Prod. [London] 14(12):368-371. Dec.1967. 280.38 M598  
Chiefly beef bulls progeny testing.
- 65836 FALASCHINI, A. Beef breeds and their care; Chiana, Marche, Perugia and Romagna. (It) Ital. Agr. 104(9/10):971-1003. Sept./Oct.1967. 16 It1
- 65837 FOOTE, R. H. Influence of light and agitation on bovine spermatozoa stored with protective agents. J. Dairy Sci. 50(9):1468-1474. Ref. Sept.1967. 44.8 J822
- 65838 GACULA, M. C., GAUNT, S. N., and DAMON, R. A. Genetic and environmental parameters of milk constituents for five breeds. I. Effects of herd, year, season, and age of the cow. J. Dairy Sci. 51(3):428-437. Ref. Mar.1968. 44.8 J822
- 65839 GACULA, M. C., GAUNT, S. N., and DAMON, R. A. Genetic and environmental parameters of milk constituents for five breeds. II. Some genetic parameters. J. Dairy Sci. 51(3):438-444. Ref. Mar.1968. 44.8 J822
- 65840 GAUNT, S. N., GACULA, M. C., and CORWIN, A. R. Variation in milk constituents and milk yield for five breeds of dairy cattle. Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:29-36. Ref. 1966. SF223.I5 1966 v.1
- 65841 GAUTAM, J. P. An appraisal of culling in Harijana cows. Indian Vet. J. 44(9):777-782. Sept.1967. 41.8 In2
- 65842 GIRAUD, M. The evolution of cattle breeds in Brittany. (Fr) Rev. Elevage 23(1):25-26,29-30,33-34. Jan.1968. 49 B462
- 65843 GOSWAMI, S. B., and NAIR, A. P. Studies on "off-season calving" in the Indian water buffaloes. III. Indian J. Vet. Sci. Anim. Husb. 37(3):176-180. Sept.1967. 41.8 In22
- 65844 HARTE, F. J., and CONNIFFE, D. Studies on cattle of varying growth potential for beef production. 1-2. Irish J. Agr. Res. 6(2):137-170. Ref. Oct.1967. 10.5 Ir45  
Several breeds studied.
- 65845 HENTGES, J. F. Level of feeding and bull performance. In Cunha, T. J. Factors affecting calf crop, p.102-121. 1967. SF201.C8
- 65846 HERMAN, H. A. Questions and answers on A.I. Hoard's Dairyman 113(4):219. Feb.25,1968. 44.8 H65
- 65847 HOEKSTRA, P. New predicates of the Dutch cattle herdbook. (Du) Tijdschr. Diergeneesk. 92(15):993-996. Aug.1,1967. 41.8 T431  
English summary.
- 65848 HOLSTEIN-FRIESIAN ASSOCIATION OF CANADA. Holstein-Friesian herd book. Volume 82, May 20th, 1967 to September 13th, 1967. n.p., 1967. 1081 p. 43.9 H743
- 65849 HRDINA, F. C. Further information on the effect of breed and age of dairy cattle on the solids-non-fat content of milk. Agr. Gaz. New S. Wales 79(2):114-116. Feb.1968. 23 N472
- 65850 HYATT, G. Extension's responsibility to breed club record programs. J. Dairy Sci. 51(1):143-146. Jan.1968. 44.8 J822
- 65851 JASIOROWSKI, H., and POCZYNAJLO, S. An attempt to improve the Polish Red cattle by crossing with Jersey breed (preliminary results). Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:21-27. 1966. SF223.I5 1966 v.1  
Poland.
- 65852 JENKINS, J. One-dam herd; with embryo transplant a great cow can produce a dozen calves a year. Farm Quart. 22(4):44,118-120. Fall 1967. 6 F22995
- 65853 KIDDY, C. A., MCCANN, R. E., and THATCHER, W. W. Gene frequencies in milk protein polymorphisms in dairy cattle. Immunogenet. Lett. 5(3):150-152. Jan.1968. 44.8 Im6
- 65854 KODAGALI, S. B. Studies on semen characteristics in Gir and Jaffri breeds. Indian Vet. J. 44(9):773-776. Ref. Sept.1967. 41.8 In2  
Cattle and buffaloes.
- 65855 KOGER, M. Selection and culling in Florida. In Cunha, T. J. Factors affecting calf crop, p.239-243. 1967. SF201.C8  
For reproductive improvement in beef cattle.

- 65856 KULKARNI, R. S. Successful treatment of synovitis with rheumatic arthritis in a Thari bull. *Indian Vet. J.* 44(9):806-807. Sept.1967. 41.8 In2
- 65857 LABIK, K., and LOJDA, L. Some causes for the elimination of reproduction bulls from insemination looked upon from heredity point of view. (Cz) *Veterinarstvi* 17(12):546-549. 1967. 41.8 V6439
- 65858 LAMB, R. C., and MCGILLIARD, L. D. Usefulness of part records to estimate the breeding values of dairy cattle. *J. Dairy Sci.* 50(9):1458-1467. Ref. Sept.1967. 44.8 J822
- 65859 LANGE, W., and LANGE, E. Breeding-hygienic stock investigations reflecting the efficacy of measures against herd sterility of cattle. (Ge) *Fortpflanzung, Besamung, Aufzucht Haustiere* 3(2):91-97. 1967. QP251.F6 English summary.
- 65860 LANGE, W., and LANGE, E. On breeding-hygienic investigation and analysis in the district of Neubrandenburg. (Ge) *Fortpflanzung, Besamung, Aufzucht Haustiere* 3(2):81-90. 1967. QP251.F6 English summary. Cattle.
- 65861 LANGLET, J. F., GRAVERT, H. O., and ROSENHAHN, E. Investigations on the heredity in German Black Pied cattle for beef production. (Ge) *Z. Tierzucht. Zuchtungsbiol.* 83(4):358-370. Ref. Sept.1967. 442.8 Z35 English summary.
- 65862 LEIDL, W., and BIEGERT, W. Puberty and maturity in Spotted Mountain bulls. (Ge) *Berliner Münchener Tierärztl. Wochenschr.* 80(18):345-348. Ref. Sept.15,1967. 41.8 B45 English summary.
- 65863 LEIPNITZ, C. On evaluation of heredity. (Ge) *Übersicht* 19(2):105-109. Feb.10,1968. 18 Ub3 In dairy cattle; statistical formula.
- 65864 LHOSTE, P. Response of Zebu in Adamawa (Cameroon) to the seasonal climatic variations. I. Study of the adult females: comparison between the local breed and the metis 1/2 breed Brahman. (Fr) *Rev. Elevage Med. Vet. Pays Trop.* (n.s.)20(2):329-342. 1967. 41.8 R3262 English summary.
- 65865 LIZAL, F. Investigation of the production capacity of dairy cows of the Red-Spotted Ayrshire, and of the Red-White Swedish breeds in the 1st to 3rd lactation. (Cz) *Czech. Min. Zemed. Les. Hospod. Ustav Vedeckotech. Inform. Zivocisna Vyroba* 40(8):569-582. Ref. Aug.1967. 49.9 C33 English summary.
- 65866 LODGE, J. R., GRAVES, C. N., and SALISBURY, G. W. Carbon dioxide in anaerobic spermatozoan metabolism. *J. Dairy Sci.* 51(1):96-103. Ref. Jan.1968. 44.8 J822 Cattle.
- 65867 LUSH, J. L. Importance of family structure in the dairy cattle population. *J. Dairy Sci.* 51(2):296-306. Feb.1968. 44.8 J822
- 65868 MADDOX, L. A. BET [Build East Texas] Beef Cattle Improvement Program. *Tex. Agr. Mech. Univ. Ext. L-712*, 6 p.-folder. May 1967. 275.29 T313
- 65869 MAGAS, L. Organization of modern herdbook keeping and progeny testing. (Hu) *Magyar Mezogazdasag* 22(47):15-16. Nov.22,1967. 19 M27 Cattle.
- 65870 MAGEE, W. T., and others. Relationships among performance traits of grade Hereford bulls. *J. Anim. Sci.* 27(1):13-16. Jan.1968. 49 J82 R. A. Merkel, L. J. Bratzler, A. M. Pearson, and K. E. Kemp, joint authors. For beef production.
- 65871 MAHAJAN, S. C., and SHARMA, U. D. Some observations on the preservation of Hariana bull semen at room temperatures. *Indian J. Vet. Sci. Anim. Husb.* 37(3):187-191. Ref. Sept.1967. 41.8 In22
- 65872 MARTIN, F. G., and WILCOX, C. J. Confidence limits for twin efficiency values. *J. Dairy Sci.* 51(3):463-464. Mar.1968. 44.8 J822
- 65873 MAURYA, S. N., BHALLA, R. C., and SONI, B. K. Studies on biometry of genital organs of buffalo-bulls (*Bos-bubalis*). II. Accessory sex glands. *Indian Vet. J.* 44(10):841-847. Oct. 1967. 41.8 In2
- 65874 MCCORMICK, W. C. Breeding of cow and plane of nutrition. In Cunha, T. J. Factors affecting calf crop, p.72-77. 1967. SF201.C8 Experiments with beef cattle.
- 65875 MCDONALD, R. J. Infertility problems in A.I. herds. *Milk Prod.* [London] 14(12):364-365. Dec.1967. 280.38 M598
- 65876 MEADOWS, C. E. Importance of traits other than milk production in a breeding program. *J. Dairy Sci.* 51(2):314-316. Feb.1968. 44.8 J822
- 65877 MESZAROS, I. Control of sterility, and influencing the calving cycle. (Hu) *Magyar Mezőgazdasag* 22(48):16-17. Nov.29,1967. 19 M27
- 65878 MEYER, H. Distribution Asl- and beta-casein types in cattle races. (Ge) *Deut. Tierärztl. Wochenschr.* 74(20):535-537. Ref. Oct.15, 1967. 41.8 D482
- 65879 MITROVIC, D. Hybridization of the cattle breed Busa with bulls for breeding. (Se) *Glasnik* 17(1):18-24. 1968. 280.28 Z13
- 65880 MONESTIROLI, C. The breeds: the Friesian. (It) *Ital. Agr.* 104(9/10):945-951. Sept./Oct. 1967. 16 It1
- 65881 MORILLO, F. J. Evaluation of progeny tests of dairy sires in single herds. *Diss. Abstr.*, Sect. B, 28(3):748B-749B. Sept.1967. Z5055.U49D53
- 65882 MULLER, E. Spermatozoa motility as a problem of genetics. (Bu) *Vet. Med. Nauk.* 4(3):41-48. Ref. 1967. 41.8 V6468 English summary. In cattle.
- 65883 NEIMANN-SORENSEN, A., and IPSEN, E. J. Danish cattle: at home and abroad. Vanlose, Denmark, Mejeriteknisk Bogforlag, 1967. 84 p.,map. SF208.N4 Red Danish, Black Pied Danish, and Danish Jersey cattle.
- 65884 NORSK storfestambok [Norwegian cattle herdbook], 1967. Oslo, 1967. 254 p. 43.9 N83N
- 65885 NOVKOV, F. G. Measurer to increase cows' fertility. (Rus) *Veterinaria* 10:81-82. Oct. 1967. 41.8 V6426
- 65886 PAUFLE, S. K., and FOOTE, R. H. Influence of light on nuclear size and deoxyribonucleic acid content of stored bovine spermatozoa. *J. Dairy Sci.* 50(9):1475-1480. Ref. Sept.1967. 44.8 J822
- 65887 PEARSON, L., and others. Milking performance of Blanco Orejinegro and Jersey crossbred cattle. *J. Agr. Sci.* [London] 70(1):65-72. Ref. Feb.1968. 10 J822 R. K. Waugh, B. Salazar, F. M. Botero, and O. Acosta, joint authors. Colombia.
- 65888 PLASS, D., WARNICK, A. C., and KOGER, M. Reproductive behavior of *Bos indicus* females in a subtropical environment. I-III. *J. Anim. Sci.* 27(1):94-112. Ref. Jan.1968. 49 J82 Breeding, ovulation, and gestation in Brahman cattle.
- 65889 PLOWMAN, R. D., and MCDANIEL, B. T. Changes in USDA sire summary procedures. *J. Dairy Sci.* 51(2):306-311. Feb.1968. 44.8 J822
- 65890 PLUMMER, C. B. Checking bulls for breeding soundness. In Cunha, T. J. Factors affecting calf crop, p.338-341. 1967. SF201.C8
- 65891 PLUMMER, C. B. Reproductive diseases in bulls and their control. In Cunha, T. J. Factors affecting calf crop, p.331-337. 1967. SF201.C8



- 65892 POZDNYAKOV, A. V. Management of heifer artificial insemination. (Rus) Veterinaria 10: 83-84. Oct.1967. 41.8 V6426
- 65893 PTACEK, J., and PILAT, Z. Further studies on the influence of the bulls of the Red Pied Swedish cattle on the meat production of their hybrids with Red Spotted F1. (Cz) Czech. Min. Zemed. Les. Hospod. Ustav Vedeckotech. Inform. Zivocisna Vyroba 40(8):583-590. Ref. Aug.1967. 49.9 C33  
German summary.
- 65894 RAMSEY, C. B., COLE, J. W., and TENDICK, E. W. Effect of breed of steer on muscle fiber diameter and its relation to palatability. Tenn. Agr. Exp. Sta. Bull. 424, 19 p. Ref. July 1967. 100 T25S
- 65895 RAO, K. V. Colouring agents for bull semen Indian Vet. J. 44(10):881-884. Oct.1967. 41.8 In2  
Coloring for breed identification.
- 65896 RAUSCH, W. H., BRUM, E. W., and LUDWICK, T. M. Relationship between blood type and predicted differences in production of Holstein sires in artificial insemination. J. Dairy Sci. 51(3):445-451. Ref. Mar.1968. 44.8 J822
- 65897 RENNER, E. The protein content of milk in relation to genetic and environmental factors. (Ge) Molk.-Kaserei-Zeitung 19(6):195-200. Ref. Feb.7,1968. 44.8 M736  
Includes effects of feeding and seasonal production.
- 65898 REYNOLDS, W. L. Breeds and reproduction. In Cunha, T. J. Factors affecting calf crop, p.244-259. 1967. SF201.C8  
In beef cattle.
- 65899 RIECK, G. W., and BAHR, H. Acroteriasis congenita in German Friesian cattle. (Ge) Deut. Tierarztl. Wochenschr. 74(14):356-364. Ref. July 15,1967. 41.8 D482  
English summary.  
Lack of extremities.
- 65900 RIZNAR, S. An analysis of the fertility and sterility of heifers on some agricultural farms. (Se) Vet. Arh. 37(3/4):99-110. 1967. 41.8 V6416  
English summary.
- 65901 ROBERTSON, O. L., ABSHER, C. W., and MERRIMAN, G. M. Reproduction in beef heifers. Tenn. Farm Home Sci. Progr. Rep. 64:22-23. Oct./Dec.1967. 100 T25F
- 65902 ROOS, A. Electronic data processing for dairy herd improvement in Sweden. FATIS (Food Agr. Tech. Inform. Serv.) Rev. 14(3):86-88. 1967. 275.249 F26  
Recording of artificial insemination and milk production.
- 65903 ROSTOVITSEV, N. F., and ERNEST, L. K. Productive and breeding characteristics of principal cattle breeds in the Russian SFSR. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 1: 55-62. 1968. 20 V633  
English summary.
- 65904 SAXEGAARD, F. Serological investigations of bulls subclinically infected with infectious pustular vulvovaginitis virus (IPV virus). Nord. Veterinaarmed. 20(1):28-32. Ref. Jan.1968. 41.8 N813
- 65905 SCHLEGER, A. V. Relationship of coat type and colour to milk production in Australian Illawarra Shorthorn dairy cattle. Australian J. Agr. Res. 18(3):539-547. Ref. May 1967. 23 Au783
- 65906 SCHMIDT, D. G. Distribution of the genetic variants of  $\alpha$ s1-,  $\beta$ - and  $\kappa$ -casein in the milk of cows of the three main breeds in the Netherlands. Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:259-262. 1966. SF223.15 1966 v.1
- 65907 SCHMIDT, D. G., and KOOPS, J. The effect of genetic variants of milk proteins on the heat stability of concentrated skim milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:109-113. 1966. SF223.15 1966 v.5
- 65908 SCHULTHESS, W. Yak and chauri in Nepal. (Ge) World Rev. Anim. Prod. 3(13,FAO spec. issue):88-97. 1967. 49 W89  
English summary.  
Hybrid of yaks and cattle.
- 65909 SINGH, R. N., and PRASAD, R. B. A genetic and phenotypic study of milk yield of Hariana cattle in Bihar. Indian Vet. J. 44(7):584-588. Ref. July 1967. 41.8 In2
- 65910 SPINDLER, F. The weight of calves of the Red Pied breed at birth. (Fr) Rev. Elevage 23(1): 37-28. Jan.1968. 49 B462
- 65911 STEGENGA, TH. The North American Holstein-Friesian. (Du) Veeteelt Zuivelber. 10 (11):487-490. Nov.1967. 49 V51  
Milk yields.
- 65912 STEKLENEV, E. P. On the hybridization of cow with Asian buffalo. (Rus) Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina. Dokl. 1:31-33. Ref. Jan.1968. 20 Ak1
- 65913 SYMPOSIUM ON DAIRY CATTLE BREEDING. [Papers]. J. Dairy Sci. 51(2):296-316. Feb. 1968. 44.8 J822
- 65914 TAUL, L. K., and KLECKNER, A. L. Fluorescent antibody studies of Vibrio fetus: staining characteristics in semen, preputial exudate, and pure culture. Amer. J. Vet. Res. 29(3): 711-715. Ref. Mar.1968. 41.8 Am3A  
From infected bulls.
- 65915 TEMPLE, R. S. Reproductive performance in the South. In Cunha, T. J. Factors affecting calf crop, p.15-26. 1967. SF201.C8  
Beef cattle.
- 65916 TODOROV, D., and MARKOVSKI, K. Loose fattening of young bulls in groups. (Bu) Zhi-votnovudstvo 21(7):12-15. Ref. July 1967. 49 Z62
- 65917 TONIDANDEL, P. The Brown Alpine; evolution of the breed in Italy. (It) Ital. Agr. 104(5/10): 952-954. Sept./Oct.1967. 16 It1
- 65918 TRIBULKIN, P. T., and KHRAMOV, A. Chernopestryi skot Sibiri [Black Pied Lowland cattle in Siberia]. Novosibirsk, Zapadno-Sibirskoe Knizhnoe Izdatelstvo, 1967. 157 p. SF199.B55T7
- 65919 TURNER, J. W., FARTHING, B. R., and ROBERTSON, G. L. Heterosis in reproductive performance of beef cows. J. Anim. Sci. 27(2): 336-338. Ref. Mar.1968. 49 J82
- 65920 URICK, J. J., and others. Heterosis in post-weaning traits among lines of Hereford cattle. J. Anim. Sci. 27(2):323-330. Mar.1968. 49 J82  
J. S. Brinks, O. F. Pahnish, B. W. Knapp, and T. M. Riley, joint authors.
- 65921 VASILEVA-POPOVA, YU., and TSOICHEVA, P. Comparative studies on the buffer capacity of semen diluents and of bull's and boar's semen. (Bu) Vet. Med. Nauk. 4(3):31-39. Ref. 1967. 41.8 V6468  
English summary.
- 65922 VIL'CHINSKII, A. D. Chernopestryi skot Belorussii i puti ego sovershenstvovaniya [Black Pied Lowland cattle and the methods of its improvement]. Minsk, Urozhai, 1967. 138 p. SF199.B55V5
- 65923 VOGT, K. F., and SCHROPP, W. Daily variations in the protein and fat content of milk of two kinds of herds (Simmental and Brown Mountain) and their influence on the results of sampling tests. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:249-252. 1966. SF223.15 1966 v.1  
English summary, p.707.
- 65924 WALKER, D. F. Bull growth, management, and fertility. In Cunha, T. J. Factors affecting calf crop, p.139-145. 1967. SF201.C8
- 65925 WARNICK, A. C. Improving fertility in Tropical areas. In Cunha, T. J. Factors affecting calf crop, p.351-352. 1967. SF201.C8
- 65926 WARNICK, A. C. Reproductive performance in Florida. In Cunha, T. J. Factors affecting calf crop, p.27-31. 1967. SF201.C8

- 65927 WARNICK, A. C. Selection of Brahmans in Florida. In Cunha, T. J. Factors affecting calf crop, p.260-267. 1967. SF201.C8
- 65928 WARWICK, E. J., and PUTNAM, P. A. The farm beef herd. U. S. D. A. Farmers' Bull. 2126, rev., 16 p. Jan. 1968. 1 Ag84F  
Chiefly breeding and feeding.
- 65929 WARWICK, E. J. Future beef cattle breeding programs. In Cunha, T. J. Factors affecting calf crop, p.353-361. 1967. SF201.C8
- 65930 WARWICK, E. J. Reproductive performance in world regions. In Cunha, T. J. Factors affecting calf crop, p.4-10. 1967. SF201.C8
- 65931 WASHBON, W. E. Washbon's directory of available tested Holstein sires in U.S. and Canada; evaluation of production and type, 1968 edition. Ithaca, 1968. 30 p. 43 W27
- 65932 WATERLOO CATTLE BREEDING ASSOCIATION. Holstein-Friesian sires; sires for 1967-8. Waterloo, Canada, 1968, 34 p. SF193.H75W3  
Central Ontario Cattle Breeding Association, cooperating.
- 65933 WILTBANK, J. N., and others. Reproductive performance in the United States. In Cunha, T. J. Factors affecting calf crop, p.11-14. 1967. SF201.C8  
J. E. Ingalls, J. A. Rotherisberger, C. W. Kasson, joint authors.
- 65934 YASSEN, A. M., and FOOTE, R. H. Freezability of bull semen in centrifuged or dialyzed and reconstituted buffered egg yolk extenders. J. Dairy Sci. 50(9):1481-1485. Sept. 1967. 44.8 J822
- Feeds and Feeding
- 65935 ADAMS, C. R. Vitamins A and E for cattle—functions and requirements. Mont. Nutr. Conf. Proc., 19th Annu. Conf.:39-54. Ref. 1968. 389.79 M76
- 65936 ANDERSON, J. M., and SAFLEY, L. M. Orchardgrass-ladino clover and fescue-ladino clover pasture for beef cows and calves with and without creep feeding. Tenn. Agr. Exp. Sta. Bull. 422, 22 p. June 1967. 100 T25S
- 65937 ANDERSON, M. J., LAMB, R. C., and STODDARD, G. E. Meeting the protein needs of dairy animals. Utah Sci. 28(3):84-87. Sept. 1967. 100 UtlF
- 65938 ANTILA, V., and others. Influence of feeding of tall oil fatty acids on milk quality. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. A: 197-198. 1966. SF223.I5 1966 v.1  
J. Malkamaki, M. Uotila, M. Antila, and O. Ring, joint authors.  
English summary, p.697.
- 65939 ANTILA, V., and others. Influence of feeding tall oil fatty acids on the quality of Finnish Emmental cheese. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:391-394. 1966. SF223.I5 1966 v.4  
J. Malkamaki, J. Nordlund, O. Ring, and M. Antila, joint authors.  
English summary, p.844.
- 65940 BACIGALUPO, A. Improving the efficiency of food conversion under tropical conditions. In Turk, K. L., and Crowder, L. V., ed. Rural development in tropical Latin America, p.375-382. 1967. HD1857.T8  
Cattle meat and milk production.
- 65941 BALDWIN, R. L. Estimation of theoretical calorific relationships as a teaching technique; a review. J. Dairy Sci. 51(1):104-111. Jan. 1968. 44.8 J822
- 65942 BEDO, S., and HEGEDUS, L. Calf rearing with Laktin. (Hu) Magyar Mezőgazdaság 22(46):17. Nov. 15, 1967. 19 M27  
In reference to article by T. Kakuk.
- 65943 BLOSS, R. E. MGA [Melengestrol acetate]—a new approach to improving performance of feedlot heifers. Mont. Nutr. Conf. Proc., 19th Annu. Conf.:34-38. 1968. 389.79 M76
- 65944 BODEN, S. M. The Autumn feeding of cows. Great Brit. Min. Agr. Fish. Food. Agr. 74(9): 416-419. Sept. 1967. 10 G79J  
Dairy cattle.
- 65945 BOUCQUE, C., BUYSSE, F., and COTTYN, B. Meat production from thin pastured bulls receiving a basic regimen of sugar beet byproducts. (Fr) Rev. Agr. [Brussels] 20(9):1211-1228. Ref. Sept. 1967. 13 R322  
English summary.
- 65946 BOUCQUE, C., BUYSSE, F., and COTTYN, B. Production of meat with thin bulls taken off grassland: Regimen based on grass silage, prairie hay, and forage beets. (Fr) Rev. Agr. [Brussels] 20(9):1229-1244. Sept. 1967. 13 R322  
English summary.
- 65947 BOYKIN, C. C. Profitability and flexibility of two range cattle systems in the rolling plains of Texas. J. Range Manage. 20(6):375-379. Nov. 1967. 60.18 J82
- 65948 BROWN, G. W., TILLMAN, A. D., and TOTUSEK, R. Digestibility, nitrogen retention and energy values of sorghum grain and corn rations at three levels of intake. J. Anim. Sci. 27(1):170-173. Ref. Jan. 1968. 49 J82  
Trials with cattle.
- 65949 BUCHANAN-SMITH, J. G., TOTUSEK, R., and TILLMAN, A. D. Effect of methods of processing on digestibility and utilization of grain sorghum by cattle and sheep. J. Anim. Sci. 27(2):525-530. Ref. Mar. 1968. 49 J82
- 65950 CAMPBELL, C. M., and others. Use of the esophageal fistula in diet sampling with beef cattle. J. Anim. Sci. 27(1):231-233. Jan. 1968. 49 J82  
K. S. Eng, A. B. Nelson, and L. S. Pope, joint authors.  
Grazing forages.
- 65951 CLARK, J. H., HALL, O. G., and FELTS, J. H. Performance of beef steers fed different protein supplements and hays in the feedlot. Tenn. Agr. Exp. Sta. Bull. 417, 19 p. Apr. 1967. 100 T25S
- 65952 CONNELL, J. Grass products as automated feeds for the dairy cow. Milling 149(21/22): 417-418, 423. Dec. 1, 1967. 298.8 M622  
Includes silage and hay preparation.
- 65953 CONNIFFE, D., and HARTE, F. J. The relation of rate of liveweight gain to measures of feed conversion efficiency in cattle. Irish J. Agr. Res. 6(2):171-176. Oct. 1967. 10.5 Ir45
- 65954 CONRAD, H. R., and HIBBS, J. W. Nitrogen utilization by the ruminant; appreciation of its nutritive value. J. Dairy Sci. 51(2):276-285. Feb. 1968. 44.8 J822  
Review of the literature.  
Cattle and sheep.
- 65955 COPEMAN, G. J. F. Paddocks for beef. Scot. Agr. 47(1):22-24. Winter 1967/68. 10 Sco82So
- 65956 CROWLEY, J. W. Calf-raising programs have changed. Hoard's Dairyman 113(4):220-221. Feb. 25, 1968. 44.8 H65  
Feeding.
- 65957 CROWLEY, J. W. What about molasses in the dairy ration. Hoard's Dairyman 113(5):336, 338. Mar. 10, 1968. 44.8 H65
- 65958 DAHMEN, J. J., BAKER, J. P., and BELL, T. D. Feed lot performance of steers and heifers fed different sources of supplement protein. Idaho Agr. Res. Progr. Rep. 134, 8 p. June 1967. S53.E2
- 65959 DAHMEN, J. J., and BELL, T. D. Steers fed two different non-roughage rations processed by three methods. Idaho Agr. Res. Progr. Rep. 133, 18 p., map. 1967? S53.E2
- 65960 DONKER, J. D., MARTEN, G. C., and WEDIN, W. F. Effect of concentrate level on milk production of cattle grazing high-quality pasture. J. Dairy Sci. 51(1):67-73. Ref. Jan. 1968. 44.8 J822



- 65961 DONKER, J. D., SINGH, H., and MOHRENWEISNER, H. W. Forage evaluation. I. Performance of Holstein heifers fed only early-cut or late-cut alfalfa hay on a free-choice basis. *J. Dairy Sci.* 51(3):362-366. Ref. Mar.1968. 44.8 J822
- 65962 DUBE, J. N. Copper retention in young calves fed paddy straw with high calcium supplement. (Ge) *Arch. Tierernahr.* 17(6):421-429. Ref. Sept.1967. 389.78 Ar22  
English summary.  
Indian Haryana cattle.
- 65963 DUNHAM, J. R., and others. Methionine as a precursor of methyl sulfide in cows' milk. *J. Dairy Sci.* 51(2):199-201. Ref. Feb.1968. 44.8 J822  
G. Ward, R. Bassette, and M. C. Reddy, joint authors.  
Effect of methionine feeding.
- 65964 DUNHAM, J. R., and others. Occurrence of methyl sulfide in milk from cows fed fresh, dried, or stored alfalfa. *J. Dairy Sci.* 51(1):44-46. Jan.1968. 44.8 J822  
G. Ward, R. Bassette, and M. C. Reddy, joint authors.
- 65965 DUNKLEY, W. L., RONNING, M., and SMITH, L. M. Influence of supplemental tocopherol and carotene on oxidative stability of milk and milk fat. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. A:223-227. Ref. 1966. SF223.I5 1966 v.1
- 65966 DUTKIN, M. S., SHKANTOVA, N. G., and RUZER, V. V. Method of increasing nutritive value of corncobs. (Rus) *Khim. Sel'sko Khoz.* 7:65-67. July 1967. 385 K524  
As cattle feed; treatment with ammonium carbonates.
- 65967 ELAM, L. Free-choice feeding tested. *Hoard's Dairyman* 113(5):309. Mar.10,1968. 44.8 H65
- 65968 FISJUN, G. I. On protein rates in rations of dairy cows. (Rus) *Timiryazevskaya Sel'skokhoz. Akad. Izv.* 4:208-214. 1967. 106 P44  
English summary.
- 65969 FLETCHER, D. M., and others. Effects of multiple feeding upon performance of Guernsey heifers fed urea-treated corn silage. *J. Dairy Sci.* 51(2):202-204. Ref. Feb.1968. 44.8 J822  
A. G. Lane, J. R. Campbell, and F. A. Martz, joint authors.
- 65970 FREITAG, R. R., SMITH, W. H., and BEESON, W. M. Factors related to the utilization of urea vs. protein-nitrogen supplemented diets by the ruminant. *J. Anim. Sci.* 27(2):478-483. Ref. Mar.1968. 49 J82  
Cattle.
- 65971 GALAT, B. Dynamics of mineral composition of milk from Simmental cows fed with silage-pulp rations in the course of the lactation period. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. A:239-243. 1966. SF223.I5 1966 v.1  
In the U.S.S.R.
- 65972 HALL, G. A., and others. Net energy of sorghum grain and corn for fattening cattle. *J. Anim. Sci.* 27(1):165-169. Ref. Jan.1968. 49 J82  
C. W. Curtis, W. Absher, R. Totusek, and A. D. Tillman, joint authors.
- 65973 HAMMES, R. C., and others. Relative value of different forages and supplements for nursing and early weaned beef calves. *J. Anim. Sci.* 27(2):509-515. Mar.1968. 49 J82  
R. E. Blaser, J. P. Fontenot, H. T. Bryant, and R. W. Engel, joint authors.
- 65974 HARRIES, J. M., and others. Studies on the composition of food. 3. The nutritive value of beef from intensively reared animals. *Brit. J. Nutr.* 22(1):21-31. Ref. Feb.1968. 389.8 B773  
A. W. Hubbard, F. E. Alder, M. Kay, and D. R. Williams, joint authors.
- 65975 HAYES, B. W., MITCHELL, G. E., and LITTLE, C. O. Turnover of liver vitamin A in steers fed a low-protein ration. *J. Anim. Sci.* 27(2):515-518. Mar.1968. 49 J82
- 65976 HENSON, J. Considerations for use of antibiotics in beef cattle rations. *Mont. Nutr. Conf. Proc.*, 19th Annu. Conf.:31-33. 1968. 389.79 M76
- 65977 HENTGES, J. F. Minerals and vitamins. In Cunha, T. J. Factors affecting calf crop, p.60-71. 1967. SF201.C8  
Influence on cattle reproduction.
- 65978 HERD, D. B., and others. Tylosin boluses for grazing beef steers. *J. Anim. Sci.* 27(2):549-552. Mar.1968. 49 J82  
N. W. Bradley, G. E. Mitchell, and M. W. Crowe, joint authors.
- 65979 HIERS, J. M., MILLER, W. J., and BLACKMON, D. M. Effect of dietary cadmium and ethylenediaminetetraacetate on dry matter digestibility and organ weights in zinc deficient and normal ruminants. *J. Dairy Sci.* 51(2):205-209. Ref. Feb.1968. 44.8 J822  
Calves and goats.
- 65980 HIGGINS, A. The importance of grazing pressure. *J. Agr. [Melbourne]* 65(2):476-478. Nov. 1967. 23 V66J  
Dairy cattle.
- 65981 HILL, L. J. Successful self-feeding of vacuum silage. *New Zeal. J. Agr.* 114(6):49,51. June 1967. 23 N48J  
Cattle and sheep.
- 65982 HILLIER, R. J., and others. Effect of timed interval frequent feeding of predominantly corn rations to beef steers. *J. Anim. Sci.* 27(1):227-230. Ref. Jan.1968. 49 J82  
T. W. Perry, R. M. Peart, and W. M. Beeson, joint authors.
- 65983 HOCKINGS, B. J. Off-paddock wintering. *New Zeal. J. Agr.* 115(1):30-31,33. July 1967. 23 N48J  
Dairy cattle feeding and pasture management
- 65984 HODGSON, J. The relationship between the digestibility of a sward and the herbage consumption of grazing calves. *J. Agr. Sci. [London]* 70(1):47-51. Ref. Feb.1968. 10 J822
- 65985 HOEHNE, O. E., CLANTON, D. C., and STREETER, C. L. Chemical composition and in vitro digestibility of forbs consumed by cattle grazing native range. *J. Range Manage.* 21(1):5-7. Jan.1968. 60.18 J82  
In Nebraska.
- 65986 HUBER, J. T., POLAN, C. E., and HILLMAN, D. Urea in high corn silage rations for dairy cattle. *J. Anim. Sci.* 27(1):220-226. Ref. Jan.1968. 49 J82
- 65987 HULL, J. L., and MEYER, J. H. Irrigated pasture for steers and lambs. *Calif. Agr. Exp. Sta. Bull.* 835,41 p. Ref. Dec.1967. 100 C12S
- 65988 HUSTED, W. T., and others. Digestibility of milo processed by different methods. *J. Anim. Sci.* 27(2):531-534. Mar.1968. 49 J82  
S. Mehen, W. H. Hale, M. Little, and B. Theurer, joint authors.  
Trials with cattle.
- 65989 JOHNSON, R. D., and ECKERT, A. R. Cattle feeding operations: calf system found to be most efficient. *Nebr. Univ. Coll. Agr. Home Econ. Quart. Serving Farm Ranch Home* 11,i.e. 14(2):22-25. Summer 1967. 100 N27N
- 65990 JOHNSON, R. R., and MCCLURE, K. E. Sequestering phosphatic solution as a phosphorus source for ruminants. *J. Dairy Sci.* 50(9):1502-1504. Sept.1967. 44.8 J822  
Cattle and sheep.
- 65991 JOHNSTON, R. P. Effect of heated corn in the diet of calves on the metabolism of sodium butyrate-1-C<sup>14</sup>. *Diss. Abstr.*, Sect. B, 28(3):748B. Sept.1967. Z5055.U49D53
- 65992 KADUSKAR, M. R. Effect of feeding mixed grass hay alone on metabolism and rate of growth in cattle. *Indian Vet. J.* 44(7):607-612. Ref. July 1967. 41.8 In2

- 65993 KERK, P. VAN DE. Study about the sodium supply of cattle on farms of the "Soil-Plant-Animal Project" [Bodem, Plant en Dier-project] at the Vorden-Hengelo area, (the Netherlands), 1967. (Du) Tijdschr. Diergeneesk. 93(2):55-65. Jan.15,1968. 41.8 T431  
English summary.
- 65994 KIRK, W. G., and others. Levels of pasture nutrition and breeding. In Cunha, T. J. Factors affecting calf crop, p.92-97. 1967. SF201.C8  
E. M. Hodges, F. M. Peacock, and M. Koger, joint authors.  
In beef cattle.
- 65995 KIRK, W. G. Protein, salt, mineral mixture is proven ally. Fla. Cattleman Livestock J. 32(5): 78-79. Feb.1968. 43.8 F66  
As supplement to cattle nutrition.
- 65996 KLOSTERMAN, E. W., SANFORD, L. G., and PARKER, C. F. Effect of cow size and condition and ration protein content upon maintenance requirements of mature beef cows. J. Anim. Sci. 27(1):242-246. Ref. Jan.1968. 49 J82
- 65997 KNIGA, M. I., SHEVCHENKO, I. M., and GRINENKO, V. I. Technological properties of milk and quality of cheese, feeding cows with beets. (Rus) Moloch. Prom. 2:24-25. Feb.1968. 44.8 M734
- 65998 KOGER, M., and WARNICK, A. C. Various pasture programs. In Cunha, T. J. Factors affecting calf crop, p.98-101. 1967. SF201.C8  
Clover-grass and all grass pastures.
- 65999 KORZAN, G. E. Economics of beef cattle feeding in Oregon. Oreg. Agr. Exp. Sta. Spec. Rep. 250, 10 p. Feb.1968. 100 Or3M  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 66000 KRIPPL, J. Calf feeding with milk substitute feed. (Ge) Tierzuechter 20(2):48-49. Jan.20, 1968. 49 T445
- 66001 LANDERS, J. H., WHEAT, J. D., and BOGART, R. Some factors affecting feed efficiency in beef cattle. Oreg. Agr. Exp. Sta. Tech. Bull. 102, 32 p. Ref. Dec.1967. 100 Or3S  
Chiefly effects of age, breeding and sex.
- 66002 LARSEN, J., KLAUSEN, S., and FREDERIKSEN, J. H. The influence of high and low fat rations on the yield and composition of the milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:53-58. Ref. 1966. SF223.15 1966 v.1
- 66003 LEONHARD, I. Variations in the degree of acidity and coagulating time of cow's milk during the winter feeding period. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:215-221. Ref. 1966. SF223.15 1966 v.1  
English summary, p.702.
- 66004 LINDER, J. D., MATSUSHIMA, J. K., and KNOX, K. L. LPC [liquid protein concentrate] as protein supplement. Colo. Farm Home Res. 18(2):2,11. Jan./Mar.1968. 100 C712Co  
Sugar beet by-products for beef cattle feed.
- 66005 MANN, T., and others. The relationship between nutrition and androgenic activity in pubescent twin calves, and the effect of orchitis. J. Endocrinol. 38(4):455-467. Ref. Aug.1967. 44.8 J8293  
L. E. A. Rowson, R. V. Short, and J. D. Skinner, joint authors.
- 66006 MASOERO, P. The feeding of cattle; technical and economical aspects. (It) Ital. Agr. 104 (9/10):1019-1044. Sept./Oct.1967. 16 It1
- 66007 MATSUSHIMA, J. K., STENQUIST, N. J., and MCLAREN, R. J. Improving high moisture corn utilization. Colo. Farm Home Res. 18(2): 8-9. Jan./Mar.1968. 100 C712Co  
For beef cattle.
- 66008 MATSUSHIMA, J. K., MCCANN, C. P., and MCLAREN, R. J. LPC [liquid protein concentrate] treated beet pulp pellets. Colo. Farm Home Res. 18(2):10-11. Jan./Mar.1968. 100 C712Co  
Sugar beet by-products for beef cattle feed.
- 66009 MCCULLOUGH, M. E., and SMART, W. W. G. Influence of feeding schedule, type of forage, and ratio of flaked corn to forage on rumen fermentation. J. Dairy Sci. 51(3):385-391. Mar.1968. 44.8 J822
- 66010 MCCULLOUGH, M. E. Parameters of ration composition for efficient silage conversion for milk production. Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:93-96. 1966. SF223.15 1966 v.1
- 66011 MCELROY, L. W. University of Alberta beef feeding experiments. Mont. Nutr. Conf. Proc., 19th Annu. Conf.:15-24. 1968. 389.79 M76
- 66012 MILLER, D. D. Effect of thyroprotein and a low-energy ration on removal of DDT from lactating dairy cows. J. Dairy Sci. 50(9): 1444-1447. Ref. Sept.1967. 44.8 J822
- 66013 MILLER, W. J. High-dry-matter vs. unwilted Coastal [bermudagrass] silage for dairy cows. Ga. Agr. Res. 9(3):9,11,16. Winter 1968. 100 G295
- 66014 MILLER, W. J., and others. Influence of a high level of dietary cadmium on cadmium content in milk, excretion, and cow performances. J. Dairy Sci. 50(9):1404-1408. Ref. Sept.1967. 44.8 J822  
B. Lampp, G. W. Powell, C. A. Salotti, and D. M. Blackmon, joint authors.
- 66015 MILLER, W. J., and others. Zinc and dry matter content of tissues and feces of zinc-deficient and normal ruminants fed ethylenediaminetetraacetate and cadmium. J. Dairy Sci. 51(1):82-89. Ref. Jan.1968. 44.8 J822  
G. W. Powell, D. M. Blackmon, and R. P. Gentry, joint authors.  
Calves and goats.
- 66016 MOHRENWEISER, H. W., and DONKER, J. D. Forage evaluation. II. Productive response of first-calf Holstein heifers fed early-cut or late-cut alfalfa hay as the only source of energy throughout a total lactation. J. Dairy Sci. 51(3):367-372. Ref. Mar.1968. 44.8 J822
- 66017 MOHRENWEISER, H. W., and DONKER, J. D. Forage evaluation. III. Comparison of several methods of evaluating two alfalfa hays fed to lactating cows. J. Dairy Sci. 51(3):373-377. Ref. Mar.1968. 44.8 J822
- 66018 NAKANISHI, T., and NAKAE, T. Relation between carotene contents of herbage fed to cows and vitamin A contents of milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:325-328. 1966. SF223.15 1966 v.1
- 66019 O'DELL, G. D., KING, W. A., and COOK, W. G. Effect of grinding, pelleting, and frequency of feeding of forage on fat percentage of milk and milk production of dairy cows. J. Dairy Sci. 51(1):50-55. Jan.1968. 44.8 J822
- 66020 O'DONOVAN, D. J. Supplementation of straw with urea for cattle. Irish J. Agr. Res. 6(2): 284-287. Ref. Oct.1967. 10.5 Ir45
- 66021 OHORODNYA, O. V. Effect of corn silage on the production of cow milk. (Uk) Visn. Sil's'kohospod. Nauk. 1:98-101. Jan.1968. 20 V82
- 66022 OLTJEN, R. R. NPN [non-protein-nitrogen] as the primary nitrogen source for cattle. Cornell Nutr. Conf. Feed Manufacturers. Proc. 1967:48-56. Ref. 389.79 C81
- 66023 ORTH, A., and ROHR, K. On the influence of various feed fats on the production of dairy cows. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:65-73. Ref. 1966. SF223.15 1966 v.1  
English summary, p.670.
- 66024 OWEN, F. G. Feed important; low fat test costs you money. Nebr. Univ. Coll. Agr. Home Econ. Quart. Serving Farm Ranch Home 11,i.e.14(2): 13-14. Summer 1967. 100 N27N  
In milk.
- 66025 PATON, W. S. You can prevent low milk solids. Milk Board J. 19(1):27,29. Jan.1968. 44.8 M5934  
By feeding cattle quality hay during wintering on pastures.



- 66026 PEARSON, H. A. Cattle diet digestibilities determined from components. *J. Range Manage.* 20(6):405-406. Nov.1967. 60.18 J82
- 66027 PERRY, T. W., and others. Interrelationships among vitamins A, E and K when added to the rations of fattening beef cattle. *J. Anim. Sci.* 27(1):190-194. Ref. Jan.1968. 49 J82  
W. M. Beeson, W. H. Smith, R. B. Harrington, and M. T. Mohler, joint authors.
- 66028 PERRY, T. W., and others. Oyster shell as a roughage replacer in fattening beef cattle rations. *J. Anim. Sci.* 27(1):185-189. Jan.1968. 49 J82  
H. F. Troutt, R. C. Peterson, and W. M. Beeson, joint authors.
- 66029 POPE, L. S. Winter feeding and reproduction in cows. In Cunha, T. J. Factors affecting calf crop, p.32-43. 1967. SF201.C8  
Beef cattle.
- 66030 RAGLAND, J. B. Economic comparisons of corn and forage in dairy rations using linear programming techniques. *Diss. Abstr., Sect. B*, 28(6):2203B. Dec.1967. Z5055.U49D53
- 66031 RAY, M. L., and SCHNEIDER, D. Effect of various supplements on digestibility of soybean stubble. *Ark. Cattle Bus.* 4(2):36. Feb.1968. 43.8 Ar43  
Trials with beef cattle.
- 66032 RAY, M. L., and SPOONER, A. E. Grass fertilization, its effects on steer gains. *Feed Bag* 44(2):19-20. Feb.1968. 389.78 F32
- 66033 REID, J. T., TYRRELL, H. F., and MOE, P. W. Digestible protein needs of milking cows. *Cornell Nutr. Conf. Feed Manufacturers. Proc.* 1967:41-47. Ref. 389.79 C81
- 66034 RENNERT, E., and KIERMEIER, F. Influence of silage feeding on the protein content on milk. (Ge) *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. A:205-213. Ref. 1966. SF223.I5 1966 v.1  
English summary, p.700.
- 66035 REYNOLDS, P. J. A study of some effects of ration on the glucose metabolism of calves. *Diss. Abstr., Sect. B*, 28(3):749B. Sept.1967. Z5055.U49D53
- 66036 RITCHIE, N. S., and HEMINGWAY, R. G. Magnesium alloy bullets for dairy cattle. *Vet. Rec.* 82(3):87-89. Jan.20,1968. 41.8 V641
- 66037 ROBINSON, D. W. Analysis of liveweight loss in beef cattle on native pastures in the Kimberleys, Western Australia. *Australian Inst. Agr. Sci. J.* 33(3):218-219. Sept.1967. 23 Au74
- 66038 ROGERS, G. L. The high road to dairy production. *J. Agr. [Melbourne]* 66(1):20-23,37. Jan. 1968. 23 V66J  
Effects of grazing on milk production.
- 66039 RONNING, M. Sodium bicarbonate in an all-concentrate free-choice feeding regimen. *J. Dairy Sci.* 51(2):230-231. Feb.1968. 44.8 J822  
For cattle.
- 66040 SAXENA, U. C., MAHADEVAN, V., and NATH, K. Effect of different levels of calcium in a mixed ration using wheat bhoosa as roughage on the digestion of various nutrients and balances of Ca, P and N and various blood constituents in Harijana calves. *Indian Vet. J.* 44(7):596-603. Ref. July 1967. 41.8 In2
- 66041 SCHALITSCHIEFF, Y. Influence of level of proteins in the rations on milk production of cattle and the composition of their milk. (Ge) *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. A: 75-80. 1966. SF223.I5 1966 v.1  
English summary, p.672.
- 66042 SCHWARTZ, D. P., and VIRTÄNEN, A. I. Normalcy of some non-volatile carbonyl compounds and carbonyl precursors in the [milk] fat of synthetically-fed cows. *Acta Chem. Scand.* 21 (9):2583-2584. Ref. 1967. 385 Ac82
- 66043 SEBELA, F., and TYLECEK, J. The effect of various nitrogen nutrients in the feed ration on the protein and non-protein fractions in milk. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. A: 85-91. Ref. 1966. SF223.I5 1966 v.1
- 66044 SELF, H. L. Improving feed performance in the feedlot. *Feeds Illus.* 19(1):22-25. Jan.1968. 389.78 F326  
Cattle.
- 66045 SMITH, J. C., and ARANT, F. S. Residues of kepone in milk from cows receiving treated feed. *J. Econ. Entomol.* 60(4):925-927. Aug.15,1967. 421 J822
- 66046 SMITH, L. M., and others. Effect of certain dietary variables on fatty acid composition and oxidative stability of milk lipids. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. A:199-204. Ref. 1966. SF223.I5 1966 v.1  
T. Dairiki, W. L. Dunkley, and M. Ronning, joint authors.
- 66047 STEGER, H., PIATKOWSKI, B., and VOIGT, J. Nutritional studies in calves. 6. Influence of pelleted urea on ruminal fluid and blood composition in early weaned calves. (Ge) *Arch. Tierernähr.* 17(6):409-419. Ref. Sept.1967. 389.78 Ar22  
English summary.
- 66048 STUEDEMANN, J. A., and others. Effect of nutritional level imposed from birth to eight months of age on subsequent growth and development patterns of full-fed beef calves. *J. Anim. Sci.* 27(1):234-241. Ref. Jan.1968. 49 J82  
J. J. Guenther, S. A. Ewing, R. D. Morrison, and G. V. Odell, joint authors.
- 66049 SUDWEEKS, E. M., MATTHEWS, D. J., and GRIMSHAW, P. R. Precondition feeder calves for greater returns. *Utah Sci.* 28(3):100-102, 107. Sept.1967. 100 Ut1F
- 66050 SWANSON, E. W. Level of feeding and mammary development. In Cunha, T. J. Factors affecting calf crop, p.122-136. 1967. SF201.C8  
Effects of feeding on milk production in beef cattle.
- 66051 SWANSON, E. W., and others. Milk production of cows fed diets deficient in vitamin A. *J. Anim. Sci.* 27(2):541-548. Ref. Mar.1968. 49 J82  
G. G. Martin, F. E. Pardue, and G. M. Gorman, joint authors.
- 66052 TARDANI, A., and DEL MONTE, R. Feeding calves with milk substitutes. (It) *Riv. Zootec.* 40(9):465-478. Sept.1967. 49 R52
- 66053 THATTE, V. R., KADUSKAR, M. R., and DE-SAI, M. R. Feeding trials on guar-meal. *Indian Vet. J.* 44(8):701-705. Aug.1967. 41.8 In2  
Trials with cattle.
- 66054 THOMAS, O. O. Current cattle feeding experiments at Montana State University. *Mont. Nutr. Conf. Proc.*, 19th Annu. Conf.:61-62. 1968. 389.79 M76
- 66055 THOMPSON, U. D. Rations for growing and finishing cattle. *Tex. Agr. Mech. Univ. Ext. L-697,8 p.-folder.* Jan.1967. 275.29 T313
- 66056 TOTH, B. Role of milk substitute preparations in the prevention of digestive organ diseases. (Hu) *Agrartud. Kozlem.* 26(3/4):379-381. 1967. 19 B855  
Calf and piglet feeding.
- 66057 TRACEY, A. B. K. Winter feed control for cattle and sheep. *Scot. Agr.* 46(4):194-196. Autumn 1967. 10 Sco82So
- 66058 TREMER, A. W., and MERRILL, W. G. "Off-feed," acidosis and adaptation to increasing grain intake in ruminants. *Cornell Nutr. Conf. Feed Manufacturers. Proc.* 1967:111-117. 389.79 C81  
Cattle and sheep.

- 66059 TYRRELL, H. F., and REID, J. T. Effect of method of forage preservation on the feeding value of perennial forages. Cornell Nutr. Conf. Feed Manufacturers. Proc. 1967:137-145. Ref. 389.79 C81  
Trials with dairy cattle.
- 66060 VAN DYNE, G. M. Prediction by nonlinear programming of relative chemical composition of dietary botanical components. J. Range Manage. 21(1):37-46, 60. Ref. Jan. 1968. 60.18 J82  
Estimation of digestibility values of plants consumed by cattle and sheep.
- 66061 VAN KEUREN, R. W., and others. Summer feeding dairy cows. Ohio Rep. Res. Develop. Biol. Agr. Home Econ. 53(2):30-31. Mar./Apr. 1968. 100 Oh3S  
E. T. Shaudys, R. H. Baker, and A. D. Pratt, joint authors.
- 66062 VAN WYK, S. P. The economics of fattening beef cattle. Farming S. Afr. 43(4):47-49-51, 53-55. July 1967. 24 So842  
Includes costs and returns.
- 66063 VELCHEVSKI, P. Fattening of calves on synthetic mixtures. (Bu) Zhivotnovodstvo 21(9/10):42-44. 1967. 49 Z62
- 66064 VERMESAN, N., GHEORGHIU, A., and GONDOS, G. The influence of feeding on the relation between volatile fatty acids and non-saturated acids, and variations in consistency and resistance to rancidity of milk fat as a function of this relation. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:173-178. 1966. SF223.15 1966 v1  
English summary, p.692.
- 66065 WALDERN, D. E., and BAIRD, N. O. Wafered and baled alfalfa hay harvested at different stages of maturity for lactating cows. J. Dairy Sci. 50(9):1430-1436. Ref. Sept. 1967. 44.8 J822  
Nutritive value.
- 66066 WALTON, A. E. Montana cattle feeding—present and potential. Mont. Nutr. Conf. Proc., 19th Annu. Conf.:2-5. 1968. 389.79 M76
- 66067 WARD, G. M., and NOMANI, M. Z. A. Frequency of feeding alfalfa as a protein supplement. J. Dairy Sci. 50(9):1509. Sept. 1967. 44.8 J822  
For dairy cattle.
- 66068 WEBB, J. S., THORNTON, I., and FLETCHER, K. Geochemical reconnaissance and hypocuprosis. Nature 217(5133):1010-1012, map. Ref. Mar. 16, 1968. 472 N21  
Includes copper deficiency in cattle nutrition.
- 66069 WEBSTER, W. H. Computers in cattle feeding. Mont. Nutr. Conf. Proc., 19th Annu. Conf.:25-26. 1968. 389.79 M76
- 66070 WILSON, B. B. Influence of gelatinization of starch on the occurrence of lactate in the rumen and on performance of beef steers. Diss. Abstr., Sect. B, 28(6):2205B-2206B. Dec. 1967. Z5055.U49D53  
Cornstarch.
- 66071 WILTBANK, J. N. Level of energy and protein in cows. In Cunha, T. J. Factors affecting calf crop, p.44-59. 1967. SF201.C8
- 66072 WISE, G. H., and LAMASTER, J. P. Responses of calves to open-pail and nipple-pail systems of milk feeding. J. Dairy Sci. 51(3):452-456. Ref. Mar. 1968. 44.8 J822
- 66073 ZHEREBTSOV, P. I., and BAIDER, A. B. Effect of various copper doses upon the metabolism of copper, cobalt and molybdenum in the body of ruminants. (Rus) Timiryazevskaya Sel'skokhoz. Akad. Izv. 6:153-165. Ref. 1967: 106 P44  
English summary.  
Cattle.
- Veterinary Medicine
- 66074 AAFJES, J. H., and NIJHOF, J. K. Measurements of flow through the cow's rumen by continuous infusion of a marker. (Du) Tijdschr. Diergeneesk. 93(1):16-27. Jan. 1, 1968. 41.8 T431  
Ethylene glycol used.
- 66075 ADEMOLLO, A. Infectious diseases in Italy. (It) Ital. Agr. 104(9/10):1097-1099. Sept./Oct. 1967. 16 It1  
Measures for control of cattle diseases.
- 66076 AKKADA, A. R. A., and others. Distribution of 2-aminoethylphosphonic acid in some rumen microorganisms. J. Dairy Sci. 51(1):78-81. Ref. Jan. 1968. 44.8 J822  
D. A. Messmer, L. R. Fina, and E. E. Bartley, joint authors.  
In cattle.
- 66077 ALBRIGHT, J. L., and others. A study of the incidence and economics of mastitis in dairy cows. Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:415-417. Ref. 1966. SF223.15 1966 v.1  
D. G. Inskeep, J. W. Wilbur, R. E. Erb, and C. J. Callahan, joint authors.
- 66078 ALIEV, M. H. Residual milk and its role in the milk secretion of buffaloes. Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:137-141. 1966. SF223.15 1966 v.1
- 66079 ARBEITER, K. Cervix uteri and its role in the sterility of cattle. (Ge) Wien. Tierarztl. Monatsschr. 55(1):45-51. Ref. 1968. 41.8 T345
- 66080 ARBEITER, K., and MAYER, P. Tumorous fat tissue prolapse in the vagina of puerperal cattle; etiology and treatment. (Ge) Wien. Tierarztl. Monatsschr. 54(8):537-541. Aug. 1967. 41.8 T345  
English summary.
- 66081 ARMSTRONG, R., DAVIE, J., and HEDGER, R. S. Foot-and-mouth disease in man. Brit. Med. J. 4(5578):529-530. Dec. 2, 1967. 448.8 B77  
Transmitted from cattle to farmer.
- 66082 AZIMOV, G., BELUGINA, O., and ORLOV, A. Reflexory relations between the mammary gland and the thyroid. Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:185-189. 1966. SF223.15 1966 v.1
- 66083 BALDWIN, J. H. Pulmonary bovine tuberculosis in an owner and in his dairy herd. Cornell Vet. 58(1):81-87. Jan. 1968. 41.8 C81  
Due to Mycobacterium bovis.
- 66084 BARAKAT, M. Z., and HASSANEIN, R. R. Biochemical analysis of normal buffalo blood. Zentralbl. Veterinarmed. Reihe A, 15(1):69-75. Ref. Jan. 1968. 41.8 Z5
- 66085 BARONTI, V. Lithiasis of the pancreas in cattle: casuistic contribution with anatomic, histopathologic and pathogenetic considerations. (It) Veterinaria [Milano] 16(6):418-423. Ref. Nov./Dec. 1967. 41.8 V6499
- 66086 BARTHA, A. Respiratory and digestive diseases of calves and possibilities for prevention. (Hu) Agrartud. Kozlem. 26(3/4):383-385. 1967. 19 B855
- 66087 BAUMGARTNER, H., and MULLER, E. The antibiotic content of milk after parenteral treatment of the dairy animal. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:435-440. Ref. 1966. SF223.15 1966 v.1  
English summary, p.745.
- 66088 BELCHEV, D., and SIMOV, I. Experimental induction of enteritis in calves with isolated Escherichia coli. (Bu) Vet. Med. Nauk. 4(3):9-15. Ref. 1967. 41.8 V6468  
English summary.
- 66089 BELCHEV, D., and others. Investigations into the etiology of the enteritis in new-born calves in Bulgaria. (Bu) Vet. Med. Nauk. 4(5):43-56. Ref. 1967. 41.8 V6468  
I. Ivanov, D. Todorov, Kh. Stankushev, N. Pavlov, V. Mateva, B. Stamenov, and P. Koleva, joint authors.  
English summary.



- 66090 BELL, J. T., and HUISMAN, T. H. J. Hemoglobin types in an anemic cow. *Amer. J. Vet. Res.* 29(2):479-482. Ref. Feb. 1968. 41.8 Am3A
- 66091 BENAZZI, P., and DORIGO, L. Experiences on prophylaxis of bovine tuberculosis in the Province of Cremona during the years 1952-1966. (It) *Nuova Vet.* 43(4):463-470, map. July/Aug. 1967. 41.8 N922  
English summary.
- 66092 BENTLER, W., and BURDE, K. B-streptococci in animal and man and their importance as disease causal agent. (Ge) *Tierarztl. Umsch.* 22(9):460-464. Ref. Sept. 1, 1967. 41.8 T445  
Chiefly on *Streptococcus agalactiae* causing yellow galt in cattle.
- 66093 BERCZI, I., and others. The role of immunobiological conditions in *E. coli*-disease of newborn calves. *Zentralbl. Veterinarmed.* Reihe B, 14(5):408-418. Ref. Aug. 1967. 41.8 Z52  
L. Stipkovits, T. Bereznai, and T. Antal, joint authors.
- 66094 BERMAN, D. T., and HENDRICKS, J. The complement fixation test in diagnosis of bovine Brucellosis. *Nat. Brucell. Comm. Proc.*, June 1966:42. aSF809.B8N3
- 66095 BLACKBURN, P. S., and CASTLE, M. E. Cow's milk of abnormally low composition. *Brit. Vet. J.* 124(1):27-35. Ref. Jan. 1968. 41.8 V643  
Mastitis and genetic factors contributed to this condition.
- 66096 BLAKE, J. T., and CALL, J. W. Sex hormones and the growth of nursing calves on high mountain ranges in Utah. *Utah Sci.* 28(3):97-99. Sept. 1967. 100 Ut1F
- 66097 BLIN, P. C., and LAUVERGNE, J. J. Description of the "sheep-head," hereditary abnormality in cattle (probatocephaly). (Fr) *Ann. Zootech.* 16(1):65-88. Ref. 1967. 49 F84  
English summary.
- 66098 BOLDUAN, G. On influencing the process of lactations preceding twin births. (Ge) *Fortpflanzung, Besamung, Aufzucht Haustiere* 3(2):141-146. 1967. QP251.F6  
English summary.  
Cattle.
- 66099 BONSMMA, J. C. Hormones in the bovine. In Cunha, T. J. Factors affecting calf crop, p.192-196. 1967. SF201.C8
- 66100 BORDET, R., SEVESTRE, J., and BOIVIN, R. The technique of obtaining blood serum from the coccygeal vessels of the cattle. (Fr) *Acad. Vet. France. Bull.* 143(10):945-951. Oct. 1967. 41.8 R24  
English summary.
- 66101 BOULANGER, P., and others. Studies on blue-tongue. III-VI. *Can. J. Comp. Med. Vet. Sci.* 31(7):166-188. Ref. July 1967. 41.8 C162  
G. M. Ruckerbauer, G. L. Bannister, D. P. Gray, A. Girard, and N. G. Willis, joint authors.  
III, Comparison of two complement-fixation methods; IV, Studies of three strains in primary bovine foetal kidney cell cultures; V, Detection of the virus in infected materials by immunofluorescence; VI, Animal transmission.  
In cattle and sheep.
- 66102 BOWDEN, R. A. Bloat. *Milk Board J.* 19(1):23. Jan. 1968. 44.8 M5934
- 66103 BRATLIE, O. Current mastitis diagnosis. (No) *Nord. Veterinarmed.* 19(11):513-523. Ref. Nov. 1967. 41.8 N813  
English summary.  
Cattle.
- 66104 BRAUND, D. G., and others. Placental transfer of dieldrin in dairy heifers contaminated during three stages of gestation. *J. Dairy Sci.* 51(1):116-118. Jan. 1968. 44.8 J822  
L. D. Brown, J. T. Huber, N. C. Leeling, and M. J. Zabik, joint authors.
- 66105 CALHOUN, M. C., and others. Rates of formation and absorption of cerebrospinal fluid in bovine hypovitaminosis A. *J. Dairy Sci.* 50(9):1486-1494. Ref. Sept. 1967. 44.8 J822  
H. D. Hurt, H. D. Eaton, J. E. Rousseau, and R. C. Hall, joint authors.
- 66106 CALLOW, L. L., and TAMMEMAGI, L. Vaccination against bovine babesiosis; infectivity and virulence of blood from animals either recovered from or reacting to *Babesia argentina*. *Australian Vet. J.* 43(7):249-256. Ref. July 1967. 41.8 Au72
- 66107 CAMPBELL, C. L. Interstate disease control regulations. In Cunha, T. J. Factors affecting calf crop, p.342-350. 1967. SF201.C8
- 66108 CASSIDY, D. R., MOREHOUSE, L. G., and McDANIEL, H. A. *Mycobacterium avium* infection in cattle: a case series. *Amer. J. Vet. Res.* 29(2):405-410, map. Ref. Feb. 1968. 41.8 Am3A
- 66109 CHOUDARY, J. B., GIER, H. T., and MARION, G. B. Cyclic changes in bovine vesicular follicles. *J. Anim. Sci.* 27(2):468-471. Ref. Mar. 1968. 49 J82  
During estrus and pregnancy distribution of follicles in ovaries.
- 66110 CHRIST, W. Changes in the casein fractions of normal and abnormally secreted milk. (Ge) *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. A: 281-287. Ref. 1966. SE223.I5 1966 v.1  
English summary, p.713.
- 66111 CLARK, B. L., and others. Experimental Vibrio fetus infection in cows; studies on the immunising properties of living organisms injected subcutaneously. *Australian Vet. J.* 43(9):341-345. Ref. Sept. 1967. 41.8 Au72  
I. D. B. Newsam, M. J. Monsborough, and J. H. Dufty, joint authors.
- 66112 CORNER, A. H., BANNISTER, G. L., and HILL, D. P. A histological study of the effects of enzootic abortion of ewes virus in the lactating bovine mammary gland. *Can. J. Comp. Med. Vet. Sci.* 32(1):372-381. Jan. 1968. 41.8 C162  
Resulted in acute mastitis.
- 66113 CORTICELLI, B., and LAI, M. On the differentiation of the first stage-larvae of *Dictyocaulus viviparus* from the first-stage larvae of gastrointestinal strongyles and *Strongyloides papillosus* in cattle. (It) *Nuova Vet.* 43(4):280-288. July/Aug. 1967. 41.8 N922  
English summary.
- 66114 CRAVEN, J. Rearing young cattle—profitably. *Milk Prod. [London]* 14(12):367. Dec. 1967. 280.38 M598  
Chiefly parasite control.
- 66115 CROCKETT, J. R. Age and reproduction. In Cunha, T. J. Factors affecting calf crop, p.268-272. 1967. SF201.C8
- 66116 CZERKAWSKI, J. W. Incubation inside the bovine rumen. *Brit. J. Nutr.* 21(4):865-878. Ref. 1967. 389.8 B773  
Use of apparatus for the study of microbial growth and hydrogenation of fatty acids.
- 66117 DAM, A. Intraperitoneal infection experiments on calves and mice with *Escherichia coli*. *Nord. Veterinarmed.* 19(11):531-535. Nov. 1967. 41.8 N813  
Coli septicemia.
- 66118 DATTA, S. P. Reactions of plant extracts with cattle erythrocytes. I. Immunogenet. *Lett.* 5(3):140-147. Jan. 1968. 443.8 Im6  
Blood group study using seeds of Leguminosae.
- 66119 DAYNES, P. Trials of simultaneous treatment of gastro enteritic strongylosis and monieziasis of cattle with a mixture of Thiabendazole and Niclosamide. (Fr) *Rev. Elevage Med. Vet. Pays Trop.* (n.s.) 20(2):273-278. 1967. 41.8 R3262  
English summary.
- 66120 DECAEN, C., and ADDA, J. Evolution of secretion of the fatty acids of glycerides of cow's milk in the course of lactation. (Fr) *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. A: 161-171. Ref. 1966. SF223.I5 1966 v.1  
English summary, p.691.

- 66121 DEMCHUK, M. V., SMAGA, Z. I., and DED-YUKH, E. K. Functional stage of cow organism, affected with slight form of foot-and-mouth disease. (Uk) Visn. Sil's'kohospod. Nauk. 1:106-109. Jan.1968. 20 V82
- 66122 DENNIS, S. M. Mucnase activity of *Vibrio fetus*. Cornell Vet. 57(4):630-637. Ref. Oct. 1967. 41.8 C81  
In cattle.
- 66123 DESHPANDE, B. R., and SANE, C. R. Post-operative study on salpingitis in Murrah buffaloes. Indian Vet. J. 44(10):905-906. Oct.1967. 41.8 In2
- 66124 DESHPANDE, K. S., and KULKARNI, P. E. Complete unilateral facial paralysis in a bullock. Indian Vet. J. 44(10):893-895. Oct.1967. 41.8 In2
- 66125 DESJARDINS, C., and HAFS, H. D. Levels of pituitary FSH and LH in heifers from birth through puberty. J. Anim. Sci. 27(2):472-477. Ref. Mar.1968. 49 J82
- 66126 DJOUROVA, I. Pathomorphological studies on ovarian cysts in cows. (Bu) Vet. Med. Nauk. 4(4):43-38. Ref. 1967. 41.8 V6468  
English summary.
- 66127 DIRKSEN, G., and FISCHER, W. Bovine herd ketonuria. (Ge) Deut. Tierarztl. Wochenschr. 74(20):508-511. Oct.15,1967. 41.8 D482  
English summary.
- 66128 DODD, F. H., and others. The importance of hygiene in the control of udder disease. Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:383-390. 1966. SF223.15 1966 v.1  
F. K. Neave, R. G. Kingwill, C. C. Thiel, and D. R. Westgarth, joint authors.
- 66129 DOHERTY, P. C., SIMMONS, G. C., and PAYNE, E. Inactivation of infectious bovine rhinotracheitis virus by calcium alginate wool swabs. Australian Vet. J. 43(7):257-260. July 1967. 41.8 Au72
- 66130 DORFEL, G. Some comments on practical and methodico-didactic aspects of cycle diagnosis in cattle. (Ge) Monatsh. Veterinarmed. 22(19):789-791. Oct.1,1967. 41.8 M742  
English summary.
- 66131 DRUMMOND, R. O., WHETSTONE, T. M., and ERNST, S. E. Insecticidal control of the ear tick [*Otobius megnini*] in the ears of cattle. J. Econ. Entomol. 60(4):1021-1025. Ref. Aug.15,1967. 421 J822
- 66132 DUNN, H. O., LEIN, D. H., and KENNEY, R. M. The cytological sex of a bovine anidian (Amorphous) twin monster. Cytogenetics 6(6):412-419. Ref. 1967. 442.8 C992
- 66133 EDDS, G. T. Reproductive diseases in cows. In Cunha, T. J. Factors affecting calf crop, p.319-330. 1967. SF201.C8
- 66134 EGGELTON, F. D. Cup flushing unit—our salvation. New Zeal. J. Agr. 115(3):117,119. Sept.1967. 23 N48J  
Mastitis control in dairy cattle.
- 66135 EICHLER, W. Control of lungworms of cattle. (Ge) Wien. Tierarztl. Monatsschr. 55(1):52-55. 1968. 41.8 T345  
With aerosols.
- 66136 ELLIOTT, L., and others. Uterus of the cow after parturition; bacterial content. Amer. J. Vet. Res. 29(1):77-81. Ref. Jan.1968. 41.8 Am3A  
K. J. McMahon, H. T. Gier, and G. B. Marion, joint authors.
- 66137 EPLING, G. P. Electron microscopy of bovine heart in congestive failure of high mountain disease. Amer. J. Vet. Res. 29(1):97-109. Ref. Jan.1968. 41.8 Am3A
- 66138 ERB, R. E., and others. Effect of ovariectomy on concentration of progesterone in blood plasma and urinary estrogen excretion rate in the pregnant bovine. J. Dairy Sci. 51(3):420-427. Ref. Mar.1968. 44.8 J822  
W. R. Gomes, R. D. Randel, V. L. Estergreen, and O. L. Frost, joint authors.
- 66139 ERB, R. E., and others. Progesterin content of ovaries and the effect on assessment of luteal activity in the bovine. J. Dairy Sci. 51(3):411-415. Ref. Mar.1968. 44.8 J822  
V. L. Estergreen, W. R. Gomes, E. D. Plotka, and O. L. Frost, joint authors.
- 66140 ERB, R. E., and others. Progesterin levels in corpora lutea and progesterone in ovarian venous and jugular vein blood plasma of the pregnant bovine. J. Dairy Sci. 51(3):401-410. Ref. Mar.1968. 44.8 J822  
V. L. Estergreen, W. R. Gomes, E. D. Plotka, and O. L. Frost, joint authors.
- 66141 ERB, R. E., and others. Urinary estrogen excretion rates during pregnancy in the bovine. J. Dairy Sci. 51(3):416-419. Ref. Mar.1968. 44.8 J822  
R. D. Randel, T. N. Mellin, and V. L. Estergreen, joint authors.
- 66142 FÄYER, R., and HAMMOND, D. M. Development of first-generation schizonts of *Elmeria bovis* in cultured bovine cells. J. Protozool. 14(4):764-772. Ref. Nov.1967. 439.8 J82
- 66143 FERGUS, H. On the scene with foot-and-mouth in 1914. Hoard's Dairyman 113(6):380. Mar.25,1968. 44.8 H65
- 66144 FINDLAY, J. D., and THOMPSON, G. E. The effect of intraventricular injections of nor-adrenaline, 5-hydroxytryptamine on the ox (*Bos taurus*) at different environmental temperatures. J. Physiol. 194(3):809-916. Ref. Feb. 1968. 44.8 J82
- 66145 FORENBACHER, S., and others. Relations between the digestive process and metabolism in conditions of alimentary indigestion. II-III. (Se) Vet. Arh. 37(3/4):66-98. 1967. 41.8 V6416  
J. Bozena, F. Zdelar, S. Pavlovic, and Z. Vinovski, joint authors.  
English summary.  
Chiefly in cattle.
- 66146 FRIES, G. F., and KANE, E. A. Retention of DDT and DDE by the bovine. J. Dairy Sci. 50(9):1512-1514. Sept.1967. 44.8 J822
- 66147 GARDNER, A. W., and HALL-PATCH, P. K. Molybdenosis in cattle grazing downwind from an oil refinery unit. Vet. Rec. 82(3):86-87. Jan.20,1968. 41.8 V641  
In Great Britain.
- 66148 GASPARINI, G. Enterofarma in the prevention and treatment of newborn diarrhea or colibacillosis. (It) Veterinaria [Milano] 16(6):435-439. Nov./Dec.1967. 41.8 V6499
- 66149 GAVEZ, E. The findings of the modern pathologist in the diapason of different results of tuberculin test and his interpretation of them; tuberculosis in cattle in their localities, reaction types, volumes and nosological framework today. (Se) Vet. Glas. 21(7):583-591. Ref. 1967. 41.8 J93  
English summary.
- 66150 GEIDE, H. Prophylactic antiparasitic measures for health keeping of cattle stands in the native agriculture. (Ge) Prakt. Tierarzt 48(12):543-544. Dec.1,1967. 41.8 P882
- 66151 GENEROSO, W. M. Some cytological studies in cattle and swine. Diss. Abstr., Sect. B, 28(5):1796B. Nov.1967. Z5055.U49D53
- 66152 GENTILE, G. Researches on transmissibility of bovine leucosis—hematological findings. (It) Nuova Vet. 43(4):355-372. Ref. July/Aug. 1967. 41.8 N922  
English summary.
- 66153 GERSON, T., and others. Origin of glyceride fatty acids in cow milk fat. J. Dairy Sci. 51(3):356-361. Ref. Mar.1968. 44.8 J822  
F. B. Shorland, G. F. Wilson, C. W. S. Reid, joint authors.
- 66154 GIER, H. T., and MARION, G. B. Uterus of the cow after parturition; involutional changes. Amer. J. Vet. Res. 29(1):83-96. Ref. Jan. 1968. 41.8 Am3A



- 66155 GIRAUD, J. Methods for the implantation of hormones for the control of "stress" in the young cattle of Lot-et-Garonne. (Fr) Acad. Vet. France. Bull. 143(10):981-986. Oct.1967. 41.8 R24  
English summary.  
Estrogens implanted in the dewlap.
- 66156 GORMAN, G. M., and SWANSON, E. W. Effect of oxytocin administered during the dry period on the succeeding lactation. J. Dairy Sci. 51(1):60-66. Ref. Jan.1968. 44.8 J822
- 66157 GRAHAM, O. H., and DRUMMOND, R. O. The potential of animal systemic insecticides for eradicating cattle grubs, *Hypoderma* spp. [*Hypoderma lineatum* and *H. bovis*]. J. Econ. Entomol. 60(4):1050-1053. Ref. Aug.15, 1967. 421 J822
- 66158 GREGORY, G. G. Bovine Vibriosis: its control in beef cattle. Tasmanian J. Agr. 38(4): 288-290. Nov.1967. 23 T182T  
Vibrio fetus.
- 66159 GRUNES, D. L. Grass tetany of cattle as affected by plant composition and organic acids. Cornell Nutr. Conf. Feed Manufacturers. Proc. 1967:105-110. 389.79 C81  
Experiments with *Lolium perenne*, and *Agropyron desertorum*.
- 66160 GUHA, A. N., and SIRCAR, P. B. A case of tuberculous mastitis in a cow. Indian Vet. J. 44(8):657-659. Aug.1967. 41.8 In2
- 66161 GUTENMANN, W. H., and LISK, D. J. Metabolism of TOK [2,4-dichloro-4'-nitrodiphenyl ether] herbicide in the dairy cow. J. Dairy Sci. 50(9):1516-1518. Sept.1967. 44.8 J822
- 66162 HAFS, H. D., and ARMSTRONG, D. T. Corpus luteum growth and progesterone synthesis during the bovine estrous cycle. J. Anim. Sci. 27(1):134-141. Ref. Jan.1968. 49 J82
- 66163 HAMADA, T., and others. Direct determination of rumen volatile fatty acids by gas chromatography. J. Dairy Sci. 51(2):228-229. Ref. Feb.1968. 44.8 J822  
S. Omori, K. Kameoka, S. Horii, and Morimoto, joint authors.
- 66164 HANSEL, W. Control of the ovarian cycle in cattle. Nottingham. Univ. Easter Sch. Agr. Sci. Proc. 13th Easter Sch.:419-443. 1966, pub. 1967. S217.E2  
Review of the literature.  
Includes discussion.
- 66165 HANSEL, W. Studies on the formation and maintenance of the corpus luteum. Nottingham. Univ. Easter Sch. Agr. Sci. Proc. 13th Easter Sch.:346-365. 1966, pub.1967. S217.E2  
Review of the literature.  
Cattle.  
Includes discussion.
- 66166 HANSON, L. E. Leptospirosis in cattle and horses in Illinois. Ill. Vet. 10(4):10. 1967. 41.8 IL62
- 66167 HAPKE, H. J. Can thyroid inhibitors as sedatives be used in cattle practice? (Ge) Tierarztl. Umsch. 22(12):599-602. Dec.1,1967. 41.8 T445  
Methylthiouracil and propylthiouracil.
- 66168 HARDY, R. N. The acceleration by certain anions of the absorption of macro-molecular substances from the small intestine of the new-born calf. J. Physiol. 194(1):45P-46P. Jan.1968. 447.8 J82
- 66169 HARR, M. Improvement of milk quality through veterinary inspection of udders. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. A: 409-414. 1966. SF223.15 1966 v.1  
English summary, p.740.
- 66170 HEESCHEN, W., and EINLEITUNG, A. The protein content of raw milk and its relation to secretion disorders of the mammary glands. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:391-398. Ref. 1966. SF223.15 1966 v.1  
English summary, p.736.
- 66171 HEIDRICH, H. D. Studies on vitamin A and carotene levels in the blood of cows. (Ge) Monatsh. Veterinarmed. 22(19):778-781. Oct.1,1967. 41.8 M742  
English summary.
- 66172 HELWIG, D. M., THOMAS, J. H., and WILLIAMS, L. G. The bovine enterotoxaemia complex; its aetiology, antibody response to vaccination and problems in diagnosis. Australian Vet. J. 43(9):364-367. Ref. Sept.1967. 41.8 Au72
- 66173 HERRICK, J. Abortions in cattle caused by viruses. Milk Board J. 19(1):31. Jan.1968. 44.8 M5934
- 66174 HEUBNER, D. Beitrag zur Zytochemie der Blutleukozyten des Rindes; die Naphthol-AS-Esterase, nach Löffler in Monozyten und Lymphozyten unter besonderer Berücksichtigung der lymphatischen Leukose [Contribution to cytochemistry of blood leucocytes of cattle; Naphthol-AS-esterase according to Löffler in monocytes and lymphocytes with special emphasis on lymphatic leucosis]. Hanover. Tierarztl. Hochsch. Inaug.-Diss. 33, 42 p. 1966. 41.2 H198  
Bibliography, p.34-41.
- 66175 HINDERER, G. A. Experimental induction and maintenance of lactation with estrogen in dairy cattle. Diss. Abstr., Sect. B, 28(5):2108B-2109B. Nov.1967. Z5055.U49D53
- 66176 HINDS, F. C., and others. Influence of aspiration biopsy of liver on cattle gains and liver vitamin A values. J. Anim. Sci. 27(2):505-508. Mar.1968. 49 J82  
G. F. Cmarik, M. E. Mansfield, and J. E. Zimmerman, joint authors.
- 66177 HOFFMANN, R. Anomaly of chromosomes in the cells of the testicle of a cryptorchid calf (60[XY]/62[XX]chimerism). (Ge) Berliner Münchener Tierarztl. Wochenschr. 80(20): 390-391. Oct.15,1967. 41.8 B45  
English summary.
- 66178 HOLMAN, J. Changes in the localization of unsaturated fats in the rumen epithelium of calves in the course of the first month of life. (Ge) Acta Histochem. 28(2):345-354. Ref., p.352-354. 1967. 384 Ac8  
English summary.
- 66179 HORT, I., and HERZ, A. Effect of the venom of the bee *Apis mellifera* on osmotic fragility of cattle RBC. Toxicon 5(3):181-186. Feb. 1968. 391.8 T66
- 66180 HOTSON, I. K. Ostertagiasis in cattle. Australian Vet. J. 43(9):383-388. Ref. Sept.1967. 41.8 Au72  
Includes discussion.
- 66181 HOUP, T. R. Heat production of bovine ruminal ingesta. Amer. J. Vet. Res. 29(2):411-419. Ref. Feb.1968. 41.8 Am3A
- 66182 HOUP, T. R. Suction device for measurement of rumen exchange in vivo. Amer. J. Vet. Res. 29(1):201-204. Jan.1968. 41.8 Am3A  
Bovine rumen.
- 66183 IONOV, P. S. Vnutrennie nezaraznye bolezni krupnogo rogatogo skota [Internal noninfectious diseases of cattle]. Moskva, Kolos, 1967. 448 p. SF961.I55
- 66184 IOTOV, I. Surface-active agents as reagents for testing milk of mastitis-affected cows. (Bu) Vet. Med. Nauk. 4(3):89-98. Ref. 1967. 41.8 V6468  
English summary.
- 66185 JACOBS, J., and HANSELAAR, J. An investigation about the antibiotic sensitivity of strains of bacteria causing bovine mastitis frequently isolated in the Netherlands. (Du) Tijdschr. Diergeneesk. 92(13):851-861. July 1,1967. 41.8 T431  
English summary.

- 66186 JADHAV, D. S., and KHAMBATA, F. S. Preliminary observations of complementary milk in a buffalo-cow. *Indian Vet. J.* 44(9):782-785. Sept. 1967. 41.8 In2  
Effects of oxytocin and determination of milk fat.
- 66187 JAIN, N. C., JASPER, D. E., and DELLINGER, J. D. Cultural characters and serological relationships of some mycoplasmas isolated from bovine sources. *J. Gen. Microbiol.* 49 (3):401-410. Ref. Dec. 1967. 44.8 J 823
- 66188 JASPER, D. E. Mycoplasmas: their role in bovine disease. *Amer. Vet. Med. Ass. J.* 151(12): 1650-1655. Ref. Dec. 15, 1967. 41.8 Am3
- 66189 JHA, G. J., and IYER, P. K. R. Pathology of phenothiazine intoxication in cattle and sheep--changes in endocrine organs. *Indian J. Vet. Sci. Anim. Husb.* 37(3):165-171. Ref. Sept. 1967. 41.8 In22
- 66190 JOHNSON, H. D. Climatic effects on physiology and productivity of cattle. In Shaw, R. H., ed. *Ground level climatology*, p.189-206. Ref. 1967. QC981.S5  
Lactation as a measure of productivity.
- 66191 JOHNSON, R. J., and DYER, I. A. Tryptophan metabolism in the normal and tympanitic bovine. *Life Sci.* 7(2,pt.2):31-37. Jan. 15, 1968. 44.8 L62
- 66192 JOHNSON, W. H., and LOOMIS, E. C. Horn fly [*Haematobia irritans*] and grub [*Hypoderma lineatum*] control on beef cattle. *Calif. Agr.* 21 (10):12-14. Oct. 1967. 100 C12Cag  
Chemical.
- 66193 KASTLI, P., and others. A contribution to the problem of the influence of fever on the composition of milk. (Ge) *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. A:425-434. 1966. SF223.15 1966 v.1  
H. Baumgartner, H. Gerber, and E. Muller, joint authors.  
English summary, p.743.
- 66194 KASTLI, P., and MOOSBRUGGER, G. The viability of foot-and-mouth disease virus in milk, whey, and skim milk as affected by various temperatures. (Ge) *Schweiz. Milchzeitung* 94(21):158. Mar. 12, 1968. 44.8 Sch92
- 66195 KAUFMANN, W. Investigations on the relation between feed and saliva of cattle. (Ge) *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. A:109-115. Ref. 1966. SF223.15 1966 v.1  
English summary, p.678.
- 66196 KHAIRUTDINOV, KH. M., KHASHIMOV, M. M., and GAZIZOV, V. Z. Preparation and use of cattle abomasum juice. (Rus) *Veterinaria* 10: 74. Oct. 1967. 41.8 V6426
- 66197 KHAKIMOV, L. K. Some problems of prevention of disturbance in vitamin A feeding of cows. (Rus) *Veterinariya* 9:79-81. Sept. 1967. 41.8 V6426
- 66198 KHAN, C. K. A., and SALAM, A. Salpingo-ovario-bursitis amongst buffaloes. *Indian Vet. J.* 44(7):572-575. Ref. July 1967. 41.8 In2
- 66199 KNUTSSON, P. G. Permeability of the udder epithelium and the formation of milk. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. A: 129-132. Ref. 1966. SF223.15 1966 v.1
- 66200 KOHLI, I. S. A case of atresia cervicalis (white heifer disease) in a Rath heifer. *Indian Vet. J.* 44(10):869-871. Oct. 1967. 41.8 In2
- 66201 KOHLI, R. N., TYAGI, R. P. S., and SABHARWAL, K. B. Experimental studies on traumatic reticulopericarditis in four buffalo calves. *Punjab Agr. Univ. J. Res.* 4(2):257-265. June 1967. S19.P8
- 66202 KOMAROV, N. M., and VOLKOV, G. K. Mechanism and biological effect of ionized air. (Rus) *Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina. Dokl.* 8:28-29. Aug. 1967. 20 Ak1  
Tested on calves.
- 66203 KOPECKY, K. E., LARSEN, A. B., and PACKER, R. A. Evaluation of an intravenous tuberculin test in cattle. *Amer. J. Vet. Res.* 29(1): 31-38. Jan. 1968. 41.8 Am3A
- 66204 KOTSCHÉ, W. *Pyogenes mastitis in cattle* (evaluation of examination records, 1958 to 1966, on etiology, process, and epizootiology). (Ge) *Monatsh. Veterinarmed.* 22(19):761-766. Ref. Oct. 1967. 41.8 M742  
English summary.  
*Corynebacterium pyogenes*.
- 66205 KRÁL, J., and others. The occurrence of mastitis in cattle in central Bohemia caused by the genus *Klebsiella*. (Cz) *Veterinarství* 18(1): 23-26. 1968. 41.8 V6439  
M. Bastar, L. Mukarovsky, and A. Celerin, joint authors.
- 66206 KRAVETZ, I. K., and others. Immunity in cattle inoculated with vaccines against foot-and-mouth disease prepared from virus cultures. (Rus) *Veterinariya* 9:46-48. Ref. Sept. 1967. 41.8 V6426  
A. A. Susukin, N. I. Efimov, V. A. Sergeev, A. A. Kantov, and N. D. Zavialov, joint authors.
- 66207 KRONFELD, D. S. Acetate kinetics in normal and ketotic cows. *J. Dairy Sci.* 51(3):397-400. Ref. Mar. 1968. 44.8 J822
- 66208 KÜBIN, G., and KOLBL, O. Serological investigations of abortus cases of Bang negative cattle in Carinthia and Salzburg. (Ge) *Wien. Tierarztl. Monatsschr.* 54(8):526-536. Ref. Aug. 1967. 41.8 T345  
English summary.
- 66209 KUNTER, E. Detection of gait streptococci in milk. (Ge) *Monatsh. Veterinarmed.* 22(14): 571-578. Ref. July 15, 1967. 41.8 M742  
English summary.
- 66210 KUZNEZOV, G. S., and BASHKIROV, B. A. The treatment of complications of foot-and-mouth disease involving udder of cows. (Rus) *Veterinariya* 9:91-93. Sept. 1967. 41.8 V6426
- 66211 LAMY, L., and BOULEY, G. Observations in France, in a calf; a case of massive infection with *Trypanosoma theileri*, Laveran 1902. (Fr) *Acad. Vet. France. Bull.* 40(7):323-325. July 1967. 41.9 R24
- 66212 LASCELLES, A. K., HARTMANN, P. E., and HARRIS, J. G. Studies on fat absorption in the lactating cow. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. A:59-64. Ref. 1966. SF223.15 1966 v.1
- 66213 LAUE, W. Endangerment of ruminants by feeding DNOC-containing plants. (Ge) *Monatsh. Veterinarmed.* 22(15):604-608. Ref. Aug. 1, 1967. 41.8 M742  
English summary.  
Toxicity to cattle and sheep.
- 66214 LEE, J. N., and KJAERGAARD, P. Mammary and renal excretion of sulphamethomidine in cows. *Nord. Veterinarmed.* 19(12):578-584. Ref. Dec. 1967. 41.8 N813
- 66215 LEMBKE, A., and MILCZEWSKI, K. E. VON. A cell fraction of *Brucella abortus* for active immunization against brucellosis. (Ge) *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. A: 419-424. Ref. 1966. SF223.15 1966 v.1  
English summary, p.742.
- 66216 LINDLEY, E. P. Contagious bovine pleuropneumonia and the problems associated with its control. *Amer. Vet. Med. Ass. J.* 151(12): 1810-1815. Ref. Dec. 15, 1967. 41.8 Am3
- 66217 LIPANT'EVA, N. N. Factors causing livestock injury by electric current. (Rus) *Timiryazevskaya Sel'skokhoz. Akad. Izv.* 6:182-187. 1967. 106 P44  
English summary.  
Cattle.
- 66218 LOMBARDO, N. Research on the total iron's behaviour in the maternal and fetal blood, in placenta and fetal waters of cow. (It) *Nuova Vet.* 43(5):578-582. Ref. Sept./Oct. 1967. 41.8 N922  
English summary.
- 66219 LUDWICK, T. M., and RADER, E. R. Diagnosis of early pregnancy in cattle by ovarian analysis. *J. Dairy Sci.* 51(1):74-77. Jan. 1968. 44.8 J822



- 66220 LUSK, J. W. The use and reliability of an *in vivo* nylon bag dry matter digestion technique. Diss. Abstr., Sect. B, 28(5):1742B-1743B. Nov. 1967. Z5055.U49D53  
Use in cattle with ruminal fistula.
- 66221 MA, R. C. S., and others. Hormonal induction of lactation in sterile cows. Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:191-193. 1966. SF223.15 1966 v.1  
T. C. Liu, J. Wu, and C. C. Y. Chang, joint authors.
- 66222 MACK, M., and FISCHER, G. Problems of dry days of cows. (Ge) Tierzuchter 20(2):37-38. Jan.20,1968. 49 T445
- 66223 MACLAREN, A. P. C. Salmonellosis in calves. Scot. Agr. 46(4):191-193. Autumn 1967. 10 Sco82So
- 66224 MADSEN, J. A. Dry udder therapy. (Da) Danske Dyrægefor. Medlemsbl. 51(1):7-10,11-13. Ref. Jan.1,1968. 41.9 D23  
Antibiotic treatment of cattle.
- 66225 MANGELSON, F. L., and others. Renal clearance of P-aminohippuric acid and inulin in dairy cattle. J. Anim. Sci. 27(1):178-184. Ref. Jan.1968. 49 J82  
L. E. Harris, J. L. Shupe, and D. A. Greenwood, joint authors.
- 66226 MARINOV, U., and LOVELL, J. E. Cytology of the bovine uterine epithelium during the estrous cycle. Amer. J. Vet. Res. 29(1):13-30. Ref. Jan.1968. 41.8 Am3A
- 66227 MARION, G. B., GIER, H. T., and CHOUDARY, J. B. Micromorphology of the bovine ovarian follicular system. J. Anim. Sci. 27(2):451-465. Ref. Mar.1968. 49 J82
- 66228 MARION, G. B., NORWOOD, J. S., and GIER, H. T. Uterus of the cow after parturition: factors affecting regression. Amer. J. Vet. Res. 29(1):71-75. Ref. Jan.1968. 41.8 Am3A
- 66229 MARTYNYUK, M. M. Effect of insulin on nitrogen compound content and enzyme activity in cattle rumen. (Uk) Ukrayin. Biokhim. Zhur. 39(4):418-420. 1967. 385 Uk72  
English summary.
- 66230 MCCARTHY, R. D., PORTER, G. A., and GRIEL, L. C. Bovine ketosis and depressed fat test in milk: a problem of methionine metabolism and serum lipoprotein aberration. J. Dairy Sci. 51(3):459-462. Ref. Mar.1968. 44.8 J822
- 66231 MCCARTHY, R. D., and others. Fatty acid composition of blood serum lipoproteins from normal and ketotic cows. J. Dairy Sci. 51(3):392-396. Ref. Mar.1968. 44.8 J822  
P. T. Chandler, L. C. Griel, and G. A. Porter, joint authors.
- 66232 MCLAUGHLIN, A. R. Bovine tuberculosis eradication in Wisconsin. Amer. Vet. Med. Ass. J. 151(10):1343-1346. Ref. Nov.15,1967. 41.8 Am3
- 66233 MELCHAKOV, L. F. The treatment of vaginal prolapses in cows. (Rus) Veterinariya 9:93-94. Sept.1967. 41.8 V6426
- 66234 MICHEL, J. F. Faecal egg counts in infections of gastro-intestinal nematodes in cows. Vet. Rec. 82(5):132-133. Feb.3,1968. 41.8 V641
- 66235 MILLER, G. E., BANERJEE, N. C., and STOWE, C. M. Drug movement between bovine milk and plasma as affected by milk pH. J. Dairy Sci. 50(9):1395-1403. Ref. Sept.1967. 44.8 J822
- 66236 MIROLYUBOV, M. G. On evaluation of Bernburg test and plate test for cow mastitis diagnosis. (Rus) Veterinaria 10:87-89. Ref. Oct. 1967. 41.8 V6426
- 66237 MITEV, G., VASILEVA, L., and TEKERLEKOV, P. Investigations into the foot-and-mouth disease virus. II. Formation of complement fixing antigen in cells infected with foot-and-mouth virus type "O." (Bu) Vet. Med. Nauk. 4(3):17-20. Ref. 1967. 41.8 V6468  
English summary.  
From cattle.
- 66238 MOHIYUDDIN, S., and MALAKI, A. A case of primary myxoma of sub-cutaneous region in a cow. Indian Vet. J. 44(7):613-615. July 1967. 41.8 In2
- 66239 MONDINI, S. The complex rumenitis-liver abscesses in cattle fed with concentrates. (It) Nuova Vet. 43(4):525-527. Ref. July/Aug.1967. 41.8 N922  
English summary.
- 66240 MONTEMAGNO, F., and others. Clinical findings during an outbreak of influenza among calves caused by the Parainfluenza-3 virus. (It) Nuova Vet. 43(4):324-329. Ref. July/Aug. 1967. 41.8 N922  
A. Agresti, A. Persechino, and B. Zacchi, joint authors.  
English summary.
- 66241 MOREL, P. C. Study on cattle ticks in Guadeloupe and Martinique. III. Resistance of *Boophilus microplus* to gammexane in French Antilles. (Fr) Rev. Elevage Med. Vet. Pays Trop. (n.s.)20(3):451-456. 1967. 41.8 R3262  
English summary.
- 66242 MORETTI, B., and ROMANELLI, V. Enzootic pneumonia in calves; clinical and anatomico-histopathological aspects. (It) Nuova Vet. 43(4):246-261. July/Aug.1967. 41.8 N922  
English summary.
- 66243 MOSTAFA, I. E. Studies on bovine farcy in the Sudan. III. Pathogenicity of *Nocardia farcinica*. J. Comp. Pathol. 77(4):347-352. Ref. Oct.1967. 41.8 J82
- 66244 MOUWEN, J. M. V. M., and others. Terminal dry gangrene tissue in calves. (Du) Tijdschr. Diergeneesk. 92(19):1282-1294. Oct.1,1967. 41.8 T431  
H. J. Wintzer, G. J. Binkhorst, and J. C. L. Logger, joint authors.  
English summary.
- 66245 MURPHY, J. C. Pathogenesis of leptospiral abortion in cattle. Diss. Abstr., Sect. B, 28(3):969B. Sept.1967. Z5055.U49D53
- 66246 MUSCARELLA, A., and MINOCCHERI, F. Fatigue from transport in cattle. (It) Nuova Vet. 43(5):557-563. Ref. Sept./Oct.1967. 41.8 N922  
English summary.
- 66247 MUTOVIN, V. I., and PATRACHEVA, T. K. Mastitis prophylaxis in cows. (Rus) Veterinariya 9:90-91. Sept.1967. 41.8 V6426
- 66248 MUTUZKIN, L. I. Detection of cell clones in bone marrow of cattle suffering from leukemia. (Rus) Veterinaria 10:35-37. Ref. Oct.1967. 41.8 V6426
- 66249 NAKAMURA, J. Developments in rinderpest control. World Rev. Anim. Prod. 3(13,FAO spec.issue):61-65. 1967. 49 W89  
Use of viral vaccines.
- 66250 NAZERIAN, K., and others. Electron microscopy of virus-like particles found in bovine leukemia. Amer. J. Vet. Res. 29(2):387-395. Ref. Feb.1968. 41.8 Am3A  
R. M. Dutcher, E. P. Larkin, J. J. Tumilowicz, and C. P. Eusebio, joint authors.
- 66251 NELSON-REES, W. A., KNAZIEFF, A. J., and DARBY, N. B. Debut and accumulation of centric fusion products: an index to age of certain cell lines. Cytogenetics 6(6):436-450. Ref. 1967. 44.8 C992  
Cattle, sheep, goat, and dog.  
Includes tissue culture and chromosomes.
- 66252 NEWSAM, I. D. B., CLARK, B. L., and ST. GEORGE, T. D. Diagnosis of bovine vibriosis. 2-3. Australian Vet. J. 43(8):278-285. Ref. Aug.1967. 41.8 Au72  
Indirect hemagglutination test in testing sheep erythrocytes.
- 66253 NEWTON, L. G. Acaricide resistance and cattle tick control. Australian Vet. J. 43(9):389-394. Ref. Sept.1967. 41.8 Au72

- 66254 NICOLETTI, P. Utilization of the card test in brucellosis eradication. *Amer. Vet. Med. Ass. J.* 151(12):1778-1783. Ref. Dec.15,1967. 41.8 Am3  
A newer agglutination test for diagnosis in cattle and swine.
- 66255 NIELSEN, S. M., and MADSEN, P. S. Influence of lactation figure on milkability and relation between milkability and mastitis. (Da) Denmark. Statens Husdyrsudvalg Landokon. Forsogslab. Beretn. 358:24-33. 1967. 104 D41
- 66256 NYGARD, J. J., EGELAND, H., and EIELAND, E. A study of Staphylococci from cases of bovine mastitis in Norway. (No) Nord. Veterinaarmed. 20(1):18-25. Ref. Jan.1968. 41.8 N813  
English summary.
- 66257 OGER, Y. Foot-and-mouth vaccine, effective control method. (Fr) *Agr. Prat.* 131(9):25-26. Oct.1967. 14 J82  
For cattle.
- 66258 OLDS, D., and others. Observations on the size of bovine ova. *J. Dairy Sci.* 51(2):215-216. Feb.1968. 44.8 J822  
A. P. Graden, C. R. Mochow, and L. R. Mutter, joint authors.
- 66259 OTTE, E., CHANG, C. H., and HO, T. M. Anaplasmosis in Taiwan. I. Occurrence and extent. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 80(14):269-271. July 15,1967. 41.8 B45  
English summary.
- 66260 PAN'KO, I. S. Complications on pelvic extremities of animals, affected by foot-and-mouth disease. (Uk) *Visn. Sil's'kohospod. Nauk.* 1:109-111. Jan.1968. 20 V82  
Cattle.
- 66261 PARAU. An advance in the dairy industry: The new Institute for Physiology [Institut fur Physiologie] in Weiheinsteph. (Ge) *Molk.-Zeitung Welt Milch* 22(6):162-163. Feb.9,1968. 44.8 M735  
In the Suddeutsche Versuchs- und Forschungsanstalt fur Milchwirtschaft.
- 66262 PARKER, H. R. Relationship between the thyroid and adrenal glands of newborn dairy calves: histopathologic considerations. *Amer. J. Vet. Res.* 29(1):47-66. Ref. Jan.1968. 41.8 Am3A
- 66263 PARKER, W. H. Bronchitis in calves. *Great Brit. Min. Agr. Fish. Food. Agr.* 74(7):309-313. July 1967. 10 G79J  
Control.
- 66264 PATTABIRAMAN, S. R., VENKATASWAMI, V., and KRISHNAMOORTHY, R. Effects of pH and viscosity of oestrial mucus of cows on the physiology of spermatozoa. *Indian Vet. J.* 44(9):767-772. Ref. Sept.1967. 41.8 In2  
Cervix mucus.
- 66265 PATTERSON, D. S. P., and others. Normal variations in three plasma enzymes of the cow. *J. Comp. Pathol.* 77(4):425-429. Ref. Oct.1967. 41.8 J82  
W. M. Allen, S. Berrett, and C. N. Hebert, joint authors.  
Alanine aminotransferase, hexose monophosphate dehydrogenase, and malic dehydrogenase.
- 66266 PATTON, S., and KESLER, E. M. Presence and significance of phenyl-substituted fatty acids. *J. Dairy Sci.* 50(9):1505-1508. Sept. 1967. 44.8 J822  
Phenylacetic and 3-phenylpropionic acids. in rumen.
- 66267 POPE, L. S. Age at first calving and performance. In Cunha, T. J. Factors affecting calf crop, p.273-279. 1967. SF201.C8  
Of beef heifers.
- 66268 PRASAD, T., RAWAT, J. S., and ROY, A. Studies on the electrophoretic pattern of protein fractions of blood serum. *Indian J. Vet. Anim. Husb.* 37(3):181-186. Sept.1967. 41.8 In22  
Calves and their dams.
- 66269 QUARTERMAIN, A. R. Calves born without tails. *New Zeal. J. Agr.* 116(2):47,49. Feb. 1968. 23 N48J
- 66270 RAJ, V. B. S., and GANAPATHY, M. S. Studies on the toxicity of *Lochnera pusilla* K. Schum. *Indian Vet. J.* 44(10):871-876. Oct.1967. 41.8 In2  
To buffalo calves.
- 66271 RAMSEY, C. B., COLE, J. W., and SLIGER, R. L. Effect of age of beef females on carcass composition, meat characteristics, and palatability. *Tenn. Agr. Exp. Sta. Bull.* 420,25 p. Ref. June 1967. 100 T25S
- 66272 RAO, C. C. P., SHARMA, G. L., and SINGH, G. Serotyping of staphylococci of bovine mammary origin. *Indian Vet. J.* 44(9):731-738. Ref. Sept.1967. 41.8 In2  
Chiefly mastitis caused by *Staphylococcus aureus*.
- 66273 RAO, P. V. R., RAO, K. V. S., and DAS, C. G. Field trials on the treatment of monieziasis in buffalo calves. *Indian Vet. J.* 44(10):888-892. Oct.1967. 41.8 In2
- 66274 RATH, U. Unusual cases of uterine prolapse of cattle. (Ge) *Deut. Tierarztl. Wochenschr.* 74(14):367-368. July 15,1967. 41.8 D482
- 66275 RAVEN, E. T. Lameness in cattle and foot care; the Netherlands, 1966. (Du) *Tijdschr. Diergeneesk.* 92(14):925-938. July 15,1967. 41.8 T431  
English summary.
- 66276 ROBERTSON, J. M. Left displacement of the bovine abomasum: epizootiologic factors. *Amer. J. Vet. Res.* 29(2):421-434. Ref. Feb. 1968. 41.8 Am3A
- 66277 ROERINK, J. H. G. Development of a non-agglutigenic killed *Brucella abortus* adjuvant vaccine and its applicability in the control of bovine brucellosis. (Du) *Tijdschr. Diergeneesk.* 92(15):997-1005. Aug.1,1967. 41.8 T431  
English summary.
- 66278 ROMANS, J. R. Lipid mobilization in beef and rabbits as affected by marketing - induced stress or ACTH-induced stress. *Diss. Abstr.*, Sect. B, 28(6):2204B-2205B. Dec.1967. Z5055.U49D53
- 66279 ROOY, J. DE, JAARTSVELD, F. H. J., and BRANDSMA, S. The relation between adjustment of the milking machine, technique of milking, hygiene in milking and the occurrence of mastitis. (Du) *Tijdschr. Diergeneesk.* 93(3):141-152. Ref. Jan.1,1968. 41.8 T431  
English summary.
- 66280 ROSENBUSCH, R. F., and GRATZEK, J. B. Characteristics of a desiccated bovine serum: viral antibody levels and cell culture nutrition studies. *Amer. J. Vet. Res.* 29(2):435-443. Ref. Feb.1968. 41.8 Am3A
- 66281 RUBIN, R., and HIBLER, C. P. Therapeutic trials with Marentin in calves infected with Ostertagia and Cooperia. *Cornell Vet.* 57(3):337-343. July 1967. 41.8 C81  
Cooperia oncophora and punctata and Ostertagia ostertagi.
- 66282 RUFFER, H. Discussion contribution to foot-and-mouth disease problem from veterinarian point of view. (Ge) *Prakt. Tierarzt* 49(1):6. Jan.1,1968. 41.8 P882  
Control in cattle and swine.
- 66283 RUFFO, G. The passage into milk of INI administered to bovines. (Fr) *Int. Dairy Congr. [Proc.]* 17th Congr., Sect. A:449-451. Ref. 1966. SF223.I5 1966 v.1  
English summary, p.745.
- 66284 SALISBURY, R. M., and WILLIAMS, F. M. The effect on herd production of "free" electricity on a milking plant. *New Zeal. Vet. J.* 15(11):206-210. Nov.1967. 41.8 N483  
Mild electric shock from voltage changes and the effect on milk production.



- 66285 SANNE, S., and LINDELL, L. Kvigornas kalvingasalder [Calving age of heifers]. Uppsala. Lantbrukshogsk. Aktuellt Lantbrukshogsk. 103,44 p. Ref. 1967. 11 Up62A
- 66286 SATTAR, S. A., BOHL, E. H., and TRAPP, A. L. Abortion in cattle caused by experimental infection with infectious bovine rhinotracheitis virus. Cornell Vet. 57(3):438-454. Ref. July 1967. 41.8 C81
- 66287 SAVOV, A. Action of serotonin on the contractions of the bovine rumen and abomasum. (Bu) Vet. Med. Nauk. 4(3):59-65. Ref. 1967. 41.8 V6468  
English summary.
- 66288 SAVOV, N. Etiology and diagnosis of cow mastitis. (Bu) Vet. Med. Nauk. 4(3):21-30. Ref. 1967. 41.8 V6468  
English summary.
- 66289 SCHARNER, E., and SCHARNER, W. Impedance measurement of normal and pathologically lesioned milk. (Ge) Monatsh. Veterinarmed. 22(14):566-571. July 15, 1967. 41.8 M742  
English summary.
- 66290 SCHMID-LINDNER, A. Beitrage aus der Praxis zu Ursachen, Verlauf und Behandlung akuter Mastitiden [Contribution from the practice on causes, course and treatment of acute mastitis]. Munich. Univ. Tierarztl. Fak. [Inaug.-Diss.] 1967(46), 88 p. 41.2 M9222  
English summary.  
Bibliography, p.81-86.  
Cattle.
- 66291 SCHULTZ, L. H. What do we know about ketosis? Hoard's Dairymen 113(4):196-197. Feb. 25, 1968. 44.8 H65
- 66292 SCHULZ, G. Studies on the occurrence of Listeriae in raw milk. (Ge) Monatsh. Veterinarmed. 22(19):766-768. Ref. Oct. 1, 1967. 41.8 M742  
English summary.
- 66293 SEREN, E., VACIRCA, G., and AGOSTI, M. The abomasal dyspepsia of calves. (It) Nuova Vet. 43(4):317-323. Ref. July/Aug. 1967. 41.8 N922  
English summary.
- 66294 SIMONYI, E., and others. Experimental immunizations against the virus diarrhoea of cattle. I. The production and application of hyperimmune sera. (Hu) Magyar Allatorv. Lapja 22(10):436-439. Ref. Oct. 1967. 41.8 V644  
K. Bognar, J. Biro, and Z. Palatka, joint authors.  
English summary.
- 66295 SINGH, K. V., and others. The use of tissue culture rinderpest vaccine for Egyptian cattle and water buffaloes. Cornell Vet. 57(3):465-479. Ref. July 1967. 41.8 C81  
O. A. Osman, T. I. Baz, and I. F. El-Cicy, joint authors.
- 66296 SIPPEL, W. L. Blackleg in calves is in offing. Fla. Cattleman Livestock J. 32(4):88-89. Jan. 1968. 43.8 F66
- 66297 SMYTHE, V. R., GILLIES, A. J., and TUCKETT, D. An evaluation of the California mastitis test for abnormal milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:399-402. 1966. SF223.15 1966 v.1
- 66298 SOMPOLINSKY, D., ERNST-GELLER, Z., and SEGAL, S. Metabolic disorders in thiamineless dwarf strains of Staphylococcus aureus. J. Gen. Microbiol. 48(2):205-213. Ref. Aug. 1967. 44.8 J823  
The cause of bovine mastitis in Israel.
- 66299 STIFEL, F. B. Relationships between alfalfa leaf chloroplasts and bloat. Diss. Abstr., Sect. B, 28(4):1301B. Oct. 1967. Z5055.U49D53  
In cattle and sheep.
- 66300 STILES, D. A., and others. Bloat in cattle. XIII. Efficacy of molasses-salt blocks containing poloxalene in control of alfalfa bloat. J. Dairy Sci. 50(9):1437-1443. Sept. 1967. 44.8 J822  
E. E. Bartley, A. B. Erhart, R. M. Meyer, and F. W. Boren, joint authors.
- 66301 STOCKL, W., and ONDERSCHKEA, K. On the behavior of free amino acids in the blood of calves after use of whole milk replacers. (Ge) Z. Tierphysiol. Tierernahr. Futtermittelkunde 23(2):102-106. Nov. 1967. 389.78 Z3  
English summary.
- 66302 STRAUB, O. C., MATTHAEUS, W., and LORENZ, R. Diurnal changes in the white cell and serum protein picture in normal cattle and cattle with leucosis. (Ge) Zentralbl. Veterinarmed. Reihe B, 14(5):442-457. Ref. Aug. 1967. 41.8 Z52  
English summary.
- 66303 STULL, J. W., and others. Secretion of DDT by lactating cows fed thyroprotein. J. Dairy Sci. 51(1):56-59. Ref. Jan. 1968. 44.8 J822  
W. H. Brown, F. M. Whiting, L. M. Sullivan, M. Milbrath, and J. M. Witt, joint authors.
- 66304 SUD, S. C., TUCKER, H. A., and MEITES, J. Estrogen-progesterone requirements for udder development in ovariectomized heifers. J. Dairy Sci. 51(2):210-214. Feb. 1968. 44.8 J822
- 66305 TAMMEMAGI, L., and GRANT, K. M. Vaccination in the control of bovine botulism in Queensland. Australian Vet. J. 43(9):368-373. Sept. 1967. 41.8 Au72  
Includes discussion.
- 66306 THIEME, D., and HAASMAN, S. Experience obtained from direct milk smear in Streptococcus agalactiae mastitis diagnosis. (Ge) Monatsh. Veterinarmed. 22(14):579-583. Ref. July 15, 1967. 41.8 M742  
English summary.
- 66307 TINJAKOV, G., and CHUMAKOV, V. On the problem of the theory of milk fat formation. Int. Dairy Congr. [Proc.], 17th Congr., Sect. A: 133-136. 1966. SF223.15 1966 v.1
- 66308 TROSHIKHIN, A. V., OBDIRKIN, G. E., and TCHERNOV, G. I. Prophylaxis of traumatic reticulitis in cattle. (Rus) Veterinariya 9:81-82. Sept. 1967. 41.8 V6426
- 66309 ULENDEEV, A. I., and others. On experience of brucellosis control in cattle. (Rus) Veterinariya 9:55-57. Sept. 1967. 41.8 V6426  
A. G. Kakurina, Z. M. Kuyumdzhii, and A. S. Vladimirczev, joint authors.
- 66310 URMAS, P. Treatment of bovine and equine laminitis. (Fi) Suomen Elainlaakarilehti 74(1): 11-20. Ref. Jan. 1968. 41.8 F49  
English summary.
- 66311 VANCE, H. N. Clostridium perfringens as a pathogen of cattle: a literature review. Can. J. Comp. Med. Vet. Sci. 31(10):248-250. Ref. Oct. 1967. 41.8 C162
- 66312 VANCE, H. N. A survey of the alimentary tract of cattle for Clostridium perfringens. Can. J. Comp. Med. Vet. Sci. 31(10):260-264. Oct. 1967. 41.8 C162
- 66313 VELD, L. G. H. IN 'T, and others. Diethylstilbestrol (DES) in tissues and body fluids of veal calves. (Du) Tijdschr. Diergeneesk. 92(19):1272-1281. Oct. 1, 1967. 41.8 T431  
E. B. Jonkman-Van Den Broek, W. C. De Groot, and C. Laan, joint authors.  
English summary.
- 66314 VELLESTE, YU., and others. On cow mastitis. (Rus) Veterinariya 10:84-87. Oct. 1967. 41.8 V6426  
H. Raid, H. Sooman, E. H. Ridala, joint authors.
- 66315 VOS, M. P. M., and VOS, H. Estimation of the live weight of cattle from body measurements. (Du) Tijdschr. Diergeneesk. 92(16):1073-1081. Aug. 15, 1967. 41.8 T431  
English summary.

- 66316 WAGNER, A. Investigation on the usefulness of furazolidone in the dairy industry field. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:453-456. 1966. SF223.15 1966 v.1 English summary, p.749.  
Use in udder inflammations and importance in the milk industry.
- 66317 WEETH, H. J., and SPETH, C. F. Estimation of bovine plasma protein from refractive index. J. Anim. Sci. 27(1):146-149. Ref. Jan.1968. 49 J82
- 66318 WEINHOLD, E. Research into giant cell formation, cell phagocytosis and lymphocyte adsorption in the culture of white blood cells in cattle. (Ge) Berliner Munchener Tierarztl. Wochenschr. 81(3):43-45. Feb.1,1968. 41.8 B45 English summary.
- 66319 WHARTON, R. H. Acaricidal resistance and cattle tick control. Australian Vet. J. 43(9):394-399. Ref. Sept.1967. 41.8 Au72  
Includes discussion.
- 66320 WHITLOCK, R. Britain's great cattle plague. Can. Cattlemen 31(2):10-11,38. Feb.1968. 49 C16  
Foot-and-mouth disease and measures for its control.
- 66321 WHITTOW, G. C. Climatic effects on physiological functions. In Shaw, R. H., ed. Ground level climatology, p.233-246. Ref. 1967. QC981.S5  
Oxen.
- 66322 WILLEMART, J. P., GACONGNE, J. P., and BUSSI, G. The struggle for the control of septicemia in new-born calves. I. Experiments for the control of colibacillosis with vaccination. (Fr) Soc. Vet. Prat. France. Bull. Mens. 51(7):292-303. July 1967. 41.9 So12  
Includes discussion.
- 66323 WILLIAMS, W. F., JOHNSTON, J. O., and LAUTERBACH, M. Uterine luteolytic hormone effect on ovarian progesterone content. J. Dairy Sci. 50(9):1515-1516. Sept.1967. 44.8 J822
- 66324 WILLOUGHBY, R. A. Laryngeal obstruction due to lymphosarcoma. Can. Vet. J. 8(12):291-293. Dec.1967. 41.8 R3224  
In a cow.
- 66325 WILTBANK, J. N., and KASSON, C. W. Synchronization of estrus in cattle with an oral progestational agent and an injection of an estrogen. J. Anim. Sci. 27(1):113-116. Jan.1968. 49 J82  
16-alpha-17 dihydroxyprogesterone acetophenonide.
- 66326 WINTERBOURN, C. C., and BATT, R. D. Incorporation of [ $^{14}\text{C}$ ]palmitate into the lipids of bovine blood cells. Biochim. Biophys. Acta 152(2):255-265. Ref. Mar.4,1968. 381 B522
- 66327 WINTERBOURN, C. C., and BATT, R. D. Metabolism in vivo bovine erythrocyte lipids. Biochim. Biophys. Acta 152(2):412-414. Mar.4,1968. 381 B522
- 66328 WOOD, P. D. P. Algebraic model of the lactation curve in cattle. Nature 216(5111):164-165. Oct.14,1967. 472 N21
- 66329 WROBEL, K. H., and KUHNEL, W. Histological studies on the epithelium of the bovine cervix uteri. (Ge) Berliner Munchener Tierarztl. Wochenschr. 80(17):328-332. Ref. Sept.1,1967. 41.8 B45  
English summary.
- 66330 ZABLOZKY, V. T. The use of tissue culture in the study of theileriosis agent. (Rus) Veterinariya 9:66-69. Sept.1967. 41.8 V6426  
Theileria annulata.
- 66331 ZAGAEVSKY, I. Effect of some factors on the contamination of milk by microorganisms in the cow's udder. Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:379-382. 1966. SF223.15 1966 v.1
- 66332 ZAKHRIALOV, J. N., SAVINKOVA, L. N., and GORODOVICH, N. M. Ante-mortem diagnosis of mecistocirrhosis. (Rus) Veterinariya 9:70-71. Sept.1967. 41.8 V6426  
The stomach worm, Mecistocirrus digitatus, in cattle.
- 66333 ZIMBELMAN, R. G. Hormone control of estrous cycle. In Cunha, T. J. Factors affecting calf crop, p.285-298. 1967. SF201.C8  
Chiefly use of Repromix (MAP).
- 66334 JOHNSTON, J. E. Physiological responses of cattle to tropical environment. In Turk, K. L., and Crowder, L. V., ed. Rural development in tropical Latin America, p.333-349. Ref., p.347-349. 1967. HD1857.T8
- Miscellaneous
- 66335 ALLAIRE, F. R. Selective value of milk yield among dairy cows. J. Anim. Sci. 27(1):22-26. Jan.1968. 49 J82
- 66336 BARABANSCHIKOV, N. V. The change of the quantity and properties of proteins in cow milk during lactation. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 12:53-57. 1967. 20 V633  
English summary.
- 66337 BONSMAS, J. C. Judging for functional efficiency. In Cunha, T. J. Factors affecting calf crop, p.197-231. 1967. SF201.C8  
Includes body conformation.
- 66338 BRATANOV, K., and DANOV, D. Prolonging productive period of cows. (Bu) Zhivotnovodstvo 21(8):3-7. Aug.1967. 49 Z62
- 66339 BURTON, G. L. The fascination of raising cattle. Can. Cattlemen 31(3):9,46,48. Mar.1968. 49 C16
- 66340 BUSCH, D. A., and others. Predicting edible portion of beef carcasses from rib separation data. J. Anim. Sci. 27(2):351-354. Mar.1968. 49 J82  
C. A. Dinkel, D. E. Schafer, H. J. Tuma, and B. C. Breidenstein, joint authors.
- 66341 CLARK, C. H. Lactation patterns due to some aspects of cattle management. Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:179-183. 1966. SF223.15 1966 v.1
- 66342 COCKRILL, W. R. Meat and milk production from the domestic buffalo, Bubalus bubalis. World Rev. Anim. Prod. 3(13,FAO spec.issue):98-107. 1967. 49 W89
- 66343 CONNELL, J., DODD, F. H., and RAINGILL, G. S. Freeze branding. Great Brit. Min. Agr. Fish. Food. Agr. 74(12):570-573. Dec.1967. 10 G79J  
Dairy cattle.
- 66344 CUNHA, T. J., WARNICK, A. C., and KOGER, M., eds. Factors affecting calf crop. Gainesville, University of Florida Press, 1967. 376 p. SF201.C8  
Reports presented at the Beef Cattle Short Course on Factors Affecting the Calf Crop, University of Florida, 1965.  
Bibliography, p.369-376.
- 66345 CZAKO, J. Some seasonal problems of calf rearing. (Hu) Magyar Mezogazdasag 22(51):16-17. Dec.20,1967. 19 M27
- 66346 DAVIDOV, R. Seasonal effect on chemical composition of milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:245-248. Ref. 1966. SF223.15 1966 v.1
- 66347 DICKINSON, F. N. The element of surprise in Dairy Herd Improvement Association testing. J. Dairy Sci. 51(1):90-95. Jan.1968. 44.8 J822
- 66348 DIMICK, P. S., and HARNER, J. L. Effect of environmental factors on lactone potential in bovine milk fat. J. Dairy Sci. 51(1):22-27. Ref. Jan.1968. 44.8 J822  
Seasonal, feeding, and breeding variations.
- 66349 EDWARDS, R. A. Maintaining the total solids content of milk. Scot. Agr. 47(1):11-13. Winter 1967/68. 10 Sco82So



- 66350 EVERETT, R. W., CARTER, H. W., and BURKE, J. D. Evaluation of the Dairy Herd Improvement Association record system. *J. Dairy Sci.* 51(1):153-162. Jan.1968. 44.8 J822
- 66351 ĒWBANK, R. Behavior of twin cattle. *J. Dairy Sci.* 50(9):1510-1512. Sept.1967. 44.8 J822
- 66352 GIVENS, R. L., and others. Influence of feedlot pen design and winter shelter on beef cattle performance. *Calif. Agr.* 22(2):6-7. Feb.1968. 100 C12Cag  
S. R. Morrison, W. N. Garrett, and W. B. Hight, joint authors.
- 66353 GREAT BRITAIN. MINISTRY OF AGRICULTURE, FISHERIES AND FOOD. Intensifying dairy heifer rearing. *Great Brit. Min. Agr. Fish. Food. Agr.* 74(12):563-566. Dec.1967. 10 G79J
- 66354 GRIGORYAN, G. S. Change of lysozyme titrants in cow milk, as related to lactation period. (Rus) *Moloch. Prom.* 1:21. Dec.1968. 44.8 M734
- 66355 HANSEN, H. E., and others. Milking with and without hand stripping: the influence on milk yield, udder health, and labour economy. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. A: 123-128. Ref. 1966. SF223.15 1966 v.1  
A. Neimann-Sorensen, N. O. Klastrup and P. S. Madsen, joint authors.
- 66356 HANSON, M. The effect of extreme cold on feedlot cattle. *Can. Cattleman* 31(2):23. Feb. 1968. 49 C16
- 66357 HARTWIG, H. Changes in fat content of raw milk and their causes. (Ge) *Unser Milchvieh* 20(2):6-8. Feb.1968. 43.8 Un7
- 66358 HEENEY, M. W., and others. Performance testing. *Colo. Farm Home Res.* 18(2):12. Jan./Mar.1968. 100 C712Co  
W. R. Culbertson, P. S. Pattengale, J. K. Matsushima, H. H. Stonaker, and J. S. Brinks, joint authors.
- 66359 HOOVEN, N. W. Freeze branding for animal identification. *J. Dairy Sci.* 51(1):146-152. Ref. Jan.1968. 44.8 J822  
Cattle.
- 66360 HRDINA, F. C. Effect of season of year and month of lactation on the production of S.N.F. [solids-not-fat] (%), B.F. [butterfat] and dairy milk (lb) of dairy cattle in N.S.W. research units. *Agr. Gaz. New S. Wales* 79(1):53-59. Jan.1968. 23 N472
- 66361 HRDINA, F. C. The repeatability of records for percentage solids-non-fat (SNF), percentage butterfat (BF), and daily milk production for dairy cattle in the milk zone of New South Wales. *Agr. Gaz. New S. Wales* 79(2):113-114. Feb.1968. 23 N472
- 66362 IOWA. STATE UNIVERSITY OF SCIENCE AND TECHNOLOGY. COOPERATIVE EXTENSION SERV. Iowa Dairy Herd Improvement Associations annual summary, May 1966-April 1967, by D. E. Voelker, H. H. Van Horn, R. E. Whitmore, and B. R. Eastwood. Ames, 1968. 49 p., map. 275.29 Io9I
- 66363 KHURODY, D. N. Milk colonies. *World Rev. Anim. Prod.* 3(13,FAO spec.issue):46-53, map. 1967. 49 W89  
Chiefly herds of cattle and buffaloes in India.
- 66364 KIRCHMEIER, O. Stochiometric composition of casein in relation breed, site, and season. (Ge) *Z. Lebensmittel-Untersuchung -Forsch.* 135(4):181-192. Ref. 1967. 384 Z39
- 66365 KISS, P. Importance of the priority of cattle of various kinds from the point of view of the meat supply of the consumers. (Hu) *Elelmezsi Ipar* 21(7):212-218. Ref. July 1967. 290.9 M57  
English summary.
- 66366 KRATZER, D. D., and others. Important sources of variation in milk flavor. *J. Dairy Sci.* 50(9):1384-1389. Ref. Sept.1967. 44.8 J822  
C. F. Foreman, A. E. Freeman, E. W. Bird, W. S. Rosenberger, and F. E. Nelson, joint authors.  
Environmental and genetic sources, including lactation stage and season.
- 66367 KUROWSKI, H. Influence of non-genetic and hereditary factors upon milk yield and composition during the first lactation of cows maintained under standard conditions. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. A:253-258. Ref. 1966. SF223.15 1966 v.1  
Effect of season and time of calving.
- 66368 LIANG, L., and FOSGATE, O. T. Four type components related to milk production. *Ga. Agr. Res.* 9(3):7,14-15. Ref. Winter 1968. 100 G295
- 66369 MCNAB, A. P. Persistency of lactation and fluctuations in milk production in a sub tropical area. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. A:149-159. Ref. 1966. SF223.15 1966 v.1  
Southern Rhodesia and Zambia.
- 66370 MENAPACE, G. Problems in raising cattle; points of interest. (It) *Ital. Agr.* 104(9/10): 1005-1018. Sept./Oct.1967. 16 It1
- 66371 MILLER, R. H., MCDANIEL, B. T., and PLOWMAN, R. D. Effects of errors in the age adjustment of first lactations. *J. Dairy Sci.* 51(3): 378-384. Ref. Mar.1968. 44.8 J822
- 66372 NIBLER, C. W. What production curves tell the dairyman. *Hoard's Dairyman* 113(4):236-237. Feb.25,1968. 44.8 H65
- 66373 NIKI, T., and others. Studies on the composition of colostral milk lipid in Japan. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. A:269-280. 1966. SF223.15 1966 v.1  
E. Furuichi, Y. Amano, and K. Saito, joint authors.
- 66374 NILSSON, R. Seasonal and regional variations in the content of high-melting triglycerides in Swedish butter. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. C:179-184, map. 1966. SF223.15 1966 v.3
- 66375 PELISSIER, C. L. Why are California herds so large? *Hoard's Dairyman* 113(5):267,321. Mar.10,1968. 44.8 H65
- 66376 POULSEN, P. R., and JENSEN, G. K. Observations of the liability of cows to yield milk that spontaneously develops oxidized flavour. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. A: 229-237. 1966. SF223.15 1966 v.1
- 66377 PROCE, J. M. DE. The conditions of milk production in the United States and Canada. (Fr) *Rev. Elevage* 23(1):41-42. Jan.1968. 49 B462
- 66378 SARGENT, F. D., LYTTON, V. H., and WALL, O. G. Test interval method of calculating Dairy Herd Improvement Association records. *J. Dairy Sci.* 51(1):170-179. Jan.1968. 44.8 J822
- 66379 SCHMITTEN, F., and KLUSSEERATH, D. Experiments for milkability determination by supersonic vibration measurement. (Ge) *Tierzucht* 20(2):34-35. Jan.20,1968. 49 T445
- 66380 SEBELA, F. Differences in composition of the main nitrogenous substances of cow's milk in the first and second half of lactation. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. A:263-267. 1966. SF223.15 1966 v.1
- 66381 SMITH, J. W., and PLOWMAN, R. D. Accuracy and precision required in measuring devices used in Dairy Herd Improvement Association recording. *J. Dairy Sci.* 51(1):162-168. Jan. 1968. 44.8 J822
- 66382 SYMPOSIUM ON DAIRY RECORDS. [Papers]. *J. Dairy Sci.* 51(1):143-179. Jan.1968. 44.8 J822

- 66383 SZANIEL, I. Cattle raising in cooperative and household farms in the mountain region. (Hu) Magyar Mezőgazdaság 23(8):15-16. Feb.21, 1968. 19 M27
- 66384 SZANIEL, I. Organization of cattle breeding. (Hu) Magyar Mezőgazdaság 23(12):15-16, map. Mar.20, 1968. 19 M27  
Farm management.
- 66385 TAYLOR, M. M. Factors influencing the incidence of psychrophilic organisms in milk held at low temperatures. Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:329-332. 1966. SF223.15 1966 v.1  
Tests to determine the effect of udder cleaning methods on bacteria in milk.
- 66386 UDVARI, L. The effect of macro- and micro-climatic factors on the milk production of cows. (Hu) Agrartud. Kozlem. 26(3/4):391-396. 1967. 19 B855
- 66387 VOELKER, D. E. Uniform enforcement of Dairy Herd Improvement Association rules. J. Dairy Sci. 51(1):168-170. Jan.1968. 44.8 J822
- 66389 WALLACE, G. M. Prediction of protein production based on a restricted frequency of sampling. Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:37-42. 1966. SF223.15 1966 v.1  
Herd testing.
- 66389 WENIGER, J. H., and ENGELKE, F. Principles and experiences in beef cattle rearing. I. (Ge) Tierzuechter 20(3):66-68. Feb.5, 1968. 49 T445
- 66390 WHITTLESTONE, W. G. Effects of milking machines on the quality of milk. J. Milk Food Technol. 31(3):74-77. Mar.1968. 44.8 J824
- 66391 WILLIAMS, A. L. The cattle industry in San Benito County. Calif. Cattleman 51(1):6-8, 10, 12. Jan.1968. 43.8 C12
- 66392 ZDRAVKOV, G., ALEKSIEV, A., and VANKOV, K. Milk production of cattle in dependance on seasonal changes in weather. (Bu) Zhivotnovudstvo 21(9/10):38-41. 1967. 49 Z62

## DOGS AND CATS

### Breeds and Breeding

- 66393 ASSOCIATION OF MASTERS OF HARRIERS AND BEAGLES. Kennel stud book, 1967. Sheffield, 1967. 51 p. 48.9 As7
- 66394 KENNEL CLUB. The Kennel Club stud book for the year 1966. Vol. XCIV. London, 1967. 648 p. 48.9 K39
- 66395 LOVEKIN, L. G., and BELLHORN, R. W. Clinicopathologic changes in primary glaucoma in the Cocker Spaniel. Amer. J. Vet. Res. 29(2): 379-385. Feb.1968. 41.8 Am3A
- 66396 OETTEL, M., and SEFFNER, W. Contribution to dwarfism of German Shepherds. (Ge) Kleintier-Praxis 12(8):218-221. Ref. Dec.1967. 41.8 K67
- 66397 YAKELY, W. L., and others. Genetic transmission of an ocular fundus anomaly in Collies. Amer. Vet. Med. Ass. J. 152(5):457-461. Mar.1, 1968. 41.8 Am3  
M. Wyman, E. F. Donovan, and N. S. Fecheimer, joint authors.
- 66398 ZALDIVAR, R. Incidence of spontaneous diseases in a Beagle colony. Amer. Vet. Med. Ass. J. 151(9):1186-1189. Nov.1, 1967. 41.8 Am3
- 66399 ZALDIVAR, R. Incidence of spontaneous neoplasms in Beagles. Amer. Vet. Med. Ass. J. 151(10):1319-1321. Nov.15, 1967. 41.8 Am3

### Feeds and Feeding

- 66400 BOULCOTT, S. R. The feeding behaviour of adult dogs under conditions of hospitalization. Brit. Vet. J. 123(11):498-506. Ref. Nov.1967. 41.8 V643
- 66401 SPIEGEL, L. S. The pet food revolution. Vet. Econ. 8(11):23-25. Nov.1967. 41.8 V6458  
Especially for dogs.

## Veterinary Medicine

- 66402 AHE, C. VON DER. Larval echinococcosis in domestic cat. (Ge) Z. Tropenmed. Parasitol. 18(3):369-375. Ref. Oct.1967. 44.8 Z37  
English summary.
- 66403 ALBERT, H. Observations on keratitis pannosa of dog. (Ge) Prakt. Tierarzt 48(12):549-550. Dec.1, 1967. 41.8 P882
- 66404 AMMANN, K. Changes in the area of scleral conjunctiva of dog. (Ge) Kleintier-Praxis 12(5):122-126. Ref. July 1967. 41.8 K67  
In relation to melanosisarcoma.
- 66405 ANDERSON, L. J. Experimental reproduction of canine interstitial nephritis. J. Comp. Pathol. 77(4):413-418. Ref. Oct.1967. 41.8 J82
- 66406 ANIMAL HEALTH TRUST (GREAT BRITAIN). SMALL ANIMALS CENTRE (KENNET). Tropical canine pancytopenia (Singapore haemorrhagic syndrome). Anim. Health 6:12-15. Nov. 1967. 41.8 An52  
Leukopenia.
- 66407 APPEL, M. J. G., and JONES, O. R. Use of alveolar macrophages for cultivation of canine distemper virus. Soc. Exp. Biol. Med. Proc. 126(2):571-574. Ref. Nov.1967. 44.9 S01
- 66409 BALCONI, I. R., BRAHAM, J. E., and BRESANI, R. Changes in the nitrogen balance and serum proteins during an attack of distemper and coccidiosis in the dog. Cornell Vet. 57(3): 429-438. Ref. July 1967. 41.8 C81
- 66409 BALLARINI, G. Contribution of endoscopic laparography in the diagnosis of atrophic cirrhosis of liver in the dog. (It) Nuova Vet. 43 (5):535-545. Ref. Sept./Oct.1967. 41.8 N922  
English summary.
- 66410 BENJAMIN, S. A., and NORONHA, F. Cytogenetic studies in canine lymphosarcoma. Cornell Vet. 57(4):526-542. Ref. Oct.1967. 41.8 C81
- 66411 BENNETT, P. B., PAPAHAJDOPOULOS, D., and BANGHAM, A. D. The effect of raised pressure of inert gases on phospholipid membranes. Life Sci. 6(23,pt.1):2527-2533. Dec.1, 1967. 44.2.8 L62  
Cats.
- 66412 BOHN, F. K. A case of abnormal heart findings in connection with hyperthyreosis in dog. (Ge) Kleintier-Praxis 12(8):228-235. Ref. Dec.1967. 41.8 K67
- 66413 BORDET, R., BOVIN, R., and SEVESTRE, J. The technique of narconeuroleptanalgesia applied in dog surgery. (Fr) Acad. Vet. France. Bull. 143(12):1213-1223. Dec.1967. 41.8 R24  
English summary.
- 66414 BRADNEY, I. W. Removal of the head and neck of the femur in the dog. Australian Vet. J. 43 (12):590-591. Dec.1967. 41.8 Au72
- 66415 BRODEY, R. S., and ROSZEL, J. F. Neoplasms of the canine uterus, vagina, and vulva: a clinicopathologic survey of 90 cases. Amer. Vet. Med. Ass. J. 151(10):1294-1307. Ref. Nov.15, 1967. 41.8 Am3
- 66416 BRUNNER, F. Experiences in the administration of "Protex Plus" in the therapy and prophylaxis of distemper, canine infectious hepatitis and leptospirosis. (Ge) Wien Tierarztl. Monatsschr. 54(11):754-755. Nov.1967. 41.8 T345  
A dog gamma-globulin concentrate.
- 66417 CALVARI, A. R., and COLOMBO, G. The technique of hysterothoracotomy in the dog. (It) Veterinaria [Milano] 16(6):408-416. Nov./Dec.1967. 41.8 V6499  
English summary.
- 66418 CAPEN, C. C., and KOESTNER, A. Functional chromophobe adenomas of the canine adenohypophysis; an ultrastructural evaluation of a neoplasm of pituitary corticotrophs. Pathol. Vet. 4(4):326-347. Ref. 1967. 41.8 P27  
Use of electron microscopy.
- 66419 CAPEN, C. C., MARTIN, S. L., and KOESTNER, A. Neoplasms in the adenohypophysis of dogs; a clinical and pathologic study. Pathol. Vet. 4(4):301-325. Ref. 1967. 41.8 P27



- 66420 CLARK, D. R., and others. Tetralogy of Fallot in the dog. *Amer. Vet. Med. Ass. J.* 152(5): 462-471. Ref. Mar.1,1968. 41.8 Am3  
J. N. Ross, R. L. Hamlin, and C. R. Smith, joint authors.
- 66421 CLIFFORD, D. H., and others. Esophagomyotomy (Heller's) for relief of esophageal achalasia in three dogs. *Amer. Vet. Med. Ass. J.* 151(9):1190-1201. Ref. Nov.1,1967. 41.8 Am3  
C. F. Wilson, E. D. Waddell, and H. G. Thompson, joint authors.
- 66422 COOPER, P. H. A study of the kinetics of bone marrow regeneration in the dog following partial and whole body irradiation. *Diss. Abstr.*, Sect. B, 28(3):1130B-1131B. Sept. 1967. Z5055.U49D53
- 66423 CRIGHTON, G. W. Clinical aspects of Lymphosarcoma in the cat. *Vet. Rec.* 82(5):122-126. Ref. Feb.3,1968. 41.8 V641
- 66424 DAMMRICH, K., and LETTOW, E. Adenocarcinoma of the cervix in a bitch. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 81(3):51-54. Ref. Feb.1,1968. 41.8 B45  
English summary.
- 66425 DAVENPORT, H. W., REHM, W. S., and OVERHOLT, B. F. Absorption through unstimulated and secreting canine oxyntic glandular mucosa. *Soc. Exp. Biol. Med. Proc.* 126(3):841-844. Ref. Dec.1967. 442.9 Sol  
Gastric mucosa.
- 66426 DAVENPORT, H. W. Ethanol damage to canine oxyntic glandular mucosa. *Soc. Exp. Biol. Med. Proc.* 126(3):657-662. Ref. Dec.1967. 442.9 Sol  
Gastric mucosa.
- 66427 DIMIC, J. M. Contribution to the problem of reactions of the eye of the dog on experimentally introduced aseptic foreign body in the front eye chamber. (Ge) *Kleintier-Praxis* 12(8):213-217. Ref. Dec.1967. 41.8 K67
- 66428 DISQUE, D. F., CASE, M. T., and YOUNGREN, J. A. Feline infectious peritonitis. *Amer. Vet. Med. Ass. J.* 152(4):372-375. Feb.15,1968. 41.8 Am3
- 66429 DONAT, K., PREUSS, F., and MULLER, W. The so-called musculus brachiocephalicus in cats and dog. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 80(24):477-479. Ref. Dec.15,1967. 41.8 B45  
English summary.
- 66430 DOWNEY, R. S. An unusual cause of tetraplegia in a dog. *Can. Vet. J.* 8(9):216-217. Sept. 1967. 41.8 R3224  
As a result of trauma.
- 66431 DRISCOLL, P. A. Intracranial neoplasm in a dog alters behavior. *Amer. Vet. Med. Ass. J.* 151(10):1324. Nov.15,1967. 41.8 Am3
- 66432 ELLIOTT, L. P. Development of selenite egg yolk agar. *Can. J. Microbiol.* 14(3):287-290. Ref. Mar.1968. 448.8 C162  
Studies of *Staphylococcus* cultures from cows.
- 66433 EMERY, J. B., and others. A tissue-culture, modified live-virus rabies vaccine for dogs: report on development and clinical trial. *Amer. Vet. Med. Ass. J.* 152(5):476-482. Ref. Mar.1,1968. 41.8 Am3  
A. Y. Elliott, D. E. Bordt, G. R. Burch, and E. E. Kugel, joint authors.
- 66434 FARRELL, R. K., DEE, J. F., and OTT, R. L. Salmon poisoning in a dog fed kippered salmon. *Amer. Vet. Med. Ass. J.* 152(4):370-371. Feb.15,1968. 41.8 Am3
- 66435 FELLEBAUM, S., and JONAS, S. Bilateral fractures of the radius and ulna of a dog repaired with Jonas splints. *Amer. Vet. Med. Ass. J.* 152(4):365-369. Feb.15,1968. 41.8 Am3
- 66436 FISHER, L. E. Pet care in the next decade. *Vet. Econ.* 8(11):21-22. Nov.1967. 41.8 V6458  
Veterinary care; includes dogs and cats.
- 66437 FLAGSTAD, A. Panleukopenia—pneumonitis—rhinotracheitis of cat. (Da) *Danske Dyrlaegerfor. Medlemsbl.* 51(1):14-19. Ref. Jan.1,1968. 41.9 D23
- 66438 FREUDIGER, U. Etiology and pathogenesis of nephritis of dog (literature survey report). (Ge) *Kleintier-Praxis* 12(5):131-134. July 1967. 41.8 K67
- 66439 FRYE, F. L. Acute Cannabis [sativa] intoxication in a pup. *Amer. Vet. Med. Ass. J.* 152(5):472. Mar.1,1968. 41.8 Am3
- 66440 GAGE, E. D., and HOERLEIN, B. F. Hemilaminectomy and dorsal laminectomy for relieving compressions of the spinal cord in the dog. *Amer. Vet. Med. Ass. J.* 152(4):351-359. Feb.15,1968. 41.8 Am3
- 66441 GARDNER, D. E. 'Skélétal myonecrosis' in a cat. *New Zeal. Vet. J.* 15(11):211-213. Nov. 1967. 41.8 N483
- 66442 GAUKER, F. B., and BUROKER, R. A. Effectiveness of four Virogen products against challenge with canine distemper virus. *Pract. Vet.* 1:24-26. Jan./Feb.1968. 41.8 AL5  
Vaccines.
- 66443 GORDON, R. N. The clinical management of diabetes mellitus in dogs and cats. *Australian Vet. J.* 43(12):568-574. Ref. Dec.1967. 41.8 Au72
- 66444 GUILHON, J., and others. The effects of bunamidine hydrochloride on immature stages of *Echinococcus granulosus*. (Fr) *Acad. Vet. France. Bull.* 40(7):327-331. July 1967. 41.9 R24  
T. Simic, Z. Savin, and A. Bordjoski, joint authors.  
In the dog.
- 66445 GUILLON, J. C., CARSANTIER G., and GROLADE, P. Certain observations on the calcinosis circumscripta of the dog. (Fr) *Rec. Med. Vet.* 164(1):29-41. Ref. Jan.1968. 41.8 R24  
English summary.
- 66446 HAAGSMA, J., and RONDHUIS, P. R. Morbus Aujeszkyi in cats. (Du) *Tijdschr. Diergeneesk.* 92(19):1245-1249. Oct.1,1967. 41.8 T431  
English summary.
- 66447 HAHNFELDT, K. Experience with Placenta-Serol in otitis externa of dog. (Ge) *Kleintier-Praxis* 12(8):241-242. Dec.1967. 41.8 K67
- 66448 HAMILTON, J. M. Studies on re-infestation of the cat with *Aelurostrongylus abstrusus*. *J. Comp. Pathol.* 78(1):69-72. Ref. Jan.1968. 41.8 J82  
Lungworm infection.
- 66449 HAMLIN, R. L., GINAVEN, S. M., and SMITH, C. R. Fentanyl citrate-droperidol and pentobarbital for intravenous anesthesia in dogs. *Amer. Vet. Med. Ass. J.* 152(4):360-364. Feb.15,1968. 41.8 Am3
- 66450 HANSEN, N. H. Spaying of female cats. (Da) *Danske Dyrlaegerfor. Medlemsbl.* 50(14):615-616. July 15,1967. 41.9 D23
- 66451 HAPKE, H. J. Long-action circulatory agents. (Ge) *Kleintier-Praxis* 12(5):140-145. July 1967. 41.8 K67  
Sympathomimetics for dogs and cats.
- 66452 HAPKE, H. J., and VOLKER, R. System-action of Dextromoramide (Jetrium, Palfium) in dogs. (Ge) *Kleintier-Praxis* 12(5):134-140. Ref. July 1967. 41.8 K67
- 66453 HARTUNG, K., and CLAUSS, W. First experiments with roentgen radiation of chronic joint inflammations in dogs. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 80(15):295-297. Aug.1,1967. 41.8 B45  
English summary.
- 66454 HEDWALL, P. R., and DIETRICH, F. M. Production of antibodies against synthetic angiotensin II in various animal species. *Experientia* 23(11):952-953. Nov.15,1967. 475 Ex7  
In dogs and cats.
- 66455 HENDERSON, J. W. Diagnosis, treatment, and preventive therapy for heartworms. *Amer. Vet. Med. Ass. J.* 151(12):1737-1739. Dec.15, 1967. 41.8 Am3  
In dogs.

- 66456 HERIN, R. A. Electroanesthesia in the dog: comparative study of electric wave forms. *Amer. J. Vet. Res.* 39(3):601-607. Mar.1968. 41.8 Am3A
- 66457 HERIN, R. A., PURINTON, P. T., and FLETCHER, T. F. Electroencephalography in the unanesthetized dog. *Amer. J. Vet. Res.* 29(2):329-336. Ref. Feb.1968. 41.8 Am3A
- 66459 HINTERMANN, J. Dermatitis of a bitch caused by *Heracleum montegazzianum* Somm. et Levier. (Fr) *Schweiz. Arch. Tierheilk.* 109 (12):644-656. Dec.1967. 41.8 Sch9  
English summary.
- 66459 HOUSTON, M. L. Early development of the nervous system in the dog. *Diss. Abstr.*, Sect. B, 28(5):1767B-1768B. Nov.1967. Z5055.U49D53
- 66460 HOWARD, E. B. Immunologic defect in mastocytoma-bearing dogs. *Amer. Vet. Med. Ass. J.* 151(10):1308-1310. Nov.15,1967. 41.8 Am3  
Use of *Brucella abortus* (strain 19) vaccine.
- 66461 HOWARD, E. B., and KENYON, A. J. Malignant osteoclastoma (giant cell tumor) in the cat with associated mast-cell response. *Cornell Vet.* 57 (3):398-409. Ref. July 1967. 41.8 C81
- 66462 HUISMAN, G. H. Cardiac output in the dog. (Du) *Tijdschr. Diergeneesk.* 92(14):939-948. July 15,1967. 41.8 T431  
English summary.
- 66463 ISHMAEL, J., and HOWELL, J. M. Lesions in the follicular arteries of the spleen of the dog. *J. Comp. Pathol.* 78(1):53-58. Ref. Jan.1968. 41.8 J82  
Affected with diabetes mellitus.
- 66464 ISHMAEL, J., and HOWELL, J. M. Neoplasia of the spleen of the dog with a note on nodular hyperplasia. *J. Comp. Pathol.* 78(1):59-67. Ref. Jan.1968. 41.8 J82
- 66465 ISHMAEL, J., and HOWELL, J. M. C. Observations on the pathology of the spleen of the cat. *J. Small Anim. Pract.* 9(1):7-13. Ref. Jan. 1968. 41.8 J8292
- 66466 IWABUCHI, T. General sweating on the hairy skin of the dog and its mechanisms. *J. Invest. Dermatol.* 49(1):61-70. Ref. July 1967. 44.8 J8292
- 66467 JENNINGS, P. B., ANDERSON, R. W., and MARTIN, A. M. Central venous pressure monitoring: a guide to blood volume replacement in the dog. *Amer. Vet. Med. Ass. J.* 151(10):1283-1293. Ref. Nov.15,1967. 41.8 Am3
- 66468 JONES, L. M., and others. Taxonomic position in the genus *Brucella* of the causative agent of canine abortion. *J. Bacteriol.* 95(2):625-630. Ref. Feb.1968. 44.8 J82  
M. Zanardi, D. Leong, and J. B. Wilson, joint authors.
- 66469 KARBE, E., and SCHIEFER, B. Primary salivary gland tumors in carnivores. *Can. Vet. J.* 8(9):212-215. Sept.1967. 41.8 R3224  
In dogs.
- 66470 KISS, M., and KOMAR, GY. Pelger-Huet nuclear anomaly in leucocytes in a dog. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 80(24):474-476. Ref. Dec.15,1967. 41.8 B45  
English summary.
- 66471 KLEMM, W. R. Electroencephalograms of anesthetized dogs and cats with neurologic diseases. *Amer. J. Vet. Res.* 29(2):337-351. Feb. 1968. 41.8 Am3A
- 66472 KNECHT, C. D. Clinical neurologic examination of the dog. *Ill. Vet.* 11(1):2-4. 1968. 41.8 IL62
- 66473 KOMAR, G., and SCHUSTER, A. A rare ophthalmological picture of disease (exophthalmus pulsans) in a dog. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 80(18):359-360. Sept.15,1967. 41.8 B45  
English summary.
- 66474 KUTZER, E., and BURTSCHER, H. Rare endoparasites of native dogs and cats. I. *Spirocerca lupi*. (Ge) *Wien. Tierarztl. Monatsschr.* 54(8):542-546. Ref. Aug.1967. 41.8 T345
- 66475 LINDQUIST, W. D. The presence of *Dracunculus insignis* in a Michigan dog. *MSU Vet.* 28(1):16-18. Ref. Fall 1967. 41.8 M582
- 66476 MACCHIAVELLI, F., and GIORDANI, L. Contribution to the application of the peritoneal dialysis in canine therapy. (It) *Nuova Vet.* 43 (4):422-428. July/Aug.1967. 41.8 N922  
English summary.  
Valuable to renal insufficiencies.
- 66477 MAHRT, J. L. Endogenous stages of the life cycle of *Isospora rivolta* in the dog. *J. Protozool.* 14(4):754-759. Ref. Nov.1967. 43.8 J82
- 66478 MANTOVANI, A. Research on the infestation by *Dirofilaria repens* Railliet et Henry, 1911. (It) *Nuova Vet.* 43(4):412-421. Ref. July/Aug. 1967. 41.8 N922  
English summary.  
In dogs and cats.
- 66479 MANZIANO, C. F., and MANZIANO, J. R. A bladder prosthesis to relieve urethral blockage in the male cat. *Amer. Vet. Med. Ass. J.* 151(2):218-222. Ref. July 15,1967. 41.8 Am3
- 66480 MCCOY, E. J. Studies of electrical activity in the small intestine of the dog. *Diss. Abstr.*, Sect. B, 28(3):1141B. Sept.1967. Z5055.U49D53
- 66481 MILLS, J. H. L., and HIRTH, R. S. Lesions caused by the hepatic trematode, *Metorchis conjunctus*, Cobbold, 1860; a comparative study in *Carnivora*. *J. Small Anim. Pract.* 9(1):1-6. Ref. Jan.1968. 41.8 J8292  
Includes dogs and cats.
- 66482 MONTI, F. The ophthalmoscopic examination of the eye-ground in the dog. (It) *Nuova Vet.* 43(4):262-279. Ref. July/Aug.1967. 41.8 N922  
English summary.
- 66483 MUDALIAR, A. S. R., and HUSSAIN, M. M. Puerperal tetany in a bitch. *Indian Vet. J.* 44 (9):804-805. Sept.1967. 41.8 In2  
A condition chiefly associated with hypocalcemia; includes treatment with calcium gluconate.
- 66484 MULLINK, J. W. M. A., and FERON, V. J. Infraglomerular epithelial reflux as a postmortem phenomenon in the kidneys of dog and rat. *Pathol. Vet.* 4(4):366-377. Ref. 1967. 41.8 P27
- 66485 NICULESCU, A., and others. Intestinal helminths of carnivora of Bucharest and their danger to humans. (Rum) *Bucharest. Inst. Agron. "N. Balcescu."* *Lucrari Stiint. Ser. C*, 9:329-340. Ref. 1966, pub.1967. 49.9 B853  
T. Lungu, A. Purcherea, and C. Milla, joint authors.  
English summary.  
Chiefly dogs.
- 66486 OKOSHI, S., and MURATA, Y. Experimental studies on ancylostomiasis in cats. III. Egg culture of *Ancylostoma tubaeforme* Zeder, 1800 and *Ancylostoma caninum* Ercolani, 1859. *Jap. J. Vet. Sci.* 29(4):177-184. Ref. Aug.1967. 41.8 J27
- 66487 OKOSHI, S., and USUI, M. Experimental studies on *Toxascaris leonina*. I. Incidence of *T. leonina* among dogs and cats in Japan. *Jap. J. Vet. Sci.* 29(4):185-194. Ref. Aug.1967. 41.8 J27
- 66488 OKOSHI, S., and HASEGAWA, A. *Microsporum* gypseum isolated from feline ringworm. *Jap. J. Vet. Sci.* 29(4):195-199. Aug.1967. 41.8 J27
- 66489 OLIVER, J. E. Surgical approaches to the canine brain. *Amer. J. Vet. Res.* 29(2):353-378. Ref. Feb.1968. 41.8 Am3A
- 66490 OSBORNE, C. A., and others. Percutaneous renal biopsy in the dog and cat. *Amer. Vet. Med. Ass. J.* 151(11):1474-1480. Ref. Dec.1, 1967. 41.8 Am3  
D. R. Finco, D. G. Low, and V. Perman, joint authors.
- 66491 PALICH, W. E., and GORDON, A. S. Cardio-pulmonary resuscitation of dogs: principles and practice. *Amer. Vet. Med. Ass. J.* 151(12):1719-1732. Dec.15,1967. 41.8 Am3



- 66492 PALTRINIERI, S., and others. Spontaneous myocardial infarct in the dog; clinical, electrocardiographical, hematological, enzymological and pathological surveys. (It) *Nuova Vet.* 43 (4):289-316. Ref. July/Aug. 1967. 41.8 N922  
E. Salutini, A. Buonaccorsi, and N. Pellegrini, joint authors.  
English summary.
- 66493 PECKHAM, J. C. Pathogenesis of the lesions of the central nervous system in canine distemper. *Diss. Abstr.*, Sect. B, 28(6):2498B-2499B. Dec. 1967. Z5055.U49D53
- 66494 PENIKAS, V. T. Fe-59 and Cr-51 studies of the effect of partial-body X-irradiation on erythropoiesis in Beagles. *Diss. Abstr.*, Sect. B, 28(3):1145B. Sept. 1967. Z5055.U49D53
- 66495 PIERARD, J. A note on applied anatomy; determination of the age of the dog. (Fr) *Can. Vet. J.* 8(9):197-200. Sept. 1967. 41.8 R3224  
English summary.  
Radiological examination of the bones and teeth.
- 66496 POWERS, R. D. A study of the immunological and morphological properties of the canine transmissible venereal sarcoma. *Diss. Abstr.*, Sect. B, 28(6):2499B. Dec. 1967. Z5055.U49D53
- 66497 PUROHIT, B. L., and SARDESHPANDE, P. D. Canine pulmonary neoplasms. *Indian Vet. J.* 44(7):558-563. July 1967. 41.8 In2
- 66498 RAMAKRISHNA, O., and WILSON, F. D. The use of Brevitol "E" and "Flaxedil"—an experimental study on 12 dogs. *Indian Vet. J.* 44(8):711-716. Aug. 1967. 41.8 In2
- 66499 ROERINK, J. H. G., DAALEN, E. A. VAN, and GOMPEL, W. A. A. Experiments about the application of measles vaccine in pups. (Du) *Tijdschr. Diergeneesk.* 92(16):1055-1063. Aug. 15, 1967. 41.8 T431  
English summary.  
For protection against canine distemper.
- 66500 ROHOVSKY, M. W. Experimental feline infectious enteritis in the germfree cat. *Diss. Abstr.*, Sect. B, 28(3):969B. Sept. 1967. Z5055.U49D53
- 66501 ROHOVSKY, M. W., and GRIESEMER, R. A. Experimental feline infectious enteritis in the germfree cat. *Pathol. Vet.* 4(4):391-410. Ref. 1967. 41.8 P27
- 66502 ROMAGNOLI, A. Cutaneous calcinosis in dog. (It) *Nuova Vet.* 43(4):330-345. Ref. July/Aug. 1967. 41.8 N922  
English summary.
- 66503 SALMAN, K. N., and others. Intravenous administration of a new volatile anesthetic, 2,2-dichloro-1,1-difluoroethyl methyl sulfide, in dogs and monkeys. *Amer. J. Vet. Res.* 29(1):165-172. Jan. 1968. 41.8 Am3A  
R. S. Rozman, H. F. Cascorbi, and J. C. Krantz, joint authors.
- 66504 SANDERSLEBEN, J. VON. Epithelial tumours of the skin in domestic animals with special mention of benign epithelioma. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 80(15):285-289. Ref. Aug. 1, 1967. 41.8 B45  
English summary.  
Dogs and cats, chiefly.
- 66505 SCHEFFLER, K. H. Successful therapy of total Achilles tendon rupture in a dog. (Ge) *Monatsh. Veterinarmed.* 22(15):626-627. Aug. 1, 1967. 41.8 M742  
English summary.
- 66506 SCHERZO, C. S. Cystic liver and persistent urachus in a cat. *Amer. Vet. Med. Ass. J.* 151(10):1329-1330. Nov. 15, 1967. 41.8 Am3
- 66507 SCHIMKE, E., and others. Clinical, laboratory, and roentgenological studies with emphasis on ACTH-test in the Moller-Barlow disease and acropachy of dog. II. Acropachy. (Ge) *Wien. Tierarztl. Monatsschr.* 54(11):717-727. Nov. 1967. 41.8 T345  
H. Seidel, E. G. Grunbaum, and D. Bornert, joint authors.  
English summary.
- 66508 SCHWIELER, G. H. Some aspects of respiratory regulation during the postnatal development in cats and rabbits. *Life Sci.* 6(17,pt.1):1803-1810. Ref. Sept. 1, 1967. 44.8 L62
- 66509 SEER, G., and HUROV, L. Simultaneous bilateral coxofemoral excision arthroplasty in the dog. *Can. Vet. J.* 9(3):70-73. Mar. 1968. 41.8 R3224
- 66510 SEVERIN, G. A. Congenital and acquired heart disease. *Amer. Vet. Med. Ass. J.* 151(12):1733-1736. Dec. 15, 1967. 41.8 Am3  
In dogs and cats.
- 66511 SIEGEL, E. T. Assessment of pituitary-adrenal gland function in the dog. *Amer. J. Vet. Res.* 29(1):173-180. Ref. Jan. 1968. 41.8 Am3A
- 66512 SMALL, E. Diseases of the mouth and esophagus. *Amer. Vet. Med. Ass. J.* 151(12):1714-1718. Dec. 15, 1967. 41.8 Am3  
In dogs.
- 66513 SPIRA, E. Surgical correction of hematoma of the canine auricle. *Amer. Vet. Med. Ass. J.* 152(5):473-475. Mar. 1, 1968. 41.8 Am3
- 66514 STEINFELD, M. Studies on chronic superficial keratitis in the German Shepherd dog. (Ge) *Zentralbl. Veterinarmed. Reihe A*, 15(1):1-16. Ref. Jan. 1968. 41.8 Z5  
English summary.
- 66515 SYNDER, C. C., and others. Pathogenesis and treatment of poisonous snake bites. *Amer. Vet. Med. Ass. J.* 151(12):1635-1637. Dec. 15, 1967. 41.8 Am3  
R. P. Knowles, J. E. Pickens, and J. L. Emerson, joint authors.  
Dogs used as laboratory animals for the study of animal and human snakebites.
- 66516 TANDY, J., and THORPE, E. A fatal syndrome in a dog following administration of phenylbutazone. *Vet. Rec.* 81(16):398-399. Oct. 14, 1967. 41.8 V641  
Treated for intervertebral disc protrusion.
- 66517 TEODOSIC, S. Congenital arteriovenous anastomosis as a condition for the formation of diverticulitis of esophagus in pup. (Se) *Vet. Glas.* 21(9):751-752. 1967. 41.8 J93
- 66518 TEUNISSEN, G. H. B., and MISDORP, W. Rhabdomyosarcoma of the urinary bladder and fibromatosis of the extremities in a young dog. *Zentralbl. Veterinarmed. Reihe A*, 15(1):81-88. Ref. Jan. 1968. 41.8 Z5
- 66519 TEUNISSEN, G. H. B., and MOUWEN, J. M. V. M. Two cases of vomiting; one with atrophy of muscular wall of esophagus; other as result of a neuroblastoma originating from adrenal gland marrow. (Ge) *Kleinter-Praxis* 12(5):126-130. July 1967. 41.8 K67  
Dogs.
- 66520 TEUNISSEN, G. H. B., and BOSGRA, O. Vaccination against canine distemper and hepatitis. (Du) *Tijdschr. Diergeneesk.* 93(15):1064-1072. Aug. 15, 1967. 41.8 T431  
English summary.
- 66521 THOMAS, D. P., and VANE, J. R. 5-Hydroxytryptamine in the circulation of the dog. *Nature* 216(5113):335-338. Ref. Oct. 28, 1967. 472 N21
- 66522 TOBESCH, K. Treatment of liver injuries of dog. (Ge) *Tierarztl. Umsch.* 23(2):85-87. Feb. 1, 1968. 41.8 T445  
With Rocmaline.
- 66523 TRENTI, F. Stratigraphy in the diagnosis of lung and mediastinal tumors in the dog. (It) *Nuova Vet.* 43(4):394-411. July/Aug. 1967. 41.8 N922  
English summary.
- 66524 UILENBERG, G., and LAPEIRE, C. Existence of infectious feline anaemia (Eperythrozoonosis of cat) in Madagascar. (Fr) *Rev. Elevage Med. Vet. Pays Trop.* (n.s.) 20(2):355-357. Ref. 1967. 41.8 R3262  
English summary.
- 66525 VAN GASTEL-JANSEN, A., and HEUTHORST, H. J. A. Microwave therapy in a Poodle after hysterectomy. (Du) *Tijdschr. Diergeneesk.* 93(1):37. Jan. 1, 1968. 41.8 T431  
English summary.

- 66526 VENTUROLI, M. The electroencephalography in the dog: technical indications and diagnostic possibilities. (It) *Nuova Vet.* 43(4):373-393. Ref. July/Aug.1967. 41.8 N922  
English summary.
- 66527 VENZKE, W. G. Physiology of the adrenal glands, ovaries, and testes. *Amer. Vet. Med. Ass. J.* 151(12):1706-1713. Dec.15,1967. 41.8 Am3  
Chiefly in dogs.
- 66529 VERWER, M. A. J., and GUNNINK, J. W. The occurrence of bacteria in chronic purulent eye discharge. *J. Small Anim. Pract.* 9(1):33-36. Ref. Jan.1968. 41.8 J8292  
In dogs and cats.
- 66529 VETESI, F. On the development irregularity of arteries of splanchnic arches in cat. (Hu) *Magyar Allatorv. Lapja* 22(9):422-424. Ref. Sept.1967. 41.8 V644  
English summary.
- 66530 VOEVODINA, O. N. Otdalennye rezul'taty voz-deistviya luchej Rentgena na vysshuyu nervnyuyu deyatel'nost' sobak. Distant results of X-ray influence on higher nervous activity of dogs. *Leningrad, Meditsina*, 1967. 146 p. QP356.5.V6  
English summary.  
Bibliography, p.129-146.
- 66531 WADDELL, A. H. *Capillaria feliscati* in the bladder of cats in Australia. *Australian Vet. J.* 43(8):297. Aug.1967. 41.8 Au72
- 66532 WALKER, D. Mammary adenomas in a male dog—probable oestrogenic neoplasms. *J. Small Anim. Pract.* 9(1):15-20. Ref. Jan.1968. 41.8 J8292
- 66533 WALZL, H., and HUNYADY, G. A case of multiple adenomatous bronchial gland hyperplasia in a cat. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 80(14):271-273. Ref. July 15,1967. 41.8 B45  
English summary.
- 66534 WELSER, J. R., HINSMAN, E. J., and STROMBERG, M. W. Fine structure of the canine pinealocyte. *Amer. J. Vet. Res.* 29(3):587-599. Ref. Mar.1968. 41.8 Am3A
- 66535 WILKINSON, G. T. A review of drug toxicity in the cat. *J. Small Anim. Pract.* 9(1):21-32. Jan.1968. 41.8 J8292
- 66536 WITIAK, E. Pneumocystographic diagnosis of bladder tumors in 3 dogs. *Amer. Vet. Med. Ass. J.* 151(2):223-226. July 15,1967. 41.8 Am3
- 66537 ZELENKA, P. The findings of the *Pasteurella pseudotuberculosis* in the dog. (Se) *Vet. Arh.* 37(3/4):116-118. Ref. 1967. 41.8 V6416  
English summary.
- 66538 ZOOK, B. C., and GILMORE, C. E. Thallium poisoning in dogs. *Amer. Vet. Med. Ass. J.* 151(2):206-217. Ref. July 15,1967. 41.8 Am3
- 66539 ZYMET, C. L. Periapical rarefaction associated with canine dental caries. *Amer. Vet. Med. Ass. J.* 152(5):483-486. Mar.1,1968. 41.8 Am3

#### Miscellaneous

- 66540 BANKS, C. C., and COLLINS, T. P. Farm dogs benefit from close care. *New Zeal. J. Agr.* 114(6):80-81. June 1967. 23 N48J
- 66541 BERTINI, S. Ercole Procaccini the younger-- "Two dogs playing with a cat." (It) *Veterinaria [Milano]* 16(6):375-376. Nov./Dec.1967. 41.8 V6499  
The seventeenth-century painting.
- 66542 MILLER, T. M. Stimulus intensity and classical conditioning in dogs. *Diss. Abstr., Sect. B*, 28(3):1232B. Sept.1967. Z5055.U49D53

## FUR ANIMALS—PEN RAISED

### Breeds and Breeding

- 66543 LAURIDSEN, J. Basic genetics for the chinchilla breeder. IV. *Empress Chinchilla* 24(2):10-12. Feb.1968. 412.628 N21
- 66544 STANFIELD, T. Mutations have growing role in chinchilla industry. *Fur Trade J. Can.* 45(10):20. Oct.1967. 410 F965

### Feeds and Feeding

- 66545 ADAIR, J., STOUT, F. M., and COSTLEY, G. E. Mink nutrition research 1967 progress report. *Oreg. Agr. Exp. Sta. Spec. Rep.* 249,40 p. Feb. 1968. 100 Or3M  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 66546 AHMAN, G. On the need for vitamin supplements in feed mixtures for mink. (Sw) *Vara Palsdjur* 38(11):421-422. Nov.15,1967. 410 V42
- 66547 SCHEELJE, R. Before a new area in mink breeding: 100 percent dry feed. (Ge) *Deut. Pelztierzuchter* 42(1):4-5. Jan.1,1968. 412.628 D48

### Veterinary Medicine

- 66549 ASTRAKHANTSEV, V. I. Dystrophy of mink liver, caused by aflatoxin. (Rus) *Krolikovodstvo Zverovodstvo* 4:34. July/Aug.1967. 40.28 K91  
Obtained from *Aspergillus flavus*.
- 66549 BOSTROM, R. E., AULERICH, R. J., and SCHAIBLE, P. J. Histologic studies of male mink affected by urinary incontinence. *U. S. Fur Rancher* 47(1):10,27. Feb.1968. 412.629 Am3M
- 66550 BOWNESS, E. R. The variable pregnancy period in mink. *Fur Trade J. Can.* 46(1):4-7. Jan.1968. 410 F965
- 66551 BUKO, L., and KENYON, A. J. Aleutian disease gammopathy of mink induced with an ultra-filtrable agent. *Nature* 216(5110):69-70. Ref. Oct.7,1967. 472 N21  
Inoculation of gamma globulin concentrations.
- 66552 DUEE, J. P., DIERS, R., and MATHE, J. Toxoplasmosis of the chinchilla and hare. (Fr) *Acad. Vet. France. Bull.* 143(10):965-980. Ref. Oct.1967. 41.8 R24  
English summary.  
Diagnosis.
- 66553 EVSTRATOVA, A. M., and ROMANOV, E. S. Changes of skeleton, intensity of erythropoiesis and blood indexes in minks, as induced by age. (Rus) *Timiryazevskaya Sel'skokhoz. Akad. Izv.* 6:167-175. Ref. 1967. 106 P44  
English summary.
- 66554 KONRAD, J. Main causes of losses in young fur-bearing animals in Czechoslovakia. (Cz) *Veterinarstvi* 17(12):564-567. 1967. 41.8 V6439
- 66555 KULL, K. E. Control of infectious diseases. (Sw) *Vara Palsdjur* 38(11):412,417-418. Nov.15,1967. 410 V42  
Minks.
- 66556 KUZNETSOVA, O. V. Diagnosis of tuberculosis in minks. (Rus) *Krolikovodstvo Zverovodstvo* 4:34-35. July/Aug.1967. 40.28 K91
- 66557 MCILWAIN, P. K., and BARNES, R. W. In vivo production of a toxin (s) by *Listeria monocytogenes*. *Amer. J. Vet. Res.* 29(2):483-485. Feb. 1968. 41.8 Am3A  
Caused death in chinchillas.
- 66558 PORTER, D. D., and LARSEN, A. E. Aleutian disease of mink: infectious virus-antibody complexes in the serum. *Soc. Exp. Biol. Med. Proc.* 126(3):680-682. Ref. Dec.1967. 442.9 S01
- 66559 SOLDATI, G., and SIDOLI, L. The subcutaneous tuberculin test in mink. (It) *Nuova Vet.* 43(4):517-519. July/Aug.1967. 41.8 N922  
English summary.



Miscellaneous

- 66560 AMERICAN FUR BREEDER. Fur farm guide-book issue, 1967. Amer. Fur Breeder 40(13), 182 p. Nov.1967. 41.0 Am33  
Minks; includes section of equipment, ranch management, feeding, genetics and disease.
- 66561 BREMEN, R. Chinchilla as pelt producer and its conservation. (Ge) Deut. Pelztierzuchter 42(2):30-33. (Cont.) Feb.1,1968. 41.2.628 D48

HORSES AND MULESBreeds and Breeding

- 66562 ARABIAN HORSE CLUB REGISTRY OF AMERICA. The Arabian stud book. Vol. XVII, 1966. Chicago, 1967. 731 p. 42.9 Ar1
- 66563 CHACHULA, J., and RUDOWSKI, M. Studia nad hodowlą koni zimmokrwistych i pogrubionych w Polsce. Studies into the cold-blooded and draft horses in Poland. Roczn. Nauk Roln. Ser. D, Monogr. 123,143 p. 1967. 20.5 R59  
English summary.  
Historical development of breeding.
- 66564 DOCHEV, TS. Horse breeding in Ruse Region. (Bu) Zhivotnovodstvo 21(9/10):45-48. 1967. 49 Z62
- 66565 HUTTON, C. A., and MEACHAM, T. N. Reproductive efficiency on fourteen horse farms. J. Anim. Sci. 27(2):434-438. Ref. Mar.1968. 49 J82
- 66566 MOORHOUSE, S. Pony breeding on the hills. Great Brit. Min. Agr. Fish. Food. Agr. 74(7):335-338. July 1967. 10 G79J
- 66567 NIECE, R. L., and KRACHT, D. W. Genetics of transferrins in burros (*Equus asinus*). Genetics 57(4):837-841. Dec.1967. 44.2.8 G28
- 66569 OCSAG, I. Perspectives of large-scale horse breeding. (Hu) Magyar Mezogazdasag 23(12):16-17. Mar.20,1968. 19 M27
- 66569 SCHOLTEN, H. H. Breeding of Shetland Ponies in the Netherlands. (Du) Tijdschr. Diergeneesk. 93(4):202-210. Feb.15,1968. 41.8 T431  
English summary.
- 66570 STILLIONS, M. C., and NELSON, W. E. Metabolism stall for male equine. J. Anim. Sci. 27(1):68-72. Jan.1968. 49 J82  
For urine collection.
- 66571 TELALBASIC, R. The course of coefficients of consanguinity in the breeding of the Bosnian mountain horse. (Se) Sarajevo. Univ. Poljoprivredno-Sum. Fak. Rad. 16(18):249-349. Ref. 1967. 21.5 Sa7  
German summary.
- 66572 THOROUGHBRED RECORD. Statistical review covering the racing year of 1967. Thoroughbred Rec. 187(7),934 p. Feb.17,1968. 42.8 T39  
Includes pedigrees, and stallion register.

Feeds and Feeding

- 66573 HINTZ, H. F. Recent developments in horse nutrition. Cornell Nutr. Conf. Feed. Manufacturers. Proc. 1967:151-156. Ref. 389.79 C81
- 66574 STOWE, H. D. Alpha-tocopherol requirements for equine erythrocyte stability. Amer. J. Clin. Nutr. 21(2):135-142. Ref. Feb.1968. 389.8 J824

Veterinary Medicine

- 66575 BOHN, F. K. Contribution to diagnosis and therapy of colic diseases of horse with special emphasis on circulatory conditions. (Ge) Tierarztl. Umsch. 22(12):623-6217. Dec.1, 1967. 41.8 T445
- 66576 BOIS, C. H. W. DE, and LEEUWEN, W. VAN. Intrauterine therapy of Streptococcus endometritis of mares with Rifamycin SV. Preliminary communication. (Ge) Deut. Tierarztl. Wochenschr. 74(22):573-577. Nov.15,1967. 41.8 D482  
English summary.
- 66577 BOYD, C. L. Equine skin autotransplants for wound healing. Amer. Vet. Med. Ass. J. 151(12):1618-1623. Ref. Dec.15,1967. 41.8 Am3
- 66578 DELAHANTY, D. D. Colics. Cornell Vet. 57(3):344-355. July 1967. 41.8 C81  
Chiefly treatment in horses.
- 66579 DITCHFIELD, J. Equine infectious anemia—a review of the disease and diagnostic tests. Can. Vet. J. 8(12):273-278. Ref. Dec.1967. 41.8 R3224
- 66580 EBERLY, V. E., and others. Cardiovascular values in the horse during halothane anesthesia. Amer. J. Vet. Res. 29(2):305-314. Ref. Feb. 1968. 41.8 Am3A  
J. R. Gillespie, W. S. Tyler, and M. E. Fowler, joint authors.
- 66581 EGGERS, H., and FREYTAG, K. The results of intra-abdominal urachus evacuation as differential diagnosis of scrotal respectively abdominal hernia in young foals. (Ge) Deut. Tierarztl. Wochenschr. 74(21):551-554. Nov.1, 1967. 41.8 D482
- 66582 EIS, G. An unknown fragment of the horse pharmacopeia of Albrants from Weingarten. (Ge) Deut. Tierarztl. Wochenschr. 74(14):366-367. July 15,1967. 41.8 D482
- 66583 FALLON, P. Ovarian follicle formation in relation to pregnancy in mares. Australian Vet. J. 43(11):536-540. Nov.1967. 41.8 Au72  
Fertility analysis.  
Includes discussion.
- 66584 FUJIMOTO, Y., and others. Electron microscopic observations of the equine parathyroid glands with particular reference to those of equine osteodystrophia fibrosa. Jap. J. Vet. Res. 15(2):37-51. Ref. June 1967. 41.8 V6446  
K. Matsukawa, H. Inubushi, M. Nakamatsu, H. Satoh, and S. Yamagiwa, joint authors.
- 66585 GEIDE, H. Modern therapy for respiratory organ disease of horse. (Ge) Tierarztl. Umsch. 22(9):478-481. Sept.1,1967. 41.8 T445  
With Bisolvon.
- 66586 GOLDSMIT, L. Immunization of horses against African horse-sickness with attenuated neurotropic viral strains propagated in chicken embryos. Amer. J. Vet. Res. 29(1):133-141. Ref. Jan.1968. 41.8 Am3A
- 66587 GORMAN, H. A., and others. Effect of oxyphenylbutazone on surgical wounds of horses. Amer. Vet. Med. Ass. J. 152(5):487-491. Mar.1,1968. 41.8 Am3  
W. A. Wolff, W. W. Frost, W. V. Lumb, and A. W. Nelson, joint authors.
- 66589 HENRIQUES, O. B., and others. Substrates of kinin-releasing enzymes isolated from horse plasma. Nature 215(5106):1200-1201. Ref. Sept.9,1967. 472 N21  
N. Kauritcheva, V. Kuznetsova, and M. As-trakan, joint authors.
- 66589 HIBBS, C. M., and COFFMAN, J. R. Immunologic response of the equine to Salmonella typhimurium bacterin. Cornell Vet. 57(3):454-464. Ref. July 1967. 41.8 C81
- 66590 HOFFMAN, L., KLIPPEL, W., and SCHIE-MANN, R. Studies of the energy exchange in horses, with particular reference to horizontal locomotion. (Ge) Arch. Tierernahr. 17(6):441-449. Sept.1967. 389.78 Ar22  
English summary.
- 66591 HOLBROOK, A. A., JOHNSON, A. J., and MADDEN, P. A. Equine piroplasmosis: intraerythrocytic development of Babesia caballi (Nuttall) and Babesia equi (Laveran). Amer. J. Vet. Res. 29(2):297-305. Ref. Feb.1968. 41.8 Am3A
- 66592 HURTIIENNE, H., and JORN, J. A contribution to the fracture of Processus olecrani. (Ge) Deut. Tierarztl. Wochenschr. 74(21):560-561. Nov.1,1967. 41.8 D482  
Horse.
- 66593 JAKOB, J. Untersuchungen über die Tenazität von Rhinopneumonitis-Kulturvirus. [Investigations on the tenacity of rhinopneumonitis-culture virus]. Munich. Univ. Tierarztl. Fak. [Inaug.-Diss.] 1967(36),40 p. 41.2 M9222  
Bibliography, p.35-40.

- 66594 JOHNSTON, M. J., and others. Phycomycosis in mules; isolation of *Entomophthora coronata*. (Por) Sao Paulo. Inst. Biol. Arq. 34(1):51-58. Jan./Mar.1967. 442.9 Sa6  
B. Soerensen, A. M. Saliba, C. da S. Lacaz, J. Bella Neto, and J. M. Cruz, joint authors. English summary.
- 66595 KERSJES, A. W., WATERING, C. C. VAN DE, and KALSBECK, H. C. Hypertrophic pulmonary osteoarthropathy (Marie-Bamberger's disease) in a horse. (Du) Tijdschr. Diergeneesk. 92(15):1017-1031. Ref. Aug.1,1967. 41.8 T431  
English summary.
- 66596 KOGER, L. M. The equine respiratory disease syndrome in the Pacific Northwest. Amer. Vet. Med. Ass. J. 151(12):1611-1614, map. Dec.15,1967. 41.8 Am3
- 66597 KONŌ, Y., and KOBAYASHI, K. Specificity of assay of equine infectious anemia virus in horse leukocyte culture. Tokyo. Nat. Inst. Anim. Health Quart. 7(3):138-144. Fall 1967. 41.9 T575Q
- 66598 KONRAD, J. Hematological and biochemical characteristics of hepatic coma in the case of acute yellow atrophy and cirrhosis of the liver of horses. (Se) Vet. Glas. 21(9):711-717. 1967. 41.8 J93  
English summary.
- 66599 KRISHNA, D. V., and RAO, I. N. P. A modification of the operation of retro deviation of penis in a pony in the case of a prepuceal tumour. Indian Vet. J. 44(7):615-617. July 1967. 41.8 In2
- 66600 KRONEMAN, J., and WENSVOORT, P. Yellow fat disease and muscular dystrophy in Shetland Pony foals. (Du) Tijdschr. Diergeneesk. 93(1):28-36. Jan.1,1968. 41.8 T431  
English summary.
- 66601 LESTER, D., and KEOBOSKY, W. Z. Alcohol metabolism in the horse. Life Sci. 6(21,pt.1):2313-2319. Nov.1,1967. 442.8 L62
- 66602 LOHRER, J., and HORNING, B. Thelazia lacrymalis of horse. (Ge) Schweiz. Arch. Tierheilk. 109(12):644-653. Dec.1967. 41.8 Sch9  
English summary.
- 66603 MADDEN, P. A., and HOLBROOK, A. A. Equine piroplasmosis; indirect fluorescent antibody test for *Babesia caballi*. Amer. J. Vet. Res. 29(1):117-123. Ref. Jan.1968. 41.8 Am3A
- 66604 MANNERS, C. I. The use of polyvalent inactivated vaccine therapeutically against equine influenza. Amer. Vet. Med. Ass. J. 151(12):1609-1610. Dec.15,1967. 41.8 Am3
- 66605 MAROLT, J. Current developments in the treatment of moon blindness; Opticortenol 0.5 percent ad us. vet. "Ciba" for successful and quick cure of periodic ophthalmia. (Ge) Deut. Tierarztl. Wochenschr. 74(18):453-455. Sept.15,1967. 41.8 D482  
English summary.  
Horses and cattle.
- 66606 MATTHEWS, R. G., ROPIHA, R. T., and BUTTERFIELD, R. M. The phenomenon of foal heat in mares. Australian Vet. J. 43(12):579-582. Dec.1967. 41.8 Au72
- 66607 MEY, G. J. W. VAN DER, KLEYN, E. F., and WATERING, C. C. VAN DE. An investigation into the hereditary tendency for navicular disease. (Du) Tijdschr. Diergeneesk. 92(19):1261-1271. Oct.1,1967. 41.8 T431  
English summary.  
Horses.
- 66608 MILNE, F. J. Clinical examination and diagnosis of the diseased equine foot. Amer. Vet. Med. Ass. J. 151(12):1599-1608. Dec.15,1967. 41.8 Am3  
Chiefly lameness.
- 66609 MIRCHAMSY, H., and TASLIMI, H. Serological responses of horses immunized with live attenuated African horse sickness vaccine. J. Comp. Pathol. 77(4):431-438. Oct.1967. 41.8 J82
- 66610 MORGAN, J. P. Necrosis of the third tarsal bone of the horse. Amer. Vet. Med. Ass. J. 151(10):1334-1342. Ref. Nov.15,1967. 41.8 Am3
- 66611 MORROW, G. L. Uterine curettage in the mare. Amer. Vet. Med. Ass. J. 151(12):1615-1617. Dec.15,1967. 41.8 Am3
- 66612 MURDICK, P. W., RAY, R. S., and NOONAN, J. S. Salicylic acid concentration in plasma and urine of medicated and nonmedicated horses. Amer. J. Vet. Res. 29(3):581-585. Ref. Mar.1968. 41.8 Am3A  
After administration of acetylsalicylic acid.
- 66613 NELSON, A. W., COLLIER, J. R., and GRINER, L. A. Acute surgical colonic infarction in the horse. Amer. J. Vet. Res. 29(2):315-327. Ref. Feb.1968. 41.8 Am3A
- 66614 NICHOLSON, J. D. The urinary excretion of phenobarbitone and pentobarbitone in the horse. Biochem. Pharmacol. 17(1):1-8. Ref. Jan. 1968. 396.3 B52
- 66615 O'HARRA, J. F. Laboratory support in equine infectious anemia diagnosis. Amer. Vet. Med. Ass. J. 151(12):1828-1851. Ref. Dec.15,1967. 41.8 Am3  
Members: J. L. O'Harra, J. B. Henson, T. C. McGuire, K. Kobayashi, J. R. Gorham, W. J. B. Ditchfield, G. H. Waddell, V. R. Saurino, M. B. Teigland, and S. R. Nusbaum.
- 66616 OZAWA, Y., and HAZRATI, A. Post-vaccination reactions in donkeys vaccinated with African horse-sickness polyvalent vaccines. Office Int. Epizoot. Bull. 67(7/8):949-959. Ref. July/Aug.1967. 41.8 Of2
- 66617 PETTE, J., TEUFEL, P., and ZELLER, R. Studies in work connected with the isolation and characterisation of equine influenza virus. (Ge) Berliner Munchener Tierarztl. Wochenschr. 80(17):325-328. Ref. Sept.1,1967. 41.8 B45  
English summary.
- 66618 POPOV, V. Spreading of some horse diseases endangering horse raising and racing in European countries. (Bu) Zhivotnovudstvo 21(7):19-22. July 1967. 49 Z62
- 66619 RASMUSSEN, P. G. Epizootiological study of some respiratory virus infections (Herpes equi, influenza A/equi 1 and A/equi 2, and Parainfluenza-3 virus) in Danish stud horses. (Da) Nord. Veterinaarmed. 20(1):1-8. Ref. Jan. 1968. 41.8 N813  
English summary.
- 66620 ROONEY, J. R., and PRICKETT, M. E. Congenital lordosis of the horse. Cornell Vet. 57(3):417-428. July 1967. 41.8 C81  
Deformity of the spinal column.
- 66621 ROSSDALE, P. D. Clinical studies on the newborn Thoroughbred foal. III. Thermal stability. Brit. Vet. J. 124(1):18-22. Ref. Jan.1968. 41.8 V643
- 66622 ROSSDALE, P. D., PATTLE, R. E., and MAHAFFEY, L. W. Respiratory distress in a newborn foal with failure to form lung lining film. Nature 215(5109):1498-1499. Sept.30,1967. 472 N21
- 66623 RUSSELL, B. Buoyant density of African horsesickness virus. Nature 215(5104):983-984. Aug.26,1967. 472 N21
- 66624 SCHEBITZ, H., and WILKENS, H. Bone spavin in horses—examination and therapy. (Ge) Berliner Munchener Tierarztl. Wochenschr. 80(20):385-390. Ref. Oct.15,1967. 41.8 B45  
English summary.
- 66625 SEN, G. P., GANGULEE, P. C., and SHARMA, G. L. The determination of the potency of intradermo-palpebral mallein by the haemagglutination inhibition test. J. Comp. Pathol. 77(4):443-448. Oct.1967. 41.8 J82  
In ponies; for the diagnosis of glanders.
- 66626 SHVARTSMAN, V. G. Determination of vitamin B<sub>12</sub> in blood plasma. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 12:126-127. 1967. 20 V633  
Horses.



- 66627 SIMONSEN, H. B. Local and general treatment of genital Streptococcus infection of mares. (Da) Danske Dyrlægefor. Medlemsbl. 51(2):36-37. Jan.15,1968. 41.9 D23
- 66628 SOVA, Z., JICHA, J., and RICHTER, L. Problem of bilirubinemia of horses in starvation condition. (Ge) Prakt. Tierarzt 48(12):544-547. (Concl.) Ref. Dec.1,1967. 41.8 P882
- 66629 STEILMANN, C., and others. African horse sickness. (Fr) Office Int. Epizoot. Bull. 67 (7/8):887-947. July/Aug.1967. 41.8 Of2  
H. Mirchamsy, H. Gilbert, and J. Santucci, joint authors.  
English summary.  
Bibliography, p.939-947.
- 66630 STUMP, J. E. Anatomy of the normal equine foot, including microscopic features of the laminar region. Amer. Vet. Med. Ass. J. 151 (12):1588-1598. Ref. Dec.15,1967. 41.8 Am3  
Chiefly hoofs.
- 66631 SYMPOSIUM ON THE EQUINE FOOT. [Pers.]. Amer. Vet. Med. Ass. J. 151(12):1588-1610. Ref. Dec.15,1967. 41.8 Am3
- 66632 TASKER, J. B. Fluid and electrolyte studies in the horse. III-V. Cornell Vet. 57(4):649-677. Ref. Oct.1967. 41.8 C81  
Studies on the effects of dehydration, and diarrhea.
- 66633 TAYLOR, D. H., and MERO, M. A. The use of an internal pacemaker in a horse with Adams-Stokes syndrome. Amer. Vet. Med. Ass. J. 151(9):1172-1176. Nov.1,1967. 41.8 Am3
- 66634 TEETER, S. M., NELSON, W. E., and STILLIONS, M. C. Cecal fistulation in the horse. J. Anim. Sci. 27(2):394-404. Mar.1968. 49 J82
- 66635 TEETER, S. M., STILLIONS, M. C., and NELSON, W. E. Maintenance levels of calcium and phosphorus in horses. Amer. Vet. Med. Ass. J. 151(12):1625-1628. Dec.15,1967. 41.8 Am3  
Metabolic and hematological studies.
- 66636 TYAGI, R. P. S. Effects of pentothal sodium anesthesia on the horse. Diss. Abstr., Sect. B, 28(5):1745B. Nov.1967. 41.8 Am3  
Z5055.U49D53
- 66637 VAN PELT, R. W. Intra-articular injection of 6 alpha-methyl, 17 alpha-hydroxyprogesterone acetate in tarsal hydrarthrosis (bog spavin) in the horse. Amer. Vet. Med. Ass. J. 151(9):1159-1171. Ref. Nov.1,1967. 41.8 Am3
- 66638 VAN PELT, R. W. Tarsal hydrarthrosis (bog spavin) in the horse; blood, serum, and synovial fluid findings. Amer. J. Vet. Res. 29(3):569-579. Ref. Mar.1968. 41.8 Am3A
- 66639 VERMA, B. B., and PRASAD, B. Equine paralytic myoglobinuria—a case report. Indian Vet. J. 44(10):896-898. Oct.1967. 41.8 In2
- 66640 WAGENAAR, G. Donkeys at issue. (Du) Tijdschr. Diergeneesk. 92(16):1082-1087. Aug.15,1967. 41.8 T431  
English summary.  
Transmission of lungworm disease from ponies.
- 66641 WINTZER, H. J., and DAMMRICH, K. Navicular bone fractures of horse. (Ge) Schweiz. Arch. Tierheilk. 109(9):487-496. Sept.1967. 41.8 Sch9  
English summary.
- 66642 WOLFF, W. A., LUMB, W. V., and RAMSAY, M. K. Comparison of halothane and chloroform anesthesia in horses. Amer. J. Vet. Res. 29(1):125-132. Ref. Jan.1968. 41.8 Am3A
- 66643 ZAKOPAL, J., and NESVADBA, J. Actinobacillary septicaemia as an enzootic in a breeding stud of mares. (Ge) Zentralbl. Veterinar-med. Reihe A, 15(1):41-59. Ref. Jan.1968. 41.8 Z5  
English summary.  
Actinobacillus equuli isolated.
- Miscellaneous
- 66644 AUBLET, The training of colts destined for the saddle. (Fr) Rev. Elevage 23(1):83,85,87-88. Jan.1968. 49 B462
- 66645 JACKSON, B. G. The horse business is coming back in a big way. Fla. Cattleman Livestock J. 32(5):46-47. Feb.1968. 43.8 F66
- 66646 NECHAEV, I. N. Experience with developing horse herds for production of meat. (Rus) Zhivotnovodstvo 12:33-35. Dec.1967. 49 Z6
- 66647 SZIKLAI, A. Importance of horse raising in the Dominican Republic. (Sp) Agricultura [Santo Domingo] 442/443:34-41. July/Aug. 1967. 8 R323
- LABORATORY ANIMALS, SMALL
- Breeds and Breeding
- 66648 BRADFORD, G. E. Selection for litter size in mice in the presence and absence of gonadotropin treatment. Genetics 58(2):283-295. Ref. Feb.1968. 442.8 G28
- 66649 HEDRICK, P. W., and COMSTOCK, R. E. Role of linkage in gene frequency change of coat color alleles in mice. Genetics 58(2):297-303. Feb.1968. 442.8 G28
- 66650 MARIN, G., and BASILICO, C. Transformation of polyploid hamster cells by polyoma virus. Nature 216(5110):62-63. Oct.7,1967. 472 N21
- OKAUCHI, K. Effects of environmental temperatures on sexual organs of male mice. (Ja) Jap. J. Zootech. Sci. 39(1):27-32. Jan.1968. 49 N62  
English summary.  
Effects of heat.
- ZUCKER, I. Suppression of oestrous behaviour in the immature male rat. Nature 216 (5110):88-89. Oct.7,1967. 472 N21
- Feeds and Feeding
- 66653 GREEN, J., and others. Vitamin E and stress. 7. The interrelationships between polyunsaturated fatty acid stress, vitamin A and vitamin E in the rat and the chick. Brit. J. Nutr. 21(4):845-864. Ref. 1967. 389.8 B773  
I. R. Muthy, A. T. Diplock, J. Bunyan, M. A. Cawthorne, and E. A. Murrell, joint authors.
- 66654 KIRCHGESSNER, M., WESER, U., and MULLER, H. L. Cu absorption caused by supplementation of gluconic, citric, salicylic, and oxalic acids. 7. (Ge) Z. Tierphysiol. Tierernähr. Futtermittelkunde 23(1):28-30. Sept. 1967. 389.78 Z3  
English summary.  
Tests with rats.
- 66655 OLSEN, E. M. Effect of heat treatment on the quality and utilization by the rat of protein in wheat germ meal. Can. J. Biochem. 45(11):1673-1679. Ref. Nov.1967. 470 C16E
- 66656 PENZES, L. Effect of consecutive protein depletion and repletion on the growth of albino rats. Acta Biol. [Budapest] 18(3):335-344. Ref. 1967. 475 Ac85
- Veterinary Medicine
- 66657 AHMED, S. S. Some observations on pathological changes in animals due to Brugia species. J. Trop. Med. Hyg. 70(12):300-302. Ref. Dec. 1967. 448.8 J827  
Cause of filariasis in laboratory animals.
- 66658 BIONDINI, P. E., SUTHERLAND, T. M., and HAVERLAND, L. H. Body composition of mice selected for rapid growth rate. J. Anim. Sci. 27(1):5-12. Jan.1968. 49 J82
- 66659 CAMPBELL, C. H. Influence of litter size, age, variation, and selective breeding of mice on susceptibility to foot-and-mouth disease virus. Amer. J. Vet. Res. 29(3):685-691. Mar. 1968. 41.8 Am3A
- 66660 CHOMAN, B. R., COOPER, M. S., MARTINI, F. V. Direct-challenge potency test for bacterins containing Clostridium septicum. Amer. J. Vet. Res. 29(3):679-683. Mar.1968. 41.8 Am3A  
Experiments with guinea pigs and hamsters.
- 66661 CORREA, W. M., and PACHECO, A. C. Naturally occurring histoplasmosis in guinea pigs. Can. J. Comp. Med. Vet. Sci. 31(8):203-206. Ref. Aug.1967. 41.8 C162
- 66662 DAS, R. M., and BENSON, G. K. Effect of ICI 33838 on lactation in the guinea pig. J. Endocrinol. 38(4):XXVI. Aug.1967. 448.8 J8293

- 66663 DONOVAN, B. T. The existence of a luteolytic hormone in the uterus of the guinea-pig. Nottingham. Univ. Easter Sch. Agr. Sci. Proc. 13th Easter Sch.:317-337. 1966, pub. 1967. S217.E2  
Review of the literature.  
Includes discussion.
- 66664 ERSEK, R. A. Murine splenectomy. Amer. J. Vet. Res. 29(3):755-758. Mar. 1968. 41.8 Am3A
- 66665 FINDLAY, A. L. R., and GROSVENOR, C. E. A transient fall in pressure precedes the characteristic intramammary gland. Soc. Exp. Biol. Med. Proc. 126(3):637-640. Dec. 1967. 442.9 Sol  
Animal research; investigation in rats.
- 66666 FINN, C. A. The reaction of the uterus during implantation in the mouse. Nottingham. Univ. Easter Sch. Agr. Sci. Proc. 13th Easter Sch.: 513-531. 1966, pub. 1967. S217.E2  
Review of the literature.  
Includes discussion.
- 66667 FREEDMAN, H. H., and others. Induced sensitization of normal laboratory animals [mice] to *Brucella abortus* endotoxin. J. Bacteriol. 95(2): 286-290. Ref. Feb. 1968. 448.3 J82  
A. E. Fox, S. Willis, and B. Schwartz, joint authors.
- 66668 GALE, C., and others. Neoplastic potential of certain normal and neoplastic cell cultures in hamster cheek pouches. Amer. J. Vet. Res. 29(3):717-721. Ref. Mar. 1968. 41.8 Am3A  
T. Matsuoka, V. Marshall, and R. N. Berkman, joint authors.
- 66669 GUNDERSON, L. L., and LOW, F. N. Perineurium and connective tissues of peripheral nerve. Amer. J. Vet. Res. 29(2):455-461. Ref. Feb. 1968. 41.8 Am3A  
Experiments with rats.
- 66670 HAHN, D. W., and TURNER, C. W. Effects of ovariectomy-hypophysectomy on feed intake and mammary gland growth as measured by DNA. Soc. Exp. Biol. Med. Proc. 126(2):476-479. Nov. 1967. 442.9 Sol  
Experiments with rats.
- 66671 HANNA, M. G., and others. Serum alpha globulin fraction; survival-and-recovery effect in irradiated mice. Science 157(3795):1458-1461. Ref. Sept. 22, 1967. 470 Sci2  
P. Nettesheim, W. D. Fisher, L. C. Peters, and M. W. Francis, joint authors.
- 66672 HILLIARD, W. G., DILLISTONE, E. J., and OLIVER, W. T. A method for cerebroventricular cannulation of the rat. Can. J. Comp. Med. Vet. Sci. 32(1):368-371. Ref. Jan. 1968. 41.8 C162
- 66673 HOCK, A., and RISSE, S. Quality of dietary proteins as affecting certain enzymatic systems in the liver. (Ge) Arch. Tierernahr. 17(6):371-383. Ref. Sept. 1967. 389.78 Ar22  
English summary.  
Tests with rats.
- 66674 HOLZBAUER, M., and NEWPORT, H. M. The effect of stress on the concentration of 3beta-hydroxypregn-5-en-20-one (pregnenolone) and pregn-4-ene-3,20-dione (progesterone) in the adrenal gland of the rat. J. Physiol. 193(1): 131-140. Ref. Nov. 1967. 447.8 J82
- 66675 HUCHERIG, A. Untersuchungen an Mäusen über die Eliminierung von Bakterien aus der Blutbahn; ein Beitrag zur Frage der unspezifischen Resistenz [Investigations on mice on the elimination of bacteria from the blood vessel; a contribution to the problem of unspecific resistance]. Munich. Univ. Tierarztl. Fak. [Inaug.-Diss.] 1967(35), 74 p. 41.2 M9222  
Bibliography, p. 33-41.  
Includes Omnadin application.
- 66676 JACOTOT, H., and GULLON, J. C. Ways of transplantation of the Yoshida sarcoma in the rat. (Fr) Acad. Vet. France. Bull. 143(12): 1231-1239. Dec. 1967. 41.8 R24  
English summary.
- 66677 JONES, W. I., and others. Antibiotic treatment of anthrax infection in mice. J. Bacteriol. 94(3):609-614. Ref. Sept. 1967. 448.3 J82  
F. Klein, R. E. Lincoln, J. S. Walker, B. G. Mahlandt, and J. P. Dobbs, joint authors.
- 66678 KUNSTYR, I., and POSPISIL, J. Situation and perspectives for veterinary care of laboratory animals. (Cz) Veterinarstvi 17(12):567-569. 1967. 41.8 V6439
- 66679 KUNZE, B., and MARWITZ, T. The elimination of *Salmonella enteritidis* infection in a breeding stock of rats. (Ge) Z. Versuchstierkunde 9(5):257-259. 1967. 410 Z36  
English summary.
- 66680 KURSTAK, E., and others. Inhibition of cytodieresis of mouse cells cultivated in vitro in contact with the virus of denonucleosis. (Fr) Rev. Can. Biol. 26(4):355-357. Dec. 1967. 442.8 R325  
M. Trudel, A. Chagnon, and C. Hudon, joint authors.
- 66681 MATOFF, K., and TERSLSKI, A. Role of intestinal wall in acquired immunity against *Ascaris suum*. (Ge) Z. Tropenmed. Parasitol. 18(3):343-353. Ref. Oct. 1967. 448.8 Z37  
English summary.  
Experimented with mice.
- 66682 NUTTER, J. E., and GUSS, M. L. Influence of sublethal X-irradiation on immunity of guinea pigs administered live tularemia vaccine. Soc. Exp. Biol. Med. Proc. 126(2):450-452. Nov. 1967. 442.9 Sol
- 66683 PAPPAGIANIS, D. Histopathologic response of mice to killed vaccines of *Coccidioides immitis*. J. Invest. Dermatol. 49(1):71-77. July 1967. 448.8 J8292
- 66684 PAVLOK, A. Development of mouse ova in explanted oviducts; fertilization, cultivation, and transplantation. Science 157(3795):1457-1458. Ref. Sept. 22, 1967. 470 Sci2
- 66685 RAGINS, H., and LIU, S. M. Gastric mucosal mast cells in the common laboratory animals and man. JAMA (J. Amer. Med. Ass.) 302(9): 654-656. Ref. Feb. 26, 1968. 448.9 Am37
- 66686 SARKAR, N. K. Mechanism of hormone actions. I. Comparative study of the effects of triamcinolone and casein hydrolysate in fasting rats. Life Sci. 6(24, pt. 2):2597-2604. Ref. Dec. 15, 1967. 442.8 L62
- 66687 SAXENA, S. K., and PAL, A. K. Effects of synthetic oestrogens on growth of mice. Indian Vet. J. 44(10):877-880. Ref. Oct. 1967. 41.8 In2
- 66688 SCHWARTZ, D., GLOWATZKI, R., and KEMPER, A. Bound ascorbic acid in the brain of guinea pigs and its behavior in scurvy. (Ge) Acta Biol. Med. Ger. 18(2):205-208. Ref. 1967. QH301.A25  
English summary.
- 66689 SHIMIZU, H., and TOYODA, Y. Effect of oral treatment with chlormadinone acetate on time of ovulation in rats. Soc. Exp. Biol. Med. Proc. 126(3):886-888. Dec. 1967. 442.9 Sol
- 66690 SMALLEY, R. L., and SMALLEY, K. N. Brown and white fats; development in the hamster. Science 157(3795):1449-1451. Ref. Sept. 22, 1967. 470 Sci2
- 66691 SMIT-VIS, J. H., and AKKERMAN-BELLAART, M. A. Spermiogenesis in hibernating golden hamsters. Experientia 23(10):844-846. Oct. 15, 1967. 475 Ex7
- 66692 SOWELL, W. L. Trace metal alterations during endrin intoxication. Diss. Abstr., Sect. B, 28(6):2312B. Dec. 1967. Z5055.U49D53  
Of rats.
- 66693 STREJAN, G., and CAMPBELL, D. H. Hypersensitivity to *Ascaris* antigens. II. J. Immunol. 99(2):347-356. Ref. Aug. 1967. 448.8 J8232  
Guinea pig antibodies in *Ascaris* sum studies.
- 66694 TAN, E. S., and SNOW, H. D. Continuous epidural anesthesia in the guinea pig. Amer. J. Vet. Res. 29(2):487-490. Feb. 1968. 41.8 Am3A
- 66695 TOMITA, Y., and JONAS, A. M. Two viral agents isolated from hamsters with a form of regional enteritis: a preliminary report. Amer. J. Vet. Res. 29(2):445-453. Ref. Feb. 1968. 41.8 Am3A
- 66696 YOSHINAGA, K., GRIEVES, S. A., and SHORT, R. V. Steroidogenic effects of luteinizing hormone and prolactin on the rat ovary in vivo. J. Endocrinol. 38(4):423-430. Ref. Aug. 1967. 448.8 J8293



- 66697 EL-ZEIN, A., MYERS, W. L., and SEGRE, D. The development of a diagnostic test for equine infectious anemia. *Ill. Vet.* 11(1):16A. 1968. 41.8 IL62

#### Miscellaneous

- 66698 THIMM, H. J. Performance testing and breeding value estimation in experimental animal rearing. I. Results of experiments. (Ge) *Kleintier-Praxis* 12(8):224-227. Dec.1967. 41.8 K67

### POULTRY

#### Breeds and Breeding

- 66699 ARORA, V. K., KAPRI, B. D., and DESAI, R. N. A comparative study of a variety of crossbreds in poultry on hatchability and viability. *Indian Vet. J.* 44(10):852-856. Oct.1967. 41.8 In2
- 66700 CLAYTON, G. A. Some implications of selection results in poultry. *World's Poultry Sci. J.* 24(1):37-57. Ref. Jan./Mar.1968. 47.8 W89
- 66701 CULZONI, V. The pigmentation of the Silkie fowl in adults and during the development. (It) *Nuova Vet.* 43(5):569-577. Sept./Oct.1967. 41.8 N922  
English summary.
- 66702 FRACANZANI, C. Beautiful and useful colored Leghorns. (It) *Avicoltura* 37(1):93-99. Jan. 1968. 47.8 R523
- 66703 GROM, A., and GAVORA, J. Possibilities of the utilization of accidentally crossed control populations in poultry research. (Cz) *Prague. Vyzk. Ustav Zemed. Vestn.* 14(4):174-175. 1967. 19.5 C333
- 66704 HARRIS, C. L., GROSS, W. B., and ROBESON, A. Vocal acoustics of the chicken. *Poultry Sci.* 47(1):107-112. Jan.1968. 47.8 Am33P  
Cocks crowing.
- 66705 ITAGAKI, K., TSUBOKURA, M., and INOMATA, R. Serological studies on the artificial insemination in domestic fowl. II. Serological examination on the oviduct in domestic fowls induced the decline of fertility. (Ja) *Jap. Poultry Sci.* 5(1):10-14. Jan.1968. 47.8 N57  
English summary.
- 66706 KINNEY, T. B., and others. Genetic and phenotypic variation in randombred White Leghorn controls over several generations. *Poultry Sci.* 47(1):113-123. Ref. Jan.1968. 47.8 Am33P  
P. C. Lowe, B. B. Bohren, and S. P. Wilson, joint authors.
- 66707 KUIT, A. R. Cross breeding trials with Araucana hens. (Du) *Veeteelt Zuivelber.* 10(9/10):435-438,447. Sept./Oct.1967. 49 V51  
Crossed with Welsumer; effects on egg shell colors.
- 66708 KUMAR, J., and KAPRI, B. D. Genetic studies on internal egg quality and its relationship with some of the economic traits in White Leghorn birds. III. Economic traits. *Indian Vet. J.* 44(10):847-851. Ref. Oct.1967. 41.8 In2
- 66709 LAKE, P. E. The maintenance of spermatozoa in the oviduct of the domestic fowl. *Nottingham. Univ. Easter Sch. Agr. Sci. Proc.* 13th Easter Sch.:254-266. 1966, pub.1967. S217.E2  
Review of the literature.  
Includes discussion.
- 66710 MERRITT, E. S. Genetic parameter estimates for growth and reproductive traits in a random-bred control strain of meat type fowl. *Poultry Sci.* 47(1):190-199. Ref. Jan.1968. 47.8 Am33P
- 66711 NORDSKOG, A. W. Genetic advance from inter-line selection in poultry. *Zuchter. Genet. Breed. Res.* 37(4):200-205. Ref. July 17,1967. 442.8 Z8
- 66712 PARDERKA, V., and KNIZETOVA, F. The presence of erythrocytic antigens on cock spermatozoa. *Immunogenet. Lett.* 5(3):123-127. Ref. Jan.1968. 443.8 Im6

- 66713 RAO, G. V., and BOSE, S. Z. A study on the normal rate of growth of White Leghorn chicks hatched during different seasons. *Indian J. Vet. Sci. Anim. Husb.* 37(3):150-155. Sept.1967. 41.8 In22

- 66714 SZUMOWSKI, P. Electrophoretic behavior of the proteins of the seminal plasma of birds. (Fr) *Rec. Med. Vet.* 164(1):47-57. Ref. Jan. 1968. 41.8 R24  
English summary.  
Includes turkeys.

- 66715 VECCHLOTTI, G. G. Self-sexing chickens or sex-links. (It) *Avicoltura* 37(1):71-83. Jan. 1968. 47.8 R523  
English summary, p.70.

- 66716 YOSHIDA, M., and HOSHII, H. Note on feeding high protein diet to male chicks. (Ja) *Jap. Poultry Sci.* 5(1):40-43. Jan.1968. 47.8 N57  
English summary.

#### Feeds and Feeding

- 66717 BOSMANN, H. B. The effects of vitamins D in chicks. *Diss. Abstr., Sect. B*, 28(3):1128B-1129B. Sept.1967. Z5055.U49D53
- 66719 BOYD, F. M., and EDWARDS, H. M. Effect of diet on avian leukosis. *Poultry Sci.* 47(1):338-339. Jan.1968. 47.8 Am33P
- 66719 COUCH, J. R. Helping poultry advances, low-lysine diets. *Tex. Agr. Progr.* 14(1):16-17. Winter 1968. 100 T31Te
- 66720 CREGER, C. R., COUCH, J. R., and ERNST, H. L. Methionine hydroxy analogue and L-methionine in broiler diets. *Poultry Sci.* 47(1):229-232. Ref. Jan.1968. 47.8 Am33P
- 66721 CUCA G., M. Availability of calcium from Sesamum indicum, L. and the effects of levels of calcium and lysine upon *Ascaridia galli* and chicks. *Diss. Abstr., Sect. B*, 28(3):750B. Sept.1967. Z5955.U49D53
- 66722 DAY, E. J., DILWORTH, B. C., and CHARLES, O. W. Factors affecting the incidence of blood spots in eggs. *Miss. Agr. Exp. Sta. Bull.* 751, 7 p. Nov.1967. 100 M69  
Effects of feeding.
- 66723 DEAN, W. F., and SCOTT, H. M. Ability of arginine to reverse the growth depression induced by supplementing a crystalline amino acid diet with excess lysine. *Poultry Sci.* 47(1):341-342. Jan.1968. 47.8 Am33P
- 66724 DEAN, W. F. Nutritional and management factors affecting growth and body composition of ducklings. *Cornell Nutr. Conf. Feed Manufacturers. Proc.* 1967:74-82. 389.79 C81
- 66725 DERZSY, D. Respiratory diseases of poultry and control. (Hu) *Agrartud. Kozlem.* 26(3/4):397-399. 1967. 19 B855
- 66726 DVORAK, J. On the role of vitamin C in the nutrition of egg-laying poultry. (Cz) *Veterinarstvi* 18(1):8-10. 1968. 41.8 V6439
- 66727 GIORDANI, G. Productive and metabolic energy; its importance and use in the nutrition of poultry. (It) *Avicoltura* 37(1):61-70. Ref. Jan. 1968. 47.8 R523  
English summary, p.58.
- 66728 GLEAVES, E. W., and others. The action and interaction of physiological food intake regulators in the laying hen. I. Effects of dietary factors upon feed consumption and production responses. *Poultry Sci.* 47(1):38-67. Ref. Jan. 1968. 47.8 Am33P  
L. V. Tonkinson, J. D. Wolf, C. K. Harman, R. H. Thayer, and R. D. Morrison, joint authors.
- 66729 GROOTE, G. DE, and REYNTENS, N. Feeding of layers raised in batteries; investigations on requirements in Ca and in P and the influence of a vitamin C supplement. (Fr) *Rev. Agr. [Brussels]* 20(9):1245-1263. Ref. Sept.1967. 13 R322  
English summary.

- 66730 HARTWICK, H., HILLIGER, H. G., and TZI-MAS, P. Green-brownish discoloration of egg yolk after feeding a gossypol-containing feed to laying hens. (Ge) Deut. Tierarztl. Wochenschr. 74(14):353-355. July 15, 1967. 41.8 D482  
English summary.
- 66731 KALIUSCNOV, W. T., and WEIZMAN, K. N. The feeding of guinea fowl for meat production. (It) Avicoltura 37(1):99-100. Jan. 1968. 47.8 R523
- 66732 KARRER, O., and PARSONS, D. S. Disaccharidase activity in the small intestine of the developing chick. Life Sci. 7(2,pt.2):85-89. Ref. Jan. 15, 1968. 44.2 L62
- 66733 KUBOTA, D., and MORIMOTO, H. Studies on corn-soya laying rations. II. Effects of B-complex vitamin supplementation on corn-soya laying ration. (Ja) Jap. Poultry Sci. 5(1):28-36. Ref. Jan. 1968. 47.8 N57  
English summary.
- 66734 LEE, Y., KUBOTA, D., and MORIMOTO, H. Studies on the phosphorus and calcium metabolisms of laying hens. (Ja) Jap. J. Zootech. Sci. 38(7):305-311. Ref. July 1967. 49 N62  
English summary.
- 66735 LORCHER, K., and BRONSCH, K. Calcium metabolism of poultry. 3. Deposition of labelled nutritional calcium in the egg shell. (Ge) Z. Tierphysiol. Tierernahr. Futtermittelkunde 23(1):1-5. Ref. Sept. 1967. 389.78 Z3  
English summary.
- 66736 MANOUKAS, A. G. The availability of niacin in certain feedstuffs for the hen. Diss. Abstr., Sect. B, 28(6):2497B. Dec. 1967. Z5055.U49D53
- 66737 MARCH, B. E., and BIELY, J. Nutritional evaluation of fishmeals for poultry feeding. Cornell Nutr. Conf. Feed Manufacturers. Proc. 1967:123-129. 389.79 C81
- 66738 MORAN, E. T., and MCGINNIS, J. Growth of chicks and turkey poult fed western barley and corn grain-based rations; effect of auto-claving on supplemental enzyme requirement and asymmetry of antibiotic response between grains. Poultry Sci. 47(1):152-158. Jan. 1968. 47.8 Am33P
- 66739 NAYAK, N. C., TRIPATHY, S. B. Use of decoated sal (*Shorea robusta*) seed as poultry feed—a preliminary trial. Indian Vet. J. 44(8):706-711. Aug. 1967. 41.8 In2
- 66740 NEAGLE, L. H., BLAYLOCK, L. G., and GOHL, J. H. Calcium, phosphorus and vitamin D3 levels and interactions in turkeys to 4 weeks of age. Poultry Sci. 47(1):174-180. Ref. Jan. 1968. 47.8 Am33P
- 66741 NESHEIM, M. C., LEACH, R. M., and NORVELL, M. J. The effect of rearing diet on choline deficiency in hens. Cornell Nutr. Conf. Feed Manufacturers. Proc. 1967:57-60. 389.79 C81
- 66742 NEUDOERFFER, T. S., and LEA, C. H. Effects of dietary fat on the amounts and proportion of the individual lipids in turkey muscle. Brit. J. Nutr. 22(1):115-128. Ref. Feb. 1968. 389.8 B773
- 66743 PANKEY, R. D. The effect of dietary fats on some chemical and functional properties of eggs and on some chemical properties of the lipids of liver, blood and depot of the hen. Diss. Abstr., Sect. B, 28(6):2471B. Dec. 1967. Z5055.U49D53
- 66744 PEPPER, W. F., SUMMERS, J. D., and MC-CONACHIE, J. D. The effect of high levels of calcium, fish products and sodium bicarbonate on egg shell quality. Poultry Sci. 47(1):224-229. Ref. Jan. 1968. 47.8 Am33P
- 66745 PERSONS, J. N., WILSON, H. R., and HARMS, R. H. Relationship of diet composition to survival time of chicks when subjected to high temperature. Soc. Exp. Biol. Med. Proc. 126(2):604-606. Ref. Nov. 1967. 44.2 S01
- 66746 RICHARDSON, C. E., TEEKELL, R. A., and WATTS, A. B. The effects of energy levels on nitrogen components of urine. Poultry Sci. 47(1):288-292. Ref. Jan. 1968. 47.8 Am33P
- 66747 RUSSO, V., CATALANO, A., and BLANCO, P. Influence of the level of xanthophyll, vitamin E, bovine tallow stabilized or stabilized and emulsified with glycerides, on yolk pigmentation. (It) Avicoltura 37(1):157-169. Ref. Jan. 1968. 47.8 R523  
English summary.
- 66748 SALMAN, A. J., and MCGINNIS, J. Effect of supplementing raw soybean meal with methionine on performance of layers. Poultry Sci. 47(1):247-251. Jan. 1968. 47.8 Am33P
- 66749 SAVILLE, D. G., SOLVYNS, A., and HUMPHRIES, C. Choline-induced pyridoxide deficiency in broiler chickens. Australian Vet. J. 43(9):346-348. Sept. 1967. 41.8 Au72
- 66750 SCOTT, M. L. Potentials of some unusual feedstuffs. Cornell Nutr. Conf. Feed Manufacturers. Proc. 1967:22-30. Ref. 389.79 C81  
For poultry.
- 66751 SERAFIN, J. A., and NESHEIM, M. C. The influence of diet on bile acid production and excretion in chicks. Cornell Nutr. Conf. Feed Manufacturers. Proc. 1967:146-150. 389.79 C81
- 66752 SMITH, E. B. An evaluation of soybean oil, menhaden oil and fish solubles in the diet of Beltsville Small White turkey hens. Diss. Abstr., Sect. B, 28(6):2497B. Dec. 1967. Z5055.U49D53
- 66753 SQUIBB, R. L. Effect of a dietary imbalance of lysine on protein metabolism in the chick. Poultry Sci. 47(1):199-204. Ref. Jan. 1968. 47.8 Am33P
- 66754 STORER, N. L., and NELSON, T. S. The effect of various aluminum compounds on chick performance. Poultry Sci. 47(1):244-247. Ref. Jan. 1968. 47.8 Am33P
- 66755 TAYLOR, R. D., and others. Alfalfa meal in poultry feeds; an economic evaluation using parametric linear programming. U. S. D. A. Agr. Econ. Rep. 130, 19 p. Jan. 1968. A281.9 Ag8A  
G. O. Kohler, K. H. Maddy, and R. V. Enochian, joint authors.
- 66756 THOMAS, C. H., and ALBRITTON, R. C. The effect of restricted feeding on the performance of different strains of commercial layers. Miss. Agr. Exp. Sta. Bull. 749, 8 p. Nov. 1967. 100 M69
- 66757 THOMPSON, J. N., and SCOTT, M. L. Selenium deficiency in chicks and quail. Cornell Nutr. Conf. Feed Manufacturers. Proc. 1967:130-136. Ref. 389.79 C81
- 66758 TONKINSON, L. V., and others. Production responses as affected by nutrient intake of laying hens. Poultry Sci. 47(1):32-38. Jan. 1968. 47.8 Am33P  
E. W. Gleaves, R. H. Thayer, J. L. Folks, and R. D. Morrison, joint authors.
- 66759 VANSCHOUBROEK, F., and VERMEERSCH, G. The influence of the addition of tylosin phosphate in broiler chicks rations. (Fl) Vlaams Diergeneesk. Tijdschr. 36(5):245-256. Ref. May 1967. 41.8 V84  
English summary.
- 66760 VENKATAKRISHNAN, R. Studies on poultry rations. Indian Vet. J. 44(7):603-606. July 1967. 41.8 In2
- 66761 WARNICK, R. E., and ANDERSON, J. O. Limiting essential amino acids in soybean meal for growing chickens and the effects of heat upon availability of the essential amino acids. Poultry Sci. 47(1):281-287. Ref. Jan. 1968. 47.8 Am33P
- 66762 WILDFEUER, I., and ACKER, L. The influencing of egg yolk color by the addition of carotenoids to the feed. (Ge) Z. Lebensmittel-Untersuchung - Forsch. 133(6):341-352. Ref. 1967. 384 Z39
- 66763 YOUNG, R. J. The nutrition of replacement pullets under cage rearing conditions. Cornell Nutr. Conf. Feed Manufacturers. Proc. 1967:61-66. Ref. 389.79 C81



Veterinary Medicine

- 66764 ADLAKHA, S. C. Role of *Pasteurella multocida* in infectious coryza of fowls. *Indian Vet. J.* 44(10):828-833. Ref. Oct.1967. 41.8 In2
- 66765 AECKERLEIN, W. Thrombocytes, eosinophile and basophile granulocytes in clinically healthy hens in the phase contrast microscope. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 80(16):315-317. Aug.15,1967. 41.8 B45  
English summary.
- 66766 AHMED, A. A. S., and REDA, I. M. Response of pigeons to eight strains of Newcastle disease virus. *Avian Dis.* 11(4):734-740. Ref. Nov.1967. 41.8 Av5
- 66767 ALLEN, D. W. Cation transport in duck erythrocytes. *Diss. Abstr., Sect. B*, 28(6):2594B. Dec.1967. Z5055.U49D53
- 66768 ARORA, K. L., and KOSIN, I. L. The response of the early chicken embryo to preincubation temperature as evidenced from its gross morphology and mitotic pattern. *Physiol. Zool.* 41(1):104-112. Ref. Jan.1968. 41.0 P56
- 66769 BANKIER, J. C. A glance at poultry disease problems. *Can. Who's Who Poultry Indus.* 1967:86-88. 225 C1694
- 66770 BEARD, C. W. Infectious bronchitis virus interference with Newcastle disease virus in monolayers of chicken kidney cells. *Avian Dis.* 11(3):399-406. Ref. Aug.1967. 41.8 Av5
- 66771 BENTON, W. J., COVER, M. S., and MELCHIOR, F. W. *Mycoplasma gallisepticum* in a commercial laryngotracheitis vaccine. *Avian Dis.* 11(3):426-429. Ref. Aug.1967. 41.8 Av5
- 66772 BENTON, W. J., and others. Physiocochemical properties of the infectious bursal agent (IBA). *Avian Dis.* 11(3):438-445. Ref. Aug.1967. 41.8 Av5  
M. S. Cover, J. K. Rosenberger, and R. S. Lake, joint authors.  
Assumed viral agent of Gumboro disease.
- 66773 BENTON, W. J., COVER, M. S., and ROSENBERGER, J. K. Studies on the transmission of the infectious bursal agent (IBA) of chickens. *Avian Dis.* 11(3):430-438. Ref. Aug.1967. 41.8 Av5  
Synonymous to Gumboro disease.
- 66774 BULLOCK, D. W., and NALBANDOV, A. V. Hormonal control of the hen's ovulation cycle. *J. Endocrinol.* 38(4):407-415. Ref. Aug.1967. 44.8 J8293
- 66775 BULOW, V. VON. In vitro methods of culture and identification of Rous sarcoma and poultry leucosis virus. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 80(14):275-276. Ref. July 15,1967. 41.8 B45  
English summary.
- 66776 BURTON, R. R., and SMITH, A. H. Blood and air volumes in the avian lung. *Poultry Sci.* 47(1):85-91. Ref. Jan.1968. 47.8 Am33P
- 66777 BURTON, R. R., SAHARA, R., and SMITH, A. H. The use of human radio-iodinated ( $I^{131}$ ) serum albumin in determining whole body blood volumes in the chicken. *Poultry Sci.* 46(6):1395-1397. Nov.1967. 47.8 Am33P
- 66778 CAIN, J. R., ABBOTT, U. K., and ROGALLO, V. L. Heart rate of the developing chick embryo. *Soc. Exp. Biol. Med. Proc.* 126(2):507-510. Ref. Nov.1967. 44.9 S01
- 66779 CANE, A. K., and SPEARMAN, R. I. C. A histochemical study of keratinization in the domestic fowl (*Gallus gallus*). *J. Zool.* 153(3):337-352. Ref. Nov.1967. 41.0 L84P
- 66780 CARDIN, D. W. Metabolism of methionine by certain tissues of the intact chick. *Diss. Abstr., Sect. B*, 28(3):747B-748B. Sept.1967. Z5055.U49D53
- 66781 CHERIAN, A. G., and CIPERA, J. D. Effects of parathyroidectomy and of administration of parathormone on serum calcium in immature chicks. *Poultry Sci.* 47(1):76-82. Ref. Jan. 1968. 47.8 Am33P
- 66782 CHOMIAK, T. W., and others. Marek's disease. I. Propagation of the Connecticut A (Conn-A) isolate in chicks. *Avian Dis.* 11(4):646-653. Ref. Nov.1967. 41.8 Av5  
R. E. Luginbuhl, C. F. Helmboldt, and S. D. Kottaridis, joint authors.
- 66783 CHOUDHARY, P. G., and MANJREKAR, S. L. Preliminary observations on biological activity of pure aflatoxin B<sub>1</sub> in chick embryos. *Indian Vet. J.* 44(7):543-548. July 1967. 41.8 In2
- 66784 COOKE, P. H. An ultrastructural study of developing aortas from atherosclerosis - susceptible White Carneau and atherosclerosis-resistant Show Racer pigeons. *Diss. Abstr., Sect. B*, 28(6):2663B. Dec.1967. Z5055.U49D53
- 66785 COPP, D. H., COCKCROFT, D. W., and KUEH, Y. Calcitonin from ultimobranchial glands of dogfish and chickens. *Science* 158(3803):924-925. Ref. Nov.17,1967. 47.0 Sci2
- 66786 DANIEL, M. D. The use of plaque morphology in the study of Newcastle disease virus. *Diss. Abstr., Sect. B*, 28(3):779B. Sept.1967. Z5055.U49D53
- 66787 DAS, L. N., and BISWAL, G. Microanatomy of intestine, pancreas and liver of the domestic duck (*Anas boschas*). *Indian Vet. J.* 44(9):763-766. Sept.1967. 41.8 In2
- 66788 DAVIS, R. H., and MCGOWAN, L. Chick comb weight and spontaneous movement. *Life Sci.* 6(18,pt.2):2013-2016. Sept.15,1967. 44.2 L62
- 66789 DENOVSKI, D., and SHERKOV, SH. Effect of blood extract on the resistance of chicks to coccidiosis. (Bu) *Vet. Med. Nauk.* 4(3):73-79. Ref. 1967. 41.8 V6468  
English summary.
- 66790 DHOAILLY, D. Analysis of factors of specific differentiation of neoptile feathers in ducks and chicks. (Fr) *J. Embryol. Exp. Morphol.* 18(3):389-400. Dec.1967. 44.2 J829  
English summary.
- 66791 DOMERMUTH, C. H., GROSS, W. B., and DUBOSE, R. T. *Mycoplasma salpingitis* of chickens and turkeys. *Avian Dis.* 11(3):393-398. Aug.1967. 41.8 Av5
- 66792 DOUGHERTY, R. M., DI STEFANO, H. S., and ROTH, F. K. Virus particles and viral antigens in chicken tissues free of infectious avian leukosis virus. *Nat. Acad. Sci. Proc.* 58(3):808-817. Ref. Sept.1967. 500 N21P
- 66793 DOVADOLA, E. General prophylactic measures for breeding turkeys. (It) *Avicoltura* 37(1):87-92. Jan.1968. 47.8 R523  
English summary, p.58.  
Disease prevention.
- 66794 DUBIENSKA, W., and LINOWSKA-MARCHOKKA, H. Parasites of the alimentary tract of broiler guinea fowl (*Numida meleagris*) in Zielona Gora Province. (Pol) *Med. Weter.* 23(11):651. Nov.1967. 41.8 M463
- 66795 EDGAR, S. A., and FLANAGAN, C. Coccidiostatic effects of buquinolate in poultry. *Poultry Sci.* 47(1):95-104. Ref. Jan.1968. 47.8 Am33P
- 66796 EIDSON, C. S. Induction of acute Marek's leukosis with the beetle *Alphitobius diaperinus*. *Diss. Abstr., Sect. B*, 28(6):2252B. Dec.1967. Z5055.U49D53  
Disease transmission to chicks.
- 66797 ENNEKING, O. Therapy experiments with the new nitrofurantoin HB-115 (Nifurpazine) under practice conditions. (Ge) *Tierarztl. Umsch.* 22(7):372,375-378. July 1,1967. 41.8 T445  
Tested in various infectious diseases of poultry.
- 66798 EWING, S. A., WEST, J. L., and MALLE, A. L. Tetrameres sp. (Nematoda: Spiruridae) found in pigeons (*Columba livia*) in Kansas and Oklahoma. *Avian Dis.* 11(3):407-412. Ref. Aug. 1967. 41.8 Av5
- 66799 FADDOUL, G. P., FELLOWS, G. W., and BAIRD, J. Pasteurellosis in wild birds in Massachusetts. *Avian Dis.* 11(3):413-418. Ref. Aug.1967. 41.8 Av5  
Includes domestic species; epizootic study.

- 66800 FOSTER, W. H. An investigation into the use of antibiotics in broiler production. Northern Ireland Rec. Agr. Res. 16(1):1-6. Ref. Aug. 1967. 10 N81R  
Chiefly effects of tylosin, spiramycin and erythromycin on meat production.
- 66801 FRENCH, E. L., ST. GEORGE, T. D., and PERCY, J. J. Infection of chicks with recently isolated Newcastle disease viruses of low virulence. Australian Vet. J. 43(9):404-411. Ref. Sept. 1967. 41.8 Au72  
Includes discussion.
- 66802 GALVANO, G. Relationship between eggs' weight and quality and layers' weight and age. (It) Avicoltura 37(1):71-82. Ref. Jan. 1968. 47.8 R523  
English summary, p.58.
- 66803 GARBER, B. Aggregation in vivo of dissociated cells. II. Role of developmental age in tissue reconstruction. J. Exp. Zool. 164(3):339-349. Ref. Apr. 1967. 410 J825  
In chick embryos.
- 66804 GARDINER, M. R. Clostridial infections in poultry in western Australia. Australian Vet. J. 43(9):359-360. Sept. 1967. 41.8 Au72
- 66805 GARTHSIDE, MRS. Medication in intensive management of poultry. Milling 149(1):6,10. July 7, 1967. 298.8 M622  
Use of antibiotics.
- 66806 GASPARI, J. M., and STEVENS, R. W. C. Preliminary investigations on the allotypic specificity of gamma-globulins in turkeys. Immunogenet. Lett. 5(3):148-149. Ref. Jan. 1968. 443.8 Im6
- 66807 GAUTAM, O. P. Detection of erythrocyte bound globulin in Plasmodium gallinaceum infected chickens. Diss. Abstr., Sect. B, 28(3):750B-751B. Sept. 1967. Z5055.U49D53
- 66808 GEE, G. F. The influence of dehydration upon body fluids of domestic fowl. Diss. Abstr., Sect. A, 28(6):2597B. Dec. 1967. Z5055.U49D53
- 66809 GERLACH, H. Diagnosis of pathogenic poultry mycoplasmas. (Ge) Berliner Munchener Tierarztl. Wochenschr. 80(15):297-300. Aug. 1, 1967. 41.8 B45
- 66810 GERRY, R. W. Manure production by broilers. Poultry Sci. 47(1):339-340. Jan. 1968. 47.8 Am33P
- 66811 GRASS, E. E., and others. An epornithological investigation of a suspected vaccine-borne disease outbreak. Avian Dis. 11(3):459-467, map. Ref. Aug. 1967. 41.8 Av5  
J. I. Moulthrop, J. A. Newman, M. C. Kumar, and B. S. Pomeroy, joint authors.  
Of infectious sinusitis in turkeys due to fowl pox vaccine contaminated with Mycoplasma gallisepticum.
- 66812 HAFFEN, K., and CEDARD, L. Metabolism of dehydroepiandrosterone and radioactive testosterone by the intersexual male gonads of chick embryo, cultivated in vitro. (Fr) Acad. Sci. Compt. Rend. Ser. D, 264(15):1923-1926. Apr. 10, 1967. 505 P21
- 66813 HALL, W. T. K., ROSENFELD, L. E., and SIMMONS, G. C. Studies on the serological response and pathogenicity to chickens of a Queensland isolate of Newcastle disease virus. Australian Vet. J. 43(9):400-404, map. Sept. 1967. 41.8 Au72
- 66814 HANSON, R. P., SPALATIN, J., and DICKINSON, E. M. Criteria for determining the validity of a virus isolation. Avian Dis. 11(3):508-514. Ref. Aug. 1967. 41.8 Av5
- 66815 HARRISON, P. C. Variation in physiological rate functions of the domestic fowl subjected to abrupt changes in environmental temperature. Diss. Abstr., Sect. B, 28(3):1138B-1139B. Sept. 1967. Z5055.U49D53
- 66816 HERCEG, M., MARZAN, B., and KRALJ, M. A contribution to epizootiology of the leukosis complex in birds. II. Pathologicoanatomic and histologic findings in the acute form of Marek's disease. (Se) Vet. Arh. 37(3/4):59-65. 1967. 41.8 V6416  
English summary.
- 66817 HOFSTAD, M. S. Immunity following aerosol exposure to high-embryo-passage avian infectious bronchitis virus. Avian Dis. 11(3):452-458. Aug. 1967. 41.8 Av5
- 66818 HOLMES, R. G. The prevention and control of poultry diseases. 2. Great Brit. Min. Agr. Fish. Food. Agr. 74(12):581-584. Dec. 1967. 10 G79J
- 66819 HOSODA, T., and others. Physiology of egg production in the fowl. II. Proteinase activity in the membrane of ovarian follicle and the liver of hen with atretic ovary. (Ja) Jap. Poultry Sci. 5(1):21-27. Jan. 1968. 47.8 N57  
J. Mori, T. Abe, and T. Oishi, joint authors. English summary.
- 66820 HURWITZ, S. Calcium exchange in plasma of the fowl. Biochim. Biophys. Acta 156(2):389-393. Mar. 11, 1968. 381 B522
- 66821 HURWITZ, S., and BAR, A. Calcium metabolism of hens secreting heavy or light egg shells. Poultry Sci. 46(6):1522-1527. Ref. Nov. 1967. 47.8 Am33P
- 66822 JACOTOT, H., and VALLEE, A. Experimental immunization against fowl pest with inactivated virus. (Fr) Acad. Vet. France. Bull. 40(7):333-343. July 1967. 41.9 R24
- 66823 JERSTAD, A. C. Transmission of Mycoplasma gallisepticum in turkeys. Avian Dis. 11(4):546-555. Ref. Nov. 1967. 41.8 Av5  
Experiment with infectious sinusitis.
- 66824 KABAT, D. Protein synthesis during chicken erythrocyte differentiation. Studies of ordered DNA protein fibers. Diss. Abstr., Sect. B, 28(5):1827B. Nov. 1967. Z5055.U49D53
- 66825 KAKINI, A. S., and SAGDEO, L. R. Phenotypic intersexuality in fowls (Gallus domesticus L.) due to gonadal hypoplasia. Indian Vet. J. 44(10):861-868. Ref. Oct. 1967. 41.8 In2
- 66826 KIRCHHOFF, H. Research into the effectiveness of disinfectants on viruses on surfaces. (Ge) Berliner Munchener Tierarztl. Wochenschr. 81(3):54-57. Ref. Feb. 1, 1968. 41.8 B45  
English summary.  
Tested on Newcastle disease virus.
- 66827 KNISLEY, J. O., and HERMAN, C. M. Haemoproteus, a blood parasite, in domestic pigeons and mourning doves in Maryland. Chesapeake Sci. 8(3):200-202. Ref. Sept. 1967. 409.6 C42
- 66828 KONDRAT'EV, I. A., and BEZUGLAYA, V. A. Rendering chicken carcasses harmless in the case of Mycobacterium tuberculosis avium infection. (Rus) Veterinariya 10:109-110. Oct. 1967. 41.8 V6426
- 66829 KOSOVAC, A., and others. Study of the diagnostic value and the efficiency of quick blood test in the control and eradication of fowl typhoid. II. (Se) Vet. Glas. 21(7):567-572. Ref. 1967. 41.8 J93  
P. Markovic, B. Nikolic, and M. Jovanovic, joint authors.  
English summary.
- 66830 KOTTARIDIS, S. D., DUNLOP, W. R., and SMITH, S. C. Research note: tissue-culture-propagated Mycoplasma [gallisepticum] for the control of chronic respiratory disease. Avian Dis. 11(4):528-531. Nov. 1967. 41.8 Av5
- 66831 KOTULA, A. W., and HELBACKA, N. V. Chicken blood volume; the hematocrit and comparison of 1131 and Evans Blue methods. Poultry Sci. 47(1):26-31. Ref. Jan. 1968. 47.8 Am33P
- 66832 KUTTY, P. T. G., and D'SOUZA, B. A. Evaluation of the efficacy of methyridine, piperazine citrate and a worm pill for the elimination of Ascaridia galli infection in fowls in intensive confined system. Indian Vet. J. 44(9):751-759. Ref. Sept. 1967. 41.8 In2
- 66833 LANGLOIS, A. J., and BEARD, J. W. Converted-cell focus formation in culture by strain MC29 avian leukosis virus. Soc. Exp. Biol. Med. Proc. 126(3):718-722. Ref. Dec. 1967. 442.9 S01



- 66834 LEIBETSEDER, J., and DUFTSCHMID, K. Activation analysis of selenium in organs of vitamin E deficient chickens. (Ge) Berliner Munchener Tierarztl. Wochenschr. 80(16):317-319. Ref. Aug.15,1967. 41.8 B45 English summary.
- 66835 LERNER, J. Characterization of a methionine transport system in the intestine of the chicken. Diss. Abstr., Sect. B, 28(6):2277B-2278B. Dec. 1967. Z5055.U49D53
- 66836 LUND, E. E. Response of four breeds of chickens and one breed of turkeys to experimental Heterakis [gallinarum] and Histomonas [meleagridis] infections. Avian Dis. 11(3):491-502. Ref. Aug.1967. 41.8 Av5
- 66837 LUTHGEN, W., and others. The infectious disease of the respiratory organs in chicken. (Ge) Deut. Tierarztl. Wochenschr. 74(22):582-586. Ref. Nov.15,1967. 41.8 D482  
G. Wachendorfer, H. Lucas, and U. Bernau, joint authors.  
English summary.
- 66838 MACIEIRA-COELHO, A., and PONTEN, J. Induction of the division cycle in resting stage human fibroblasts after RSV [Rous sarcoma virus] infection. Biochem. Biophys. Res. Commun. 29(3):316-321. Ref. Nov.17,1967. 442.8 B5236
- 66839 MADDEN, D. L., HENDERSON, W. H., and MOSES, H. E. Case report: isolation of Mycoplasma gallisepticum from Bobwhite quail (Colinus virginianus). Avian Dis. 11(3):378-380. Aug.1967. 41.8 Av5
- 66840 MADIEDO-MENDEZ, G. Metabolism of radioactive xanthophyll in the chick. Diss. Abstr., Sect. B, 28(3):788B. Sept.1967. Z5055.U49D53
- 66841 MAHN, S., and BLACKWELL, R. L. Debeaking in Japanese quail. World's Poultry Sci. J. 24(1):58-60. Jan./Mar.1968. 47.8 W89
- 66842 MALLAVIA, L. P. Incorporation of radioactive amino acids by Coxiella burnetii and its host, the chick embryo. Diss. Abstr., Sect. B, 28(3):780B-781B. Sept.1967. Z5055.U49D53
- 66843 MALLINSON, E. T. Diagnoses and control. Mod. Game Breeding 3(11):21-22,42. Sept. 1967. 410 M722  
Poultry diagnostic services and disease control in Pennsylvania.
- 66844 MANSO, F., FAVRET, E. A., and LIFSCHITZ, E. A preliminary report on the occurrence of natural iso-agglutinins in fowl. Immunogenet. Lett. 5(3):132-133. Jan.1968. 443.8 Im6
- 66845 MCMARTIN, D. A. Preliminary investigation of methods for evaluating inactivated vaccines for infectious bronchitis virus. Brit. Vet. J. 124(1):36-42. Ref. Jan.1968. 41.8 V643
- 66846 MCNEIL, R., and MARTINEZ MEDINA, A. Bilateral asymmetry of the limb bones of the pigeon Columba livia and the parrot Amazona amazonica. (Fr) Rev. Can. Biol. 26(4):273-286. Ref. Dec.1967. 42.8 R325  
English summary.
- 66847 MISHRA, G. S., and PANDE, B. P. On the metacercaria of Prosthogonimus putschkowskii in Sympetrum decoloratum (Odonata: Insecta) with observations on its development in chicks. Indian J. Vet. Sci. Anim. Husb. 37(3):156-164. Ref. Sept.1967. 41.8 In22
- 66848 MOORHEAD, P. D., CROSS, R. F., and HENDERSON, W. Pathological manifestations of experimental infectious synovitis and staphylococcosis in chickens. Avian Dis. 11(3):354-364. Ref. Aug.1967. 41.8 Av5
- 66849 MULAY, S., CARTER, A. L., and COMMON, R. H. Free and conjugated steroid estrogen fractions of hens' urine. Poultry Sci. 47(1):67-76. Ref. Jan.1968. 47.8 Am33P
- 66850 NAGI, M. S., and VERMA, J. D. An outbreak of listeriosis in chickens. Indian Vet. J. 44(7):539-543. Ref. July 1967. 41.8 In2
- 66851 NALBANDOV, A. V., and BULLOCK, D. W. Releasing factors and LH in the plasma of intact and hypophysectomized chickens. Notingham. Univ. Easter Sch. Agr. Sci. Proc. 13th Easter Sch.:243-253. 1966, pub.1967. S217.E2  
Review of the literature.  
Includes discussion.
- 66852 NAYAK, B. C., MISRA, B., and BISWAL, G. Histopathology of vegetative endocarditis in the chicken. Indian Vet. J. 44(10):837-841. Oct. 1967. 41.8 In2
- 66853 NIESAR, K. H., and KRUMBACH, J. In vivo measurement of activity of metabolic cycles in laying hens with varying productivity. (Ge) Z. Tierphysiol. Tierernahr. Futtermittelkunde 23(1):17-20. Ref. Sept.1967. 389.78 Z3  
English summary.
- 66854 ODENING, K. Definitive host specificity and immunity phenomenon with Parastrigea robusta (Trematoda). (Ge) Monatsh. Veterinarmed. 22(15):622-623. Aug.1,1967. 41.8 M742  
English summary.  
Intestinal fluke of ducks, turkeys, and poultry.
- 66855 PASCUCCI, S., PRATI, A., and LUCCARONI, G. The incidence of different forms of coccidiosis in chickens. (It) Nuova Vet. 43(4):488-494. Ref. July/Aug.1967. 41.8 N922  
English summary.
- 66856 PEREGUDOV, E. A. The influence of acid-fast mycobacteria of peat on the course of tuberculosis infection in chickens. (Rus) Veterinariya 9:64-65. Sept.1967. 41.8 V6426
- 66857 PETERS, G. The histological changes of Gumboro disease. (Ge) Berliner Munchener Tierarztl. Wochenschr. 80(20):394-396. Oct.15,1967. 41.8 B45  
English summary.
- 66858 PRASAD, N. K., and MUKHERJEE, D. B. Studies on the effect of Terramycin egg formula (Pfizer) on egg production with vitamin A deficient ration during period of stress. Indian Vet. J. 44(9):794-800. Sept.1967. 41.8 In2
- 66859 RADCHUK, N. A. Streptococcosis of chickens. (Rus) Veterinaria 10:47-48. Oct.1967. 41.8 V6426
- 66860 RAGGI, L. G., ASMAR, J., and LEE, G. G. Coexistence of infectious bronchitis and infectious laryngotracheitis. Avian Dis. 11(3):419-426. Ref. Aug.1967. 41.8 Av5  
Potency of the viruses and preparation of inocula.
- 66861 RAO, P. R., and others. Neoplasms of ducks in Andhra Pradesh; a report of two cases of extra hepatic tumours. Indian Vet. J. 44(9):745-747. Sept.1967. 41.8 In2  
K. J. Christopher, J. Venkatanarayana, and G. A. Sastry, joint authors.
- 66862 RASHEV, H. Experiments with the treatment of eggs, experimentally infected with Mycoplasma gallisepticum and Salmonella gallinarum-pullorum. (Bu) Vet. Med. Nauk. 4(3):67-72. 1967. 41.8 V6468  
English summary.  
With antibiotics.
- 66863 RATULD, Y. DE, and WERNER, G. H. Latent virus in cell cultures of quail embryo, pathogenic to cells, causing tumor in quail and chickens; its relationship with Rous sarcoma. (Fr) Inst. Pasteur. Ann. 113(5):749-755. Nov.1967. 448.3 An75  
English summary.
- 66864 RAVAIOLI, L. Immunological tolerance for the Newcastle virus in chick embryos inoculated with inactivated nonpathogenic homologous virus. (It) Nuova Vet. 43(4):451-458. Ref. July/Aug.1967. 41.8 N922  
English summary.
- 66865 RINEHART, K. E. The influence of potassium on protein synthesis and bone calcification in the chicks. Diss. Abstr., Sect. B, 28(6):2204B. Dec.1967. Z5055.U49D53

- 66866 ROUSE, T. C. The effect of neonatal bursectomy, thymectomy, and splenectomy on resistance to cecal coccidiosis (*Eimeria tenella*) in White Leghorn cockerels. Diss. Abstr., Sect. B, 28(3):1286B. Sept.1967. Z5055.U49D53
- 66867 ROWLAND, L. O., and others. Breaking strength of chick bones as an indication of dietary calcium and phosphorus adequacy. Soc. Exp. Biol. Med. Proc. 126(2):399-401. Nov. 1967. 442.9 Sol  
R. H. Harms, H. R. Wilson, I. J. Ross, and J. L. Fry, joint authors.
- 66868 SALMAN, A. J., and others. Changes in pancreatic enzymes as a function of diet in the chick. Soc. Exp. Biol. Med. Proc. 126(3):694-698. Ref. Dec.1967. 442.9 Sol  
G. Dal Borgo, M. H. Pubols, and J. McGinnis, joint authors.  
Soybean meal diet.
- 66869 SAWYERS, W. A. Chromatophores in the head region of the domestic turkey and related behavioral displays. Diss. Abstr., Sect. B, 28(3):820B-821B. Sept.1967. Z5055.U49D53
- 66870 SCHNEIDER, J. Abilities of differentiation of infections with *Eimeria acervulina* and *Eimeria mivati* in poultry. (Ge) Berliner Munchener Tierarztl. Wochenschr. 80(14):273-275. Ref. July 15, 1967. 41.8 B45  
English summary.
- 66871 SCHOLTYSEK, S., and TAWFIK, D. L. E. S. Changes in the carcass quality of broilers in relation to age and sex. (Ge) Fleischwirtschaft 48(1):56-59. Jan.1968. 280.38 F62  
English summary.
- 66872 SCHREIBER, G. The knowledge of general principles about drug action is a presupposition in poultry. (Ge) Berliner Munchener Tierarztl. Wochenschr. 80(21):415-418. Nov.1, 1967. 41.8 B45  
English summary.
- 66873 SHARMA, L. D., BAHGA, H. S., and SONI, B. K. Anthelmintic screening of three indigenous medicinal plants against *Ascaridia galli* in poultry. Indian Vet. J. 44(8):665-669. Aug. 1967. 41.8 In2  
Vernonia anthelmintica, Cordia dichotoma, and Terminalia chebula.
- 66874 SHERRY, W. E., and NICOLL, C. S. RNA and protein synthesis in the response of pigeon crop-sac to prolactin. Soc. Exp. Biol. Med. Proc. 126(3):824-829. Ref. Dec.1967. 442.9 Sol
- 66875 SIEGMANN, O. Treatment problems of coccidiosis. (Ge) Berliner Munchener Tierarztl. Wochenschr. 80(17):339-340. Ref. Sept.1, 1967. 41.8 B45  
English summary.  
Poultry.
- 66876 SINGH, R. P. Incidence of *Salmonella* spp. in poultry farms and hatcheries and their pathogenicity. Indian Vet. J. 44(10):833-837. Oct.1967. 41.8 In2
- 66877 SINHA, K. N., ANDERSON, R. R., and TURNER, C. W. Effect of 1-methyl-2-mercaptoimidazole (methimazole-Tapazole) on DNA content of the chicken thyroid gland. Soc. Exp. Biol. Med. Proc. 126(2):428-431. Nov.1967. 442.9 Sol
- 66878 SPIRIDONOV, F. M., and others. Early serological diagnosis of diseases in young chickens. (Rus) Veterinaria 10:45-47. Oct.1967. 41.8 V6426  
V. I. Bogolepov, S. A. Vorobiev, and A. F. Petrova, joint authors.  
Especially pullorum disease.
- 66879 STOIMENOV, K. The effect of phenothiazine on the fertility of *Heterakis gallinarum*. (Bul) Vet. Med. Nauk. 4(3):81-87. 1967. 41.8 V6468  
English summary.
- 66880 TAROCCO, C. Diseases of guinea fowl. (It) Riv. Zootec. 40(9):486-495. (Cont.) Ref. Sept. 1967. 49 R52
- 66881 TRIPATHY, S. B., KENZY, S. G., and MATHEY, W. J. Effects of vitamin-A deficiency and high-level chlortetracycline on experimental candidiasis of turkeys. Avian Dis. 11(3):327-335. Ref. Aug.1967. 41.8 Av5
- 66882 TRIPATHY, S. B., NAYAK, N. C., and MOHANTY, K. M. Observation of mortality in Rhode Island Red Pullets suspected to be due to mycotoxicosis. Indian Vet. J. 44(9):813-814. Sept.1967. 41.8 In2
- 66883 TRUSCOTT, R. B., and INNISS, W. E. Endotoxins studies in chicks. Avian Dis. 11(4):595-601. Ref. Nov.1967. 41.8 Av5
- 66884 VELICHKIN, P. A., and SHISHKOV, V. E. Sanitation of poultry farms in chicken ascariidosis and heterakidosis. (Rus) Veterinaria 10:59. Oct.1967. 41.8 V6426
- 66885 VOETEN, A. C., BRUS, D. H. J., and JAARTSVELD, F. H. J. The detection of *Mycoplasma gallisepticum* antibodies in hatching eggs. (Du) Tijdschr. Diergeneesk. 93(2):83-88. Jan.15, 1968. 41.8 T431  
English summary.
- 66886 WAINWRIGHT, S. D., and WAINWRIGHT, L. K. Regulation of the initiation of hemoglobin synthesis in the blood island cells of chick embryos. IV. Effects of some inhibitors of protein synthesis. Can. J. Biochem. 45(10):1648-1651. Ref. Oct.1967. 470 C16E
- 66887 WAINWRIGHT, S. D., and WAINWRIGHT, L. K. Regulation of the initiation of hemoglobin synthesis in the blood island cells of chick embryos. V. Qualitative studies of the effects of proflavine. Can. J. Biochem. 45(10):1483-1493. Ref. Oct.1967. 470 C16E
- 66888 WEIS, J. Observations in salmonellosis in hens. (Ge) Berliner Munchener Tierarztl. Wochenschr. 80(18):360-362. Ref. Sept.15, 1967. 41.8 B45  
English summary.
- 66889 WENGER, D. M., and MCMURRAY, B. L. Abbreviated *Salmonella* screening procedures with Pathotec urease and lysine decarboxylase test papers. Avian Dis. 11(3):503-508. Aug. 1967. 41.8 Av5  
Chiefly in poultry, poultry products and feed.
- 66890 WHITMORE, J. H. The effect of certain histomonastatic compounds on growth and reproduction in turkeys and their efficacy with vitamin A against histomoniasis. Diss. Abstr., Sect. B, 2201B. Dec.1967. Z5055.U49D53
- 66891 WILLEMART, J. P., VERGER, M., and ALBERGE, F. An atypical encephalomyelitis of the domestic fowl. (Fr) Acad. Vet. France. Bull. 143(10):953-964. Oct.1967. 41.8 R24  
English summary.
- 66892 WILLIAMS, J. E., and WHITEMORE, A. D. A method for studying microbial penetration through the outer structures of the avian egg. Avian Dis. 11(3):467-490. Ref. Aug.1967. 41.8 Av5  
Specifically the germs of *Pseudomonas*.
- 66893 WILLIAMS, M. C., and BINNS, W. Experimental photosensitization by spring parsley (*Cymopterus watsonii*) in chicks. Amer. J. Vet. Res. 29(1):111-115. Ref. Jan.1968. 41.8 Am3A
- 66894 WINTERFIELD, R. W. Immunity response from an inactivated infectious bronchitis vaccine. Avian Dis. 11(3):446-451. Aug.1967. 41.8 Av5
- 66895 WOODWARD, W. D. Controls of xanthine dehydrogenase activities in chick tissues. Diss. Abstr., Sect. B, 28(3):791B. Sept.1967. Z5055.U49D53

#### Miscellaneous

- 66896 ALEANDRI, M. On the raising of hens in cages; some technical-productive and hygienic-sanitary observations. (It) Nuova Vet. 43(4):471-479. Ref. July/Aug.1967. 41.8 N922  
English summary.



- 66897 APOSTOLOV, S., and PAVLOV, V. Irradiation of eggs before hatching. (Bu) Zhivotnovudstvo 21(7):16-18. July 1967. 49 Z62  
With ultraviolet rays.
- 66898 BAL'OZOV, D. Raising broilers in Bulgarian cooperative farms. (Bu) Zhivotnovudstvo 21(11):28-31. Nov.1967. 49 Z62
- 66899 BECKER, W. A., SPENCER, J. V., and SWARTWOOD, J. L. Carbon dioxide during storage of chicken and turkey hatching eggs. Poultry Sci. 47(1):251-258. Ref. Jan.1968. 47.8 Am33P
- 66900 BLOUGH, D. S. Stimulus generalization as signal detection in pigeons. Science 158(3803): 940-941. Nov.17,1967. 470 Sci2
- 66901 CASTAING, J. Limiting factors in the production of fat goose livers and means of development. (Fr) Rev. Elevage 23(2):133-134,137-138,141. Feb.1968. 49 B462
- 66902 DEATON, J. W., REECE, F. N., and VARDAMAN, T. H. The effect of temperature and density on broiler performance. Poultry Sci. 47(1): 293-300. Ref. Jan.1968. 47.8 Am33P
- 66903 ECHTERLING, C. J. Housing, selection and feeding of pullets for egg production. New Zeal. J. Agr. 114(6):82-83,85,87. June 1967. 23 N48J
- 66904 ECHTERLING, C. J. Many factors involved in successful egg production. New Zeal. J. Agr. 115(1):96,97,99. July 1967. 23 N48J
- 66905 FOY, R. Japanese egg farm uses outdoor cages. Poultry Internat. 7(2):44,46. Feb.1968. 47.8 P8698
- 66906 GERRIETS, E. Preventive measures for hygiene in poultry fattening units and poultry slaughterhouses. (Ge) Fleischwirtschaft 47(9): 949-954. Sept.1967. 280.38 F62  
English summary.
- 66907 HAMM, D. Effective poultry house sanitation. Clemson Univ. Ext. Circ. 507,18 p. Nov.1967. 275.29 So8E
- 66908 HEJJA, S. Technology of goose rearing. (Hu) Magyar Mezogazdasag 23(9):16-17. Feb.28, 1968. 19 M27
- 66909 HERBERT, J. Is there really a litter crisis? Poultry Meat 5(3):16,18,23. Mar.1968. 47.8 P8656
- 66910 INDIANA STATE POULTRY ASSOCIATION. 1968 Indiana Poultry Blue Book and buyer's guide. Lafayette, 1968. 68 p. 47.9 In2
- 66911 JAAP, R. G. Sight sexing broiler chicks. Ohio Rep. Res. Develop. Biol. Agr. Home Econ. 53 (1):14-15. Jan./Feb.1968. 100 Oh3S
- 66912 MACLAURY, D. W., and INSKO, W. M. Relation of pre-incubation factors and post-hatching performance to length of incubation period. 1. Effects of egg weight and storage time on length of incubation period. Poultry Sci. 47(1):305-311. Ref. Jan.1968. 47.8 Am33P
- 66913 MACLAURY, D. W., and INSKO, W. M. Relation of pre-incubation factors and post-hatching performance to length of incubation period. 2. Relation of length of incubation period to post-hatching performance. Poultry Sci. 47(1):330-336. Ref. Jan.1968. 47.8 Am33P
- 66914 MCARDLE, A. A. A talk to the breeders on the subject of deep litter. Indian Poultry Gaz. 51 (2):5-11. July 1967. 47.8 In22
- 66915 MORGAN, W., and CARLSON, C. W. Proposed measure of performance efficiency in laying hens. Poultry Sci. 47(1):22-26. Ref. Jan.1968. 47.8 Am33P
- 66916 NAGY, E. Closed area rearing of partridge. (Hu) Erdesz. Kutatasok 63(1/3):315-322. 1967. 99.9 Er24  
German summary.
- 66917 NESTOR, K. E., and BROWN, K. I. How light intensity affects egg production in turkeys. Ohio Rep. Res. Develop. Biol. Agr. Home Econ. 53(1):11. Jan./Feb.1968. 100 Oh3S
- 66918 OPPENHEIM, R. W. Color preferences in the pecking response of newly-hatched ducks (Anas platyrhynchos). Diss. Abstr., Sect. B, 28(3):1233B-1234B. Sept.1967. 470 Sci2  
Z5055.U49D53
- 66919 PHELPS, A. For litter reared replacements; four techniques show pullets how to perch. Poultry Internat. 7(2):22-25,28. Feb.1968. 47.8 P8698
- 66920 PRINCE, R. P., and others. Effect of environmental temperature on healthy chicks and chicks inoculated with infectious bronchitis virus. Poultry Sci. 46(5):1098-1103. Sept. 1967. 47.8 Am33P  
J. H. Whitaker, R. E. Luginbuhl, and L. D. Matterson, joint authors.
- 66921 SCHULER, G. A., and ESSARY, E. O. What constitutes an effective student seminar. Poultry Sci. 47(1):259-263. Ref. Jan.1968. 47.8 Am33P
- 66922 SIEGEL, P. B., and others. Incubation period of chickens selected bidirectionally for juvenile body weight. Poultry Sci. 47(1):105-107. Ref. Jan.1968. 47.8 Am33P  
J. W. Coleman, H. B. Graves, and R. E. Phillips, joint authors.
- 66923 TSARIKOV, N., and others. Electrical stunning of poultry, before slaughtering. (Rus) Myasnaya Indus. SSSR. 1:18-20. Ref. Jan.1968. 50.8 M58  
I. Smolyuk, I. Rukavishnikova, and I. Efimtsev, joint authors.
- 66924 U. S. AGRICULTURAL RESEARCH SERV. ANIMAL HUSBANDRY RESEARCH DIV. Hatcheries and dealers participating in the National Poultry Improvement Plan. U. S. Agr. Res. Serv. ARS 44-6, rev., 56 p. Feb.1968. A49.9 R31A
- 66925 WINN, P. N., and GODFREY, E. F. The effect of temperature and moisture on broiler performance. Md. Agr. Exp. Sta. Bull. A-153, 26 p. July 1967. 100 M36S

## RABBITS

### Breeds and Breeding

- 66926 BEDFORD, J. M. The influence of the uterine environment upon rabbit spermatozoa. Nottingham. Univ. Easter Sch. Agr. Sci. Proc. 13th Easter Sch.:478-499. 1966, pub. 1967. S217.E2  
Review of the literature.  
Includes discussion.
- 66927 BETTS, H. J. Californian fur. Amer. Rabbit J. 38(1):9. Jan.1968. 40.28 Am3
- 66928 GRUHN, R. Problems of meat rabbit breeding. (Ge) Tierzuchter 20(3):74-76. Feb.5,1968. 49 T445
- 66929 SEMAKOV, V. G., and BABICHEVA, L. YA. Effect of the secretions of ovary, uterus and some other biological liquids on spermatozoa of mammals. (Rus) Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina. Dokl. 6:30-33. Ref. June 1967. 20 Ak1  
Rabbits.
- 66930 SOKOLOVSKAYA, I. I., OIVADIS, R. N., and BABICHEVA, L. YA. The morphology and eosinophilia of spermatozooids in sexual ducts of females. (Rus) Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina. Dokl. 1:33-36. Jan.1968. 20 Ak1  
Rabbits.

### Feeds and Feeding

- 66931 MARTIN, E. A. The raising of rabbits. (Fr) Rev. Elevage 23(1):123-124,127-128. Jan.1968. 49 B462  
Chiefly feeding.
- 66932 CHAPIN, R. E., and SMITH, S. E. High phosphorus diets fed to growing rabbits. Cornell Vet. 57(3):492-500. Ref. July 1967. 41.8 C81

### Veterinary Medicine

- 66933 ASOFSKY, R., and SMALL, P. A. Colostral immunoglobulin-A: synthesis in vitro of T-chain by rabbit mammary gland. Science 158 (3803):932-933. Nov.17,1967. 470 Sci2

- 66934 **CAPOALE, G.** Observations on the oncolytic action of Newcastle virus. (It) *Nuova Vet.* 43 (4):436-443. Ref. July/Aug.1967. 41.8 N922  
English summary.  
Against rabbit tumors.
- 66935 **CHAPIN, R. E., and SMITH, S. E.** The calcium tolerance of growing and reproducing rabbits. *Cornell Vet.* 57(3):480-491. July 1967. 41.8 C81
- 66936 **DARGIE, J. D., and others.** Pathophysiology of fascioliasis in the rabbit. Studies on albumin turnover. *J. Comp. Pathol.* 78(1):101-105. Ref. Jan.1968. 41.8 J82  
P. H. Holmes, J. M. McLean, and W. Mulligan, joint authors.
- 66937 **KAHAN, I. L., JUHASZ, K., and MINDSZENTI, S.** Lipids of the harderian gland of rabbits. *Acta Biol. [Budapest]* 18(3):295-301. Ref. 1967. 475 Ac85
- 66938 **KOHLER, G., and others.** Immune biological research on rabbits with Ixodidae infestation. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 80(20):396-400. Ref. Oct.15,1967. 41.8 B45  
G. Hoffmann, F. Horchner, and G. Weiland, joint authors.  
English summary.
- 66939 **MAESTRONE, G., and SEMAR, R.** Establishment and treatment of cutaneous *Candida albicans* infection in the rabbit. *Naturwissenschaften* 55(2):87-88. Feb.1968. 472 N213
- 66940 **MAKAROV, P. P.** Rabbit pox. (Rus) *Krolikovodstvo Zverovodstvo* 4:32-33. July/Aug.1967. 40.28 K91
- 66941 **MARCATO, P. S., and SJA'BAN, M.** On rabbit mucoid enteritis. (It) *Nuova Vet.* 43(5):546-556. Ref. Sept./Oct.1967. 41.8 N922  
English summary.
- 66942 **MICHELAT, J.** Notes on the anatomy of rabbits. III. General evolution of the intestinal peritoneum. (Fr) *Acad. Vet. France. Bull.* 143(10):937-943. Oct.1967. 41.8 R24  
English summary.
- 66943 **MICHELAT, J.** Notes on the anatomy of rabbits. IV. The pancreas. (Fr) *Acad. Vet. France. Bull.* 143(12):1281-1287. Dec.1967. 41.8 R24  
English summary.
- 66944 **PRUSIEWICZ-WITASZEK, U., and DZIALO-SZYNSKI, L.** The effect of pregnancy and lactation on the level of proteins, glycoproteids and lipoproteids in the serum of rabbits. (Pol) *Med. Weter.* 23(10):627-630. Ref. Oct.1967. 41.8 M463  
English summary.
- 66945 **SCHIFF, R., VASUDEVA, R., and STORMONT, C.** A method for the electrophoretic separation of rabbit red-cell esterases. *Immunogenet.* Lett. 5(3):130-131. Jan.1968. 443.8 Im6
- 66946 **SUGAWARA, S., and HAFEZ, E. S. E.** Developmental changes in dehydrogenase activities in rabbit eggs. *Soc. Exp. Biol. Med. Proc.* 126(3):849-853. Ref. Dec.1967. 442.9 Sol
- 66947 **TSUTSUMI, Y., and HACHINOHE, Y.** Cellular variation in the vaginal mucus of the pseudopregnant rabbit. (Ja) *Jap. J. Zootech. Sci.* 39(1):12-19. Ref. Jan.1968. 49 N62
- 66948 **VAN KAMPEN, K. R.** Lymphosarcoma in the rabbit; a case report and general review. *Cornell Vet.* 58(1):121-128. Ref. Jan.1968. 41.8 C81
- 66949 **VAN VLEET, J. F.** An ultrastructural study of the alterations occurring in skeletal muscle of vitamin E deficient rabbits. *Diss. Abstr., Sect. B*, 28(5):1745B-1746B. Nov.1967. Z5055.U49D53

#### Miscellaneous

- 66950 **WERNER, K.** Commercial rabbitries develop—rabbit production gains new interest in Germany. *Foreign Agr.* 6(17):6. Apr.22,1968. A281.9 F76Fo

## SHEEP AND GOATS

### Breeds and Breeding

- 66951 **BROOKS, T. E. M.** Selection of replacement sires. *New Zeal. Meat Prod.* 12(4):65. Jan.1, 1968. 50.8 N48  
Rams for meat production.
- 66952 **BROWN, G. H.** The use of correlated variables for preliminary culling. *Biometrics* 23(3):551-562. Sept.1967. 442.8 B5224  
Wool weight at weaning and at 15-16 months in rams.
- 66953 **BURNS, M.** The Katsina wool project. II. Coat and skin data from 3/4-Merino and Wensleydale crosses. *Trop. Agr. [St. Augustine]* 44 (4):253-274. Ref. Oct.1967. 26 T754  
South African Merinos in Nigeria.
- 66954 **COLBURN, O.** Sheep breeding: application of modern methods. *New Zeal. Meat Prod.* 12(4):31,34-35,38-39. Jan.1,1968. 50.8 N48
- 66955 **COOP, I. E.** Recent developments in cross-breeding of sheep. *New Zeal. J. Agr.* 115(3):66-67,69,71,73. Sept.1967. 23 N48J
- 66956 **CORNELIUS, C. E., and GRONWALL, R. R.** Congenital photosensitivity and hyperbilirubinemia in Southdown sheep in the United States. *Amer. J. Vet. Res.* 29(2):291-295. Ref. Feb. 1968. 41.8 Am3A
- 66957 **COTTIER, M.** Prolificacy and milk production of the Lacaune sheep breed. (Fr) *Rev. Elevage* 23(2):121-122,125-126,129. Feb.1968. 49 B462
- 66958 **DIENER.** Why isn't any artificial insemination in sheep breeding? (Ge) *Tierzuchter* 20(2):40-41. Jan.20,1968. 49 T445
- 66959 **DOLLING, C. H. S., and NICOLSON, A. D.** Vital statistics for an experimental flock of Merino sheep. IV. Failure in conception and embryonic loss as causes of failure to lamb. *Australian J. Agr. Res.* 18(5):767-788. Ref. Sept. 1967. 23 Au783
- 66960 **EPSTEIN, H., and HERZ, A.** The body composition of 3-month old Rambouillet lambs of different live weight. *J. Agr. Sci. [London]* 70 (1):29-32. Feb.1968. 10 J822
- 66961 **FRASER, A. F., and LAING, A. H.** The potential breeding season of Cheviot sheep. *Scot. Agr.* 47(1):1-4. Winter 1967/68. 10 Sco82So
- 66962 **GANCHEV, T., and TOMOV, I.** Study of the offspring produced by ewes inseminated with different numbers of spermatozoa. (Bu) *Vet. Med. Nauk.* 4(3):49-57. Ref. 1967. 41.8 V6468  
English summary.
- 66963 **GLIMP, H. A., DEWEESE, W. P., and DUTT, R. H.** Effects of date of breeding and an orally administered synthetic progestogen on reproductive performance of crossbred ewes. *J. Anim. Sci.* 27(2):447-450. Ref. Mar.1968. 49 J82  
MAP administered.
- 66964 **GREVE, J.** Rambouillet—sheep breeding in tradition and present. (Ge) *Z. Gesamte Textil Indus.* 70(2):83-84. 1968. 304.8 D485  
On the Livestock Teaching Center and its work (Rambouillet Centre d'Enseignement Zootechnique).
- 66965 **HEINICHEN, W.** The German Mutton Merino sheep in South Africa and their wool production. (Ge) *Tierzuchter* 20(3):82-83. Feb.5, 1968. 49 T445
- 66966 **KDYRNIYAZOV, G. N.** Possibilities of developing Fine-wooled sheep in Kazakhstan. (Rus) *Zhivotnovodstvo* 1:49-50. Jan.1968. 49 Z6  
Answer to the article of N. A. Vasil'ev.
- 66967 **KENNEDY, J. P.** Genetic and phenotypic relationships between fertility and wool production on 2-year-old Merino sheep. *Australian J. Agr. Res.* 18(3):515-522. Ref. May 1967. 23 Au783
- 66968 **LA SELLE, J. DE.** A flock of crossbreds in Sologne. (Fr) *Patre* 148:31-33,35. Nov.1967. 45.8 P272  
Sologne X Berrichon.



- 66969 LIGHTFOOT, R. J., CROKER, K. P., and NEIL, H. G. Failure of sperm transport in relation to ewe infertility following prolonged grazing on oestrogenic pastures. *Australian J. Agr. Res.* 18(5):755-765. Ref. Sept.1967. 23 Au783
- 66970 MARTIN, C. A. Ram management. *New Zeal. Meat Prod.* 12(4):56. Jan.1,1968. 50.8 N48
- 66971 MATTHEWS, T. R., and TRUEBLOOD, M. S. Detection of precipitins against *Brucella ovis*. *Cornell Vet.* 57(3):410-417. July 1967. 41.8 C81  
Obtained from rams' semen.
- 66972 MCCRAW, J. T. Prime lamb breeding: What sire? What dam? *New Zeal. Meat Prod.* 12(4):64. Jan.1,1968. 50.8 N48
- 66973 MCLAUCHLAN, G. Drysdale sheep flocks growing. *New Zeal. J. Agr.* 116(2):20-22,23. Feb.1968. 23 N48J  
Breeding for wool.
- 66974 MULLANEY, P. D., and HYLAND, P. G. Reproductive performance of eight wool producing flocks in the Western District of Victoria. *Australian J. Exp. Agr. Anim. Husb.* 7(27):304-307. Ref. Aug.1967. 23 Au792
- 66975 NEW ZEALAND ROMNEY SHEEP BREEDERS' ASSOCIATION. Flock book, LXIII. Hastings, 1967. 620 p. 45.9 N483
- 66976 NIKOLAEV, A. I. Achievements of the Soviet science in sheep breeding. (Rus) *Vestnik Sel'skokhoz. Nauk.* [Moscow] 11:56-63. Nov. 1967. 20 V633  
English summary.
- 66977 PARKER, B. W., and WIGGINS, L. K. Romneys and Perendales compared on hill country. *New Zeal. J. Agr.* 116(2):54-55,57. Feb.1968. 23 N48J
- 66978 PERRY, R. M. Sire selection. *New Zeal. Meat Prod.* 12(4):54-55. Jan.1,1968. 50.8 N48  
Rams.
- 66979 POLWARTH SHEEPBREEDERS' ASSOCIATION OF AUSTRALIA. Stud book and flock book of registered Polwarth flocks. Vol. XXXII, 1967. Melbourne, 1967. 83 p. 45.9 P76
- 66980 PULSFORD, M. F., and RICHARDS, M. H. Ovine brucellosis, a disease of rams. *S. Australia J. Agr.* 71(5):164-170. Dec.1967. 23 So84  
Includes the South Australia Ovine Brucellosis Accreditation Scheme for eradication.
- 66981 REID, E. H. Finnsheep—a prolific breed. *Nat. Wool Grower* 58(3):14. Mar.1968. 45.8 N21N
- 66982 SARKISYAN, G. R., and others. The breeding farm "Chervlenye buruny" is 40 years old. (Rus) *Zhivotnovodstvo* 11:32-37. Nov.1967. 49 Z6  
L. I. Skachkova, N. A. Novikova, and N. N. Kundryukov, joint authors.
- 66983 SCHALITSCHIEFF, Y., and TANEV, G. Composition of the milk of single mountain and foothill sheep breeds in Bulgaria. (Ge) *Int. Dairy Congr.* [Proc.], 17th Congr., Sect. A:307-310. 1966. SF223.15 1966 v.1  
English summary, p.719.
- 66984 SEMKOV, M. Seasonal variations in semen characteristics of sheep. (Bu) *Zhivotnovodstvo* 21(7):28-30. July 1967. 49 Z62
- 66985 SYBESMA, W. Use of hormones in promoting fertility in farm animals. (Du) *Tijdschr. Diergeneesk.* 93(4):189-201. Ref. Feb.15,1968. 41.8 T431  
English summary.  
Sheep and sows.
- 66986 THAKUR, A. K. B., and MAHAJAN, J. M. Study on body weight and conformation of Gaddi and [New Zealand] Romney Marsh sheep. *Indian Vet. J.* 44(7):589-596. Ref. July 1967. 41.8 In2
- 66987 TURNBULL, K. E., SHUTT, D. A., and BRADEN, A. W. H. Increase in chlorine content of cervical mucus as a simple test for impending ovulation and for oestrogenic stimulation in ewes. *Australian J. Exp. Agr. Anim. Husb.* 7(27):314-317. Ref. Aug.1967. 23 Au792
- 66988 TYAGI, J. C., and VIRK, N. S. Absorptiometry—a rapid method for determining sperm concentration in ram semen. *Indian Vet. J.* 44(7):575-579. Ref. July 1967. 41.8 In2
- 66989 URAZ, T. Studies on the synthesis of milk and on the physical and chemical constants of milk fat in the first generation of crossbred Saanen and Kilis goats. (Ge) *Milchwissenschaft* 22(11):697-699. Nov.1967. 44.8 M5933  
English summary.
- 66990 VAKIL, D. V. Fiber measurements for Chokla wool. I. Fiber length and tensile strength. *Indian Vet. J.* 44(10):857-861. Oct.1967. 41.8 In2
- 66991 WILLEMSE, A. H., BRAND, A., and MUURLING, F. Oestrus synchronisation in Texel sheep. (Du) *Tijdschr. Diergeneesk.* 93(2):66-82. Jan.15,1968. 41.8 T431  
English summary.

# Feeds and Feeding

- 66992 BARNES, R. F. Variability within and among experiment stations in the determination of in vivo digestibility and intake of alfalfa. *J. Anim. Sci.* 27(2):519-524. Mar.1968. 49 J82  
Experiments with sheep fed alfalfa hay.
- 66993 BELL, M. Baled vs. cubed alfalfa hay for ewes and lambs. *Calif. Agr.* 21(11):2-3. Nov.1967. 100 C12Cag
- 66994 BERGNER, H., and PUSCHNER, A. Uses of polyphosphates in animal nutrition. 4. Utilization of polyphosphates of varying chain length in sheep. (Ge) *Arch. Tierernahr.* 17(6):431-439. Ref. Sept.1967. 389.78 Ar22  
English summary.
- 66995 BROWN, R. H., BLASER, R. E., and FONTENOT, J. P. Effect of spring harvest date on nutritive value of orchardgrass and timothy. *J. Anim. Sci.* 27(2):562-567. Ref. Mar.1968. 49 J82  
Experiments with sheep fed *Phleum pratense* and *Dactylis glomerata*.
- 66996 CAMERON, C. W., and HOGUE, D. E. Effect of varying dietary corn oil and hay-grain ratio on lamb growth and fat characteristics. *J. Anim. Sci.* 27(2):553-556. Ref. Mar.1968. 49 J82
- 66997 CLIFFORD, A. J., and TILLMAN, A. D. Urea and isolated soybean protein in sheep purified diets. *J. Anim. Sci.* 27(2):484-489. Ref. Mar. 1968. 49 J82
- 66998 CONNOLLY, J. F., and POOLE, D. B. R. An experimental heavy pellet for the prevention of cobalt deficiency in sheep. *Irish J. Agr. Res.* 6(2):229-235. Oct.1967. 10.5 Ir45
- 66999 DAVEY, L. A. Magnesium alloy bullets for grazing sheep. *Vet. Rec.* 82(5):142-143. Feb.3,1968. 41.8 V641
- 67000 DAVIS, L. E. Chromogen and nitrogen as fecal-index indicators of forage digestibility under grazing and stall feeding. *Diss. Abstr.*, Sect. B, 28(6):2199B. Dec.1967. Z5055.U49D53  
Sheep trials.
- 67001 DENEVAN, W. M. Livestock numbers in nineteenth-century New Mexico, and the problem of gullying in the southwest. *Ass. Amer. Geogr. Ann.* 57(4):691-703. Ref. Dec.1937. 500 As73  
Overgrazing by sheep.
- 67002 DEVENDRA, C. Studies in the nutrition of the indigenous goat of Malaya. IV-V. *Malaysian Agr. J.* 46(2):191-214. Ref. July 1967. 22.5 F312  
IV, The free-water intake of pen-fed goats; V, Food conversion efficiency, economy efficiency and feeding standards for goats.
- 67003 DOYLE, J. J. The effect of chewing by sheep on the release of nitrogen and soluble carbohydrates from plant cells. *Australian J. Exp. Agr. Anim. Husb.* 7(27):318-320. Aug.1967. 23 Au792  
Forage plants.

- 67004 EKRE, C., and VAN HORN, J. L. Effect of protein supplementation upon hay consumption. Mont. Nutr. Conf. Proc., 19th Annu. Conf.:59-60. 1968. 389.79 M76  
Experiments with sheep.
- 67005 GAAL, M. Milk feeding of lambs. (Hu) Magyar Mezogazdasag 23(10):27. Mar.6,1968. 19 M27
- 67006 GALTIER, Feeding of the dairy sheep. (Fr) Tech. Laif. 581:21-22. Feb.1,1968. 44.8 Of2
- 67007 HARRIS, D. C. Early weaning and lamb growth. Agr. Gaz. New S. Wales 78(5):270-273. May 1967. 23 N472
- 67008 HEANEY, D. P., PRITCHARD, G. I., and PIGDEN, W. J. Variability in ad libitum forage intakes by sheep. J. Anim. Sci. 27(1):159-164. Jan.1968. 49 J82
- 67009 HOAR, D. W., and others. Urea-nitrate interrelationships in sheep under feedlot conditions. J. Anim. Sci. 27(2):557-561. Ref. Mar.1968. 49 J82  
L. B. Embry, H. R. King, and R. J. Emerick, joint authors.
- 67010 HOGUE, D. E. Protein requirements of lactating ewes. Cornell Nutr. Conf. Feed Manufacturers. Proc. 1967:118-122. 389.79 C81
- 67011 HOOK, P. J. Grazing management on Southland sheep farms. New Zeal. J. Agr. 116(2):81,83, 85. Feb.1968. 23 N48J
- 67012 JOHNSON, R. R., and MCCLURE, K. E. Corn plant maturity. IV. Effects on digestibility of corn silage in sheep. J. Anim. Sci. 27(2):535-540. Ref. Mar.1968. 49 J82
- 67013 JORDON, R. M., and MARTEN, G. C. Effect of weaning, age at weaning and grain feeding on the performance and production of grazing lambs. J. Anim. Sci. 27(1):174-177. Ref. Jan. 1968. 49 J82
- 67014 JOSHI, D. C., and LUDRI, R. S. The chemical composition and nutritive value of buffle (Pennisetum flaccidum, Griseb) and Panicum kabulabula grasses. Indian Vet. J. 44(9):800-804. Sept.1967. 41.8 In2  
Trials with sheep.
- 67015 KORMSHCIKOV, P. A. Lignin and its role in the digestion of vegetative feeds. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 12:58-62. Ref. 1967. 20 V633  
English summary.  
Tested on sheep and rabbits.
- 67016 KRZYWANIEK, H. Research into feeding behavior of sheep in pens and in the meadow. (Ge) Berliner Munchener Tierarztl. Wochenschr. 80(18):350-354. Ref. Sept.15,1967. 41.8 B45  
English summary.
- 67017 LANGLANDS, J. P., GEORGE, J. M., and LYNCH, J. J. Observations on the calcium intake and serum calcium status of grazing ewes during drought. Australian J. Exp. Agr. Anim. Husb. 7(27):325-328. Aug.1967. 23 Au792
- 67018 PAPENDICK, K. Ensiling and metabolic investigations with a mineral-containing silage supplement in meadow grass. 2. Metabolic effect on wethers. (Ge) Z. Tierphysiol. Tierernahr. Futtermittelkunde 23(2):92-101. Ref. Nov. 1967. 389.78 Z3  
English summary.
- 67019 PAULSON, G. D., and others. Effect of feeding sheep selenium fortified trace mineralized salt: effect of tocopherol. J. Anim. Sci. 27(1):195-202. Ref. Jan.1968. 49 J82  
G. A. Broderick, C. A. Baumann, and A. L. Pope, joint authors.
- 67020 POOLE, D. B. R., and CONNOLLY, J. F. Some observations on the use of the cobalt heavy pellet in sheep. Irish J. Agr. Res. 6(2):281-284. Ref. Oct.1967. 10.5 Ir45  
To prevent deficiency.
- 67021 ROBERTS, M. Feeding of hill ewes. Great Brit. Min. Agr. Fish. Food. Agr. 74(12):578-581. Dec.1967. 10 G79J
- 67022 ROBINSON, J. J., and FORBES, T. J. Study of the protein requirements of the mature breeding ewe. 2. Protein utilization in the pregnant ewe. Brit. J. Nutr. 21(4):879-891. Ref. 1967. 389.8 B773
- 67023 RUSSELL, H. M., and ROBINSON, J. D. Why weigh sheep? J. Agr. [Melbourne] 66(1):16-19. Jan.1968. 23 V66J  
Aid to correct feeding.
- 67024 SCAIFE, R. W. Grisborne sheepfarmers profit from new grazing system. New Zeal. J. Agr. 116(2):15-19. Feb.1968. 23 N48J
- 67025 SCHALITSCHIEFF, Y. Influence of the protein level of rations on the milk production of sheep and the composition of their milk. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:81-84. 1966. SF223.15 1966 v.1  
English summary, p.673.
- 67026 SMOLIAK, S. Grazing studies on native range, crested wheatgrass, and Russian wildrye pastures. J. Range Manage. 21(1):47-50. Ref. Jan.1968. 60.18 J82  
Grazing sheep in Canada.
- 67027 SOUTH AUSTRALIA, DEPT. OF AGRICULTURE. LIVESTOCK BR. Until the rains come; pointers to drought feeding of sheep. S. Australia J. Agr. 71(5):144. Dec.1967. 23 So84
- 67028 SUTTLE, N. F., and FIELD, A. C. Studies on magnesium in ruminant nutrition. 8. Effect of increased intakes of potassium and water on the metabolism of magnesium, phosphorus, sodium, potassium and calcium in sheep. Brit. J. Nutr. 21(4):819-831. Ref. 1967. 389.8 B773
- 67029 TSIREL'SON, N. B., and VINNIKOV, N. I. The effect of ewe's nutrition on the growth and development of lambs. (Rus) Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina Dokl. 8:35-36. Aug.1967. 20 Ak1
- 67030 WILSON, A. D. Observations on the adaptation by sheep to saline drinking water. Australian J. Exp. Agr. Anim. Husb. 7(27):321-324. Aug. 1967. 23 Au792

#### Veterinary Medicine

- ANDERSEN, A. E. A study of the healing processes after ear-marking of sheep and reindeer. (No) Nord. Veterinaarmed. 19(12):561-571. Dec.1967. 41.8 N813  
English summary.
- 67031 ASCHBACHER, P. W. Thyroid physiology in lambs as affected by iodine supplementation of the pregnant ewe's diet. J. Anim. Sci. 27(1):127-130. Jan.1968. 49 J82
- 67032 BARAKAT, M. Z., and EL-GUINDI, M. M. Biochemical analysis of normal goat urine. Zentralbl. Veterinaarmed. Reihe A, 15(1):60-68. Ref. Jan.1968. 41.8 Z5
- 67033 BAXTER, J. T. The effect of anthelmintic administration on the development of immunity to Nematodirus in young lambs. Irish Vet. J. (n.s.)22(1):4-10. Ref. Jan.1968. 41.8 Ir4  
Bephenium compounds used.
- 67035 BORISOVICH, YU. From history of control of epizootic diseases. (Rus) Veterinaria 10:119. Oct.1967. 41.8 V6426  
Especially sheepox.
- 67036 BRINSFIELD, T. H., and HAWK, H. W. Luteolytic effect of induced uterine infection in the ewe. J. Anim. Sci. 27(1):150-152. Jan.1968. 49 J82  
Effects on the development of corpus luteum.
- 67037 BRINSFIELD, T. H. Relationship of endocrine state to spontaneous motility of sheep myometrium in vitro. J. Anim. Sci. 27(2):439-442. Mar.1968. 49 J82
- 67038 BRUERE, A. N. The demonstration of a sex chromatin body in amniotic tissue of the sheep. Can. J. Genet. Cytol. 10(1):180-185. Ref. Mar. 1968. 443.8 C16
- 67039 BUSHMAN, D. H., EMERICK, R. J., and EMBRY, L. B. Effect of various chlorides and calcium carbonate on calcium, phosphorus, sodium, potassium and chloride balance and their relationship to urinary calculi in lambs. J. Anim. Sci. 27(2):490-496. Ref. Mar.1968. 49 J82



- 67040 COGLAN, J. P., and SCOGGINS, B. A. Measurement of aldosterone in peripheral blood of man and sheep. *J. Clin. Endocrinol. Metab.* 27(10):1476-1486. Ref. Oct. 1967. 448.8 J8294
- 67041 COOPER, B. S. Evaluation of vaccines against salmonellosis in sheep. *New Zeal. Vet. J.* 15 (11):215-216. Nov. 1967. 41.8 N483
- 67042 CORRADO, A. *Diplococcus pneumoniae* infection in goat and sheep. (It) *Nuova Vet.* 43(4): 520-524. Ref. July/Aug. 1967. 41.8 N922  
English summary.
- 67043 CURL, S. E., NIX, L., and HUDSON, F. A. Lambing rate as influenced by hormone-induced superovulation in ewes prior to mating. *J. Anim. Sci.* 27(2):431-433. Mar. 1968. 49 J82  
Follicle-stimulating hormone and luteinizing hormone.
- 67044 DIACK, A. R. Accuracy and forethought are essential in plunge dipping. *New Zeal. J. Agr.* 115(6):28-32. Dec. 1967. 23 N48J  
Control of sheep pests.
- 67045 DIMITROV, S., NAIDENOV, N., and TSVETKÖV, A. Research into the therapeutic effect of Pentaphen, antispasmin and Novocaine in sheep experimentally intoxicated with parathion. (Bu) *Vet. Med. Nauk.* 4(4):57-61. 1967. 41.8 V6468  
English summary.
- 67046 DOBSON, C. Pathological changes associated with *Oesophagostomum columbianum* infestations in sheep: serum protein changes in relation to multiple infestation, intensity of infestation, and immunity. *Australian J. Agr. Res.* 18(6):931-945. Ref. Nov. 1967. 23 Au783
- 67047 EAGLEMAN, J. G., BEEBE, R., and LEMAN, A. Correction of vaginal prolapse in preparturient ewes. III. *Vet.* 10(4):8,11. 1967. 41.8 IL62
- 67048 FAYE, P., and CHARTON, A. Experimental infection of sheep with a paramyxovirus of Parainfluenza-3 isolated from cattle. (Fr) *Acad. Vet. France. Bull.* 143(12):1225-1229. Dec. 1967. 41.8 R24  
English summary.
- 67049 FOSTER, N. M., JONES, R. H., and LUEDKE, A. J. Transmission of attenuated and virulent bluetongue virus with *Culicoides variipennis* infected orally via sheep. *Amer. J. Vet. Res.* 29 (2):275-279. Feb. 1968. 41.8 Am3A
- 67050 GARDINER, M. R. The role of copper in the pathogenesis of subacute and chronic lupinosis of sheep. *Australian Vet. J.* 43(7):243-248. Ref. July 1967. 41.8 Au72
- 67051 GATTERDAM, P. E., and others. Absorption, metabolism, and excretion of tritium-labeled famphur in the sheep and calf. *J. Agr. Food Chem.* 15(5):845-853. Ref. Sept./Oct. 1967. 381 J8223  
L. A. Wozniak, M. W. Bullock, G. L. Parks, and J. E. Boyd, joint authors.  
Used in livestock pest control.
- 67052 GOODRICH, R. D., BRADLEY, B. P., and TILLMAN, A. D. Importance of initial blood and plasma values. *J. Anim. Sci.* 27(1):247-250. Jan. 1968. 49 J82  
Of lambs.
- 67053 HAPPICH, F. A., BORAY, J. C., and HEALY, B. P. The comparative anthelmintic efficiency of hexachlorophene, Bayer 9015 and subcutaneous carbon tetrachloride in an outbreak of subacute fasciolosis in sheep. *Australian Vet. J.* 43(7):261-264. July 1967. 41.8 Au72
- 67054 HAUSCHILD, J. P. A study of hyperphosphatemia as related to nutritionally induced ovine urolithiasis. *Diss. Abstr.*, Sect. B, 28(3):965B. Sept. 1967. Z5055.U49D53
- 67055 HEALEY, J. S., EASTOE, R. D., and BRYDON, P. Don't send daggy sheep to abattoirs. *Agr. Gaz. New S. Wales* 79(1):21-24. Jan. 1968. 23 N472  
Fleece dirtied by diarrhea, with worms and coccidiosis as the cause of it.
- 67056 HEALEY, J. S. Livestock health. *Agr. Gaz. New S. Wales* 79(1):34-35. Jan. 1968. 23 N472  
Sheep verminosis control and the problem of swinepox.
- 67057 HJERPE, C. A. Influence of dietary magnesium on metabolism of calcium and magnesium in sheep. *Amer. J. Vet. Res.* 29(1):143-151. Ref. Jan. 1968. 41.8 Am3A
- 67058 HOURRIGAN, J. L. Progress report on psoroptic sheep scabies. *Amer. Vet. Med. Ass. J.* 152(5):506-508. Mar. 1, 1968. 41.8 Am3
- 67059 HOWARTH, B., and HAWK, H. W. Effect of hydrocortisone on embryonic survival in sheep. *J. Anim. Sci.* 27(1):117-121. Ref. Jan. 1968. 49 J82
- 67060 HUDSON, L. W., and others. Effect of induced cryptorchidism at different weights on performance and carcass traits of lambs. *J. Anim. Sci.* 27(1):45-47. Jan. 1968. 49 J82  
H. A. Glimp, P. G. Woolfolk, J. D. Kemp, and C. M. Reese, joint authors.
- 67061 HULET, C. V., and FOOTE, W. C. A rapid technique for observing the reproductive tract of living ewes. *J. Anim. Sci.* 27(1):142-145. Jan. 1968. 49 J82  
Use of laparotomy restraining device.
- 67062 HUMPHREYS, P. W., and others. Pulmonary lymph flow and the uptake of liquid from the lungs of the lamb at the start of breathing. *J. Physiol.* 193(1):1-29. Ref. Nov. 1967. 447.8 J82  
I. C. S. Normand, E. O. R. Reynolds, and L. B. Strang, joint authors.
- 67063 IGGO, A., and LEEK, B. F. An electrophysiological study of some reticulo-ruminal and abomasal reflexes in sheep. *J. Physiol.* 193(1):95-119. Ref. Nov. 1967. 447.8 J82
- 67064 JACKSON, H. D., PRESTON, A. M., and CARTER, J. M. Oxidation of palmitate to ketone bodies by tissues from digestive organs of sheep. *J. Anim. Sci.* 27(1):203-206. Ref. Jan. 1968. 49 J82
- 67065 JAMES, P. S., and JOHNSTONE, I. L. Ovine ostertagiasis. *Australian Vet. J.* 43(9):379-383. Ref. Sept. 1967. 41.8 Au72
- 67066 JARVIS, B. D. W., WILLIAMS, V. J., and ANNISON, E. F. Enumeration of cellulolytic cocci [*Ruminococcus albus*] in sheep rumen by using a fluorescent antibody technique. *J. Gen. Microbiol.* 48(2):161-169. Ref. Aug. 1967. 448.3 J823
- 67067 KHACHADURIAN, A. K., KAMELIAN, M., and ADROUNI, B. Metabolism of sheep adipose tissue in vitro. *Amer. J. Physiol.* 213(6):1385-1390. Ref. Dec. 1967. 447.8 Am3
- 67068 KITCHEN, H., EATON, J. W., and TAYLOR, W. J. Rapid production of a hemoglobin by induced hemolysis in sheep: hemoglobin C. *Amer. J. Vet. Res.* 29(2):281-289. Ref. Feb. 1968. 41.8 Am3A
- 67069 LENG, R. A., CORBETT, J. L., and BRETT, D. J. Rates of production of volatile fatty acids in the rumen of grazing sheep and their relation to ruminal concentrations. *Brit. J. Nutr.* 22(1):57-68. Ref. Feb. 1968. 389.8 B773
- 67070 MCCARTY, R. T., HAUFLE, M., and MCBETH, C. A. Toxicologic effects of a phosphorothioic acid insecticide in sheep. *Amer. Vet. Med. Ass. J.* 152(3):279-281. Feb. 1, 1968. 41.8 Am3
- 67071 MCINTOSH, G. H., and THOMAS, M. R. Toxicity of parasitized *Wimmera* ryegrass, *Lolium rigidum*, for sheep and cattle. *Australian Vet. J.* 43(9):349-353. Sept. 1967. 41.8 Au72
- 67072 MENAHAN, L. A., SCHULTZ, L. H., and HOEKSTRA, W. G. Metabolism of butyrate-3-<sup>14</sup>C in the ruminant under various metabolic states. *J. Dairy Sci.* 50(9):1417-1429. Ref. Sept. 1967. 44.8 J822  
Goats.

- MENAHAN, L. A., and others. Relationships between beta-hydroxybutyrate and acetoacetate plus acetone contents of blood and urine of the ruminant. *J. Dairy Sci.* 50(9):1409-1416. Ref. Sept.1967. 44.8 J822
- W. B. Holtmann, L. H. Schultz, and W. G. Hoekstra, joint authors.
- Goats.
- MEYER, H., LOHSE, B., and GRONING, M. A. Contribution on hemoglobin polymorphism and blood potassium polymorphism in sheep. (Ge) *Z. Tierzucht. Zuchtungsbiol.* 83(4):340-357. Ref. Sept.1967. 44.8 Z35
- English summary.
- MICHEL, J. F. A technique for the collection of bronchial mucus from lambs. *Brit. Vet. J.* 124(1):23-26. Jan.1968. 41.8 V643
- MOHIYUDDIN, S., and MALAKI, A. Histopathological study of Johne's disease lesions in a naturally infected goat. *Indian Vet. J.* 44(9):743-745. Sept.1967. 41.8 In2
- MORIN, J. C., and GSTACH, C. A case of pseudotuberculosis in sheep caused by the bacillus of Malassez and Vignal. (Fr) *Acad. Vet. France. Bull.* 143(12):1247-1251. Dec.1967. 41.8 R24
- English summary.
- MULLANEY, P. D., and BROWN, G. H. Effects of variation in age and birth weight of fleece traits at eighteen and thirty months. *Australian J. Exp. Agr. Anim. Husb.* 7(27):308-313. Ref. Aug.1967. 23 Au792
- O'SULLIVAN, B. M. Pregnancy toxemia in sheep. *Queensland Agr. J.* 93(12):705-706. Dec.1967. 23 Q33
- PAULSON, G. D., BAUMANN, C. A., and POPE, A. L. Metabolism of  $^{75}\text{Se}$ -selenite,  $^{75}\text{Se}$ -selenate,  $^{75}\text{Se}$ -selenomethionine and  $^{35}\text{S}$ -sulfate by rumen microorganisms in vitro. *J. Anim. Sci.* 27(2):497-504. Ref. Mar.1968. 49 J82
- Metabolic studies of sheep's rumen.
- PLOTKA, E. D. Relationship between gonadotropins and progesterone in the ewe during the estrous cycle. *Diss. Abstr., Sect. B*, 28(3):1145B-1146B. Sept.1967. Z5055.U49D53
- POWELL, G. W. Effects of dietary EDTA and cadmium on absorption, excretion and retention of orally administered  $^{65}\text{Zn}$  in various tissues of zinc-deficient and normal goats and calves. *Diss. Abstr., Sect. B*, 28(6):2203B. Dec.1967. Z5055.U49D53
- PROCTER, B. G., and GIBBS, H. C. Studies on the spring rise phenomenon in ovine helminthiasis. I. Spring rise in stabled sheep. *Can. J. Comp. Med. Vet. Sci.* 32(1):359-365. Ref. Jan. 1968. 41.8 C162
- PYKE, B. N. C. Pneumonia & pleurisy in sheep. *New Zeal. Meat Prod.* 12(4):16,18-19. Jan.1,1968. 50.8 N48
- RADFORD, H. M. Electrical stimulation of ovulation in the ewe. *J. Endocrinol.* 38(4):477-478. Aug.1967. 44.8 J8293
- ROBINSON, T. J. Control of the ovarian cycle in the sheep. *Nottingham. Univ. Easter Sch. Agr. Sci. Proc.* 13th Easter Sch.:373-419. 1966, pub.1967. S217.E2
- Review of the literature.
- ROSS, C. V., RILEY, J. G., and SHELTON, G. C. Practical tests with anthelmintics for grazing lambs. *Mo. Agr. Exp. Sta. Res. Bull.* 927,36 p. Sept.1967. 100 M693
- SAJI, M. A. An immunological estimation of prolactin in sheep blood. *Nottingham. Univ. Easter Sch. Agr. Sci. Proc.* 13th Easter Sch.:157-174. 1966, pub.1967. S217.E2
- Review of the literature.
- Includes discussion.
- SATTAR, S. A., MITCHELL, C. A., and GUERIN, L. F. Fluorescein-labeled goat milk antibodies: use in detection of mumps virus in tissue culture. *Can. J. Comp. Med. Vet. Sci.* 31(10):265-267. Ref. Oct.1967. 41.8 C162
- SEAWRIGHT, A. A., and MCLEAN, A. E. M. Induced susceptibility of sheep to carbon tetrachloride intoxication. *Australian Vet. J.* 43(9):354-358. Ref. Sept.1967. 41.8 Au72
- SHELTON, M., and HUSTON, J. E. Effects of high temperature stress during gestation on certain aspects of reproduction in the ewe. *J. Anim. Sci.* 27(1):153-158. Ref. Jan.1968. 49 J82
- SHUTT, D. A., AXELSEN, A., and LINDNER, H. R. Free and conjugated isoflavones in the plasma of sheep following ingestion of oestrogenic clover. *Australian J. Agr. Res.* 18(4):647-655. Ref. July 1967. 23 Au783
- Subterranean white, and red clover.
- SJAASTAD, O. V. Inactivation of histamine and occurrence of smooth muscle stimulating activity in plasma of sheep. *Quart. J. Exp. Physiol. Cog. Med. Sci.* 52(3):331-342. Ref. July 1967. 44.7 Q1
- SJAASTAD, O. V. Potentiation by aminoguanidine of the sensitivity of sheep to histamine given by mouth; effect of aminoguanidine on the urinary excretion of endogenous histamine. *Quart. J. Exp. Physiol. Cog. Med. Sci.* 52(3):319-330. Ref. July 1967. 44.7 Q1
- STAMP, J. T. Perinatal loss in lambs with particular reference to diagnosis. *Vet. Rec.* 81(21):530-537. Ref. Nov.18,1967. 41.8 V641
- Includes discussion.
- TOSTESON, D. C., and others. The effect of valinomycin on potassium and sodium permeability of HK and LK sheep red cells. *J. Gen. Physiol.* 50(11):2513-2525. Ref. Dec.1967. 44.7 J822
- P. Cook, T. Andreoli, and M. Tieffenberg, joint authors.
- TVERSKOY, G. Effect of the residual milk upon the secretory function of the mammary gland. *Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:143-148. Ref. 1966. SF223.I5 1966 v.1*
- Studies with goats.
- UPPAL, P. K., NILAKANTAN, P. R., and SAKKUBAI, P. R. Observations on the use of live and inactivated virus vaccines against sheep pox. *Indian Vet. J.* 44(10):815-827. Ref. Oct. 1967. 41.8 In2
- VOHNOUT, K., and HANSARD, S. L. Relationship between circulating red cell volume and endogenous thyroxine in sheep. *Soc. Exp. Biol. Med. Proc.* 126(2):395-397. Ref. Nov.1967. 44.2 S01
- VOSDINGH, R. A., TRAINER, D. O., and EASTERDAY, B. C. Experimental bluetongue disease in whitetailed deer. *Can. J. Comp. Med. Vet. Sci.* 32(1):382-387. Ref. Jan.1968. 41.8 C162
- Includes experiments with sheep.
- WARREN, J. E., and HAWK, H. W. Attempts to overcome the anti-fertility effect of intra-uterine plastic spirals in the ewe. *J. Anim. Sci.* 27(1):131-133. Jan.1968. 49 J82
- ZIFFO, G. Some metabolic diseases affecting sheep. *Scot. Agr.* 46(2):90-91. Spring 1967. 10 Sco82So
- Includes pregnancy disease.
- Miscellaneous
- COFFEY, I. A. Cull muffled ewes before joining. *Agr. Gaz. New S. Wales* 78(4):202-204. Apr.1967. 23 N472
- CREPIN, P. The goat in mythology and in the works of Greek poets. (Fr) *Mouton* 23(1):7-8. Jan.1968. 45.8 M86
- DU PLESSIS, J. C. Look after the lamb. *Ulimo Nemfuyo* 2(2):36. June 1966. S18.U4
- South Africa.
- EVANS, W. M. R. Intensive sheep production. *Great Brit. Min. Agr. Fish. Food. Agr.* 74(8):375-378. Aug.1967. 10 G79J
- FLAMANT, J. C. Research on dairy sheep of the Roquefort region. (Fr) *Patre* 150:18-20. Jan.1968. 45.8 P272



- 67108 LABUSSIÈRE, J. Relation between the level of milk production of sheep and their milking aptitude. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:43-51. 1966. SF223.15 1966 v.1 English summary, p.664.
- 67109 MARTEAU, M., and LECANTE, B. Contribution to the study of the ventilation of sheep housing. (Fr) Patre 150:25,27. Jan.1968. 45.8 P272
- 67110 MAXWELL, A. Prime lamb production. New Zeal. Meat Prod. 12(4):61. Jan.1,1968. 50.8 N48
- 67111 MCLEOD, D. D. The preparation and presentation of the small clip. Tasmanian J. Agr. 38(4):255-258. Nov.1967. 23 T182T
- 67112 NAKEV, S., and KHINOV, L. First national show of Fine-wooled sheep. (Bu) Zhivotnovodstvo 21(11):15-22. Nov.1967. 49 Z62
- 67113 PATIL, R. B. Nitrogen and sulphur contents of wool. Indian J. Vet. Anim. Husb. 37(3):172-175. Ref. Sept.1967. 41.8 In22  
Wool of Indian sheep.
- 67114 ROUY, H. New progress in slaughtering sheep in 1967. (Fr) Mouton 23(2):13-14. Feb.1968. 45.8 M86
- 67115 SEMLIAN, S. The influence of lactation on the retention of milk components in the manufacture of white sheep's milk cheese. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D: 227-232. 1966. SF223.15 1966 v.4  
English summary, p.812.
- 67116 SEMLIAN, S. Quantitative retention of Ca, P, K, and Na of sheep's milk in the production of white sheep's milk cheese. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. D:233-237. 1966. SF223.15 1966 v.4  
English summary, p.814.  
Changes during lactation.
- 67117 SHEPHERD, R. R. Does it pay to shear lambs? Tasmanian J. Agr. 38(4):297-300. Nov.1967. 23 T182T
- 67118 WATT, I. G. Meat hygiene begins on the farm. New Zeal. J. Agr. 116(2):42-45. Feb.1968. 23 N48J  
Sheep.

## SWINE

Breeds and Breeding

- 67119 BAKER, R. D., DZIUK, P. J., and NORTON, H. W. Effect of volume of semen, number of sperm and drugs on transport of sperm in artificially inseminated gilts. J. Anim. Sci. 27(1): 88-93. Ref. Jan.1968. 49 J82
- 67120 BERESKIN, B., and others. Inbreeding and swine productivity traits. J. Anim. Sci. 27(2): 339-350. Ref. Mar.1968. 49 J82  
C. E. Shelby, K. E. Rowe, W. E. Urban, C. T. Blunn, A. B. Chapman, V. A. Garwood, L. N. Hazel, J. F. Lasley, W. T. Magee, J. W. McCarty, and J. A. Whatley, joint authors.  
Effects on litter and litter size.
- 67121 BHATTACHARYA, S., GUPTA, S., and MOUNICK, S. K. Studies on length of gestation period in Large White pigs. Indiana J. Vet. Sci. Anim. Husb. 37(3):133-137. Sept.1967. 41.8 In22
- 67122 BUSCH, W., and GANGL, H. On the artificial protrusion of the penis of boars. (Ge) Fortpflanzung, Besamung, Aufzucht Haustiere 3(2): 98-103. Ref. 1967. QP251.F6  
English summary.
- 67123 COX, D. F. The effect of paternal irradiation on body weight and depth of fat in pigs. Genetics 58(2):271-274. Feb.1968. 44.8 G28
- 67124 CSIRE, L. Problems of hybrid swine production. (Hu) Mezogazdasagi Vilagirodalom 10 (1):27-29. 1968. 19 M577  
Review of literature.
- 67125 DOKTOROVYCH, M. A. Metabolism and energy in boars, fed with different quantity of proteins in rations. (Uk) Visn. Sil's'kohospod. Nauk. 1:102-105. Jan.1968. 20 V82  
Russian summary.
- 67126 DOSTAL, J. A study on polymorphic proteins of seminal vesicle fluid and seminal plasma in boars. Immunogenet. Lett. 5(3):117-122. Jan.1968. 44.8 Im6
- 67127 GAVAILIER, M. A study of genetic linkage of the blood group loci to loci determining serum biochemical polymorphic markers in pigs. Immunogenet. Lett. 5(3):107-111. Ref. Jan.1968. 44.8 Im6
- 67128 GRAY, R. C., and others. Results of five generations of selection for low backfat thickness in swine. J. Anim. Sci. 27(2):331-335. Ref. Mar.1968. 49 J82  
L. F. Tribble, B. N. Day, and J. F. Lasley, joint authors.
- 67129 GREBEN', L. K. Improvement of swine breeding in the southern Ukraine. (Rus) Zhivotnovodstvo 11:21-27. Nov.1967. 49 Z6
- 67130 GRUDEV, D. I., and KOZLOVSKII, V. G. Results of research in swine breeding. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 11:64-70. Nov.1967. 20 V633
- 67131 GUPTA, S., BHATTACHARYA, S., and MOUNICK, S. K. Studies on weaning performance in Large White pigs. Indian J. Vet. Sci. Anim. Husb. 37(3):138-142. Ref. Sept.1967. 41.8 In22
- 67132 HAASE, H. Results of breeding-hygienic investigations of boars in the district of Dresden. (Ge) Fortpflanzung, Besamung, Aufzucht Haustiere 3(2):124-140. Ref. 1967. QP251.F6  
English summary.  
Includes sterility studies.
- 67133 HARING, F., GRUHN, R., and SMIDT, D. The Gottingen miniature pig. (Ge) World Rev. Anim. Prod. 3(13,FAO spec.issue):76-87. 1967. 49 W89  
English summary.  
Crossbreeding of pigs to be used as laboratory animals.
- 67134 HASCHKE, W. Breeding evaluation of the weight increases in young boars of the Improved Landrace in the Sachsen-Anhalt breeding district for the years 1946-1960 and 1964. (Ge) Kuhn-Arch. 81(3):189-225. Ref.,p.223-225. Aug.1967. 105.8 H15Ku  
English summary.
- 67135 HEDRICK, H. B., LEAVITT, R. K., and ALEXANDER, M. A. Variation in porcine muscle quality of Duroc and Hampshire barrows. J. Anim. Sci. 27(1):48-52. Ref. Jan.1968. 49 J82
- 67136 HOPE, G. T. Boar performance testing offers valuable aid to pig improvement. New Zeal. J. Agr. 115(3):20-23. Sept.1967. 23 N48J
- 67137 ITRICH, G., and BUSCH, W. Investigations concerning the hormonal testicular action of boars. (Ge) Fortpflanzung, Besamung, Aufzucht Haustiere 3(2):147-152. Ref. 1967. QP251.F6  
English summary.  
Testosterone determination.
- 67138 LADAN, P. E. Scientific progress in swine breeding during the 50 years of the Soviet Power. (Rus) Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina. Dokl. 8:2-6. Aug.1967. 20 Ak1
- 67139 LOOKER, M. Smelling out boar taint. Pig Farming 16(1):22-23. Jan.1968. 46.8 P623
- 67140 LOVELL, J. E., and GETTY, R. Fate of semen in the uterus of the sow: histologic study of endometrium during the 27 hours after natural service. Amer. J. Vet. Res. 29(3):609-625. Ref. Mar.1968. 41.8 Am3A
- 67141 O'FERRALL, G. J. M., HETZER, H. O., and GAINES, J. A. Heterosis in preweaning traits of swine. J. Anim. Sci. 27(1):17-21. Ref. Jan.1968. 49 J82
- 67142 PEREIRA, J. L. Swine raising in the Central Livestock Station (Ganda). III. Activities in obtaining new breeds of swine, resulting from morpho-functional con tracts and the economic aspects of their exploitation. (Por) Gaz. Agr. Angola 12(11):814-815,817,866. Nov.1967. 24 G252
- 67143 PETROV, K. Supply of Large White swine breeding stock in Bulgaria. (Bu) Zhivotnovodstvo 21(11):23-27. Nov.1967. 49 Z62

- 67144 REUTZEL, L. F., and SUMPTON, L. J. Genetic and phenotypic relationships involving age at puberty and growth rate of gilts. *J. Anim. Sci.* 27(1):27-30. Ref. Jan.1968. 49 J82
- 67145 RICH, T. D., TURMAN, E. J., and HILLIER, J. C. A comparison of the ovulation rate, fertilization rate and embryo survival of hand-mated and lot-mated gilts. *J. Anim. Sci.* 27(2):443-446. Mar.1968. 49 J82
- 67146 ROHLOFF, D., and KIRSCHFELD, H. Research into the suitability of different diluents for conserving boar semen at a refrigerator temperature of 0° C with special attention to the speed of cooling. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 80(15):289-291. Ref. Aug.1,1967. 41.8 B45  
English summary.
- 67147 STEINBACH, J., SMIDT, D., and SCHEVEN, B. Research on the maternal influence on the prenatal and postnatal growth of swine of extremely variable size. II. (Ge) *Z. Tierzucht. Zuchtungsbiol.* 83(4):312-330. Ref. Sept.1967. 442.8 Z35  
English summary.  
Studies with the German Improved Landrace and Gottingen dwarf crossbreeding.
- 67148 TEAGUE, H. S., ROLLER, W. L., and GRIFO, A. P. Influence of high temperature and humidity on the reproductive performance of swine. *J. Anim. Sci.* 27(2):408-411. Mar.1968. 49 J82
- 67149 WAGENBACH, H. More meat through breeding. (Ge) *Chem. Tech. Landwirt.* 19(1):20-22. Jan.1968. 384 C4292  
Swine.
- 67150 WITTERS, W. L. Investigations into the metabolic pathways of washed porcine spermatozoa. *Diss. Abstr.*, Sect. B, 28(6):2206B. Dec. 1967. Z5055.U49D53
- Feeds and Feeding
- 67151 BRUSANOV, N. A. Kak otkormit' svin' yu [Fattening of swine]. Moskva, Kolos, 1967. 66 p. SF396.U4B7
- 67152 CROMWELL, G. L. The nutritional value of Opaque-2 corn for the pig and the chick. *Diss. Abstr.*, Sect. B, 28(6):2201B-2202B. Dec.1967. Z5055.U49D53
- 67153 CUNNINGHAM, H. M. Effect of caffeine on nitrogen retention, carcass composition, fat mobilization and the oxidation of C<sup>14</sup>-labeled body fat in pigs. *J. Anim. Sci.* 27(2):424-430. Ref. Mar.1968. 49 J82
- 67154 DANIELSON, M. Swine diet studies: wheat, sorghum, corn compared. *Nebr. Univ. Coll. Agr. Home Econ. Quart. Serving Farm Ranch Home* 11,i.e.14(2):18-19. Summer 1967. 100 N27N  
Effect on meat production.
- 67155 DAVIDSON, W. D., and others. Effect of antemortem fasting on shrinkage and yields of swine and their carcasses, cuts and products. *J. Anim. Sci.* 27(2):355-359. Mar.1968. 49 J82  
J. G. Sample, R. L. Cliplef, L. E. Hanson, R. J. Meade, and W. J. Aunan, joint authors.
- 67156 GALLO, J. T., and POND, W. G. Amino acid supplementation to all-corn diets for pigs. *J. Anim. Sci.* 27(1):73-78. Ref. Jan.1968. 49 J82
- 67157 GUTTE, J. O., and others. The influence of colostrum absorption on the decrease of blood hemoglobin content in baby pigs during the first day of life. (Ge) *Z. Tierphysiol. Tierernahr. Futtermittelkunde* 23(2):88-91. Nov.1967. 389.78 Z3  
K. Heise, B. Helferich, and H. Vemmer, joint authors.  
English summary.
- 67158 HENK, G., and LAUBE, W. Experiments studying the effects of feeding intensity upon the growth rate, feed consumption, energy utilization and protein retention in fattening pigs. (Ge) *Arch. Tierernahr.* 17(6):393-407. Ref. Sept. 1967. 389.78 Ar22  
English summary.
- 67159 HINTZ, H. F., and GARRETT, W. N. Steam pressure processing of milo for growing-finisher pigs. *Calif. Agr.* 21(12):15. Dec.1967. 100 C12Cag
- 67160 HOMB, T., and MATRE, T. Protein and amino-acid requirements of growing-finisher pigs in Norway. *Z. Tierphysiol. Tierernahr. Futtermittelkunde* 23(3):129-142. Ref. Dec. 1967. 389.78 Z3
- 67161 HUTAGALUNG, R. I., and others. Effects of nitrates and nitrites in feed on the utilization of carotene in swine. *J. Anim. Sci.* 27(1):79-82. Ref. Jan.1968. 49 J82  
C. H. Chaney, R. E. Wood, and D. G. Waddill, joint authors.
- 67162 IHSEN, R. M. The influence of development in the preliminary examination stage and during the actual examination on fattening and slaughtering results with swine, studied on material from the Feeding Testing Station, Radegast. (Ge) *Kuhn-Arch.* 81(3):227-272. Ref., p.270-272. 1967. 105.8 H15Ku  
English summary.
- 67163 JAMBOR, V. Physiological and dietary relationship of calcium and phosphorus in swine nutrition. (Cz) *Veterinarstvi* 18(1):10-13. 1968. 41.8 V6439
- 67164 KOCH, B. A. Changes noted in sow feeding. *Kans. Stockman* 53(4):17. Feb.1968. 49 K134
- 67165 KOCH, D. E., and others. Effect of diet on the fatty acid composition of pork fat. *J. Anim. Sci.* 27(2):360-365. Mar.1968. 49 J82  
A. M. Pearson, W. T. Magee, J. A. Hofer, and B. S. Schweigert, joint authors.
- 67166 KOSZTOLICH, O. Feeding technique as a nutritional physiological prophylactic measure in swine. (Ge) *Wintertagung 1967*:197-209. 27 W73
- 67167 LIDVALL, E. R., and GRIFFIN, S. A. Methods of administering iron to nursing pigs. *Tenn. Farm Home Sci. Progr. Rep.* 64:9. Oct./Dec. 1967. 100 T25F  
Nutritional deficiency.
- 67168 MEANEY, R. F. Whey—as pig feeding. *Irish Agr. Creamery Rev.* (n.s.)21(410):13. Feb. 1968. 44.8 C866
- 67169 POND, W. G., and others. Fatty acids for young swine: are polyunsaturated acids required? *Cornell Nutr. Conf. Feed Manufacturers. Proc.* 1967:67-73. Ref. 389.79 C81  
G. M. Babatunde, E. F. Walker, and P. Chapman, joint authors.  
Linoleic acid.
- 67170 RAYNAUD, J. P., and JOUANDET, C. Antibiotic additives to the feeding of slaughter swine; comparative effects of Spiramycin and a mixture of Terramycin and Oleandomycin. (Fr) *Rec. Med. Vet.* 164(1):59-72. Jan.1968. 41.8 R24  
English summary.
- 67171 SEYMOUR, E. W., SPEER, V. C., and HAYS, V. W. Effect of environmental temperature on the riboflavin requirement of young pigs. *J. Anim. Sci.* 27(2):389-393. Ref. Mar.1968. 49 J82
- 67172 SMITH, B. W. Is German program for swine revolutionary? *Feed Bag* 44(1):31-32,34. Jan. 1968. 389.78 F32  
Feeding program for meat production.
- 67173 STEFFEN, H. Heavy pigs benefit from protein supplements. *Utah Sci.* 28(4):111-113. Dec. 1967. 100 U11F
- 67174 WOHLBIER, W., and SIEGEL, A. Vitamin B<sub>6</sub> requirements of growing pigs. (Ge) *Arch. Tierernahr.* 17(6):385-392. Sept.1967. 389.78 Ar22  
English summary.
- Veterinary Medicine
- 67175 ABEL, M., and BUCK, W. B. A technic for gastric cannulation of swine. *Cornell Vet.* 57(3):383-389. July 1967. 41.8 C81



- 67176 ADDIS, P. B. Acclimation during growth in relation to biochemical reactions and post-mortem properties of porcine muscle. Diss. Abstr., Sect. B, 28(6):2470B. Dec.1967. Z5055.U49D53  
Effects of temperature.
- 67177 ALMEDZEV, KH. S. White muscle disease of piglets. (Ge) Monatsh. Veterinarmed. 22(14): 591-594. July 15, 1967. 41.8 M742  
English summary.
- 67178 ALMLOF, J., BJORKLUND, N. E., and HENRICSON, B. Studies on Hepatitis interstitialis parasitaria multiplex (white spots) in pigs. (Sw) Nord. Veterinarmed. 20(1):33-36. Ref. Jan.1968. 41.8 N813  
English summary.  
With special reference to ascarid infections.
- 67179 ANDERSON, L. L., and MELAMPY, R. M. Hypophyseal and uterine influences on pig luteal function. Nottingham. Univ. Easter Sch. Agr. Sci. Proc. 13th Easter Sch.:285-316. 1966, pub. 1967. S217.E2  
Review of the literature.  
Includes discussion.
- 67180 BACHMANN, P. Vitamin C therapy for some baby pig diseases. (Da) Danske Dyrægefor. Medlemsbl. 51(2):38-40. Jan.15, 1968. 41.9 D23
- 67181 BECKER, C. H., and BERGMANN, V. Primary lesions in cardiac ganglia of the pig after Herpesvirus suis infection. Amer. J. Vet. Res. 29(3):745-748. Ref. Mar.1968. 41.8 Am3A  
Baby pigs infected with pseudorabies.
- 67182 BECZE, J., SMIDT, D., and SZILVASSY, F. Histomorphological and histochemical changes in the placenta of miniature pigs during gestation. (Ge) Berliner Munchener Tierarztl. Wochenschr. 81(3):45-49. Feb.1, 1968. 41.8 B45  
English summary.
- 67183 BEIERS, P. R., and SIMMONS, G. C. Botulism in pigs. Australian Vet. J. 43(7):270-271. July 1967. 41.8 Au72
- 67184 BESEDA, M. A contribution to the histological diagnosis of hog cholera. (Cz) Veterinarstvi 18(1):21-23. 1968. 41.8 V6439
- 67185 BJORKLUND, A., FALCK, B., and ROSENGREN, E. Monoamines in the pituitary gland of the pig. Life Sci. 6(19, pt.1):2103-2110. Ref. Oct.1, 1967. 442.8 L62
- 67186 BJORKMAN, N., and HELLMAN, B. Morphological characteristics of the secretory granules in pancreatic beta-cells from species with identical primary structures of insulin. Experientia 23(9):721-722. Ref. Sept.15, 1967. 475 Ex7  
In swine and dogs.
- 67187 BOOK, P. H., and RESSANG, A. A. The diagnosis of hog cholera by means of the ETV-, ETN-, and fluorescent antibody methods. 1. The methods using the exaltation of the Teschen virus and of the Newcastle disease virus. 10 p. Ref. Transl. 16610  
Translation from Tijdschrift voor Diergeneeskunde 91(18). 1966.
- 67188 BOTH, G., and KOHL, D. Research into the suitability of an allergic intracutaneous test to diagnose brucellosis in pigs. (Ge) Berliner Munchener Tierarztl. Wochenschr. 80(17):332-335. Ref. Sept.1, 1967. 41.8 B45  
English summary.
- 67189 CALNE, R. Y., and others. Prolonged survival of liver transplants in the pig. Brit. Med. J. 4(5580):645-648. Dec.16, 1967. 448.8 B77  
H. J. O. White, D. E. Yoffa, R. M. Binns, R. R. Maginn, R. M. Herbertson, P. R. Mil-lard, V. P. Molina, and D. R. Davis, joint authors.
- 67190 CASE, M. T., and SIMON, J. Transmission studies of swine lymphosarcoma: hematologic and pathologic changes in pigs inoculated with whole cell suspensions. Amer. J. Vet. Res. 29(2):263-269. Ref. Feb.1968. 41.8 Am3A
- 67191 CESSI, D. Development of immunity and viremia in pigs vaccinated with lapinized hog cholera virus. (It) Nuova Vet. 43(5):564-568. Ref. Sept./Oct.1967. 41.8 N922  
English summary.
- 67192 COUPE, R. SPF [Nebraska Specific Pathogen Free Swine Accreditation Program] pigs improving pork quality. Nebr. Univ. Coll. Agr. Home Econ. Quart. Serving Farm Ranch Home 11, i.e. 14(2):15-17. Summer 1967. 100 N27N
- 67193 COWART, W. O., and MOREHOUSE, L. G. Effects of attenuated hog cholera virus in pregnant swine at various stages of gestation. Amer. Vet. Med. Ass. J. 151(12):1788-1794. Ref. Dec.15, 1967. 41.8 Am3  
Investigation of transmission of the virus to the fetus.
- 67194 CRIGHTON, D. B. Effects of lactation on the pituitary gonadotrophins of the sow. Nottingham. Univ. Easter Sch. Agr. Sci. Proc. 13th Easter Sch.:223-238. 1966, pub. 1967. S217.E2  
Review of the literature.  
Includes discussion.
- 67195 CSONTOS, L. Virus diarrhea of swine. (Hu) Magyar Mezogazdasag 23(10):26. Mar.6, 1968. 19 M27
- 67196 CSUKAS, A. Once again on the virus diarrhea of piglets. (Hu) Magyar Mezogazdasag 23(11): 18. Mar.13, 1968. 19 M27
- 67197 CUMMINGS, J. N. Fetal anemia and hypovolemia in swine. Can. Vet. J. 9(3):61-69. Ref. Mar.1968. 41.8 R3224
- 67198 CUNNINGHAM, H. M. Compensatory response to balloons inflated in the stomachs of pigs. J. Anim. Sci. 27(2):405-407. Mar.1968. 49 J82
- 67199 CUNNINGHAM, H. M. Use of tritiated water to determine the effect of water restriction on the insensible water loss of pigs. J. Anim. Sci. 27(2):412-417. Ref. Mar.1968. 49 J82
- 67200 DAVENPORT, P. G., and STOCKDALE, P. H. G. A case of hyostroglyosis in Ontario. Can. Vet. J. 8(12):288-290. Dec.1967. 41.8 R3224  
In a sow.
- 67201 DAVIS, J. W., and LIBKE, K. G. Hematologic studies in pigs fed clay pigeon targets. Amer. Vet. Med. Ass. J. 152(4):382-384. Feb.15, 1968. 41.8 Am3  
Evidence of coal tar poisoning.
- 67202 DHINDSA, D. S., and DZIUK, P. J. Effect on pregnancy in the pig after killing embryos or fetuses in one uterine horn in early gestation. J. Anim. Sci. 27(1):122-126. Ref. Jan.1968. 49 J82
- 67203 DONE, J. T., and HEARD, T. W. Early pregnancy diagnosis in the sow by vaginal biopsy. Vet. Rec. 82(3):64-68. Ref. Jan.20, 1968. 41.8 V641
- 67204 DROST, S. One case of morbus maculosus [petechial fever] in a pig. (Ge) Monatsh. Veterinarmed. 22(14):589-590. Ref. July 15, 1967. 41.8 M742  
English summary.  
One-sided feeding of shred rye assumed as causal agent.
- 67205 EDEL, W., and others. Salmonella infections in pigs fattened with pellets and unpelleted meal. Zentralbl. Veterinarmed. Reihe B, 14 (5):393-401. Aug.1967. 41.8 Z52  
P. A. M. Guinee, M. van Schothorst, and E. H. Kampelmacher, joint authors.
- 67206 EDEL, W., and others. Salmonella infections in pigs, fed normal and pelleted meal. (Du) Tijdschr. Diergeneesk. 92(15):1006-1016. Aug.1, 1967. 41.8 T431  
P. A. M. Guinee, M. van Schothorst, and E. H. Kampelmacher, joint authors.  
English summary.
- 67207 EWALD, F. W. Research into group N of swine erysipelas (Erys. insid.) using autoclaved bacteria in agar gel. (Ge) Berliner Munchener Tierarztl. Wochenschr. 80(17):335-339. Ref. Sept.1, 1967. 41.8 B45  
English summary.
- 67208 FERGUSON, D. L., MEBUS, C. A., and TWIEHAUS, M. J. Recovery of porcine liver from damage caused by migrating X-irradiated and nonirradiated larvae of Ascaris suum. Amer. J. Vet. Res. 29(2):233-243. Feb.1968. 41.8 Am3A

- 67209 FONTANELLI, E., and TESTI, B. Complete observations in the Rome area by the Institutes of Experimental Zooprofilaxis of Latium and Tuscany [Istituti Zooprofilattici Sperimentali del Lazio e della Toscana] on the incidence of African swine fever in the Roman suburbs. (It) Zooprofilassi 22(7/8):341-365. July/Aug.1967. 41.8 Z72  
Bibliography, p.355-365.
- 67210 FORSTNER, M. J. Serum analysis in pigs and cattle of varying ages. (Ge) Zentralbl. Veterinarmed. Reihe A, 15(1):76-80. Jan.1968. 41.8 Z5  
English summary.  
Gamma-globulins and proteins.
- 67211 GAVALIER, M. A contribution towards the study of correlations between erythrocytic antigens and some fattening and carcass value characters in pigs. Immunogenet. Lett. 5(3): 112-115. Jan.1968. 443.8 Im6  
Blood group study.
- 67212 GUNTHER, K., WITTING, R., and LENKEIT, W. Research on the comparative development and mineralization of single skeletal parts of baby pigs in relation to Ca and P administration. (Ge) Z. Tierphysiol. Tierernähr. Futtermittelkunde 23(2):106-125. Ref. Nov.1967. 389.78 Z3  
English summary.
- 67213 HALASA, M. A contribution to the abortion in swine and cattle caused by leptospirosis. (Cz) Veterinarstvi 18(1):34-36. 1968. 41.8 V6439
- 67214 HEARD, T. W., JENNETT, N. E., and LINTON, A. H. The control and eradication of salmonellosis in a closed pig herd. Vet. Rec. 82(4): 92-99. Ref. Jan.27,1968. 41.8 V641
- 67215 HEARD, T. W., and JOLLANS, J. L. Observations on a closed hysterectomy-founded pig herd. Vet. Rec. 81(19):481-487. Ref. Nov.4, 1967. 41.8 V641
- 67216 HOERNICKE, E., and FRICK, W. Contribution on dermatomycoses of the pig—occurrence of Trichophyton mentagrophytes in a pig breeding farm. (Ge) Monatsh. Veterinarmed. 22(14): 585-588. Ref. July 15,1967. 41.8 M742  
English summary.
- 67217 HORZINEK, M., RECZKO, E., and PET'ZOLDT, K. On the morphology of hog cholera virus. Arch. Gesamte Virusforsch. 21(3/4): 475-478. 1967. 448.3 Ar23
- 67218 JELINEK, O. The upper femoral epiphysis in swine. (Cz) Veterinarstvi 17(5):223-224. 1967. 41.8 V6439
- 67219 JONES, P. H. K. Isolation, identification and measurement of metabolites of progestins and estrogens in the urine of domestic sows during the estrous cycle. Diss. Abstr., Sect. B, 28(6): 2305B-2306B. Dec.1967. Z5055.U49D53
- 67220 KATARIA, R. S., and SONI, J. L. Porcine nephroblastoma. Indian Vet. J. 44(7):555-558. Ref. July 1967. 41.8 In2  
Embryonal carcinosarcoma in a sow.
- 67221 KEMENES, F., and KUCSERA, GY. A new method for the demonstration of H<sub>2</sub>S production by Erysipelothrix rhusiopathiae. (Ge) Zentralbl. Veterinarmed. Reihe B, 14(5):402-407. Ref. Aug.1967. 41.8 Z52  
English summary.
- 67222 KIRKPATRICK, R. L. Endocrine mechanisms involved in the stimulation of ovarian activity by high nutrient energy intake in the gilt. Diss. Abstr., Sect. B, 28(3):1140B. Sept.1967. Z5055.U49D53
- 67223 KONISHI, S., and BANKOWSKI, R. A. Characteristics of two enteroviruses isolated from swine with diarrhea. Amer. J. Vet. Res. 29(3): 627-633. Ref. Mar.1968. 41.8 Am3A
- 67224 KORN, G. Blood eosinophilia in swine fever. (Ge) Zentralbl. Veterinarmed. Reihe B, 14(5):458-466. Ref. Aug.1967. 41.8 Z52  
English summary.
- 67225 KOUBA, V. Infectious encephalomyelitis of swine in Czechoslovakia; epizootiology and methods of control. (Cz) Veterinarstvi 17(5): 212-217, map. 1967. 41.8 V6439
- 67226 KOVACS, F. Role of some environmental factors in the development of respiratory and digestive organ diseases of swine. (Hu) Agrartud. Kozlem. 26(3/4):355-371. 1967. 19 B855
- 67227 KOVALEV, A. V., STUPNIKOV, G. I., and ZVEREVA, L. Ferrodex—an effective preparation. (Rus) Svinovodstvo 1:46. Jan.1968. 46.8 Sv33  
In treatment of baby pig anemia.
- 67228 KOWALCZYK, T., and others. Endoscopic examination of stomach of swine. Amer. J. Vet. Res. 29(3):729-736. Mar.1968. 41.8 Am3A  
Y. Tanaka, B. A. Muggenburg, W. G. Olson, and J. F. Morrissey, joint authors.
- 67229 KUBEK, A. Electrophoretic differences of some enzymes in body fluids of pigs. Immunogenet. Lett. 5(3):120-122. Jan.1968. 443.8 Im6
- 67230 KURNOSOV, A. N. Some hematological indices in normal and hypotrophic piglets. (Rus) Veterinariya 9:85-87. Sept.1967. 41.8 V6426
- 67231 LADAN, P. E., and others. Physical and chemical properties of metacarpal bones in swine. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 1:73-78. Ref. 1968. 20 V633  
N. N. Belkina, V. N. Pod'yachev, V. I. Stepanov, joint authors.  
English summary.
- 67232 LARENAUDIE, B., and others. Electron microscopy study of hemadsorption caused by the African swine fever virus. (Fr) Acad. Vet. France. Bull. 143(10):925-935. Oct.1967. 41.8 R24  
M. C. Toulrier, J. Santucci, and R. Carnero, joint authors.  
English summary.
- 67233 L'ECUYER, C. Exudative epidermitis in pigs; bacteriological studies on the causative agent Staphylococcus hyicus. Can. J. Comp. Med. Vet. Sci. 31(10):243-247. Ref. Oct.1967. 41.8 C162
- 67234 LITTLEDIKE, E. T., ST. CLAIR, L. E., and NOTZOLD, R. A. Effects of parathyroidectomy of the pig. Amer. J. Vet. Res. 29(3):635-642. Ref. Mar.1968. 41.8 Am3A
- 67235 LONGENBECKER, D. E., WAITE, A. B., and DAY, B. N. Similarity in the number of Corpora lutea during two stages of pregnancy in swine. J. Anim. Sci. 27(2):466-467. Ref. Mar.1968. 49 J82
- 67236 LUDVIGSEN, J. B. Investigations of the effect of thibenzole on nodular worms of sows. (Da) Danske Dyrlaegefor. Medlemsbl. 50(23):1051-1054. Dec.1,1967. 41.9 D23  
Oesophagostomum dentatum and O. quadrispinulatum.
- 67237 LUKASHEV, I. I. The atrophic rhinitis, its prophylactics and therapy. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 1:79-83. Ref. 1968. 20 V633  
English summary.
- 67238 LUKENS, J. N., CARTWRIGHT, G. E., and WINTROBE, M. M. Plasma iron in pyridoxine-deficient swine. Soc. Exp. Biol. Med. Proc. 126(3):654-657. Ref. Dec.1967. 442.9 So1
- 67239 LUX, B. The development of swine. (It) Riv. Zootec. 40(9):479-483. Sept.1967. 49 R52  
Especially feed relationships.
- 67240 MACLEAN, C. Leg weakness. Pig Farming 16(4):40-41. Apr.1968. 46.8 P623
- 67241 MAHNEL, H., and others. Morphological characterisation of porcine adeno virus. (Ge) Zentralbl. Veterinarmed. Reihe B, 14(5):483-490. Ref. Aug.1967. 41.8 Z52  
G. Siegl, B. Bibrack, and P. A. Bachmann, joint authors.  
English summary.
- 67242 MARSBOOM, R., and SYMOENS, J. Azaperone (R 1929\*) as a sedative for pigs. (Du) Tijdschr. Diergeneesk. 93(1):3-15. Ref. Jan.1, 1968. 41.8 T431  
English summary.



- 67243 MATOUSEK, J., and SCHROFFEL, J. Blood group substances A, Na and polymorphic traits in serum and in follicular fluid of ovaries of sows. (Ge) Fortpflanzung, Besamung, Aufzucht Haustiere 3(2):118-123. 1967. QP251.F6 English summary.
- 67244 MATTHAEUS, W. Protein changes and immuno-electrophoretic studies in a swine fever outbreak. (Ge) Zentralbl. Veterinarmed. Reihe B, 14(5):467-482. Ref. Aug.1967. 41.8 Z52 English summary.
- 67245 MESZAROS, J. Pathogenesis of respiratory and digestive organ diseases of swine. (Hu) Agrartud. Kozlem. 26(3/4):365-371. 1967. 19 B855
- 67246 MISHRA, G. S., and PANDE, B. P. Helminthic infestations of piglets with reference to lesions encountered. Indian J. Vet. Sci. Anim. Husb. 37(3):143-149. Ref. Sept.1967. 41.8 In22
- 67247 MONCOL, D. J., and BATTE, E. G. Porcine strongyloidosis treatment and control. Amer. Vet. Med. Ass. J. 151(9):1177-1181. Nov.1, 1967. 41.8 Am3 Thiabendazole used.
- 67248 MORRISSETTE, M. C., and OMTVEDT, I. T. Influence of an orally active progesterone and diethylstilbestrol on litter size and weights of pigs. Amer. J. Vet. Res. 29(2):271-273. Ref. Feb.1968. 41.8 Am3A
- 67249 MOULTON, J., and COGGINS, L. Synthesis and cytopathogenesis of African swine fever virus in porcine cell cultures. Amer. J. Vet. Res. 29(2):219-232. Ref. Feb.1968. 41.8 Am3A
- 67250 MOUWEN, J. M. V. M., and others. Hyostrogylus rubidus in the sow. (Du) Tijdschr. Diergeneesk. 93(4):211-225. Ref. Feb.15,1968. 41.8 T431 J. Jansen, W. A. Van Jaarsveld, J. Dorrestijn, and J. C. Baars, joint authors. English summary.
- 67251 MUGGENBURG, B. A. Experimental production of gastric ulcers in swine. Diss. Abstr., Sect. B, 28(3):1142B-1143B. Sept.1967. Z5055.U49D53
- 67252 MUNDAY, L. Diseases of the central nervous system of pigs in Tasmania. Australian Vet. J. 43(9):374-378. Ref. Sept.1967. 41.8 Au72 Includes discussion.
- NANSEN, P., and NIELSEN, K. Studies on chronic enterocolitis in pigs. Metabolism of I-labelled IgG immunoglobulin. Nord. Veterinarmed. 19(11):524-530. Nov.1967. 41.8 N813
- 67254 NELSON, L. W., TODD, G. C., and MIGAKI, G. Ovarian neoplasms in swine. Amer. Vet. Med. Ass. J. 151(10):1331-1333. Nov.15,1967. 41.8 Am3
- 67255 NEUBRAND, K. Control and prevention of diseases on farms by means of special methods of management. (Ge) Berliner Munchener Tierarztl. Wochenschr. 80(15):293-295. Aug.1, 1967. 41.8 B45 English summary. "Systematic stabling" of swine.
- 67256 OSWEILER, G. D., and BUCK, W. B. Pigweed [Amaranthus retroflexus] can cause swine disease [perirenal edema]. Iowa Farm Sci. 22(9):18-19. Mar.1968. 275.28 Io94
- 67257 PIRTLE, E. C., and WOODS, L. K. Cytogenetic alterations in swine kidney cells persistently infected with hog cholera virus and propagated with and without antiserum in the medium. Amer. J. Vet. Res. 29(1):153-164. Ref. Jan. 1968. 41.8 Am3A
- 67258 PODANY, J., and MUZIKANT, J. Rectal diagnosis of pregnancy in swine. (Cz) Veterinarstvi 17(12):549-552. 1967. 41.8 V6439
- 67259 ROBERTS, E. D., and others. Pathologic changes of porcine suppurative arthritis produced by Streptococcus equisimilis. Amer. J. Vet. Res. 29(2):253-262. Ref. Feb.1968. 41.8 Am3A F. K. Ramsey, W. P. Switzer, and J. M. Layton, joint authors.
- 67260 RYAN, A. F. Round worms [Ascaris lumbricoides] in pigs. Tasmanian J. Agr. 38(4):277-280. Nov.1967. 23 T182T
- 67261 SCHAAF, A. VAN DER, and KRAMER-ZEEUW, A. A stable antigen for the tube agglutination test in chronic swine erysipelas. Amer. J. Vet. Res. 29(1):205-207. Jan.1968. 41.8 Am3A
- 67262 SCHEER, M., and others. The importance of swine Mycoplasma. III. Research into transmitting infection to test piglets with native Mycoplasma strain isolated in embryonised hens' eggs. (Ge) Berliner Munchener Tierarztl. Wochenschr. 81(3):49-51. Feb.1,1968. 41.8 B45 J. Hartwich, J. V. Sandersleben, and A. Hahndorf, joint authors. English summary.
- 67263 SCHILLING, E. Effects of progestagen-treatment on the prepubertal ovary of the pig. Nottingham. Univ. Easter Sch. Agr. Sci. Proc. 13th Easter Sch.:444-455. 1966, pub.1967. S217.E2 Review of the literature.
- 67264 SCHILLING, E., and RADERMACHER, R. Postnatal ovogenesis in the pig ovary and the influence on it of gestagen treatment of the new-born piglet. (Ge) Zentralbl. Veterinarmed. Reihe A, 15(1):17-40. Ref. Jan.1968. 41.8 Z5 English summary. 6-Chloro-delta6-17-alpha-acetoxyprogesterone and 19-norethisterone.
- 67265 SCHMAHL, D., OSSWALD, H., and MOHR, U. Hepatotoxic and carcinogenic effects of diethylnitrosamine in swine. (Ge) Naturwissenschaften 54(13):341. July 1,1967. 474 N213
- 67266 SHADDUCK, J. A. Studies of the pathogenic properties of a porcine adenovirus. Diss. Abstr., Sect. B, 28(3):969B-970B. Sept.1967. Z5055.U49D53
- 67267 SHEVTSOVA, I. N. On infectious gastroenteritis in swine. (Rus) Veterinaria 10:43-44. Oct. 1967. 41.8 V6426
- 67268 SHUMAN, R. D., WOOD, R. L., and NORD, N. Swine abscesses caused by Lancefield's group E streptococci. III. Application of a precipitin test in selected groups of market pigs. Cornell Vet. 57(3):356-363. July 1967. 41.8 C81
- 67269 SIDOROV, M. A. African swine fever. (Rus) Svinovodstvo 1:45-46. Jan.1968. 46.8 Sv33
- 67270 SIDOROV, M. A. Morphological and biochemical characteristics of swine blood, as related to the level and quality of protein nutrition. (Rus) Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina. Dokl. 8:31-34. Ref. Aug.1967. 20 Ak1
- 67271 SIDOROV, M. A. The resistance of the virus of African swine fever to some physical factors and ether. (Rus) Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina. Dokl. 1:36-38. Jan.1968. 20 Ak1
- 67272 SINHA, B. K. Observations on the incidence and pathology of natural lungworm infection in pigs (Sus scrofa domestica) in Bihar. Indian Vet. J. 44(10):884-888. Ref. Oct.1967. 41.8 In2
- 67273 SLEISINGER, L. Hematological results in healthy pigs kept in balance pens. (Ge) Berliner Munchener Tierarztl. Wochenschr. 80(15):291-293. Aug.1,1967. 41.8 B45 English summary.
- 67274 STONE, W. M., and SIMPSON, C. F. Larval distribution and histopathology of experimental Strongyloides ransomi infection in young swine. Can. J. Comp. Med. Vet. Sci. 31(8):197-202. Aug.1967. 41.8 C162
- 67275 SUTHERLAND, L. E., and HARTFORT, P. M. Comparative morphology of juxtaglomerular cells. II. Can. J. Zool. 46(2):257-263. Ref. Mar.1968. 470 C16D In swine embryos.
- 67276 SWARBRICK, O. Ectopic splenic nodules in the pancreas of a sow. Brit. Vet. J. 124(1):16-17. Jan.1968. 41.8 V643
- 67277 SWEENEY, E. J. Haemolytic Escherichia coli in enteric disease of swine. Irish Vet. J. (n.s.) 22(1):10-15. Ref. Jan.1968. 41.8 Ir4

- 67278 TUMBLESON, M. E., and others. Effect of administration route upon iron-59 retention in miniature swine as measured in a 2-pi liquid scintillation whole body counter. *J. Anim. Sci.* 27(1):83-87. Jan.1968. 49 J82  
A. R. Dommert, R. B. Wescott, and W. J. Coffman, joint authors.
- 67279 URBANECK, D., and HEINIG, A. Skin necroses in pigs caused by GR-virex. (Ge) *Monatsh. Veterinarmed.* 22(14):583-585. July 15,1967. 41.8 M742  
English summary.
- 67280 VAN NIE, C. J. Cardiovascular anomalies in two thoracopagi. (Du) *Tijdschr. Diergeneesk.* 93(3):153-159. Feb.1,1968. 41.8 T431  
English summary.  
Baby pigs and calves.
- 67281 VASIL, M. Problems of salmonellosis in swine in Eastern Slovakia. (Cz) *Veterinarstvi* 18(1):27-30. 1968. 41.8 V6439
- 67282 VISHNYAKOV, I. Balantidiosis in the pig. (Ge) *Monatsh. Veterinarmed.* 22(15):620-621. Aug.1,1967. 41.8 M742  
English summary.
- 67283 WELLMANN, G., and LIEBKE, H. A case of extended necrosis of the skin, ear and tail in a pig after experimental erysipelas infection. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 80(16):308-309. Aug.15,1967. 41.8 B45  
English summary.
- 67286 BRYSON, J. W. The basic housing needs of pigs. *S. Australia J. Agr.* 71(5):156-159. Dec. 1967. 23 So84
- 67287 CANADIAN SWINE BREEDERS' ASSOCIATION. Annual meeting—University of Guelph. *Can. Swine* 28(4):6-8. Winter 1967/1968. 46.8 C16
- 67289 FEKETE, L. The breed of swine and environmental conditions. (Hw) *Magyar Mezogasdag* 23(1):16-16. Jan.1968. 19 M27  
Care and systems.
- 67289 GLAWISCHNIG, E. Problems of piglet rearing in Austria. (Ge) *Tierzuchter* 20(2):44-5. Jan.20,1968. 49 T445
- 67290 ISLER, G. A., and SWIGER, L. A. Ultrasonic prediction of lean cut percent in swine. *J. Anim. Sci.* 27(2):377-382. Mar.1968. 49 J82
- 67291 JENSEN, A. H. Management: the determinant in swine production. *Hog Prod.* 4(2):4,6-7. Feb.1968. 46.8 H675  
Chiefly housing.
- 67292 LADAN, P. E. Development of swine husbandry for 50 years. (Rus) *Zhivotnovodstvo* 11: 15-20. Nov.1967. 49 Z6
- 67293 MOSLEY, G. Pig farming today. *Scot. Agr.* 46 (4):179-180. Autumn 1967. 10 Sco82So  
Information concerning a British television series.
- 67294 YUKHNOVETS, R. A. Change of mineral composition of Large White swine milk. (Rus) *Vestnik Sel'skokhoz. Nauk.* [Moscow] 1:139-142. 1968. 20 V633

#### Miscellaneous

- 67284 BELIC, J. Trends in the production of swine in Europe. (Se) *Glasnik* 17(1):58-65. 1968. 280.28 Z13  
Production for meat.
- 67285 BRUNER, W. H., and SWIGER, L. A. Effects of sex, season and breed on live and carcass traits at the Ohio Swine Evaluation Station. *J. Anim. Sci.* 27(2):383-388. Mar.1968. 49 J82



## ENGINEERING

References on bee-keeping equipment and malaria control equipment are classified with Entomology; references on forestry equipment with Forestry; references on industrial equipment with Agricultural Products; and references on irrigation equipment and drainage equipment with Soils.

## GENERAL AND MISCELLANEOUS

- 67295 AGRICULTURAL Engineering phases of teacher education in agriculture; Report IV. Agr. Eng. 49(3):148-151. Mar.1968. 58.8 Ag83
- 67296 CASON, J. L., FELTON, K. E., and STEWART, L. E. Planning an efficient dairy farmstead. Md. Univ. Ext. Bull. 222, 10 p. Sept.1967. 275.29 M36B
- 67297 LAYMENTS. CAVENDER, N. Tragedy and hope: machinery accidents. Farm Quart. 23(2):94-95, 131-133. Spring 1968. 6 F22995
- 67298 HADEM, I. On the accuracy of stereo-plotting of convergent and vertical aerial photographs in mountainous terrain. Norges Landbrukshogsk. Meld. 46(1), 44 p. Ref. 1967. 104 N762M
- 67299 HAMPSON, R. J. What management expects of the engineer. Agr. Eng. 49(3):131-135. Mar. 1968. 58.8 Ag83
- 67300 TIMMINS, M. S. Lightning protection for the farm. U. S. D. A. Farmers' Bull. 2136, rev., 18 p. Jan.1968. 1 Ag84F

## FARM MACHINES AND EQUIPMENT

- 67301 BASHIROV, R. B. Mechanization of potato growing on irrigated soils under conditions of the western districts in the Azerbaijan SSR. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 131:357-363. 1967. 20 M857
- 67302 BERGMANN, F. The loading trailer—technique and possibilities. 1. (Ge) Traktor Landmasch. 30(2):104-112. Feb.1,1968. 58.8 T678Ag
- 67303 BERGMANN, F. The loading trailers—the technique and possibilities. 2. (Ge) Traktor Landmasch. 30(3):172-176. Feb.2,1968. 58.8 T678Ag
- 67304 BLYTH, A. To buy or not to buy? Scot. Agr. 46(4):196-201. Autumn 1967. 10 Sco82Sd
- 67305 Renting farm equipment. BOLKE, M. Planning of the progress of work and capacity in field work specialization by means of the critical path scheduling. (Ge) Deut. Agrartech. 18(2):69-74. Ref. Feb.1968. 58.8 D482
- 67306 Equipment and labor. BORISOV, E., and ISHIN, N. How to increase the performance of snow detention units. (Rus) Tekh. Sel'skom Khoz. 2:58-60. 1968. 58.8 M11
- 67307 BRASOVEANU, N. Problems concerning mechanization of operations in cattle raising. (Rum) Bucharest. Inst. Cent. Cercet. Agr. Sect. Econ. Agr. An. 3:195-203. 1966, pub. 1967. HD2052.A115 1966
- 67308 English summary. BREUER, R. Possibilities and limits of using continuous and discontinuous loaders. (Ge) Deut. Agrartech. 18(1):28-31. Jan.1968. 58.8 D482
- 67309 BUZENKOV, G. M. The All-Union Institute of Agricultural Mechanization [Vsesoyuznyi Institut Mekhanizatsii Sel'skogo Khozyaistva]. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 11:136-139. Nov.1967. 20 V633
- 67310 Activities. CAVENDER, N. Matching machinery to the farm. Farm Quart. 22(4):46-50, 108. Fall 1967. 6 F22995
- 67311 Basis for selection. ENGELHARDT, H. Improved supply of spare parts for the socialist agriculture by unified supply organ. (Ge) Deut. Agrartech. 18(2):49-50. Feb.1968. 58.8 D482

- 67312 FELDMANN, F. Mechanization with under-standing. VII. (Ge) Chem. Tech. Landwirt. 19 (2):35-38. Feb.1968. 384 C4292
- 67313 FIEGER, G., and CURPENE, G. Possibilities of utilization of hydrostatic action of agricultural machines. (Rum) Mec. Elec. Agr. 13(1): 32-45. Jan.1968. 58.8 M4623
- 67314 Hydraulics. FODOR, I., and VOIT, I. Effect of corn mechanization on management. (Hu) Magyar Mezogazdasag 23(2):10-11. Jan.10,1968. 19 M27
- 67315 FOGARTY, B. Used equipment inventory—what's its real value? Impl. Tractor 83(6):20-21. Mar.7,1968. 58.8 W41
- 67316 GALUSHKO, E. Mechanization in vegetable growing. (Rus) Kartofel' Ovoshchi 11:19-23. Nov.1967. 75.8 K147
- 67317 GANIEV, M. S., and GOLYSHEV, L. S. Development of mechanization. (Rus) Khlopkovodstvo 11:20-24. 1967. 72.8 K522
- 67318 In cotton growing of Uzbekistan. GROSHEV, S. Designing equipment for mechanization of farms. (Rus) Tekh. Sel'skom Khoz. 2:22-25. 1968. 58.8 M11
- 67319 HARKEMA, D. Do it yourself. (Du) Loonbedrijf Land- Tuinbouw 21(1):37,39,41. Jan.1968. 283.8 L87
- 67320 Equipment repair. HOCHERL, H. Costs are reduced with machines. (Ge) DLZ-Landtech. Z. 19(2):90,92. Feb.1968. 58.8 T677
- 67321 HOLCH, O. This is how machines should be repaired. (Ge) DLZ-Landtech. Z. 19(2):96,98. Feb.1968. 58.8 T677
- 67322 HOUSEBERG, E. J. Commercial vegetable growers speak out! (Condensed.) Agr. Eng. 49 (3):134-135. Mar.1968. 58.8 Ag83
- 67323 Mechanization. HUN, G., and FEDOROV, YU. Equipment and attachments for digging out seedlings and saplings. (Rus) Tekh. Sel'skom Khoz. 1:79-81. 1968. 58.8 M11
- 67324 Fruit and forest nursery equipment. ILLES, T. Present and future problems of mechanization and technical development. (Hu) Magyar Mezogazdasag 22(48):8-9. Nov.29,1967. 19 M27
- 67325 ISSELSTEIN, R., and SCHWARZ, H. Smithfield show 1967; in the shadow of financial and economic crisis. (Ge) Landtechnik 23(4):86-88, 90,92-94. Feb.15,1968. 58.8 L235
- 67326 Chiefly on equipment and tractor industry of Great Britain. JONES, A. R. Dollars and sense in machinery buying. Alberta. Dep. Agr. Publ. 825-7, 46 p. Jan.1968. 7 AL12P
- 67327 LOOS, A. Automation of transportation and milling installations with circuit breakers for bulk materials. (Ge) Landmasch.-Markt 46 (23):12,14. Nov.8,1967. 58.8 L239
- 67328 MALEY, W. A. Steel bins for bulk handling systems. Agr. Eng. 49(3):144-145. Mar.1968. 58.8 Ag83
- 67329 Tomatoes. MOLDOVAN, P. Measures for the improvement of productivity of machine-tractor stations. (Rum) Mec. Elec. Agr. 13(1):3-8. Jan.1968. 58.8 M4623
- 67330 NICOLA, M. Modern methods of the organization of production in repair stations. (Rum) Mec. Elec. Agr. 13(1):46-52. Jan.1968. 58.8 M4623
- 67331 NOGYO kikai nenkan [Yearbook of agricultural machinery], 1968. n. p., 1967. 239 p. 58.8 N692 1968
- 67332 PEART, R. M., MCKENZIE, B. A., and HERUM, F. L. Dimensional standards and performance-test procedures for screw conveyors. Amer. Soc. Agr. Eng. Trans. ASAE 10(5):667-669. Ref. 1967. 290.9 Am32T
- 67333 PELLIZZI, G. The machine has entered the [dairy] barn; panorama of technical possibilities and economic advantages. (It) Ital. Agr. 104(9/10):927-944. Sept./Oct.1967. 16 It1
- Mechanical feeders, litter distributors; cleaning equipment, and milking equipment.

- 67334 PHERSON, A. D. An introduction to farm safety. Rhodesian Tobacco J. 20(2):53,55. Feb. 1968. 69.8 R34 Equipment.
- 67335 POELMA, H. R. Perspectives of a feed conveyor in a Friesian shed. (Du) Landbouwmeechanisatie 18(10):955-560. Oct.1967. 58.8 L2352 English summary.
- 67336 PUZEY, G. A., and HUNT, D. Field machine repair cost patterns. (Condensed.) Agr. Eng. 49(3):139-141. Mar.1968. 58.8 Ag83
- 67337 REINBOTH, W. Use of cranes and tractor loaders. (Ge) Deut. Agrartech. 18(1):31-32. Jan.1968. 58.8 D482
- 67338 REZNIK, N. E. Academician V. P. Goryachkin—founder of cutting theory with blade. (Rus) Mekh. Elek. Sots. Sel. Khoz. 1:25-30. 1968. 58.8 M46 Operation of agricultural equipment.
- 67339 RICHLER, W. Specials for truck crops, including truck crop tending. (Ge) Landmasch.-Rundsch. 20(2):35-38. Feb.1968. 68.8 L237
- 67340 RIEMANN, U. Novelties in the American cattle and swine farms. (Ge) Landtechnik 23(4):94-98. Feb.15,1968. 58.8 L235 Mechanization.
- 67341 SABLICOV, M. V. Mass and velocity theory of agricultural equipment and instruments. (Rus) Mekh. Elek. Sots. Sel. Khoz. 1:16-19. 1968. 58.8 M46 Operation.
- 67342 SCHUTZE, H. Planning of preventive maintenance work. II. (Ge) Deut. Agrartech. 18(1):44-47. Jan.1968. 58.8 D482
- 67343 SHCHERUDA, S. D. Technical esthetics of equipment. (Rus) Zashch. Rast. 8:31-33. 1967. 421 Z1
- 67344 SHKHAVTSABAYA, G. YA. Mechanization and electrification of agriculture in Georgia. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 12:94-96. 1967. 20 V633 English summary.
- 67345 SHMAT, K. I. An apparatus for the determination of the volumetric weight of loose materials. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 12:113-114. 1967. 20 V633 Dynamometers.
- 67346 SIMS, W. L. Putting the assembly line in agriculture. Seed World 102(2):10-11,24. Jan.26, 1968. 61.8 Se52 In connection to mechanization.
- 67347 SLADKY, V. Use of loading trailers in the Czechoslovakian agriculture. (Ge) Deut. Agrartech. 18(1):33-35. Jan.1968. 58.8 D482
- 67348 SMITH, M. D. Mechanisation for production, harvesting and handling of canning crops. Food Trade Rev. 38(2):46-51. Feb.1968. 389.8 F7334 Fruit and vegetables.
- 67349 STRICKLER, P. Farm equipment makers classified. Agr. Situation [Washington] 51(12):13. Dec.1967. 1 Ec7Ag
- 67350 SZULE, ZS. Self loading trailers. (Hu) Magyar Mezogazdasag 22(50):10-11. Dec.13,1967. 19 M27
- 67351 TANNER, D. W. An aspect of soil dynamics. Brit. Sugar Beet Rev. 36(2):71-74. Dec.1967. 66.8 B77 In relation to equipment operation.
- 67352 THEOPHYLACTOS, G. Mechanization catching up to the Greek grower. Tobacco [New York] 166(4):31-32. Jan.26,1968. 286.89 T552 In tobacco cultivation.
- 67353 TOPIRCEANU, L. Economic effectiveness of the scientific organization of production and labor in repair stations. (Rum) Mec. Elec. Agr. 13(1):9-14. Jan.1968. 58.8 M4623
- 67354 TURNHEIM, G., and POTZSCH, W. Possibilities for transporting fertilizers with screw conveyors. (Ge) Deut. Agrartech. 18(2):75-77. Feb. 1968. 58.8 D482
- 67355 VAISMAN, A. Some aspects of supranormative stock in repair-technical stations. (Rum) Mec. Elec. Agr. 13(1):24-28. Jan.1968. 58.8 M4623
- 67356 VASILENKO, P. M. Teaching of V. P. Goryachkin and the contemporary methods of research in agricultural equipment. (Rus) Mekh. Elek. Sots. Sel. Khoz. 1:10-15. 1968. 58.8 M46
- 67357 VSEROSSIISKII NAUCHNO-ISSLEDOVATEL'SKII INSTITUT MEKHAIZATSII I ELEKTRIFIKATSII SEL'SKOGO KHOZYASTVA. Voprosy mekhanizatsii i elektrifikatsii sel'skokozyal'stvennogo proizvodstva [Problems of mechanization and electrification of agricultural production]. Vseross. Nauch. Issled. Inst. Mekh. Elek. Sel. Khoz. Nauch. Tr. 9,258 p. Ref. 1966. 58.9 V962
- 67358 WHITE, K. D. Agricultural implements of the Roman world. London, Cambridge University Press, 1967. 231 p. Ref. S676.W5
- 67359 WOLF, J. Rational planning of complex work in agriculture. (Ge) Deut. Agrartech. 18(2):67-69. Feb.1968. 58.8 D482 Mechanization and work planning.
- 67360 ZINK, C. L. Safety in farm equipment; the manufacturer's concern. Agr. Eng. 49(2):74-75. Feb.1968. 58.8 Ag83

#### Animal Husbandry Equipment

- 67361 BEARHAM, J. P. What water means to hens. J. Agr. [Melbourne] 65(2):479-481. Nov.1967. 23 V66J Equipment.
- 67362 GRAHAM, C. R. Floor store brooding of chickens. New S. Wales. Dep. Agr. Poultry Notes Apr.1967:2-4. 47.9 N472 Chiefly heating.
- 67363 HUNTER, A. C. Pipeline milking. Scot. Agr. 47(1):36-40. Winter 1967/68. 10 Sco82So
- 67364 KELLER, W. Feed automats for calf rearing and fattening. (Ge) Landmasch.-Markt 46(18):16,18,20. Aug.30,1967. 58.8 L239
- 67365 KERVINA, F. F., SOBAR, S. B., and SOBAR, S. D. Experiences with pipeline milking equipment for 200 cows. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:483-486. 1966. SF223.15 1966 v.1 English summary, p.754.
- 67366 KOPPATZ, H. Tendencies of measuring, control and regulation engineering in milk collection. (Ge) Deut. Agrartech. 18(1):41-42. Jan. 1968. 58.8 D482
- 67367 KRASNOV, I. N. Increasing productivity of diaphragmatic milking pump. (Rus) Mekh. Elek. Sots. Sel. Khoz. 1:45. 1968. 58.8 M46
- 67368 KRAVCHUK, A., KRAVCHENKO, V., and VEL'-CHO, S. Automated feeding. (Rus) Tekh. Sel'skom Khoz. 2:19-21. 1968. 58.8 M11 Cattle.
- 67369 MKRTUMYAN, V. S., and STREMNIN, V. A. Estimating the reliability of milking machines. (Rus) Mekh. Elek. Sots. Sel. Khoz. 3:15-18. 1968. 58.8 M46 Designs and parts.
- 67370 MULLER, K. Fully automatic cleaning of pipeline milking installation. (Ge) Unser Milchvieh 20(2):5-6. Feb.1968. 43.8 Un7
- 67371 MULLER, K. Milk performance testing in pipeline milking installations with milkscope. (Ge) Tierzuechter. 20(2):36-37. Jan.20,1968. 49 T445
- 67372 MULLER, M. Proportioning device for basic food in cattle feeding. (Ge) Deut. Agrartech. 18(1):43-44. Jan.1968. 58.8 D482
- 67373 MURSIN, V. An electrical brooder. (Rus) Tekh. Sel'skom Khoz. 2:44-45. 1968. 58.8 M11 Poultry.
- 67374 OEHRING, J. Mechanization of the feed route for swine. (Ge) Landmasch.-Markt 46(18):22-23. Aug.30,1967. 58.8 L239
- 67375 OLNEY, G. R. Choking of milking machine pulsators. Milk Board J. 19(1):19-21. Jan.1968. 44.8 M5934
- 67376 PETROV, G., VASILEVA, M., and DAMYANOV, A. Effectiveness of equipment used to feed milk to calves. (Bu) Zhivotnovodstvo 21(7):36-40. July 1967. 49 Z62



- 67377 RAJEWICZ, W. Muzzles used for bacon herds. (Pol) Gosp. Miesna 20(2):20-21. 1968. 50.8 G69
- 67378 SMITH, F. F., OLIVER, J. C., and PERLMUTTER, G. G. Flooded pipelines can cause vacuum problems. Hoard's Dairyman 113(6):364-365. Mar. 25, 1968. 44.8 H65
- 67379 TOTH, L. Self-waterer for cattle with tempered water. (Hu) Magyar Mezőgazdaság 23(6):17. Feb. 7, 1968. 19 M27
- 67380 U. S. AGRICULTURAL RESEARCH SERV. Tilting squeeze for sheep; cooperative farm building plan No. 6006. U. S. D. A. Misc. Publ. 1067, 2 p. Feb. 1968. 1 Ag84M
- 67381 WHITTLESTONE, W. G., TWOMEY, A., and CRAWLEY, W. E. Automatic cleaning of farm milk vats. New Zeal. J. Agr. 115(5):20-21. Nov. 1967. 23 N48J
- 67382 ZHILOV, I. V. Investigating milking with uninterrupted suction of milk from udders. (Rus) Mekh. Elek. Sots. Sel. Khoz. 3:14-15. 1968. 58.8 M46

#### Cultivation and Tillage Equipment

- 67383 BIANCHI, A. Fundamentals of tillage. (It) Trattorista 13(17):419-425. Sept. 15, 1967. 58.8 T69
- Equipment.
- 67384 BOXBERGER, J. It's seldom in the plow—mostly in the plower. (Ge) Übersicht 19(2):98-102, 104. Feb. 10, 1968. 18 Ub3
- Operation.
- 67385 DUBROVSKII, A. A., and SOLOV'EV, S. P. Investigating cutting by using method of relative analysis. (Rus) Mekh. Elek. Sots. Sel. Khoz. 1:46-49. 1968. 58.8 M46
- Soil resistance and operation of tillage equipment.
- 67386 FANELLI, L. Steel stakes in the vineyard. (It) G. Agr. 78(4):41. Jan. 28, 1968. 16 It1G
- 67387 GADZHIEV, Z. G. Specific resistance of soil as related to its moisture. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 131:375-380. 1967. 20 M857
- Operation of plows.
- 67388 HANBURY, L. Thinning experiments and some practical implications, 1952-66. Brit. Sugar Beet Rev. 36(2):78-80. Dec. 1967. 66.8 B77
- Mechanical.
- 67389 MIRZOEV, I. M. Redistribution of genetic horizons by triple-staged plow, operated on high-speed. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 131:387-391. 1967. 20 M857
- 67390 PANOV, I. M. V. P. Goryachkin's theory of plowing equipment and the contemporary problems of mechanized soil cultivation. (Rus) Mekh. Elek. Sots. Sel. Khoz. 1:20-24. 1968. 58.8 M46
- 67391 RAMEY, T. A. Mechanical pruning, a different approach. N. J. State Hort. Soc. Hort. News 49(1):22-24. Jan. 1968. 81 N46
- Apples.
- 67392 SHAROV, N. M. Joint operations of tillage equipment by cultivating row crops. (Rus) Mekh. Elek. Sots. Sel. Khoz. 3:52-56. 1968. 58.8 M46

#### Fertilizing and Planting Equipment

- 67393 BOWERS, W. How to select a corn planter. Hoard's Dairyman 113(7):439, 493. Apr. 10, 1968. 44.8 H65
- 67394 FAULKNER, G. "Blow-pipe" drills in the field. Power Farming 40(3):24. Mar. 1968. 58.8 P872
- 67395 FISCHER, K. Modern drill machines for the tractor farm. (Ge) Landmasch.-Rundsch. 20(2):38, 40, 42. Feb. 1968. 58.8 L237
- 67396 GAALLEN, H. J. VAN. Experiences with lettuce planting machines. (Du) Groenten Fruit 23(15):655. Oct. 18, 1967. 80 G89

- 67397 I'SO, I. Proper number of plants mean single seed planting. (Hu) Magyar Mezőgazdaság 23(10):6-7. Mar. 6, 1968. 19 M27
- Mechanical planting of corn.
- 67398 MAJKUTH, J. New studies of single seed planting machines of corn. (Hu) Magyar Mezőgazdaság 23(10):7-8. Mar. 6, 1968. 19 M27
- 67399 MARUYAMA, A. A marker for seed bed in paddy field. (Ja) Jap. J. Breeding 17(4):58-59. Dec. 1967. 64.8 J27
- 67400 PARR, J. F., and PAPENDICK, R. I. Metering assembly and calibration curve for a liquid fertilizer injector. Soil Sci. 105(1):67-68. Jan. 1968. 56.8 So3
- 67401 SCHONEVELD, J. A. Mechanical planting. (Du) Groenten Fruit 23(15):657. Oct. 18, 1967. 80 G89
- Of vegetables.
- 67402 TATE, R. W. Using nozzles to apply liquid fertilizers. Fert. Solutions 12(2):8, 10-12. Mar./Apr. 1968. 57.8 So4
- 67403 TECUSAN, N., and STEFAN, C. A contribution to the determination of technology of utilization of potato planting equipment. (Rum) Mec. Elec. Agr. 13(1):28-32. Jan. 1968. 58.8 M4623
- Nomographic method.

#### Harvesting Equipment

- 67404 AKBAROV, I. A. Investigating operation of the belt-tine type cotton picker. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 131:365-368. 1967. 20 M857
- 67405 BECKER, H. Combining from farm economical aspect. (Ge) Landtechnik 23(3):54-56, 58-60, 62-64. Feb. 1, 1968. 58.8 L235
- 67406 BELOV, D. Automated rakes. (Rus) Tekh. Sel'skom Khoz. 2:49-50. 1968. 58.8 M11
- Hay harvesting equipment.
- 67407 CHERNYKH, S., and REPETUN, I. Economic evaluation of the corn harvesting techniques. (Rus) Tekh. Sel'skom Khoz. 2:7-10. 1968. 58.8 M11
- 67408 COLEMAN, B. P. Mobile picking plant for cucumber reduces labour, increases output. New Zeal. J. Agr. 114(6):44-47. June 1967. 23 N48J
- 67409 FELDMANN, F. Mechanization with under-standing. VI. Sugar beet harvesting. (Ge) Chem. Tech. Landwirt. 19(1):3-4, 6-9. Jan. 1968. 384 C4292
- 67410 FRANCE. CENTRE NATIONAL D'ETUDES ET D'EXPERIMENTATION DE MACHINISME AGRICOLE. Feeding of slaughter animals: are pellets passee? (Fr) France. Centre Nat. Etud. Exp. Mach. Agr. Bull. 120:25-28. Jan. 1968. 58.9 F843B
- Direct loading with pickup-baler, for forage.
- 67411 GIMMEL'FARB, V., and TIMOFEEV, B. Swath type harvesting on water logged soils. (Rus) Kartofel' Ovoshchi 11:12-13. Nov. 1967. 75.8 K147
- Chiefly potato harvesting equipment.
- 67412 JACKSON, B. G. Sugarbeet systems that save labour. Arable Farmer 1(11):25, 27. Sept. 1967. S3.A7
- Harvesting systems in Britain.
- 67413 KABLUCHKO, L. Potato harvesting combines in Kamchatka. (Rus) Kartofel' Ovoshchi 11:14-15. Nov. 1967. 75.8 K147
- 67414 KELLY, C. F. Mechanical harvesting. Sci. Amer. 217(2):50-59. Aug. 1967. 470 Sci25
- 67415 KOBYLYAKOV, L. M. Investigating cutting of tops, while harvesting sugar beets. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 131:349-356. 1967. 20 M857
- 67416 MIKOTIN, V. YA. The efficient technology of seed clover harvesting. (Rus) Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina. Dokl. 1:39-40. Jan. 1968. 20 Ak1
- 67417 MILLER, M. R. Developing a high-capacity stalk cutter. (Condensed.) Agr. Eng. 49(3):132-133. Mar. 1968. 58.8 Ag83
- 67418 NASTENKO, P. N. Potato harvester suitable under conditions of the Polesie in the Ukrainian SSR. (Rus) Mekh. Elek. Sots. Sel. Khoz. 3:49-51. 1968. 58.8 M46

- 67419 O'DONNELL, W. H. Cranberry growers re-shape bogs for water picking. *Soil Conserv.* 33 (8):185. Mar.1968. 1.6 So3S  
Harvesting equipment in New Jersey.
- 67420 SARKOZI, K., and ACSAY, F. New sugar beet harvesting machines. (Hu) *Magyar Mezogazdasag* 22(46):9-10. Nov.15,1967. 19 M27
- 67421 SHAPOVALOV, V. I. Kompleksy mashin dlya potochnoi uborki zernovykh kul'tur [Grain harvesting equipment for continuous operation]. Moskva, Kolos, 1967. 110 p. TJ1485.S5
- 67422 SHEAD, D. Multi-crop harvester tackles anything from carrots to Xmas trees. *Arable Farmer* 3(1):38-40. Jan.1967. S3.A7
- 67423 SIEG, R. Experiences in testing Swiss motorized farm machines in Austria. I. (Ge) *Traktor Landmasch.* 29(11):663-665. Sept.1,1967. 58.8 T678Ag  
Harvesting equipment.
- 67424 SIMPER, H. Sugar beet harvesters as a farmer sees them. *Brit. Sugar Beet Rev.* 36(2):75-77. Dec.1967. 66.8 B77
- 67425 STEBBINS, R. L. Mechanical harvesting of prunes in Oregon. *Oreg. State Univ. Ext. FS* 132,2 p. Feb.1968. 275.29 Or36
- 67426 STRYZHEVS'KYI, V. I. Technical and economic effectiveness of using complex equipment for harvesting and delivering sugar beets. (Uk) *Visn. Sil's'kohospod. Nauk.* 1:30-40. Jan.1968. 20 V82  
Russian summary.
- 67427 STUDER, H. E., and OLMO, H. P. Mechanically harvesting the Thompson seedless grape. (Condensed) *Agr. Eng.* 49(2):76-78,81. Feb. 1968. 58.8 Ag83
- 67428 UL'RIKH, N. N. Grain harvesting combines for plots with varietal testing. (Rus) *Mekh. Elek. Sots. Sel. Khoz.* 1:50-57. 1968. 58.8 M46

#### Land Clearing Equipment

- 67429 HOLLEY, R. A. Land clearing co-operative in Ohio raises farmers' income. *Coop. Dig. Farm Power* 28(5):3,14. Aug.1967. 280.28 C7896
- 67430 STEWART, I. J. V. Ammonium nitrate as an explosive. *Queensland. Bur. Sugar Exp. Sta. Cane Growers' Quart.* 31(3):84-85. Jan.1,1968. 65.9 Q3C  
For stump removal on cleared lands.
- 67431 TOMIN, E., and others. A rotary scrub slash-er. (Rus) *Tekh. Sel'skom Khoz.* 2:36-38. 1968. 58.8 M11  
D. Kozlov, E. Kop'ev, and V. Morosov, joint authors.

#### Processing Equipment Used on the Farm

- 67432 ARADI, E. Situation and development in corn drying. (Hu) *Magyar Mezogazdasag* 23(10):14-15. Mar.6,1968. 19 M27
- 67433 DE JONG, W. P. Cooling tanks on the farm advancing. (Du) *CMC (Coop. Melk Cent.) Melk* 20(24):489,491. Feb.24,1968. 44.8 C11
- 67434 ELISEEV, V. A., and SUNDEEV, A. A. A new method of regulating loading of hammer type chopper, with radial input. (Rus) *Traktory Sel'khoz mashiny* 1:35-36. Jan.1968. 58.8 T68
- 67435 FISCHER, K. Automatic milling and mixing installations. (Ge) *Traktor Landmasch.* 30(1):11-17. Jan.1968. 58.8 T678Ag  
For feed.
- 67436 HAMMAR, P. C., and DAY, C. L. Thin-layer hay drying. *Amer. Soc. Agr. Eng. Trans. ASAE* 10(5):645-647. 1967. 290.9 Am32T  
Equipment and procedure.
- 67437 KUKTA, G., and BOIKO, V. Selection of root cutters. (Rus) *Tekh. Sel'skom Khoz.* 2:28-32. 1968. 58.8 M11
- 67438 ORDOLFF, D. Milk cooling on the farm. (Ge) *Tierzuchter* 20(3):84-85. Feb.5,1968. 49 T445  
Equipment.
- 67439 PITTSYN, S. P. Goryachkin V. P. and the development of grain drying equipment. (Rus) *Mekh. Elek. Sots. Sel. Khoz.* 1:39-41. 1968. 58.8 M46

- 67440 PUSTYGIN, M. A. Goryachkin and his theory of threshing drum. (Rus) *Mekh. Elek. Sots. Sel. Khoz.* 1:31-32. 1968. 58.8 M46
- 67441 ROI, A. Castorbean huller. (Rus) *Tekh. Sel'skom Khoz.* 2:52-53. 1968. 58.8 M11
- 67442 ŠAMOKISH, M. I. Pneumatic transportation and ventilation on flax processing stations. (Rus) *Len Konoplya* 1:20-21. 1968. 73.8 L542
- 67443 TSUDA, T., and others. Haymaking and silage. In *Tohoku Daigaku. Nogaku-bu. Research on the effective use of upland soils in Japan, 1962-1965*, p.69-98. 1967. S599.J3T62  
T. Kikumoto, K. Hayashi, M. Odajima, and T. Izawa, joint authors.  
Chiefly hay drying.
- 67444 VOTSKII, Z. I. Motion of grain mass in the grain thresher apparatus. (Rus) *Vestnik. Sel'skokhoz. Nauk. [Moscow]* 12:122-123. 1967. 20 V633
- 67445 WILLOWS, D. E. Forage handling in the United Kingdom. *FATIS (Food Agr. Tech. Infor. Serv.) Rev.* 14(3):92-94. 1967. 275.249 F26  
Use of harvesters in silage and hay-making.
- 67446 YU, H. F. Small model electric dryer. (Ch) *Newslett. Seeds Mon.* 3(5):10-11. May 1967. 61.8 C47

#### Repair, Maintenance, and Construction Equipment

- 67447 DREVER, J. G. J. Tools and equipment for the farm workshop. *Agr. Gaz. New S. Wales* 78(4):194-200. Apr.1967. 23 N472
- 67448 ENSMINGER, M. E. Modern ways of handling horse manure. *Cattleman* 54(10):78. Mar.1968. 49 C29
- 67449 GAVRILOV, D. D. Specialized shop for farm mechanization. (Rus) *Tekh. Sel'skom Khoz.* 2:17-19. 1968. 58.8 M11
- 67450 KHROMETSKII, P. A., FEIGIN, I. YA., and MUZYCHUK, A. M. Mekhanizirovannyi instrument dlya remonta i tekhnicheskogo obsluzhivaniya [Mechanical instruments used in maintenance and technical services]. Moskva, Kolos, 1967. 231 p. TJ1487.K45  
Includes repair tools of agricultural equipment.
- 67451 MALKOV, D., and ORANSKII, N. Farm shops for repair of agricultural equipment. (Rus) *Tekh. Sel'skom Khoz.* 2:69-72. 1968. 58.8 M11

#### Spraying and Dusting Equipment

- 67452 BARTSCH, M., and FROHLICH, F. A spraying device for testing the effectiveness of liquid plant protection materials in the laboratory. (Ge) *Deut. Agrartech.* 18(2):59-63. Feb.1968. 58.8 D482
- 67453 CHLADEK, Z. Use of fungicides to control potato blight. (Ge) *Deut. Agrartech.* 18(2):57-59. Feb.1968. 58.8 D482  
Equipment in Czechoslovakia.
- 67454 GINBERG, M. A. Care and handling of pesticide application equipment. (Sp) *Agricultura [Santo Domingo]* 442/443:4-6. July/Aug.1967. 8 R323
- 67455 HEDDEN, O. K. Equipment for applying soil pesticides. U. S. D. A. *Agr. Handbook* 297, slightly rev., 37 p. Ref., p.33-36. July 1967. 1 Ag84Ah  
Ohio Agricultural Research and Development Center, cooperating.
- 67456 HLADIK, J. Portable weed sprayers. (Cz) *Zahradnicke Listy* 61(1):12. 1968. 80 Z12
- 67457 KACSO, A. Equipment caused damage of wheat following herbicides application. (Hu) *Magyar Mezogazdasag* 22(50):14-15. Dec.13,1967. 19 M27
- 67458 LEMBCKE, G. Cooperative use of plant protection equipment in the German Democratic Republic. (Ge) *Deut. Agrartech.* 18(2):51-53. Feb.1968. 58.8 D482



- 67459 NOWACKI, T. Evaluating the effectiveness of technological processes in plant protection. (Ge) Deut. Agrartech. 18(2):62-65. Feb.1968. 58.8 D482
- 67460 OSTASHEVSKII, I. YA., and others. A new seed treating equipment. (Rus) Zashch. Rast. 11:47-48. 1967. 421 Z1  
Z. I. Kotsyumbas, N. A. Maïdanovich, I. I. Sushko, and YA. I. Kushnir, joint authors.
- 67461 PROKOPENKO, S. F., and others. Low volume spraying of sugar beets. (Rus) Zashch. Rast. 1:26-27. 1968. 421 Z1  
O. I. Petrukha, Yu. M. Poslavskii, and V. L. Bystrova, joint authors.  
Equipment chiefly.
- 67462 RUKAVISHNIKOV, B. I. Methods of decreasing drift of economic poisons. (Rus) Zashch. Rast. 1:55-57. 1968. 421 Z1  
Applied by aircraft.

### Vehicles

- 67463 BERGMANN, F. Speed gradation of farm tractors. (Ge) Traktor Landmasch. 30(3):125-127. Feb.2,1968. 58.8 T678Ag
- 67464 CATTABRIGA, D. Tractor seats and problems of vibrations. (It) Trattorista 14(1):3-7. Jan.15,1968. 58.8 T69
- 67465 DREISSIG, M. Suitable transport organization of fresh and dried products for drying plants. (Ge) Deut. Agrartech. 18(1):25-28. Jan.1968. 58.8 D482
- 67466 DUHRING, H., and BAHR, H. Air pressure brakes for tractors. (Ge) Deut. Agrartech. 18(1):13-15. Jan.1968. 58.8 D482
- 67467 DUHRING, H., and BAHR, H. J. Air pressure brake for trailers. (Ge) Deut. Agrartech. 18(1):16-18. Jan.1968. 58.8 D482
- 67468 EHLICH, R. Principles of development transport chains. (Ge) Deut. Agrartech. 18(1):36-38. Jan.1968. 58.8 D482
- 67469 GOCKLER, L. Analyzing tractor prices. (Hu) Magyar Mezogazdasag 23(9):8-9. Feb.28,1968. 19 M27
- 67470 HAMMER, W. Reloading of agricultural products in junction points. (Ge) Deut. Agrartech. 18(1):23-25. Jan.1968. 58.8 D482
- 67471 JALASS, G. Determination of cost prices in agricultural transports. I. (Ge) Deut. Agrartech. 18(1):21-23. Jan.1968. 58.8 D482
- 67472 KHCHATRYAN, KH. A., and MISAKYAN, R. KH. Trajectory of operating wheel tractor, by crossing slopes. (Rus) Mekh. Elek. Sots. Sel. Khoz. 1:43-44. 1968. 58.8 M46
- 67473 KODENKO, M. M., and ROSLAVTSEV, A. V. Improvement of frequency characteristics of automatic device for determination of tractor efficiency. (Uk) Visn. Sil's'kohospod. Nauk. 1:25-30. Jan.1968. 20 V82  
Russian summary.
- 67474 LONG, M. E. Adjust and service distributor for more power. Hoard's Dairyman 113(5):272,326-327. Mar.10,1968. 44.8 H65  
Tractors.
- 67475 LONG, M. E. Clean fuel is good for diesels. World Farming 10(3):22-23. Mar.1968. 30.08 W89  
Diesel tractors.
- 67476 LONG, M. E. Select the farm tractor to fit your needs. Hoard's Dairyman 113(6):362-363. Mar.25,1968. 44.8 H65
- 67477 MATVEEV, A. Performance of the tractor hydraulic system and its dependence upon the condition of the oil. (Rus) Tekh. Sel'skom Khoz. 2:63-64. 1968. 58.8 M111
- 67478 MILKO-CHERNOMORETS, N. A., and SHILIN, A. P. The development of agricultural transport in the Belorussian SSR. (Ge) Deut. Agrartech. 18(1):18-20. Jan.1968. 58.8 D482  
Includes tractors.
- 67479 MUHREL, K. Functions and problems of agricultural transports and food products under the conditions of developing cooperative relations. (Ge) Deut. Agrartech. 18(1):1-5. Jan.1968. 58.8 D482

- 67480 NATIONAL FARM AND POWER EQUIPMENT DEALERS ASSOCIATION. Official tractor and farm equipment guide, spring 1968, January-June. St. Louis, 1967. 376 p. 58.9 N215
- 67481 OTTO, W. Improvement of trailers for agricultural transports. (Ge) Deut. Agrartech. 18(1):9-12. Jan.1968. 58.8 D482
- 67482 PELVA, A. Replacement and extension of the hauling power stock of agriculture. II. (Hu) Statist. Szemle 45(12):1227-1240. Dec.1967. 266.5 St2M  
English summary.  
Tractors and combines, chiefly.
- 67483 PETERSEN, R. Movement of mass commodities and their technical solution. (Ge) Landmasch.-Markt 46(23):7-8. Nov.8,1967. 58.8 L239  
Transportation on the farm.
- 67484 ROOSMALEN, H. VAN, and MULLEM, W. VAN. Four-wheeled mechanization of strawberries. (Du) Groenten Fruit 23(18):791. Nov.8,1967. 80 G89  
Tractors.
- 67485 SCHWARZBACH, R. Organization of agricultural transports. (Ge) Deut. Agrartech. 18(1):6-9. Jan.1968. 58.8 D482
- 67486 SCHWEIZERISCHER TRAKTORVERBAND. Report of activity from July 1, 1966 to June 30, 1967 [of the Swiss Tractor Association]. (Ge) Traktor Landmasch. 30(3):157-163. (Cont.) Feb.2,1968. 58.8 T678Ag
- 67487 SORSET, A. Modern transport equipment makes the work in the storage room easier. (No) Gartneryrket 43(57):922,931-932. Oct.27, 1967. 80 G1938  
On the farm.
- 67488 STRUBE, H. The joint shaft, important link between tractor and equipment. (Ge) Chem. Tech. Landwirt. 19(2):40-42. Feb.1968. 384 C4292  
Telescoping power take-off shaft.
- 67489 TABLYBAEV, F. N. Determination of the service time for tires. (Rus) Mekh. Elek. Sots. Sel. Khoz. 3:39-41. 1968. 58.8 M46
- 67490 TIRES for agricultural equipment. I. (Fr) France. Centre Nat. Etud. Exp. Mach. Agr. Bull. 120:33-54. Jan.1968. 58.9 F843B
- 67491 TRONDIN, V., BUGAKOV, YU., and SALAMASOV, G. Warming-up tractors, before starting. (Rus) Tekh. Sel'skom Khoz. 12:46-47. 1967. 58.8 M11
- 67492 WAYMAN, J. A. Soil compression by tractor wheels; its effect on sugar beet dirt tares. Brit. Sugar Beet Rev. 36(2):87,90. Dec.1967. 66.8 B77
- 67493 ZHILIN, A., VRUBLEVSKII, V., and LABODAEV, V. Transportation in winter. (Rus) Tekh. Sel'skom Khoz. 2:60-61. 1968. 58.8 M11  
On the farms.
- 67494 ZOLOTAREVSKAYA, D. I. Analytical determination of interaction of wheeled machines with the ground. (Rus) Timiryazevskaya Sel'skokhoz. Akad. Izv. 6:188-192. 1967. 106 P44  
English summary.  
Vehicles.

### FARM STRUCTURES AND RURAL HOUSING

- 67495 PRESTEMON, D. R. Least-cost wall and floor constructions for limiting transmission of noise. Iowa Agr. Home Econ. Exp. Sta. Spec. Rep. 55,16 p. Feb.1968. 100 Io9Sp
- 67496 RUSSELL, K. M. Slatted-floor pig pens. Agr. Gaz. New S. Wales 78(5):293-301. May 1967. 23 N472
- 67497 STIETENROTH, K. Experiments with litterless stall floors. (Ge) Tierzuchter 20(2):42-44. Jan.20,1968. 49 T445  
Includes wood utilization.
- 67498 WALKER-LOVE, J., LAIRD, R., and FORSYTH, R. J. Slatted floors for beef cattle. Scot. Agr. 47(1):14-17. Winter 1967/68. 10 Sco82So
- 67499 WRATHALL, L. S. What price farm buildings? Great Brit. Min. Agr. Fish. Food. Agr. 74(9):432-439. Sept.1967. 10 G79J

Animal Shelters and Animal Service Buildings

- 67500 BARKSDALE, B. Subherd housing for better dairying. *Farm Quart.* 23(2):68-71,136. Spring 1968. 6 F22995
- 67501 BERTONCELJ, M., KERVINA, F., and SOBAR, S. A new type of large dairy barn. (Ge) *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. A: 473-478. 1966. SF223.15 1966 v.1 English summary, p.752. Includes designs in Yugoslavia.
- 67502 BRODERSEN, G. Rinderställe—modern gebaut [Cattle barns—of modern construction]. *Mitt. Deut. Landwirt.-Ges. Illus. Beilage* 1,8 p. Jan.25,1968. 18 N39A
- 67503 BROZ, V. Ventilation system in the housing for poultry. (Cz) *Mech. Zemedel.* 18(1):16-22. 1968. 58.8 M467
- 67504 CLARKE, N. J. New season's dairy resolutions should accent cleanliness for quality. *New Zeal. J. Agr.* 115(1):93,95. July 1967. 23 N48J Dairy barns.
- 67505 COTTER, L. P. Time on winter maintenance is time well spent. *New Zeal. J. Agr.* 114(5): 50-51,53. May 1967. 23 N48J Chiefly dairy barn sanitation.
- 67506 CUNNINGHAM, J. M. M., and SOUTAR, D. S. Sheep housing. *Scot. Agr.* 47(1):5-10. Winter 1967/68. 10 Sco82So
- 67507 EILERS, J. F. Arrowhead design of Angle park dairies. *New Zeal. J. Agr.* 115(6):44-45,47,49. Dec.1967. 23 N48J
- 67508 FELTON, K. E., and CASON, J. L. Housing for dairy herd replacements. *Md. Univ. Ext. Fact Sheet* 192,4 p. June 1967. 275.29 M36Fa Designs for housing calves.
- 67509 GADD, J. Tailored for climate. *Pig Farming* 16(1):20-21, map. Jan.1968. 46.8 P623 Swine housing in Great Britain.
- 67510 GIRDLESTONE, P. C. Farm buildings re-search—a point of view. *Great Brit. Min. Agr. Fish. Food. Agr.* 74(8):388-393. Aug.1967. 10 G79J Livestock housing and grain silos.
- 67511 GROUT, A. R., and DUM, S. A. Is the stall barn obsolete? *Hoard's Dairyman* 113(6):357. Mar.25,1968. 44.8 H65
- 67512 HAASE, H. Round around the hen stall. (Ge) *Landmasch.-Markt* 46(18):13-15. Aug.30,1967. 58.8 L239 Includes feeding and watering equipment.
- 67513 HALL, M. D. Solar-heated ventilation air for swine buildings. (Condensed) *Agr. Eng.* 49(2): 79,81. Feb.1968. 58.8 Ag83
- 67514 HANSEN, E. Many animals like it warm; is heating of barns economic? (Ge) *Übersicht* 19 (1):26-29. Jan.13,1968. 18 Ub3
- 67515 KERVINA, F. F., BERTONCELJ, M. M., and SOBAR, S. B. Circulator—new development of abreast milking parlour for large herds. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. A:487-489. 1966. SF223.15 1966 v.1 Yugoslavia.
- 67516 KONECNY, V. Design of housing for livestock maintenance without the use of litter. (Cz) *Mech. Zemedel.* 18(1):10-13. 1968. 58.8 M467 Cattle housing.
- 67517 LADUE, E. L. Planning aid for designing free stall systems. *Cornell Univ. Coll. Agr. Dep. Agr. Econ. A. E. Ext.* 471,16 p. July 1967. 281.9 C81A4 Dairy barns.
- 67518 MENNEER, R. R. The calf nook system. *Great Brit. Min. Agr. Fish. Food. Agr.* 74(12):595-598. Dec.1967. 10 G79J Housing.
- 67519 MILNE, R. Poultry building ventilation. *Can. Who's Who Poultry Indus.* 1967:30-31,33-39. 225 C1694
- 67520 MORRIS, P. Simple calf pens. *Beef Sheep Farming* 5(1):13,15,24. Jan.1968. 43.8 B392
- 67521 OYSTER, H. E. Meat and vegetables grown in skyscrapers. *Edison Elec. Inst. Bull.* 35(9): 343-345. Oct.1967. 335.8 Ed4 Controlled environment for a livestock farm of the future.
- 67522 PARSONS, L. M., and BUTLER, E. R. Efficiency in dairy buildings. *Great Brit. Min. Agr. Fish. Food. Agr.* 74(9):425-430. Sept.1967. 10 G79J Design research.
- 67523 RUHMANN, H. Relation between milk stands, capital requirement and management costs. (Ge) *Tierzuchter* 20(3):85-87. Feb.5,1968. 49 T445
- 67524 SCHMISSEUR, W. E., and others. A comparison of free stall and loose housing systems with regard to materials handling, cow cleanliness and labor requirements. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. A:479-482. 1966. SF223.15 1966 v.1 J. L. Albright, W. H. M. Morris, B. A. McKenzie, and A. C. Dale, joint authors.
- 67525 SZEP, I. Comparative study of poultry houses. (Hu) *Agrartud. Kozlem.* 26(3/4):401-405. 1967. 19 B855
- 67526 TOMORY, L. Relation between stall construction and production in cattle and swine rearing. (Hu) *Agrartud. Kozlem.* 26(3/4):387-390. 1967. 19 B855
- 67527 U. S. AGRICULTURAL RESEARCH SERV. Dairy housing equipment, permanent-type construction; cooperative farm building plan No. 5977. U. S. D. A. Misc. Publ. 1068,2 p. Feb. 1968. 1 Ag84M
- 67528 WEIR, F. F. A. Siting of new dairy premises. *New Zeal. J. Agr.* 114(6):55,57. June 1967. 23 N48J Sanitary sites for barns.
- 67529 WHITLOCK, R. Why erect new farm buildings? *Great Brit. Min. Agr. Fish. Food. Agr.* 74(7): 317-321. July 1967. 10 G79J Conversion of old buildings for dairy cattle.
- 67530 WOOD, N. B. Buildings for the single-suckler herd. *Great Brit. Min. Agr. Fish. Food. Agr.* 74(10):497-499. Oct.1967. 10 G79J Beef cattle housing designs.
- 67531 WRATHALL, L. Temporary buildings of pole construction. *Great Brit. Min. Agr. Fish. Food Agr.* 74(8):396-397. Aug.1967. 10 G79J Barns.

Farmhouses and Farmsteads

- 67532 BERRY, J. A dream for all America, better housing. *Tex. Agr. Progr.* 14(1):10-11. Winter 1968. 100 T31Te Extension work.
- 67533 U. S. FARMERS' HOME ADMIN. Self-help housing for low income rural families. U. S. D. A. PA-822,8 p.-folder. Nov.1967. 1 Ag84Pro

Greenhouses and Plant Service Buildings

- 67534 FORBES, I. G. Weatherproof glasshouse built without putty. *New Zeal. J. Agr.* 114(6):71-72. June 1967. 23 N48J
- 67535 GULYAEV, G. Investigating parameters of the greenhouse, as an object for automation. (Rus) *Kartofel' Ovoshchi* 12:27-30. Dec.1967. 75.8 K147 Controlled Environment.
- 67536 HOLSTEYN, G. P. A. VAN. Cooling of greenhouses by means of roof sprayers. (Du) *Groenten Fruit* 23(17):740. Nov.1,1967. 80 G89
- 67537 JÜNG, J. A new vegetation hall for pot experiments. (Ge) *Chem. Tech. Landwirt.* 19(1):28-29. Jan.1968. 384 C4292 Greenhouse at the Limburgerhof Research Station of the BASF.
- 67538 KITAMURA, K. On the soil-temperature and the air temperature in and out a vinyl house the case of night. (Ja) *Soc. Agr. Meteorol. Jap. J. Agr. Meteorol.* 23(2):75-80. Sept.1967. 340.9 S61 English summary. Greenhouses.



- 67539 KOK, J. Ventilation with a hay winch. (Du) Groenten Fruit 23(14):603. Oct.11,1967. 80 G89  
Greenhouse ventilation.
- 67540 LEBL, D., and BARINOV, A. The microclimate of heated greenhouses under plastics. (Rus) Kartofel' Ovoshchi 11:37-38. Nov.1967. 75.8 K147
- 67541 LIPOV, YU. N., and MIKAYA, B. L. Calculating installations and regime of the solution supply for hydroponic plant growing. (Rus) Mekh. Elek. Sots. Sel. Khoz. 3:26-28. 1968. 58.8 M46
- 67542 MARTYSHENKO, I. I., and KOTOV, B. I. Studying dynamics of heating hotbeds with electric system. (Rus) Mekh. Elek. Sots. Sel. Khoz. 3:24-26. 1968. 58.8 M46
- 67543 PCHELKIN, YU. N., and LOPATCHENKO, A. V. Electric heating in the plastic greenhouse. (Rus) Mekh. Elek. Sots. Sel. Khoz. 3:22-24. 1968. 58.8 M46
- 67544 SIVASHINSKII, I. Gas heated plastic greenhouse. (Rus) Tekh. Sel'skom Khoz. 2:4-7. 1968. 58.8 M11

#### Materials and Methods

- 67545 PORTH, H. Things worth knowing about building materials—cement. (Ge) Chem. Tech. Landwirt. 19(1):12-14. Jan.1968. 384 C4292

#### Storage Structures

- 67546 AUSTIN, R. W. Bulk storage of potatoes out of doors. Great Brit. Min. Agr. Fish. Food. Agr. 74(8):379-382. Aug.1967. 10 G79J  
Temporary structure.
- 67547 BARADA, L. Careful storage of seed potato. (Hu) Magyar Mezogazdasag 22(47):10-11. Nov.22,1967. 19 M27  
Includes structures.
- 67548 BORUS, J. Seed potato storage in winterized structures. (Hu) Magyar Mezogazdasag 22(46):11. Nov.15,1967. 19 M27
- 67549 GARTIG, W., and HENNIG, B. Intermediate storage of anhydrous ammonia in agriculture. (Ge) Deut. Agrartech. 18(2):77-80. Feb.1968. 58.8 D482  
Structures.
- 67550 LYCETT, K. S. Multi-purpose ventilated flat floor. Great Brit. Min. Agr. Fish. Food. Agr. 74(7):350-351. July 1967. 10 G79J  
Grain storage.
- 67551 MOSKALEV, V. G. Stacks on concret foot-plates. (Rus) Len Konoplya 1:26-27. 1968. 73.8 L542  
Flax storage.
- 67552 SNYDER, D. P. Have you considered a bunker silo? Hoard's Dairyman 113(4):199,237. Feb.25,1968. 44.8 H65
- 67553 STRICKLER, P. E., SMITH, H. V., and KENDALL, J. R. Silos, silage handling practices, and minor feed products. U. S. D. A. Statist. Bull. 415,16 p. Jan.1968. 1 Ag84St

#### FARM UTILITIES

##### Electricity and Electrification

- 67554 BATYAN, A. M., and KALININ, L. A. Montazh i ekspluatatsiya elektroustanovok v sel'skom khozyaistve [Assemble and usage of electrical installations on the farm]. Minsk, Urozhai, 1967. 285 p. Ref. TK4018.B3
- 67555 DEMIN, A. V. The All-Union Institute of Agricultural Electrification [Vsesoyuznyi Institut Elektrifikatsii Sel'skogo Khozyaistva]. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 11:139-142. Nov.1967. 20 V633  
Activities.
- 67556 KORSHUNOV, A. P. Standards for planning electric lines on the farms. (Rus) Mekh. Elek. Sots. Sel. Khoz. 3:32-34. 1968. 58.8 M46

- 67557 LISTOV, P. N. Agricultural electrification: present state and principal trends. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 11:80-87. Nov.1967. 20 V633  
English summary.
- 67558 PROST, M., and SZUMEREI, G. Sliding device for protection against the high tension lines. (Rum) Mec. Elec. Agr. 13(1):61-62. Jan.1968. 58.8 M4623
- 67559 RADOI, A. Protection against accidental discharges of electric installations in agriculture. (Rum) Mec. Elec. Agr. 13(1):53-61. Jan.1968. 58.8 M4623

#### Heating, Lighting, and Radiation

- 67560 GAIDUK, V. Electrode water-heating boilers. (Rus) Tekh. Sel'skom Khoz. 2:50-52. 1968. 58.8 M11
- 67561 PAZRAL, E. Electrical heating of water for drinking in the loose system of cattle housing. (Cz) Mech. Zemedel. 18(1):L14-15. 1968. 58.8 M467
- 67562 ROSENWALD, P. J. Instructions for the storage of liquid fuels. (Du) Loonbedrijf Land-Tuinbouw 21(1):23,25. Jan.1968. 283.8 L87  
Petroleum, diesel oil, and propane or butane.

#### Power Plants, Motors and Engines on the Farm

- 67563 FUX, A. Energy supply of Wallis alpine farms. (Ge) Grune 96(1):14-18. Jan.5,1968. 17 Sch9
- 67564 STRUBE, H. What propulsion system for blowers? (Ge) Chem. Tech. Landwirt. 19(1):10-11. Jan.1968. 384 C4292  
Electric and diesel tractor motors compared for use in blower systems.

#### Sewage and Waste Disposal

- 67565 KASTLI, P. The present possibilities for sanitary disposal and use of sewage in agriculture. (Ge) Grune 96(1):2-6. Jan.5,1968. 17 Sch9  
As fertilizers in Switzerland.
- 67566 PHAGAN, C. V. Ranch sewage, how to dispose of it safely, with maximum ease. U. S. Fur Rancher 47(1):28-29,32. Feb.1968. 412.629 Am3M
- 67567 QUICK, A. J. Disposal of farm effluent—the dairy farm. Great Brit. Min. Agr. Fish. Food. Agr. 74(8):383-387. Aug.1967. 10 G79J
- 67568 STEWART, G. T. Not so rich as you think. Boston, Houghton Mifflin Company, 1968. 248 p. TD180.S7  
On the problem of waste disposal, with a chapter on agricultural refuse.

#### Telephones

- 67569 REPP, KH. Phototelegraph service on the state farm. (Rus) Tekh. Sel'skom Khoz. 11:70-71. 1967. 58.8 M11

#### Water Supply

- 67570 FABIAN, T., and SAJO, E. Preparation for farm water management. (Hu) Magyar Mezogazdasag 23(10):22-23, map. Mar.6,1968. 19 M27
- 67571 SCOTT, D. F. Pump installation and servicing. New Zeal. J. Agr. 116(2):50-51,53. Feb.1968. 23 N48J





## ENTOMOLOGY

GENERAL ENTOMOLOGY  
(EXCEPT TAXONOMIC AND GEOGRAPHIC)

- 67572 ARTHUR, A. P. Further information on the control of the introduced European skipper, *Thymelicus lineola*, with *Bacillus thuringiensis*. *J. Invertebrate Pathol.* 10(1):146-150. Feb. 1968. 421 J826
- 67573 BERRYMAN, A. A. Mathematical description of the sterile male principle. *Can. Entomol.* 99 (8):858-865. Aug. 1967. 421 C16  
Insects; research methods.
- 67574 BOSSERT, W. H. Temporal patterning in olfactory communication. *J. Theor. Biol.* 18(2): 157-170. Ref. Feb. 1968. 442.8 J8223  
Applicable to insects.
- 67575 BROGDON, J. E. Extension entomology: past present and future. *Fla. Entomol.* 50(4):243-247. Dec. 1967. 420 F662
- 67576 CANTWELL, G. E., FAUST, R. M., and POOLE, H. K. Attempts to cultivate insect viruses in avian eggs. *J. Invertebrate Pathol.* 10(1):161-162. Feb. 1968. 421 J826  
Turkey eggs.
- 67577 CARPENTER, F. M. The structure and relationships of Stefanomioptera Guthorl (Miomoptera-Palaeomanteidae). *Psyche* 74(3):224-227. Sept. 1967. 421 P95  
Found in the Upper Carboniferous strata of the Saar Basin in Germany.
- 67578 CARTIER, J. J. Factors of host plant specificity and artificial diets. *Entomol. Soc. Amer. Bull.* 14(1):18-21. Ref. Mar. 1968. 423.9 En8
- 67579 CHASE, A. M., UNWIN, D. M., and BROWN, R. H. J. A simple electrolytic respirometer for the continuous recording of oxygen consumption under constant and natural conditions. *J. Exp. Biol.* 48(1):207-215. Feb. 1968. 442.8 B77  
Insects.
- 67580 DADD, R. H. Problems connected with inorganic components of aqueous diets. *Entomol. Soc. Amer. Bull.* 14(1):22-26. Mar. 1968. 423.9 En8  
Minerals in artificial diets for insects.
- 67581 DAVIS, G. R. F. Phagostimulation and consideration of its role in artificial diets. *Entomol. Soc. Amer. Bull.* 14(1):27-30. Ref. Mar. 1968. 423.9 En8
- 67582 DEMOULIN, G. Contribution a l'etude morphologique, systematique et phylogenie des ephemeropteres jurassiques d'Europe centrale. IV. Hexagenitidae et Paedephermeridae [Contribution to the morphological, taxonomical and phylogenetic study of Central European Jurassic Ephemeroptera. IV. Hexagenitidae and Paedephermeridae]. *Inst. Roy. Sci. Natur. Belg. Bull.* 43(21), 9 p. Ref. Aug. 16, 1967. 504 B835B
- 67583 DETHIER, V. G. To each his taste. *Entomol. Soc. Amer. Bull.* 14(1):10-14. Ref. Mar. 1968. 423.9 En8  
Insect feeding habits and sense organs.
- 67584 ERIKSSON, G. An electrophoretic technique to concentrate and separate substances and its application to insect hemolymph. *Acta Chem. Scand.* 21(8):2290-2291. 1967. 385 Ac82
- 67585 GALBRAITH, M. N., and others. The identity of the 20-hydroxy-ecdysones from various sources. *Naturwissenschaften* 54(17):471-472. Sept. 1, 1967. 474 N213  
D. H. S. Horn, P. Hocks, G. Schulz, and H. Hoffmeister, joint authors.  
Isolated from arthropods and plants.
- 67586 GRAVES, R. C., and GRAVES, A. C. F. The insects and other inhabitants of shelf fungi [Polyporaceae and Theleporaceae] in the southern Blue Ridge region of western North Carolina. III. Isoptera, Lepidoptera, and ants. *Entomol. Soc. Amer. Ann.* 61(2):383-385. Ref. Mar. 1968. 420 En82
- 67587 GUTHRIE, F. E., and HODGSON, E. Adaptation of insects to nornicotine. *Entomol. Soc. Amer. Ann.* 61(2):545-547. Mar. 1968. 420 En82  
Found in tobacco leaves.
- 67588 HALGREN, L. A., and RETTENMEYER, C. W. An insect flight chamber. *J. Econ. Entomol.* 60(4):1165-1166. Aug. 15, 1967. 421 J822
- 67589 HUGER, A. M., and KRIEG, A. A new mode of multiplication of Rickettsia in insects. (Ge) *Naturwissenschaften* 54(17):475. Sept. 1, 1967. 474 N213
- 67590 INTERNATIONAL SYMPOSIUM ON ANIMAL TOXINS, 1, ATLANTIC CITY, 1966. Animal toxins; a collection of papers, edited by F. E. Russell and P. R. Saunders. Oxford, Pergamon Press, 1967. 428 p. Ref. SF757.5.I5 1966  
Includes arthropods.
- 67591 JENSEN, P. L. Sky divers of the Midwest. *Org. Gard. Farming* 15(3):96-97. Mar. 1968. 57.8 Or32  
Gulls as insect predators.
- 67592 KASTING, R., and MCGINNIS, A. J. Growth cabinet for the efficient handling of containers used for rearing insects. *Can. Entomol.* 100(2): 193-195. Feb. 1968. 421 C16
- 67593 KRYZHANOVSKI, O. L. Contribution to the Institute of Zoology. (Rus) *Zashch. Rast.* 1:10-12. 1968. 421 Z1  
At the Akademy of Sciences of the USSR [Akademiya Nauk SSR, Institut Zoologii].  
To general entomology.
- 67594 LEFTWICH, A. W. A dictionary of zoology. Ed. 2. London, Constable, 1967. 319 p. Ref. QL9.L4 1967  
Includes entomology.
- 67595 MARUYAMA, K., PRINGLE, J. W. S., and TREGAR, R. T. The calcium sensitivity of ATPase activity of myofibrils and actomyosins from insect flight and leg muscles. *Roy. Soc. Proc. Ser. B, Biol. Sci.* 169(1016):229-240. Ref. Feb. 27, 1968. 501 L84B
- 67596 MORIYAMA, H., and NAKANISHI, K. Insect hormones. VI. Confirmation of the skeletal structure of ponasterone A. *Tetrahedron Lett.* 9:1111-1112. Feb. 1968. 385 T29
- 67597 PEPPER, B. P. The second generation; a message from the president. *Entomol. Soc. Amer. Bull.* 14(1):1-2. Mar. 1968. 423.9 En8  
Entomologists.
- 67598 PIMENTEL, D. Population regulation and genetic feedback. *Science* 159(3822):1432-1437. Ref. Mar. 29, 1968. 470 Sci2  
Includes insects and plants.
- 67599 PRACTICAL advice on arthropods. *Pflanzenarzt* 21(2):23. (Cont.) Feb. 1, 1968. 464.9 P482  
Biology of centipedes and insects.
- 67600 PRICE, D. W. Seasonal changes in the abundance and distribution of the micro-arthropod fauna in a California pine forest soil. *Diss. Abstr., Sect. B*, 28(5):2192B. Nov. 1967. Z5055.U49D53  
Ponderosa pine.
- 67601 ROCKSTEIN, M. Cellular age changes in insects. *Soc. Exp. Biol. Symp.* 21:337-349. Ref. 1967. 442.9 So15
- 67602 SANDERS, D. P. Population dynamics of the insect species associated with bovine manure in central Indiana. *Diss. Abstr., Sect. B*, 28(6): 2468B. Dec. 1967. Z5055.U49D53  
From the orders Coleoptera, Diptera, and Hymenoptera.
- 67603 SODERSTROM, E. L., and LOVITT, A. E. A volumetric dispenser for insect media. *J. Econ. Entomol.* 60(4):1179-1180. Aug. 15, 1967. 421 J822
- 67604 TINBERGEN, N. Tiere untereinander; Formen sozialen Verhaltens [Social behavior in animals]. Ed. 2. Berlin, Parey, 1967. 150 p. QL751.T52 1967  
Bibliography, p. 129-137.  
Includes insects.  
Translation of Social behavior in Animals.
- 67605 TREGAR, R. T. The oscillation of insect flight muscle. *Curr. Top. Bioenerg.* 2:269-286. 1967. QH511.S2  
Review of the literature.

- U. S. FOREST SERV. PACIFIC NORTHWEST FOREST AND RANGE EXPERIMENT STATION. An abridged glossary of terms used in invertebrate pathology, by E. A. Steinhaus and M. E. Martignoni. Portland, Oregon, 1967. 22 p. Ref. aRB115.S7  
Applied to insects.
- WADLEY, F. M. Experimental statistics in entomology. Washington, Graduate School Press, U. S. Dept. of Agriculture, 1967. 133 p. Ref. aQL463.W3
- WILSON, E. O., CARPENTER, F. M., and BROWN, W. L. The first Mesozoic ants. Science 157(3792):1038-1040. Sept.1,1967. 470 Sci2  
New Jersey.
- YASUMATSU, K. Recent advances in entomology in Japan. Entomol. Soc. Amer. Bull. 14(1): 15-17. Mar.1968. 423.9 En8
- General Entomology  
Arachnida, Myriapoda, etc.
- ABID, M. K. Mortality, longevity, and fecundity of some spider mites attacking cotton as affected by selected chemicals. Diss. Abstr., Sect. B, 28(6):2465B. Dec.1967. Z5055.U49D53
- AESCHLIMANN, A., and HECKER, H. Preliminary observations of ultrastructure of developing oocytes in *Ornithodoros moubata*, Murray (Ixodoidea, Argasidae). (Fr) Acta Trop. 24(3): 225-243. 1967. 475 Ac8  
English summary.
- ALBRECHT, P., and KOZUCH, O. Rapid identification of tick-borne encephalitis virus by the fluorescent antibody technique. (Sp) Ofic. Sanit. Panamer. Bol. 64(2):122-129. Feb.1968. 449.9 P192B  
English summary.  
Isolated from *Ixodes ricinus*.
- BABU, K. S., and REDDY, P. S. Unit-hair receptor activity from the telson of the scorpion *Heterometrus fulvipes*. Cur. Sci. 36(22):599-600. Nov.20,1967. 475 Sci23
- BOHM, H. Spider mite predators. (Ge) Pflanzenschutz 21(3):32. Mar.1,1968. 464.9 P482  
Insects and other mites.
- CALDWELL, S. D. Cotton, a new host for the spider mite *Eotetranychus smithi*. J. Econ. Entomol. 60(4):1169. Aug.15,1967. 421 J822
- CLOUDSLEY-THOMPSON, J. L. Reproduction in Solifugae. Entomol. Mon. Mag. 103 (1235/1237):144. Apr./June 1967. 421 En86
- CROWELL, R. M. Supplementary observations of the early developmental stages of *Albia caerulea* (Acarina: Axonopsidae). Can. Entomol. 100(2):178-180. Feb.1968. 421 C16  
Hydrachnellae.
- FRAUCA, H. Australia's bird-snaring spiders and others. Entomologist [London] 100(1252): 238-240. Sept.1967. 421 En8
- HALL, F. R. Cyanide tolerance in millipedes. Diss. Abstr., Sect. B, 28(6):2466B. Dec.1967. Z5055.U49D5
- JENSER, G. The inhibitory action of 2,4,6-trichlorophenoxy ethanol on females of red spider mite (*Metatetranychus ulmi* Koch). Acta Phytopathol. 2(4):373-377. Ref. 1967. SB371.A3
- KENSLER, D. L., and STREU, H. T. A biological and toxicological study of strains of two-spotted spider mites [*Tetranychus urticae*]. J. Econ. Entomol. 60(4):1073-1078. Aug.15,1967. 421 J822
- KIRCHNER, W. P. Spermatophores of Halacaridae (Acarina). (Ge) Naturwissenschaften 54 (13):345-346. July 1,1967. 474 N213
- KOPPENHOFER, E., and SCHMIDT, H. Incomplete sodium inactivation in nodes of Ranvier treated with scorpion venom. Experientia 24 (1):41-42. Ref. Jan.15,1968. 475 Ex7  
In toads.
- LEE, M. S., and DAVIS, D. W. Life history and behavior of the predatory mite *Typhlodromus occidentalis* in Utah. Entomol. Soc. Amer. Ann. 61(2):251-255. Ref. Mar.1968. 240 En82  
Phytoseiid predator of *Tetranychus urticae* in apple orchards.
- MARETIC, Z. Venom of an East African orthognath spider [*Pterinochilus* spp.]. Int. Symp. Anim. Toxins. Papers, 1st Symp.:23-28. Ref. 1966, pub.1967. SF757.5.15 1966
- MARTENS, J. The significance of a chelicera gland of *Phalangida*. (Ge) Naturwissenschaften 54(13):346. July 1,1967. 474 N213
- MCCRONE, J. D., and HATALA, R. J. Isolation and characterization of a lethal component from the venom of *Latrodectus mactans mactans*. Int. Symp. Anim. Toxins. Papers, 1st Symp.:29-34. Ref. 1966, pub.1967. SF757.5.15 1966
- MCINTOSH, M. E., and WATT, D. D. Biochemical-immunochemical aspects of the venom from the scorpion *Centruroides sculpturatus*. Int. Symp. Anim. Toxins. Papers, 1st Symp.:47-58. 1966, pub.1967. SF757.5.15 1966
- MCURTU, J. A., and SCRIVEN, G. T. Studies on predator-prey interactions between *Amblyseius hibisci* and *Oligonychus pinicae*: effects of host-plant conditioning and limited quantities of an alternate food. Entomol. Soc. Amer. Ann. 61(2):393-397. Ref. Mar.1968. 420 En82
- PEAKALL, D. B. Autoradiographic localization of acetylcholine on the ampullate gland of the spider [*Areneus sericatus*]. J. Pharmacol. Exp. Therap. 160(1):81-90. Ref. Mar.1968. 396.8 J82
- SCHILDKNECHT, H., MASCHWITZ, U., and WENNEIS, W. F. New substances from defensive secretion of the diplopod genus *Glomeris*. XXIV. (Ge) Naturwissenschaften 54(8):196-198. Apr.15,1967. 474 N213  
*Glomeris marginata*.
- SMITH, D. S., and RUSSELL, F. E. Structure of the venom gland of the black widow spider *Latrodectus mactans*. A preliminary light and electron microscopic study. Int. Symp. Anim. Toxins. Papers, 1st Symp.:1-15. 1966, pub. 1967. SF757.5.15 1966
- SMITTLE, B. J., HILL, S. O., and PHILIPS, F. M. Migration and dispersal patterns of Fe<sup>59</sup>-labeled lone star ticks [*Amblyomma americanum*]. J. Econ. Entomol. 60(4):1029-1031. Aug.15,1967. 421 J822
- STAHNKE, H. L., and JOHNSON, B. D. *Aphonopelma tarantula* venom. Int. Symp. Anim. Toxins. Papers, 1st Symp.:35-39. 1966, pub. 1967. SF757.5.15 1966  
Includes comparison to *Centruroides sculpturatus*.
- THEAKER, T. L., and TONKS, N. V. A method for rapid mass collection of the garden symphylan [*Scutigera immaculata*] from laboratory cultures. J. Econ. Entomol. 60(4):1191. Aug.15,1967. 421 J822
- TISCHLER, W. On the biology and ecology of the opilionid *Mitopus morio* F. (Ge) Biol. Zentralbl. 86(4):473-484. Ref. July/Aug.1967. 442.8 B523  
English summary.
- WATERHOUSE, J. S. Studies on the garden symphylan, *Scutigera immaculata* (Symphyla: Scutigerellidae). Can. Entomol. 100(2):172-178. Ref. Feb.1968. 421 C16  
Biology.
- WATT, D. D., and MCINTOSH, M. E. Molecular aspects of neurotoxic principle in venom of the scorpion *Centruroides sculpturatus*. Int. Symp. Anim. Toxins. Papers, 1st Symp.:41-46. Ref. 1966, pub.1967. SF757.5.15 1966
- YOUNG, J. H. The morphology of *Haemogamasus ambulans*. I. Alimentary canal (Acarina: Haemogamasidae). Kans. Entomol. Soc. J. 41 (1):101-107. Ref. Jan.1968. 420 K13
- ZAHL, P. A. Scorpions: living fossils of the sands. Nat. Geogr. 133(3):436-442. Mar.1968. 470 N213  
Biology in Arizona.



General Entomology  
Coleoptera

- 67641 AKESON, W. R., and others. A bioassay for detecting compounds which stimulate or deter feeding by the sweetclover weevil [*Sitona cylindricollis*]. J. Econ. Entomol. 60(4):1082-1084. Aug.15,1967. 421 J822  
G. R. Manglitz, H. J. Gorz, and F. A. Haskins, joint authors.
- 67642 ANDERSON, P. M. Alfalfa weevil control by use of flame needs further testing. Sci. Farmer [Penn. Sta.] 15(2):10. Winter 1968. 100 P381S  
*Hypera postica*, includes life history.
- 67643 BARKER, P. S., and JOHNSTON, J. A. Reproductive capacity of two strains of *Cryptolestes turcicus* (Coleoptera: Cucujidae). Can. Entomol. 100(2):198-199. Feb.1968. 421 C16
- 67644 BENJAMIN, D. M., FREEMAN, G. H., and BROWN, E. S. The determination of irregularly shaped areas of leaves destroyed by chewing insects. Ann. Appl. Biol. 61(1):13-17. Feb. 1968. 442.8 An72  
Tea leaves eaten by weevils and corn leaves eaten by *Spodoptera exempta*.
- 67645 BETZ, N. L., and LAMBREMONT, E. N. Changes in stored glycogen and lipid associated with diapause of the adult boll weevil, *Anthonomus grandis* (Coleoptera: Curculionidae). Entomol. Soc. Amer. Ann. 60(4):866-868. Ref. July 17,1967. 420 En82
- 67646 BLICKENSTAFF, C. C. Winter distribution of adult alfalfa weevils [*Hypera postica*] within alfalfa fields. J. Econ. Entomol. 60(4):1185. Aug.15,1967. 421 J822
- 67647 BYERS, J. R. Histology, histochemistry and fine structure of the cryptonephridium of *Tenebrio molitor* L. Diss. Abstr., Sect. B, 28(6): 2465B. Dec.1967. Z5055.U49D53  
Larvae.
- 67648 CHALFANT, R. B., and MITCHELL, E. R. Some effects of food and substrate on oviposition of the spotted cucumber beetle [*Diabrotica undecimpunctata howardi*]. J. Econ. Entomol. 60(4):1010-1012. Aug.15,1967. 421 J822
- 67649 CHASE, A. M. Effects of actinomycin D on development in pupae of *Tenebrio molitor*. Nature 215(5109):1516-1517. Sept.30,1967. 472 N21
- 67650 CHAUDHRY, H. S., and KAPOOR, R. P. D. Effect of relative humidity on the developmental stages of *Tribolium castaneum* (Coleoptera: Tenebrionidae). Entomol. Soc. Amer. Ann. 61(2):290-292. Ref. Mar.1968. 420 En82
- 67651 COLE, W. E., and WEENIG, C. A technique for inducing attacks and mating of the mountain pine beetle, *Dendroctonus ponderosae* (= *monticolae*) (Coleoptera: Scolytidae). Entomol. Soc. Amer. Ann. 60(4):857-858. July 17,1967. 420 En82
- 67652 COSTANTINO, R. F. On population biology: unification of biochemical, genetical, and biometrical concepts. Diss. Abstr., Sect. A, 28(6): 2271B. Dec.1967. Z5055.U49D53  
Larval growth study with *Tribolium castaneum*.
- 67653 DAVIS, J. W., COWAN, C. B., and PARENCIA, C. R. Emergence of overwintered boll weevils [*Anthonomus grandis*] from hibernation sites near Waco, Texas. J. Econ. Entomol. 60(4): 1102-1104. Aug.15,1967. 421 J822
- 67654 EZUEH, M. I., and HOOPINGARNER, R. A. Apholate chemosterilization of the cereal leaf beetle [*Oulema melanopus*]. J. Econ. Entomol. 60(4):907-910. Aug.15,1967. 421 J822
- 67655 GALFORD, J. R. A technique for rearing larvae of the smaller European elm bark beetle [*Scolytus multistriatus*] on an artificial medium. J. Econ. Entomol. 60(4):1192. Aug.15, 1967. 421 J822
- 67656 GARA, R. I. A field olfactometer for studying the response of the southern pine beetle [*Dendroctonus frontalis*] to attractants. J. Econ. Entomol. 60(4):1180-1181. Aug.15,1967. 421 J822
- 67657 GILLILAND, F. R. Mating behavior and population dynamics of the boll weevil [*Anthonomus grandis*] as related to the sterile-male technique of insect control. Diss. Abstr., Sect. B, 28(3):1269B-1270B. Sept.1967. Z5055.U49D53
- 67658 GLICH, B., and MITLIN, N. An immunological study of the antigens of *Anthonomus grandis grandis* and *Anthonomus grandis thuberiae*. Entomol. Soc. Amer. Ann. 61(2):548-550. Mar. 1968. 420 En82
- 67659 HAGEN, A. F., and ANDERSON, F. N. Nutrient imbalance and leaf pubescence in corn as factors influencing leaf injury by the adult western corn rootworm [*Diabrotica virgifera*]. J. Econ. Entomol. 60(4):1071-1073. Aug.15, 1967. 421 J822
- 67660 HAREIN, P. K., and SODERSTROM, E. L. Coleoptera infesting stored products. In Smith, C. N., ed. Insect colonization and mass production, p.241-257. Ref. 1966. QL497.S6
- 67661 HARMAN, D. M., and KULMAN, H. M. Biology and natural control of the white-pine [Pinus strobus] weevil [*Pissodes strobi*] in Virginia. Entomol. Soc. Amer. Ann. 61(2):280-285. Mar. 1968. 420 En82
- 67662 HARRY, O. G. The effect of a eugregarine Gregarina polymorpha (Hammerschmidt) on the mealworm larva of *Tenebrio molitor* (L.). J. Protozool. 14(4):539-547. Ref. Nov.1967. 439.8 J82
- 67663 HAY, C. J. Frass of some wood-boring insects in living oak (Coleoptera: Cerambycidae: Lepidoptera: Cossidae and Aegeriidae). Entomol. Soc. Amer. Ann. 61(2):255-258. Mar.1968. 420 En82  
An aid in identification.
- 67664 HAYES, J. T., and WHEELER, A. G. Evidence for a sex attractant in *Hemicrepidius decoloratus* (Coleoptera: Elateridae). Can. Entomol. 100(2):207-208. Feb.1968. 421 C16
- 67665 HSIAO, T. H., and FRAENKEL, G. Isolation of phagostimulative substances from the host plant of the Colorado potato beetle [*Leptinotarsa decemlineata*]. Entomol. Soc. Amer. Ann. 61(2): 476-484. Ref. Mar.1968. 420 En82  
Potatoes.
- 67666 HSIAO, T. H., and FRAENKEL, G. The role of secondary plant substances in the food specificity of the Colorado potato beetle [*Leptinotarsa decemlineata*]. Entomol. Soc. Amer. Ann. 61(2):485-493. Ref. Mar.1968. 420 En82
- 67667 HSIAO, T. H., and FRAENKEL, G. Selection and specificity of the Colorado potato beetle [*Leptinotarsa decemlineata*] for solanaceous and nonsolanaceous plants. Entomol. Soc. Amer. Ann. 61(2):493-503. Ref. Mar.1968. 420 En82
- 67668 LADISCH, R. K., LADISCH, S. K., and HOWE, P. M. Quinoid secretions in grain and flour beetles. Nature 215(5104):939-940. Ref. Aug.26,1967. 472 N21  
Tenebrionidae.
- 67669 LANIER, G. N., and WOOD, D. L. Controlled mating, karyology, morphology, and sex-ratio in the *Dendroctonus ponderosae* complex. Entomol. Soc. Amer. Ann. 61(2):517-529, map. Ref. Mar.1968. 420 En82
- 67670 LIPA, J. J. Nosema leptinotarase sp. n., a microsporidian parasite of the Colorado potato beetle, *Leptinotarsa decemlineata* (Say). J. Invertebrate Pathol. 10(1):111-115. Feb.1968. 421 J826
- 67671 LUDWIG, D., RAJENDRAM, G. F., and RAMAZZOTTO, L. J. Changes in reducing carbohydrates and trehalose during development of eggs from young and old *Tenebrio molitor* L. N. Y. Entomol. Soc. J. 76(1):27-31. Ref. Mar.1968. 420 N48J

- 67672 MACALONEY, H. J. White-pine weevil [*Pissodes strobi*]. U. S. Forest Serv. Forest Pest Leaflet 21, rev., 7 p. Aug. 1967. A423.9 F764 Life history and control.
- 67673 MILLERS, I. The biology and ecology of the pine root collar weevil, *Hylobius radicis* Buchanan, in Wisconsin. Diss. Abstr., Sect. B, 28(3):753B-754B. Sept. 1967. Z5055.U49D53
- 67674 MYERS, W. L. Distribution of oviposition slits constructed by *Obera schaumii* Leconte and *Saperda concolor* Leconte (Coleoptera: Cerambycidae) on aspen suckers (*Populus tremuloides* Michaux). Diss. Abstr., Sect. B, 28(6):2209B. Dec. 1967. Z5055.U49D53
- 67675 PATEL, R. M., PATEL, G. G., and VYAS, H. N. Further observations on the biology and control of white grubs (*Holotrichia* sp. near *consanguinea* Blanch) in soil, affecting groundnut in Gujarat. Indian J. Entomol. 29(2):170-176. June 1967. 420 In23
- 67676 PREISS, F. J., and DAVIDSON, J. A. The effects of temperature and humidity on egg hatch of the lesser mealworm, *Alphitobius diaperinus* (Panzer) (Coleoptera: Tenebrionidae). Md. Agr. Exp. Sta. Misc. Publ. 660, 7 p. Ref. Jan. 1968. 100 M36M
- 67677 REXRODE, C. O. Preliminary study on the time and frequency of oak bark beetle [*Pseudopityophthorus*] attacks on oak trees. Plant Dis. Rep. 51(9):755-757. Sept. 1967. 1.9 P69P
- 67678 RIVERO, J. M. DEL, and PLANES, S. Possibilities of controlling the resistant potato beetle. (Sp) Inst. Agr. Catalan San Isidro. Rev. 116(9):171-173. Sept. 1967. 15 Sa5
- 67679 ROSENTHAL, S. S., and KOEHLER, C. S. Photoperiod in relation to diapause in *Hypera posita* from California. Entomol. Soc. Amer. Ann. 61(2):531-534. Ref. Mar. 1968. 420 En82
- 67680 RUDINSKY, J. A., and ZETHNER-MOLLER, O. Olfactory responses of *Hylastes nigrinus* (Coleoptera: Scolytidae) to various host materials. Can. Entomol. 99(9):911-916. Ref. Sept. 1967. 421 C16
- 67681 RUDOLPH, P. On the orientation of *Gyrinus substriatus* Steph. (Whirligig beetle). (Ge) Z. Vergleichende Physiol. 56(4):341-375. Ref. 1967. 444.8 Z3
- 67682 ST. JULIAN, G., and HALL, H. H. Infection of *Popillia japonica* larvae with heat-activated spores of *Bacillus popilliae*. J. Invertebrate Pathol. 10(1):48-53. Ref. Feb. 1968. 421 J826
- 67683 SANDERSON, A. R. Cytological studies of stored product insects. I. *Caryedon gonagra* (F.) (Bruchidae). Roy. Soc. Edinb. Proc. Sect. B, Biol. 70(2):107-114. Ref. 1966/1967, pub. 1968. 501 Ed4P
- 67684 SANTIAGO, C. A. DE. Karyotype of the blue chrysomelid of acerola [*Malpighia punicifolia*] *Leucocera laevis* Weise (Coleoptera, Chrysomelidae). P. R. Univ. J. Agr. 52(1):74-75. Jan. 1968. 8 P832J
- 67685 SHUBECK, P. P. Ecological studies of necrophagous beetles in Hutcheson Memorial Forest. Diss. Abstr., Sect. B, 28(6):2667B. Dec. 1967. Z5055.U49D53
- 67686 SILVERSTEIN, R. M., RODIN, J. O., and WOOD, D. L. Methodology for isolation and identification of insect pheromones with reference to studies on California five-spined *Ips* [*Ips confusus*]. J. Econ. Entomol. 60(4):944-949. Aug. 15, 1967. 421 J822
- 67687 SLUSS, R. Behavioral and anatomical responses of the convergent lady beetle [*Hippodamia convergens*] to parasitism by *Perilitus coccinellae* (Schrank) (Hymenoptera: Braconidae). J. Invertebrate Pathol. 10(1):9-27. Ref. Feb. 1968. 421 J826
- 67688 SOKOLOFF, A., and HOY, M. A. Mutations as possible aids for establishing genitalic homologies in the sexes in *Tribolium castaneum*. Entomol. Soc. Amer. Ann. 61(2):550-553. Ref. Mar. 1968. 420 En82
- 67689 STRONG, R. G., SBUR, D. E., and PARTIDA, G. J. Rearing stored-product insects for laboratory studies: lesser grain borer, [*Rhyzopertha dominica*] granary weevil, [*Sitophilus granarius*] rice weevil [*Sitophilus oryzae*] *Sitophilus zeamais*, and Angoumois grain moth [*Sitotroga cerealella*]. J. Econ. Entomol. 60(4):1078-1082. Aug. 15, 1967. 421 J822
- 67690 SWEENEY, P. R., and others. The embryology of *Lytta viridana* Le Conte (Coleoptera, Meloidae). III. The structure of the chorion and micropyles. Can. J. Zool. 46(2):213-217. Ref. Mar. 1968. 470 C16D
- 67691 THOMAS, H. A., DARST, P. H., and FARRIER, M. H. Acarine associates of the pales weevil, *Hylobius pales* (Coleoptera: Curculionidae). Fla. Entomol. 50(4):263-266. Dec. 1967. 420 F662
- 67692 USHATINSKAYA, R. S., and MINDER, I. F. Diapause of Colorado potato beetle. (Rus) Zashch. Rast. 1:48-50. 1968. 421 Z1
- 67693 WEBER, F. Intraspecific variation of the heterochromatic arm of a chromosome in the genus *Carabus* *auronitens* L. (Coleoptera). (Ge) Chromosoma 23(3):288-308. Ref. Feb. 12, 1968. 442.8 C46
- 67694 WILLIS, H. L. Bionomics and zoogeography of tiger beetles of saline habitats in the central United States (Coleoptera: Cicindelidae). Diss. Abstr., Sect. B, 28(3):1294B. Sept. 1967. Z5055.U49D53
- 67695 WOOD, D. L., and STARK, R. W. The life history of *Ips calligraphus* (Coleoptera: Scolytidae) with notes on its biology in California. Can. Entomol. 100(2):145-151. Ref. Feb. 1968. 421 C16
- 67696 ZETHNER-MOLLER, O., and RUDINSKY, J. A. On the biology of *Hylastes nigrinus* (Coleoptera: Scolytidae) in Western Oregon. Can. Entomol. 99(9):897-911. Ref. Sept. 1967. 421 C16

General Entomology  
Diptera

- 67697 ADAMS, T. S., and MULLA, M. S. The reproductive biology of *Hippelates collusor*. III. Effect of temperature on oogenesis. Entomol. Soc. Amer. Ann. 61(2):368-372. Mar. 1968. 420 En82
- 67698 BARDNER, R. Wheat bulb fly, *Leptohylemyia coarctata* Fall., and its effect on the growth and yield of wheat. Ann. Appl. Biol. 61(1):1-11. Ref. Feb. 1968. 442.8 An72
- 67699 BATEMAN, M. A. Adaptations to temperature in geographic races of the Queensland fruit fly, *Dacus* (*Strumeta*) *tryoni*. Australian J. Zool. 15(6):1141-1161, map. Ref. Nov. 1967. 410 Au73
- 67700 BAY, E. C. A soil-wash puparia extractor for brachycerous Diptera [*Hippelates*]. J. Econ. Entomol. 60(4):1142-1145. Aug. 15, 1967. 421 J822
- 67701 BERRIDGE, M. J. Urine formation by the Malpighian tubules of *Calliphora* [*erythrocephala*]. I. Cations. J. Exp. Biol. 48(1):159-174. Ref. Feb. 1968. 442.8 B77
- 67702 BRATKOWSKI, T. A., and KNOWLES, C. O. Properties of an acetylcholinesterase from the face fly, *Musca autumnalis*. Entomol. Soc. Amer. Ann. 61(2):397-402. Ref. Mar. 1968. 420 En82
- 67703 BUERGER, G. Sense organs on the labra of some blood-feeding Diptera. Quaestiones Entomol. 3(4):283-290. Oct. 1967. 421 Q2
- 67704 CHUNG, S. L. Comparative effects of certain environmental factors upon the life cycles of two mushroom-infesting cecid flies (Diptera: Cecidomyiidae). Diss. Abstr., Sect. B, 28(6):2663B. Dec. 1967. Z5055.U49D53
- 67705 CLAFLIN, T. O. Reservoir Aufwuchs on inundated trees. Amer. Microscop. Soc. Trans. 87(1):97-104, map. Jan. 1968. 440.9 Am33
- Includes Chironomidae in the Missouri Basin.



- 67706 CRAIG, D. A. The clarification of a discrepancy in descriptions of maxillary musculature in larval Simuliidae. *Quaestiones Entomol.* 4(1): 31-32. Jan.1968. 421 Q2
- 67707 CRYSTAL, M. M. Chemical structure and sterilizing activity of N,N'-alkylenebis- (1-aziridinecarboxamides) in screw-worm flies [*Cochliomyia hominivorax*]. *J. Econ. Entomol.* 60(4):1005-1007. Aug.15,1967. 421 J822
- 67708 DAWSON, R. M. C., and KEMP, P. Isolation of ceramide phosphorylethanolamine from the blowfly *Calliphora erythrocephala*. *Biochem. J.* 106(1):319-320. Ref. Jan.1968. 382 B52
- 67709 ECONOMOPOULOS, A. P., and TZANAKAKIS, M. E. Egg yolk and olive juice as supplements to the yeast hydrolyzate-sucrose diet for adults of *Dacus oleae*. *Life Sci.* 6(22,pt.11):2409-2416. Ref. Nov.15,1967. 442.8 L62
- 67710 FOSTER, W. Hormone-mediated nutritional control of sexual behavior in male dung flies [*Scatophaga stercoraria*]. *Science* 158(3808): 1596-1597. Dec.22,1967. 470 Sci2
- 67711 FRIERSON, P. E. The threat of the caribfly [*Anastrepha suspensa*] and the fire ant [*Solenopsis geminata*]. *Citrus Indus.* 48(8):4-8, map. Aug.1967. 80 C49  
Possible infestation of citrus.
- 67712 GOODMAN, R. M., GOIDL, J., and RICHART, R. M. Larval development in *Sciara coprophila* without the formation of chromosomal puffs. *Nat. Acad. Sci. Proc.* 58(2):553-559. Ref. Aug.1967. 500 N21P
- 67713 GREENBERG, B. Micro-potentiometric pH determination of muscoid maggot digestive tracts. *Entomol. Soc. Amer. Ann.* 61(2):365-368. Mar.1968. 420 En82
- 67714 HACKMAN, R. H. Melanin in an insect, *Lucilia cuprina* (Wied.). *Nature* 216(5111):163. Oct.14, 1967. 472 N21
- 67715 HINTON, H. E. Spiracular gills in the marine fly *Aphrosylus [celtiber]* and their relation to the respiratory horns of other Dolichopodidae. *Mar. Biol. ASS. UK. J.* 47(3):485-497. Ref. 1967. 442.9 M331
- 67716 HOELSCHER, C. E., BRAZZEL, J. R., and COMBS, R. L. Overwintering of the horn fly [*Haematobia irritans*] in northeast Mississippi. *J. Econ. Entomol.* 60(4):1175-1176. Ref. Aug.15,1967. 421 J822
- 67717 HOWER, A. A. Field studies on the biological control of the face fly *Musca autumnalis* De Geer with special reference to ecological factors and feeding behavior. *Diss. Abstr., Sect. B*, 28(6):2665B. Dec.1967. Z5055.U49D53
- 67718 JONES, R. H. Culicoides biting midges. In Smith, C. N., ed. *Insect colonization and mass production*, p.115-125. Ref. 1966. QL497.S6
- 67719 KAMBYSELLIS, M. P. Studies on interspecific ovarian transplants among species of the genus *Drosophila*. *Diss. Abstr., Sect. B*, 28(6): 2272B. Dec.1967. Z5055.U49D53
- 67720 KLIMPIN, A. YA. Effect of gamma rays on spinach leaf miner. (Rus) *Zashch. Rast.* 1:20-21. 1968. 421 Z1  
Morphological effect on *Pegomya hyoscyami*.
- 67721 LOEWENSTEIN, W. R., NAKAS, M., and J. S. SOCOLAR. Junctional membrane uncoupling, permeability transformations at a cell membrane junction. *J. Gen. Physiol.* 50(7):1865-1891. Ref. Aug.1967. 447.8 J822  
In salivary glands of *Chironomus thummi*.
- 67722 MATTINGLY, E., and PARKER, C. Sequence of formation in *Rhynchosciara polytene* chromosomes. *Chromosoma* 23(3):255-270. Feb.12,1968. 442.8 C46
- 67723 MCLEOD, D. G. R., and DRISCOLL, G. R. Diapause in the cabbage maggot, *Hylemya brassicae* (Diptera: Anthomyiidae). *Can. Entomol.* 99 (8):890-893. Aug.1967. 421 C16
- 67724 MILLER, T. A., and TREECE, R. F. A device for obtaining flies [*Musca autumnalis*] of known age. *Entomol. Soc. Amer. Ann.* 61(2):548. Mar. 1968. 420 En82
- 67725 MILLER, T. A. Some relationships of *Musca autumnalis* DeGeer (Diptera: Muscidae): feeding, ovarian development, and incidence on dairy cattle. *Diss. Abstr., Sect. B*, 28(6): 2467B. Dec.1967. Z5055.U49D53
- 67726 MONROE, R. E., and LAMB, N. J. Effect of commercial proteins on house fly reproduction. *Entomol. Soc. Amer. Ann.* 61(2):456-459. Ref. Mar.1968. 420 En82
- 67727 MONROE, R. E., POLITYKA, C. S., and LAMB, N. J. Utilization of larval cholesterol-4-C<sup>14</sup> for reproduction in house flies fed unlabeled cholesterol in the adult diet. *Entomol. Soc. Amer. Ann.* 61(2):292-296. Ref. Mar.1968. 420 En82
- 67728 MORGAN, P. B., and others. Cumulative effects of substerilizing dosages of apholate and metepa on laboratory populations of the house fly [*Musca domestica*]. *J. Econ. Entomol.* 60(4):1064-1067. Aug.15,1967. 421 J822  
G. C. La Brecque, C. N. Smith, D. W. Meifert, and C. M. Murvosh, joint authors.
- 67729 NASH, T. A. M., JORDAN, A. M., and BOYLE, J. A. Retraction of the claim that host pregnancy affects pupal production by the tsetse fly. *Nature* 216(5111):163-164. Oct.14,1967. 472 N21  
*Glossina austeni* on pregnant goats.
- 67730 NOVAK, J. A., and FOOTE, B. A. Biology and immature stages of fruit flies: *Paroxyna albiceps* (Diptera: Tephritidae). *Kans. Entomol. Soc. J.* 41(1):108-119. Jan.1968. 420 K13
- 67731 ODE, P. E., and MATTHYSSE, J. G. Bionomics of the face fly, *Musca autumnalis* DeGeer. N. Y. (Cornell) *Agr. Exp. Sta. Mem.* 402,91 p. Ref. Dec.1967. 100 N48C
- 67732 PANELIUS, S. Germ line and oogenesis during paedogenetic reproduction in *Heteropeza pygmaea* Winnertz (Diptera: Cecidomyiidae). *Chromosoma* 23(3):333-345. Ref. Feb.12,1968. 442.8 C46
- 67733 PROKOPY, R. J. Artificial diet for apple maggot [*Rhagoletis pomonella*] larvae. *J. Econ. Entomol.* 60(4):1161-1162. Aug.15,1967. 421 J822
- 67734 PROKOPY, R. J. Factors influencing effectiveness of artificial oviposition devices for apple maggot [*Rhagoletis pomonella*]. *J. Econ. Entomol.* 60(4):950-955. Ref. Aug.15, 1967. 421 J822
- 67735 ROGERS, C. J., SCHOEPFNER, R. F., and WHITSEL, R. H. A wind-oriented attractant trap for gnats [*Leptoconops torrens*]. *J. Econ. Entomol.* 60(4):1190-1191. Aug.15,1967. 421 J822
- 67736 ROWLEY, W. A. Observations on larval habitats and the winter bionomics of some common species of *Culicoides* (Diptera: Ceratopogonidae) in the central Columbia Basin. *Mosquito News* 27(4):499-505. Dec.1967. 421 M85
- 67737 RUPRAH, N. S. Effects of bovine diet on oviposition, larval development, and pupation of the face fly, *Musca autumnalis* DeGeer. *Diss. Abstr., Sect. B*, 28(3):751B. Sept.1967. Z5055.U49D53
- 67738 SHAW, J. G., and others. Dispersal and migration of tepa-sterilized Mexican fruit flies [*Anastrepha ludens*]. *J. Econ. Entomol.* 60(4): 992-994. Aug.15,1967. 421 J822  
M. Sanchez-Riviello, L. M. Spishakoff, P. Trujillo G., and F. Lopez D., joint authors.
- 67739 SMITH, W. W., and VARNELL, J. H. Hydrogen ion concentration (pH) as related to the occurrence and abundance of tree-hole dwelling *Culicoides* spp., (Diptera: Ceratopogonidae) in northern Florida. *Mosquito News* 27(4):519-521. Dec.1967. 421 M85
- 67740 STEVENSON, A. B. *Leucopis simplex* (Diptera: Chamaemyiidae) and other species occurring in galls of *Phylloxera vitifoliae* (Homoptera: Phylloxeridae) in Ontario. *Can. Entomol.* 99(8):815-820. Ref. Aug.1967. 421 C16

- 67741 SYMPOSIUM ON ONCHOCERCIASIS, LONDON, 1967. [Papers]. Roy. Soc. Trop. Med. Hyg. Trans. 62(1):29-46. 1968. 448.9 R813  
Partial contents: The taxonomy of the East African river crabs and their association with *Simulium neavei* complex, by T. R. Williams.
- 67742 TAUBER, M. J., and TAUBER, C. A. Biology of the gall-former *Procercidochares stonei* on composite [*Chrysomnathus viscidiflorus*]. Entomol. Soc. Amer. Ann. 61(2):553-554. Mar. 1968. 420 En82
- 67743 URSPRUNG, H. Developmental genetics. Annu. Rev. Genet. 1:139-162. 1967. QH431.A1A5  
Review of the literature.  
Includes Diptera.
- 67744 WEINTRAUB, J., ROBERTSON, R. H., and GOODING, R. H. Experiments in hybridizing the warble flies *Hypoderma lineatum* (de Villiers) and *H. bovis* (Linnaeus) (Diptera, Oestridae). Can. J. Zool. 46(2):129-133. Ref. Mar. 1968. 470 C16D
- 67745 WIKENS, J. L. Reproduction in the fleshfly, *Sarcophaga bullata*, and its endocrine control. Diss. Abstr., Sect. B, 28(3):1293B-1294B. Sept. 1967. Z5055.U49D53
- 67746 WILLIAMSON, R. L., and METCALF, R. L. Salicylanilides: a new group of active uncouplers of oxidative phosphorylation. Science 158 (3809):1694-1695. Ref. Dec. 29, 1967. 470 Sci2 In Musca domestica.
- 67747 WILSON, L. F. Life history and habits of *Rhabdophaga* sp. (Diptera: Cecidomyiidae), a gall midge attacking willow [*Salix discolor*] in Michigan. Can. Entomol. 100(2):184-189. Feb. 1968. 421 C16
- 67748 WILSON, L. F. Life history and habits of the willow beaked gall midge, *Mayetiola rigidae* (Diptera: Cecidomyiidae), in Michigan. Can. Entomol. 100(2):202-206. Feb. 1968. 421 C16
- General Entomology  
Culicidae
- 67749 BHALLA, S. C. Genetic aspects of pteridines in mosquitoes. Genetics 58(2):249-258. Ref. Feb. 1968. 442.8 G28  
*Aedes aegypti*, *A. mascarensis* and *Culex pipiens*.
- 67750 BRUST, R. A. Weight and development time of different stadia of mosquitoes reared at various constant temperatures. Can. Entomol. 99(9):986-993. Sept. 1967. 421 C16
- 67751 CHAPMAN, H. C., WOODARD, D. B., and PETERSEN, J. J. Nematode parasites of Culicidae and Chaoboridae in Louisiana. Mosquito News 27(4):490-492. Dec. 1967. 421 M85
- 67752 COUSER, R. D. The ability of *Aedes* (Stegomyia) *aegypti* to adapt to low temperatures. Diss. Abstr., Sect. B, 28(6):2664B. Dec. 1967. Z5055.U49D53
- 67753 EWERT, A., and HO, B. C. The fate of *Brugia pahangi* larvae immediately after feeding by infective vector mosquitoes [*Aedes togoi*]. Roy. Soc. Trop. Med. Hyg. Trans. 61(5):659-662. 1967. 448.9 R813
- 67754 FAUST, R. M., DOUGHERTY, E. M., and ADAMS, J. R. Nucleic acid in the blue-green and orange mosquito iridescent viruses (MIV) isolated from larvae of *Aedes taeniorhynchus*. J. Invertebrate Pathol. 10(1):160. Feb. 1968. 421 J826
- 67755 GLADNEY, W. J. Mosquito control on Smith Mountain reservoir by pumped storage water level management. Diss. Abstr., Sect. B, 28(3):929B-930B. Sept. 1967. Z5055.U49D53
- 67756 HAYASHIYA, K., and HARWOOD, R. F. Fatty acids of the mosquito *Anopheles freeborni*. Entomol. Soc. Amer. Ann. 61(2):278-280. Mar. 1968. 420 En82
- 67757 HOFFMANN, B. L., and KILLINGSWORTH, B. F. The egg-laying habits of *Aedes aegypti* (Linnaeus) in central Texas. Mosquito News 27(4):466-469. Dec. 1967. 421 M85
- 67758 JAMES, H. G. Seasonal activity of mosquito predators in woodland pools in Ontario. Mosquito News 27(4):453-457. Dec. 1967. 421 M85
- 67759 JUPP, P. G., and BROWN, R. G. The laboratory colonization of *Culex* (*Culex*) *univittatus* Theobald (Diptera: Culicidae) from material collected in the Highveld region of South Africa. Entomol. Soc. Southern Afr. J. 30(1):34-39. June 1967. 420 En86
- 67760 MCDUFFIE, W. C., and WEIDHAAS, D. E. Current research by the USDA of potential significance to world-wide mosquito control. Mosquito News 27(4):447-453. Ref. Dec. 1967. 421 M85
- 67761 MOUNT, G. A., LOFGREN, C. S., and SALMELA, J. Aerial fogging with Bay 39007 for the control of adult *Aedes sollicitans* (Walker) and *Aedes taeniorhynchus* (Wiedemann). Mosquito News 27(4):524-525. Dec. 1967. 421 M85
- 67762 MYERS, C. M. Identification and descriptions of *Aedes* eggs from California and Nevada (Diptera: Culicidae). Can. Entomol. 99(8):795-806. Aug. 1967. 421 C16
- 67763 OELERICH, S. Comparative study on the occurrence of malaria sporozoites in the salivary glands and in other organs of mosquito. (Ge) Z. Tropenmed. Parasitol. 18(3):285-303. Ref. Oct. 1967. 448.8 Z37  
English summary.  
*Plasmodium cathemerium* in *Culex pipiens molestus*.
- 67764 PAULOVOVA, J. Notes on the biometrics of imagines of *Aedes vexans* Meig. from environs of Hodonin during 1966. (Cz) Biologia [Bratislava] 22(7):525-528. 1967. 442.8 B5265  
German and Russian summaries.
- 67765 PAULOVOVA, J., and PUALOV, S. The uptake and metabolism of ten percent of glucose solution by *Culex pipiens molestus* Forsk. (Cz) Biologia [Bratislava] 22(1):58-63. 1967. 442.8 B5265  
German and Russian summaries.
- 67766 PETERSEN, J. J., CHAPMAN, H. C., and WOODARD, D. B. Preliminary observations on the incidence and biology of a mermithid nematode of *Aedes sollicitans* (Walker) in Louisiana. Mosquito News 27(4):493-498. Dec. 1967. 421 M85  
*Agamomermis culicis*.
- 67767 SCHOBBER, H. Observations on *Culex pipiens* larvae infested with *Vorticella* sp. Mosquito News 27(4):523-524. Dec. 1967. 421 M85
- 67768 SCHRECK, C. E., GOUCK, H. K., and SMITH, N. An improved olfactometer for use in studying mosquito attractants and repellents. J. Econ. Entomol. 60(4):1188-1190. Aug. 15, 1967. 421 J822
- 67769 SKINNER, W. A., and others. Repellency of human skin-surface lipid hydrocarbons to the yellow-fever mosquito [*Aedes aegypti*]. J. Econ. Entomol. 60(4):927-929. Aug. 15, 1967. 421 J822  
H. C. Tong, T. R. Pearson, and H. I. Maibach, joint authors.
- 67770 SMITH, W. L., and ENNS, W. R. Laboratory and field investigations of mosquito populations associated with oxidation lagoons in Missouri. Mosquito News 27(4):462-466. Ref. Dec. 1967. 421 M85
- 67771 WHITE, R. H., and SUNDEEN, C. D. The effect of light and light deprivation upon the ultrastructure of the larval mosquito [*Aedes aegypti*] eye. I. J. Exp. Zool. 164(3):461-477. Ref. Apr. 1967. 410 J825
- 67772 WRIGHT, R. E., and KNIGHT, K. L. Evening crepuscular activity of some Iowan mosquitoes (Diptera: Culicidae). Kans. Entomol. Soc. J. 41(1):45-47. Jan. 1968. 420 K13
- General Entomology  
Drosophila
- 67773 ALDERSON, T., and KHAN, A. H. Acridine mutagenesis (in the dark) in *Drosophila*. Mutation Res. 5(1):147-154. Ref. Jan./Feb. 1968. 443.8 M98



- 67774 ARNOLD, D. G. An autoradiographic study of RNA synthesis in isolated salivary glands of *Drosophila hydei*. Diss. Abstr., Sect. B, 28 (3):1260B-1261B. Sept.1967. Z5055.U49D53
- 67775 AYALA, F. J. Relative fitness of populations of *Drosophila serrata* and *Drosophila birchii*. Diss. Abstr., Sect. B, 28(6):2261B. Dec.1967. Z5055.U49D53
- 67776 BENNET-CLARK, H. C., and EWING, A. W. The love song of the fruit fly [*Drosophila*]. New Sci. 36(568):230-232. Oct.26,1967. 472 N42
- 67777 BRINK, N. G. Protein synthesis during spermatogenesis in *Drosophila melanogaster*. Mutation Res. 5(1):192-194. Ref. Jan./Feb.1968. 443.8 M98
- 67778 CHANDLEY, A. C. The effect of X-rays on female germ cells *Drosophila melanogaster*. III. A comparison with heat-treatment of crossing-over in the X-chromosome. Mutation Res. 5 (1):93-107. Ref. Jan./Feb.1968. 443.8 M98
- 67779 CHUNG, Y. J. Persistence of a mutant gene in *Drosophila [melanogaster]* populations of different genetic backgrounds. Genetics 57(4): 957-967. Dec.1967. 442.8 G28
- 67780 CROW, J. F., and CHUNG, Y. J. Measurement of effective generation length in *Drosophila* population cages. Genetics 57(4):951-955. Dec. 1967. 442.8 G28
- 67781 DEL SOLAR, E. Selection for and against gregariousness in the choice of oviposition sites by *Drosophila pseudoobscura*. Genetics 58(2):275-282. Ref. Feb.1968. 442.8 G28
- 67782 DOANE, W. W. Quantitation of amylases in *Drosophila [melanogaster]* separated by acrylamide gel electrophoresis. J. Exp. Zool. 164 (3):363-377. Ref. Apr.1967. 410 J825
- 67783 ELLGAARD, E. G. Gene activation without histone acetylation in *Drosophila melanogaster*. Science 157(3792):1070-1072. Sept.1,1967. 470 Sci2
- 67784 FRASER, A. Variation of scutellar bristles in *Drosophila*. XV. Systems of modifiers. Genetics 57(4):919-934. Ref. Dec.1967. 442.8 G28
- 67785 GAY, P., and OZOLINS, C. Hereditary transmission of sigma virus by *Drosophila*, bearer of "re" gene. I. (Fr) Inst. Pasteur. Ann. 114 (1):29-48. Jan.1968. 448.3 An75  
English summary.
- 67786 GHELELOVITCH, S. Sensitivity of *Drosophila (Drosophila melanogaster* Meig.) eggs to lethal action of ultra-violet rays. II. Genetic determination of the sensitivity of embryonic stages posterior to gastrulation. (Fr) Mutation Res. 5(1):117-131. Ref. Jan./Feb.1968. 443.8 M98  
English summary.
- 67787 HENDRICKSON, R. J. Cytogenetic analysis of the dumpy region in *Drosophila melanogaster*. Diss. Abstr., Sect. B, 28(3):793B. Sept.1967. Z5055.U49D53
- 67788 HENNEBERRY, T. J. Susceptibility of various stages of *Drosophila melanogaster* to gamma radiation. J. Econ. Entomol. 60(4):1041-1043. Ref. Aug.15,1967. 421 J822
- 67789 JENKINS, J. B. Mutagenesis at a complex locus in *Drosophila* with the monofunctional alkylating agent, ethyl methanesulfonate. Genetics 57(4):783-793. Ref. Dec.1967. 442.8 G28
- 67790 KANEHISA, T., and FUJII, S. Further biochemical studies on "melanotic tumor" and "freckled-type melanotic tumor" in *D. melanogaster*. Jap. J. Genet. 42(5):299-306. Ref. Oct.1967. 442.9 J27
- 67791 KATAOKA, Y. A genetic system modifying segregation-distortion in a natural population of *Drosophila melanogaster* in Japan. Jap. J. Genet. 42(5):327-337. Ref. Oct.1967. 442.9 J27
- 67792 KHAN, A. H., and ALDERSON, T. Studies of the mutagenic activity of nucleic acid base-analogues in *Drosophila*. Mutation Res. 5(1):155-161. Ref. Jan./Feb.1968. 443.8 M98
- 67793 KITAGAWA, O. Interaction in fitness between lethal genes in heterozygous condition in *Drosophila melanogaster*. Genetics 57(4):809-820. Ref. Dec.1967. 442.8 G28
- 67794 LEWONTIN, R. C. Population genetics. Annu. Rev. Genet. 1:37-70. 1967. QH431.A1A5  
Chiefly with reference to *Drosophila*.  
Review of the literature.
- 67795 MANNING, A. Antennae and sexual receptivity in *Drosophila melanogaster* females. Science 158(3797):136-137. Oct.6,1967. 470 Sci2
- 67796 MARINKOVIC, D., WATTIAUX, J. M. Genetic loads affecting longevity in natural populations of *Drosophila pseudoobscura*. Nature 216(5111): 170-171. Ref. Oct.14,1967. 472 N21
- 67797 MASON, H. C., and SMITH, F. F. Apholate as a chemosterilant for *Drosophila melanogaster*. J. Econ. Entomol. 60(4):1127-1130. Aug.15, 1967. 421 J822
- 67798 MINAMORI, S. A killing agent found in a natural population of *Drosophila melanogaster*. Jap. J. Genet. 42(5):317-326. Oct.1967. 442.9 J27
- 67799 MITCHELL, H. K. Biochemical aspects of *Drosophila*. Annu. Rev. Genet. 1:185-200. 1967. QH431.A1A5  
Review of the literature.
- 67800 NOVITSKI, E. Nonrandom disjunction in *Drosophila*. Annu. Rev. Genet. 1:71-86. 1967. QH431.A1A5  
Review of the literature.
- 67801 PASZTOR, L. M. RingX chromosomes derived from tandem metacentric compounds in *Drosophila melanogaster*: stability studies. Diss. Abstr., Sect. B, 28(6):2274B. Dec.1967. Z5055.U49D53
- 67802 PAVLIDIS, T., ZIMMERMAN, W. F., and OSBORN, J. A mathematical model for the temperature effects on circadian rhythms. J. Theor. Biol. 18(2):210-221. Ref. Feb.1968. 442.8 J8223  
*Drosophila* eclosion.
- 67803 PEROTTI, M. E., and BAIRATI, A. Ultrastructure of the melanotic masses in two tumorous strains of *Drosophila melanogaster* (tuB3 and Freckled). J. Invertebrate Pathol. 10(1):122-138. Ref. Feb.1968. 421 J826
- 67804 POLIVANOV, S. Selection in experimental populations of *Drosophila melanogaster* with different genetic backgrounds. Diss. Abstr., Sect. B, 28(3):1283B. Sept.1967. Z5055.U49D53
- 67805 PURDOM, C. E., DYER, K. F., and PAFWORTH, D. G. Spontaneous mutation in *Drosophila [melanogaster]* studies on the rate of mutation in mature and immature male germ cells. Mutation Res. 5(1):133-145. Ref. Jan./Feb.1968. 443.8 M98
- 67806 RODMAN, T. C. Relationship of developmental stage to initiation of replication in polytene nuclei. Chromosoma 23(3):271-287. Ref. Feb.12,1968. 442.8 C46  
*Drosophila melanogaster*.
- 67807 SPOFFORD, J. B. Single-locus modification of position-effect variegation in *Drosophila melanogaster*. I. White variegation. Genetics 57(4): 751-766. Ref. Dec.1967. 442.8 G28
- 67808 SZABO, K., HOLLOS, K., and BARTALIS, E. Protein and free amino acid changes in different heterozygotes of *Drosophila melanogaster* Meigen in the course of ontogenesis. Acta Biol. 18(4):403-419. Ref. 1967. 475 Ac85
- 67809 TATES, A. D. The lowering effect of dose-fractionation on recessive lethal frequencies in *Drosophila [melanogaster]* spermatocytes. Mutation Res. 5(1):109-116. Ref. Jan./Feb. 1968. 443.8 M98  
X-rays.
- 67810 YARBROUGH, K. M. The mode of selection at the esterase 6 locus in *Drosophila melanogaster*. Diss. Abstr., Sect. B, 28(3):797B. Sept.1967. Z5055.U49D53

General Entomology  
Hemiptera (Heteroptera and Homoptera)

- 67811 ABBOTT, C. E. Inherited melanism in the large milkweed bug, *Oncopeltus fasciatus* (Heteroptera: Lygaeidae). Entomol. Soc. Amer. Ann. 61(2):542. Mar. 1968. 420 En82
- 67812 ABU YAMAN, I. K. Population study of the grape leafhopper [*Balclutha hebe*] in Iraq. Z. Angew. Entomol. 60(2):182-187. Aug. 1967. 421 Z36
- 67813 BAY, S. A. Meet Mr. Bedbug [*Cimex lectularius*]. Frontiers 32(3):12-15. Feb. 1968. 410 F92
- 67814 BLOWERS, J. R., and MORAN, V. C. Notes on the female reproductive system of the South African citrus psylla, *Triozia erytrae* (Del Guercio) (Homoptera: Psyllidae). Entomol. Soc. Southern Afr. J. 30(1):75-81. Ref. June 1967. 420 En86
- 67815 BUTLER, G. D., and MURAMOTO, H. Banded-wing whitefly [*Trialeurodes abutilonea*] abundance and cotton leaf pubescence in Arizona. J. Econ. Entomol. 60(4):1176-1177. Aug. 15, 1967. 421 J822
- 67816 CUMMING, M. E. P. The life history and morphology of *Adelges lariciatus* (Homoptera: Phylloxeridae). Can. Entomol. 100(2):113-126. Feb. 1968. 421 C16
- 67817 DAHLMAN, D. L., and HIBBS, E. T. Responses of *Empoasca fabae* (Cicadellidae: Homoptera) to tomatine, solanine, leptine I, tomatidine, solanidine, and demissidine. Entomol. Soc. Amer. Ann. 60(4):732-740. Ref. July 17, 1967. 420 En82
- 67818 DINGLE, H. The influence of environment and heredity on flight activity in the milk-weed bug *Oncopeltus fasciatus*. J. Exp. Biol. 48(1):175-184. Ref. Feb. 1968. 442.8 B77
- 67819 EVANS, D. A., and MEDLER, J. T. Flight activity of the corn leaf aphid [*Rhopalosiphum maidis*] in Wisconsin as determined by yellow pan trap collections. J. Econ. Entomol. 60(4):1088-1091. Ref. Aug. 15, 1967. 421 J822
- 67820 FEIR, D., and MCCLAIN, E. Induced changes in the mitotic activity of hemocytes of the large milkweed bug, *Oncopeltus fasciatus*. Entomol. Soc. Amer. Ann. 61(2):416-421. Ref. Mar. 1968. 420 En82
- 67821 FEIR, D., and MCCAIN, E. Mitotic activity of the circulating hemocytes of the large milkweed bug, *Oncopeltus fasciatus*. Entomol. Soc. Amer. Ann. 61(2):413-416. Mar. 1968. 420 En82
- 67822 GADDOURA, W. M., and VENKATRAMAN, T. V. A simple method for counting leaf-hopper [*Empoasca lybica*] eggs inserted in plant tissue. Cur. Sci. 36(22):619. Nov. 20, 1967. 475 Sci23
- 67823 GILBY, A. R., and WATERHOUSE, D. F. Secretions from the lateral scent glands of the green vegetable bug, *Nezara viridula*. Nature 216(5110):90-91. Oct. 7, 1967. 472 N21
- 67824 GRIGARICK, A. A., and LANGE, W. H. Seasonal development and emergence of two species of gall-forming aphids, *Pemphigus bursarius* and *P. nortoni*, associated with poplar trees in California. Entomol. Soc. Amer. Ann. 61(2):509-514. Mar. 1968. 420 En82
- 67825 HANNA, M. The life history of *Philaenus abjectus* Uhler in Michigan (Homoptera: Cercopidae). Mich. Acad. Sci. Arts Lett. Papers 52(1):69-76. Ref. 1966, pub. 1967. 500 M582
- 67826 HASHIMOTO, A., YAMADA, K., and MUKAI, K. Studies on the lipids of coccids. VIII. Chromatographic separation of the lipids from *Lecanium horii* (Kuwana). (Ja) Agr. Chem. Soc. Jap. J. 41(8):393-398. Ref. 1967. 385 Ag8  
English summary.
- 67827 HELMS, T. J. Postembryonic reproductive-systems development in *Empoasca fabae*. Entomol. Soc. Amer. Ann. 61(2):316-332. Ref. Mar. 1968. 420 En82
- 67828 HORSBURGH, R. L., and ASQUITH, D. The eggs and oviposition sites of *Hyaliodes vitripennis* on apple trees (Miridae: Hemiptera). Can. Entomol. 100(2):199-201. Feb. 1968. 421 C16
- 67829 ILHARCO, F. A., and GOMES, A. A new technique for mounting aphids on microscopic slides. (Por) Agron. Lusitana 28(1):41-45. 1966, pub. 1967. 105.7 Ag8  
English summary.
- 67830 JONES, B. L. The interrelationships among *Chermes cooleyi* Gill., fungi, and the foliage of *Pseudotsuga menziesii* (Mirb.) Franco. Diss. Abstr., Sect. B, 28(6):2218B. Dec. 1967. Z5055.U49D53
- 67831 JUDGE, F. D. Overwintering in *Pemphigus bursarius* (L.). Nature 216(5119):1041-1042. Dec. 9, 1967. 472 N21
- 67832 KATO, T. Mass culture of some wax scales by utilizing *Erigeron canadensis* L. and *Solidago virgaurea* L. subsp. *asiatica* Kitam. as food plants. (Ja) Jap. J. Appl. Entomol. Zool. 11(3):140-141. Sept. 1967. 475 J27  
Ceroplastes spp.
- 67833 KINDLER, S. D. Behavior of the spotted alfalfa aphid, *Therioaphis maculata* (Buckton), on resistant and susceptible alfalfas. Diss. Abstr., Sect. B, 28(3):1274B-1275B. Sept. 1967. Z5055.U49D53
- 67834 MEADE, A. B., and PETERSON, A. G. Some factors influencing population growth of the Aster leafhopper [*Macrostelus fascifrons*] in Anoka County, Minnesota. J. Econ. Entomol. 60(4):936-941. Aug. 15, 1967. 421 J822  
Effects of host plant relations and weather.
- 67835 MEHRA, B. P., and GOKULPURE, R. S. Recorded and unrecorded lac-hosts from Madhya Pradesh. Indian Forest. 93(10):694-700. Ref. Oct. 1967. 99.8 In2
- 67836 MORAN, V. C., and BLOWERS, J. R. On the biology of the South African citrus psylla, *Triozia erytrae* (Del Guercio) (Homoptera: Psyllidae). Entomol. Soc. Southern Afr. J. 30(1):96-106. Ref. June 1967. 420 En86
- 67837 RETNAKARAN, A. Aspects of pea aphid [*Acyrtosiphon pisum*] nutrition. Diss. Abstr., Sect. B, 28(3):1283B-1284B. Sept. 1967. Z5055.U49D53
- 67838 ROUT, G., and SENAPATI, B. Biology of the mustard aphid, *Lipaphis erysimi*, in India. Entomol. Soc. Amer. Ann. 61(2):259-261. Mar. 1968. 420 En82
- 67839 SETHI, S. L., and SWENSON, K. G. Methods for culturing root aphids [*Eriosoma pyricola*, *E. americanum* and *E. lanigerum*] on woody plants. J. Econ. Entomol. 60(4):1170-1171. Aug. 15, 1967. 421 J822
- 67840 SIRIEZ, H. A century has passed since France discovered Phylloxera; a crisis of grape growing for more than a quarter of a century. (Fr) Rev. Franc. Agr. 18:57-71. Autumn 1967. 281.8 R328
- 67841 WHEELER, A. G., HAYES, J. T., and STEPHENS, J. L. Insect predators of mummified pea aphids [*Acyrtosiphon pisum*]. Can. Entomol. 100(2):221-224. Feb. 1968. 421 C16
- 67842 WOOD, E. A., and CURTIS, B. C. Resistance of wheat selections to artificial infestations of greenbugs [*Schizaphis graminum*]. J. Econ. Entomol. 60(4):1084-1088. Aug. 15, 1967. 421 J822
- 67843 YONKE, T. R., and MEDLER, J. T. Biologies of three species of *Alydus* in Wisconsin. Entomol. Soc. Amer. Ann. 61(2):526-531. Ref. Mar. 1968. 420 En82  
*Alydus conspersus*, *A. eurusinus*, and *A. pilosulus*, Hemiptera, Alydidae.

General Entomology  
Hymenoptera

SEE ALSO Apiculture and Apis mellifera.

- 67844 ARTHUR, A. P. Influence of position and size of host shelter on host-searching by *Itoplectis conquisitor* (Hymenoptera: Ichneumonidae). Can. Entomol. 99(8):877-886. Aug. 1967. 421 C16



- 67845 AVIDOV, Z., ROSSLER, Y., and ROSEN, D. Studies on an Israel strain of *Anagyrus pseudococci* (Girault) (Hym., Encyrtidae) II. Some biological aspects. *Entomophaga* 12(2):111-118. 1967. 421 En835  
As parasite of *Planococcus citri*.
- 67846 AYRE, G. L. Comparative studies on the behaviour of three species of ants (Hymenoptera: Formicidae). I. Prey finding, capture, and transport. *Can. Entomol.* 100(2):165-172. Feb. 1968. 421 C16  
Formica obscuriventris, Myrmica americana, and Crematogaster lineolata.
- 67847 BATRA, S. W. T. Behavior of some social and solitary halictine bees within their nests: a comparative study (Hymenoptera: Halictidae). *Kans. Entomol. Soc. J.* 41(1):120-133. Ref. Jan. 1968. 420 K13
- 67848 BOULETREAU, M., and DAVID, J. The effect of the density of larval populations on the cut in the number of adults, on the length of development and the frequency of diapause in *Pteromalus puparum* L. (Hym., Chalcididae). (Fr) *Entomophaga* 12(2):187-197. 1967. 421 En835  
English summary.  
Reared in *Pieris brassicae* pupae.
- 67849 BOUSH, G. M., and BAERWALD, R. J. Courtship behavior and evidence for a sex pheromone in the apple maggot [*Rhagoletis pomonella*] parasite, *Opius alioeus* (Hymenoptera: Braconidae). *Entomol. Soc. Amer. Ann.* 60(4):865-866. July 17, 1967. 420 En82
- 67850 BURBUTIS, P. P., BRAY, D. F., and MASON, A. H. Overwintering eggs of the alfalfa weevil [*Hypera postica*] in Delaware. *J. Econ. Entomol.* 60(4):1007-1010. Aug. 15, 1967. 421 J822
- 67851 CLARK, A. M., and SMITH, R. E. The modification of adult life span in *Bracon hebetor* (Hymenoptera: Braconidae) by irradiation in nitrogen. *Entomol. Soc. Amer. Ann.* 61(2):541-542. Mar. 1968. 420 En82  
Gamma rays and X-rays.
- 67852 DEBACH, P., and RAO, S. V. Transformation of inseminated females of *Aphytis lingnanensis* into factitious virgins by low-temperature treatment. *Entomol. Soc. Amer. Ann.* 61(2):332-337. Mar. 1968. 420 En82
- 67853 GROSCH, D. S., and VALCOVIC, L. R. Chlorinated hydrocarbon insecticides [DDT and dieldrin] are not mutagenic in *Bracon hebetor* tests. *J. Econ. Entomol.* 60(4):1177-1179. Ref. Aug. 15, 1967. 421 J822
- 67854 HOBBS, G. A. Obtaining and protecting red-clover pollinating species of *Bombus* (Hymenoptera: Apidae). *Can. Entomol.* 99(9):943-951. Sept. 1967. 421 C16  
By artificial nests.
- 67855 JOHANSEN, C. Encouraging the bumble bee [*Bombus mixtus*] pollinator of cranberries. *Wash. State Univ. Ext. E. M.* 2262, rev., 3 p. Nov. 1967. 275.29 W27M1
- 67856 KHAN, A. R., GREEN, H. B., and BRAZZEL, J. R. Laboratory rearing of the imported fire ant [*Solenopsis saevissima richteri*]. *J. Econ. Entomol.* 60(4):915-917. Aug. 15, 1967. 421 J822
- 67857 KNIPLING, E. F., and MCGUIRE, J. U. Population models to appraise the limitations and potentialities of *Trichogramma* in managing host insect populations. *U. S. D. A. Tech. Bull.* 1387, 44 p. Mar. 1968. 1 Ag84Te
- 67858 KOCK, T. Hornets and wasps: control fall pests in the spring. (Ge) *Übersicht* 19(3):207-210. Mar. 9, 1968. 18 Ub3  
Chiefly biology and habits.
- 67859 KRALOVIC, J. Study of the effect of temperature on the development of larvae of *Bruchophagus roddi* Guss. (Cz) *Biologia [Bratislava]* 22(7):497-507. 1967. 442.8 B5265  
German and Russian summaries.
- 67860 KURCZEWSKI, F. E., and KURCZEWSKI, E. J. Host records for some North American Pompilidae (Hymenoptera) with a discussion of factors in prey selection. *Kans. Entomol. Soc. J.* 41(1):1-33. Ref. Jan. 1968. 420 K13  
Spiders as prey.
- 67861 LANDIM, C. DA C. Comparative study of the salivary gland system (Hymenoptera, Apoidea) and relative evolutionary relationships. (Por) *Arq. Zool. Estad. Sao Paulo* 15(3):177-290. July 27, 1967. 410 Ar6  
English summary.  
Bibliography, p. 276-281.
- 67862 LEVIEUX, J. Ecological study of the savanna of Lamto (Ivory Coast); preliminary data on population of terrestrial ants. (Fr) *Terre Vie* 114(3):278-296. Ref. July/Sept. 1967. 410.9 P21  
English summary.
- 67863 MARKIN, G. P., and GITINS, A. R. Descriptions of the immature stages of *Stenodynerus claremontensis* (Hymenoptera: Vespidae). *Can. Entomol.* 99(8):871-877. Aug. 1967. 421 C16
- 67864 MARKIN, G. P., and MCCOY, C. W. The occurrence of a nematode, *Diploscapter lycostoma*, in the pharyngeal glands of the Argentine ant, *Iridomyrmex humilis*. *Entomol. Soc. Amer. Ann.* 61(2):505-509. Ref. Mar. 1968. 420 En82
- 67865 NEILSON, M. M., and ELGEE, D. E. Tumor-like bodies in virus-infected and noninfected adults of the spruce sawfly, *Diprion hercyniae*. *J. Invertebrate Pathol.* 10(1):70-75. Ref. Feb. 1968. 421 J826
- 67866 NEL, J. J. C. Reactions of workers of the meat ant *Iridomyrmex detectus* (Smith) (Dolichoderinae: Hymenoptera) to light and atmospheric humidity. *Entomol. Soc. Southern Afr. J.* 30(1):111-115. June 1967. 420 En86
- 67867 SAKAGAMI, S. F., and ZUCCHI, R. Behavior studies of the stingless bees, with special reference to the oviposition process. VI. *Trigona (Trigona) clavipes*. *Hokkaido Univ. Fac. Sci. J. Ser. VI. Zool.* 16(2):292-313. Ref. Dec. 1967. 410.9 H68
- 67868 SIMON, R. P., and BENTON, A. W. Winter activities of *Vespula maculifrons*. *Entomol. Soc. Amer. Ann.* 61(2):542-544. Mar. 1968. 420 En82
- 67869 STEINER, O. D., and MARTIN, M. M. An apparatus for collecting ants in large quantities. *J. Econ. Entomol.* 60(4):1169-1170. Aug. 15, 1967. 421 J822
- 67870 SULLIVAN, C. R., and WALLACE, D. R. Interaction of temperature and photoperiod in the induction of prolonged diapause in *Neodiprion sertifer*. *Can. Entomol.* 99(8):834-850. Aug. 1967. 421 C16
- 67871 WATKINS, J. F., and RETTENMEYER, C. W. Effects of army ant queens on longevity of their workers (Formicidae: Dorylinae). *Psyche* 74(3):228-233. Ref. Sept. 1967. 421 P95  
*Neivamyrmex nigrescens*.
- 67872 WEST, M. J. The social biology of polistine wasps. *Diss. Abstr., Sect. B*, 28(6):2668B. Dec. 1967. Z5055.U49D53
- 67873 WHITING, A. R. The biology of the parasitic wasp *Mormoniella vitripennis* (*Nasonia brevicornis*) (Walker). *Quart. Rev. Biol.* 42(3):333-406. Sept. 1967. 442.8 Q2  
Bibliography, p. 400-406.

General Entomology  
Lepidoptera

SEE ALSO Sericulture and the Silkworm.

- 67874 ALLEN, D. C., KNIGHT, F. B., and FOLTZ, J. L. A technique for rearing *Choristoneura pinus* on artificial diet. *Entomol. Soc. Amer. Ann.* 61(2):362-364. Mar. 1968. 420 En82
- 67875 BANERJEE, A. C. Injury to grasses in lawns by *Acrolophus* sp. *J. Econ. Entomol.* 60(4):1174. Aug. 15, 1967. 421 J822

- 67876 BANERJEE, A. C. Microsporidian diseases of sod webworms [*Crambus trisectus*] in blue-grass lawns. Entomol. Soc. Amer. Ann. 61(2): 544-545. Mar. 1968. 420 En82  
3 spp. of *Nosema* and *Thelohania* as causal organisms.
- 67877 BANERJEE, A. C. Sod webworm [*Crambus trisectus*] parasites [Tachinidae] in Illinois. J. Econ. Entomol. 60(4):1173-1174. Aug. 15, 1967. 421 J822
- 67878 BATINICA, J. Considerations on morphological and anatomical characteristics of main species of leaf rollers (Tortricidae) as agents of injuries in fruit orchards of Bosnia and Herzegovina. (Se) Sarajevo. Univ. Poljoprivredno-Sum. Fak. Rad. 16(18):215-248. Ref. 1967. 21.5 Sa7  
French summary.
- 67879 BECK, S. D., CHIPPENDALE, G. M., and SWINTON, D. E. Nutrition of the European corn borer, *Ostrinia nubilalis*. VI. A larval rearing medium without crude plant fractions. Entomol. Soc. Amer. Ann. 61(2):459-462. Ref. Mar. 1968. 420 En82
- 67880 BROWN, F. M. Letters from Dr. H. H. Behr to Herman Strecker. Lepidopterists' Soc. J. 22(1):57-62. 1968. 421 L554  
On Lepidoptera.
- 67881 CAMPING, M. W. Larvae of *Phigalia pilosaria* Schiff. (pedaria F.) on *Berberis*. (Du) Entomol. Ber. 27(8):157. Aug. 1, 1967. 420 N38B
- 67882 CANERDAY, T. D. On cross infectivity of the cabbage-looper [*Trichoplusia ni*] nuclear-polyhedrosis virus to some related Plusiinae (Noctuidae: Lepidoptera). J. Invertebrate Pathol. 10(1):76-78. Feb. 1968. 421 J826
- 67883 CARLSON, S. D., and others. Vitamin A deficiency: effect on retinal structure of the moth *Manduca sexta*. Science 158(3798):268-270. Ref. Oct. 13, 1967. 470 Sci2  
H. R. Steeves, J. S. Vandenberg, and W. E. Robbins, joint authors.
- 67884 CHAPMAN, P. J., LIENK, S. E., and DEAN, R. W. Bionomics of *Choristoneura rosaceana*. Entomol. Soc. Amer. Ann. 61(2):285-290. Ref. Mar. 1968. 420 En82  
Using apple trees as hosts in New York.
- 67885 COLLINS, J. V. The formation of protein granules in the fat body of an insect, *Calpodus ethlius* Stoll, Lepidoptera, Hesperidae. Diss. Abstr., Sect. B, 28(6):2269B-2270B. Dec. 1967. Z5055.U49D53
- 67886 EMMEL, J. F., and EMMEL, T. C. The population biology and life history of *Papilio indra martini*. Lepidopterists' Soc. J. 22(1):46-52. 1968. 421 L554
- 67887 FINNEY, G. L., and BRINKMÄN, D. Rearing the navel orangeworm [*Paratylenchus transitella*] in the laboratory. J. Econ. Entomol. 60(4):1109-1111. Aug. 15, 1967. 421 J822  
Includes techniques and equipment.
- 67888 FIRSHEIN, W., BERRY, S. J., and SWINDLE-HURST, M. The biosynthesis of DNA by insects. I. The utilization of deoxycytidine by developing adults of the cecropia silkworm. [*Hyalophora cecropia*]. Biochim. Biophys. Acta 149(1):190-198. Ref. Nov. 21, 1967. 381 B522
- 67889 FUNK, R. S. Overwintering of monarch butterflies [*Danaus plexippus*] as a breeding colony in southwestern Arizona. Lepidopterists' Soc. J. 22(1):63-64. 1968. 421 L554
- 67890 GEORGE, J. A. Effects of gamma radiation on fertility, mating, and longevity of males of the oriental fruit moth, *Grapholitha molesta* (Lepidoptera: Tortricidae). Can. Entomol. 99(8): 850-857. Aug. 1967. 421 C16
- 67891 GEORGE, J. A., and HOWARD, M. G. Insemination without spermatophores in the oriental fruit moth, *Grapholitha molesta* (Lepidoptera: Tortricidae). Can. Entomol. 100(2):190-192. Feb. 1968. 421 C16
- 67892 GUERRA, A. A., and OUYE, M. T. Catch of male pink bollworms [*Pectinophora gossypiella*] in traps baited with sex attractant. J. Econ. Entomol. 60(4):1046-1048. Aug. 15, 1967. 421 J822
- 67893 HAND, L. F., and KEASTER, A. J. The environment of an insect field cage. J. Econ. Entomol. 60(4):910-915, map. Aug. 15, 1967. 421 J822  
Experiments with *Ostrinia nubilalis*.
- 67894 HARVEY, W. R., HASKELL, J. A., and NEDERGAARD, S. Active transport by the cecropia [*Hyalophora cecropia*] midgut. III. Midgut potential generated directly by active K-transport. J. Exp. Biol. 48(1):1-12. Ref. Feb. 1968. 442.8 B77  
Cellular ion transport.
- 67895 HASKELL, J. A., HARVEY, W. R., and CLARK, R. M. Active transport by the cecropia [*Hyalophora cecropia*] midgut. V. Loss of potassium transport during larval-pupal transformation. J. Exp. Biol. 48(1):25-37. Ref. Feb. 1968. 442.8 B77
- 67896 HEATH, J. E., and ADAMS, P. Regulation of heat production by large moths. J. Exp. Biol. 47(1):21-33. Ref. Aug. 1967. 442.8 B77  
Metabolism of *Celerio lineata* and *Rothschildia jacobae*.
- 67897 HEDGE, C. U., and SHANMUGASUNDARAM, E. R. B. A study of free amino acids in rice moth larvae during mycotoxicosis. Can. J. Comp. Med. Vet. Sci. 32(1):392-394. Ref. Jan. 1968. 41.8 C162  
*Corcyra cephalonica* fed peanut meal and wheat bran contaminated with *Aspergillus flavus*.
- 67898 KAMMER, A. E. Motor patterns during flight and warm-up in Lepidoptera. J. Exp. Biol. 48(1):89-109. Ref. Feb. 1968. 442.8 B77
- 67899 KLOTS, A. B. Melanism in Connecticut *Charadra deridens* (Guenée) (Lepidoptera: Noctuidae). N. Y. Entomol. Soc. J. 76(1):58-59. Mar. 1968. 420 N48J
- 67900 KURSTAK, E., and VEGA, C. E. Bacterial infection with *Salmonella typhimurium* of an invertebrate, *Galleria mellonella* L. (Fr) Can. J. Microbiol. 14(3):233-237. Ref. Mar. 1968. 448.8 C162  
English summary.
- 67901 KURSTAK, E., and VAGO, C. Transmission of the virus of densovirus by the parasitism of a hymenopteran. (Fr) Rev. Can. Biol. 26(4): 311-316. Ref. Dec. 1967. 442.8 R325  
English summary.  
*Galleria mellonella* infected with the virus disease parasitized by *Nemeritis canescens*.
- 67902 LAIGO, F. M., HANSEN, H. L., and PASCHKE, J. D. Continuous laboratory rearing of the imported cabbageworm [*Pieris rapae*]. J. Econ. Entomol. 60(4):1184-1185. Aug. 15, 1967. 421 J822
- 67903 LAIGO, F. M. Interrelationships between the entomogenous pathogen and entomophagous parasites of the imported cabbage worm, *Pieris rapae* Linnaeus. Diss. Abstr., Sect. B, 28(6): 2466B-2467B. Dec. 1967. Z5055.U49D53
- 67904 LONGWORTH, J. F., and HARRAP, K. A. A nonoccluded virus isolated from four saturniid species. J. Invertebrate Pathol. 10(1):139-145. Feb. 1968. 421 J826
- 67905 LOTZ, G., and MOELLER, J. On the spacial distribution of Lepidoptera larvae in an oak stand. (Ge) Z. Angew. Entomol. 60(2):211-218. Aug. 1967. 421 Z36  
English summary.
- 67906 MAGNOLER, A. Use of nuclear polyhedrosis viruses in the control of *Lymantria dispar* L. larvae. (It) Entomophaga 12(2):199-207. 1967. 421 En835  
English summary.  
*Borrelinavirus reprimens*.
- 67907 MORRIS, O. N. Metabolic changes in diseased insects. I. Autoradiographic studies in DNA synthesis on normal and in polyhedrosis-virus-infected Lepidoptera. J. Invertebrate Pathol. 10(1):28-38. Ref. Feb. 1968. 421 J826  
*Lambdina fuscicollis lugubrosa*, L. f. *somnaria*, and *Erannis vancouverensis*.
- 67908 MURDOCH, F. M. The biology of the lilac leaf miner, *Gracillaria syringella* Fabr. (Lepidoptera: Gracillariidae). Quaestiones Entomol. 3(4):247-281. Oct. 1967. 421 Q2



- 67909 NEDERGAARD, S., and HARVEY, W. R. Active transport by the cecropia [*Hyalophora cecropia*] midgut. IV. Specificity of the transport mechanism for potassium. *J. Exp. Biol.* 48(1): 13-24. Feb. 1968. 442.8 B77
- 67910 NEWMAN, H. L. Living with butterflies. London, Baker, 1967. 228 p. SF651.N4 1967. Butterfly Farm (Great Britain).
- 67911 PERKINS, S. F., PERKINS, E. M., and SHINGER, F. S. Illustrated life history and notes on *Papilio oregonius*. *Lepidopterists' Soc. J.* 22(1):53-56. 1968. 421 L554
- 67912 POWELL, J. A. A study of area occupation and mating behavior in *Incisalia iroides* (Lepidoptera: Lycaenidae). *N. Y. Entomol. Soc. J.* 76(1):47-57. Ref. Mar. 1968. 420 N48J
- 67913 PRICE, D. W., MAZRIMAS, J. A., and SUMMERS, F. M. Chemical attractants for navel orangeworm [*Paramyelois transitella*] moths. *Calif. Agr.* 21(11):10-11. Nov. 1967. 100 C12Cag
- 67914 RAWSON, G. W. Study of fluorescent pigments in Lepidoptera by means of paper partition chromatography. *Lepidopterists' Soc. J.* 22(1): 27-40. Ref. 1968. 421 L554
- 67915 RIDDIFORD, L. M. Antibiotics in the laboratory-rearing of cecropia silkworms [*Hyalophora cecropia*]. *Science* 157(3795):1451-1452. Ref. Sept. 22, 1967. 470 Sci2
- 67916 RIDDIFORD, L. M. Trans-2-hexenal; mating stimulant for polyphemus moths [*Antheraea polyphemus*]. *Science* 158(3797):139-141. Ref. Oct. 6, 1967. 470 Sci2
- 67917 ROCK, G. C. Aseptic rearing of the codling moth [*Carpocapsa pomonella*] on synthetic diets: Ascorbic acid and fatty acid requirements. *J. Econ. Entomol.* 60(4):1002-1005. Ref. Aug. 15, 1967. 421 J822
- 67918 ROELOFS, W. L., and FENG, K. C. Sex pheromone specificity tests in the Tortricidae - an introduction. *Entomol. Soc. Amer. Ann.* 61(2): 312-316. Ref. Mar. 1968. 420 En82
- 67919 SASTRODIHARDJO, S. The competence of the ovary of *Hyalophora cecropia* (Lepidoptera) in vitro, with special reference to the "intermediate" cell. *Diss. Abstr., Sect. B*, 28(4): 1564B. Oct. 1967. Z5055.U49D53
- 67920 SECHRIEST, R. E., and YORK, A. C. Evaluating artificial infestations of black cutworms [*Agrotis ipsilon*]. *J. Econ. Entomol.* 60(4): 923-925. Aug. 15, 1967. 421 J822
- 67921 SHOREY, H. H., and GASTON, L. K. Sex pheromones of noctuid moths. XII. Lack of evidence for masking of sex pheromone activity in extracts from females of *Heliothis zea* and *H. virescens* (Lepidoptera: Noctuidae). *Entomol. Soc. Amer. Ann.* 60(4):847-849. July 17, 1967. 420 En82
- 67922 SHOREY, H. H., MCFARLAND, S. U., and GASTON, L. K. Sex pheromones of noctuid moths. XIII. Changes in pheromone quantity, as related to reproductive age and mating history, in females of seven species of Noctuidae (Lepidoptera). *Entomol. Soc. Amer. Ann.* 61(2):372-376. Mar. 1968. 420 En82
- 67923 SPARKS, A. N., and others. Some factors influencing populations of the European corn borer, *Ostrinia nubilalis* (Hubner), in the North Central States: Resistance of corn, time of planting and weather conditions. II. 1958-1962. *Iowa Agr. Home Econ. Exp. Sta. Res. Bull.* 559:65-103, map. Ref. Dec. 1967. 100 Io9
- 67924 STARKS, K. J., and MCMILLIAN, W. W. Resistance in corn to the corn earworm and fall armyworm. II. Types of field resistance to the corn earworm [*Heliothis zea*]. *J. Econ. Entomol.* 60(4):920-923. Ref. Aug. 15, 1967. 421 J822
- 67925 STEWART, P. A. House sparrows nonpredaceous on tobacco hornworms [*Manduca sexta*] in induced feeding experiments. *J. Econ. Entomol.* 60(4):1180. Aug. 15, 1967. 421 J822
- 67926 TANADA, Y., and LEUTENEGGER, R. Histopathology of a granulosis-virus disease of the codling moth, *Carpocapsa pomonella*. *J. Invertebrate Pathol.* 10(1):39-47. Ref. Feb. 1968. 421 J826
- 67927 TANADA, Y., and CHANG, G. Y. Resistance of the alfalfa caterpillar, *Colias eurytheme*, at high temperatures to a cytoplasmic-polyhedrosis virus and thermal inactivation point of the virus. *J. Invertebrate Pathol.* 10(1):79-83. Ref. Feb. 1968. 421 J826
- 67928 URBACH, E. Larva and pupation of *Schrankia costaeirigalis* Stephens (Lep., Noctuidae). (Ge) *Entomol. Z.* 78(4):33-39. Feb. 15, 1968. 421 En85
- 67929 VAIL, P. V., HOWLAND, A. F., and HENNEBERRY, T. J. Seasonal distribution, sex ratios, and mating of female noctuid moths in blacklight trapping studies. *Entomol. Soc. Amer. Ann.* 61(2):405-411. Mar. 1968. 420 En82
- 67930 VAIL, P. V., and others. Sodium hypochlorite and formalin as antiviral agents against nuclear-polyhedrosis virus in larvae of the cabbage looper [*Trichoplusia ni*]. *J. Invertebrate Pathol.* 10(1):84-93. Ref. Feb. 1968. 421 J826
- 67931 WEISMANN, L., and PODMANICKA, D. Artificial diets in the rearing of the larvae of *Batrachia brassicae* L. (Ge) *Biologia [Bratislava]* 22(9):659-667. 1967. 442.8 B5265
- 67932 WOLF, W. W., and others. Sand as a carrier for synthetic sex pheromone of cabbage loopers [*Trichoplusia ni*] used to bait blacklight and carton traps. *J. Econ. Entomol.* 60(4): 1182-1184. Aug. 15, 1967. 421 J822
- 67933 CARLISLE, D. B., and ELLIS, P. E. Bracken and locust ecdysones; their effects on molting in the desert locust [*Schistocerca gregaria*]. *Science* 159(3822):1472-1473. Mar. 29, 1968. 470 Sci2
- 67934 DEAN, G. J. W. Observations on the structure of hopper bands and movement of hoppers of the red locust (*Nomadacris septemfasciata* Serville). *Entomol. Soc. Southern Afr. J.* 30(1): 1-17. Ref. June 1967. 420 En86
- 67935 ENGELMANN, F., and BARTH, R. H. Endocrine control of female receptivity in *Leucophaea maderae* (Blattaria). *Entomol. Soc. Amer. Ann.* 61(2):503-505. Ref. Mar. 1968. 420 En82
- 67936 EVLAKHOVA, A. A., and RAKITIN, A. A. The electric activity of the nervous circuit in *Locusta migratoria manilensis* Mey. under conditions of experimental mycosis. *Akad. Nauk SSSR. Dokl.* 178(2):485-488. 1968. 511 P444A
- 67937 EWER, D. W., and NAYLER, L. S. The pterothoracic musculature of *Deropeltis erythrocephala*, a cockroach with a wingless female, and the origin of wing movements in insects. *Entomol. Soc. Southern Afr. J.* 30(1):18-33. Ref. June 1967. 420 En86
- 67938 GRASSO, A. A sodium and potassium stimulated adenosine triphosphatase in the cockroach [*Periplaneta americana*] nerve cord. *Life Sci.* 5(18, pt. 2):1911-1918. Ref. Sept. 15, 1967. 442.8 L62

General Entomology  
Orthoptera



- 67929 HEGDEKAR, B. M. Observations on the median neurosecretory cells of the pars intercerebralis of the brain of the female grasshopper, *Poecilocus pictus*. Indian J. Entomol. 29(2):213-214. Ref. June 1967. 420 In23
- 67940 HILLABY, J. The years of the quiet locust [*Schistocerca gregaria*]. New Sci. 36(566):98-99. Oct.12,1967. 472 N42
- 67941 HORVATH, B. Z. Studies on the development of muscle in embryos of *Aulocara elliotti* (Thomas) (Orthoptera, Acrididae) using the fluorescent antibody technique. Diss. Abstr., Sect. B, 28(5):2187B. Nov.1967. Z5055.U49D53
- 67942 MAYER, R. J., and CANDY, D. J. Changes in haemolymph lipoproteins during locust [*Schistocerca gregaria*] flight. Nature 215 (5104):987. Aug.26,1967. 472 N21
- 67943 NOLTE, D. J. The chiasma-inducing pheromone of locusts. Chromosoma 23(3):346-358. Ref. Feb.12,1968. 442.8 C46  
*Schistocerca gregaria* and *Locusta migratoria migratorioides*.
- 67944 PUTNAM, L. G. Morphometric polymorphism in *Melanoplus sanguinipes* in Western Canada. Entomol. Soc. Amer. Ann. 61(2):540-541. Mar. 1968. 420 En82
- 67945 RICHTER, K. Study on the mechanism of effects caused by neurohormone D on the heart of *Periplaneta americana*. (Ge) Zool. Jahrbucher Abt. Allg. Zool. Physiol. Tiere 73(3): 261-275. Ref. 1967. 410 Z751Z
- 67946 RIEGERT, P. W. Association of subzero temperatures, snow cover, and winter mortality of grasshopper eggs in Saskatchewan. Can. Entomol. 99(9):1000-1003. Sept.1967. 421 C16
- 67947 RIEGERT, P. W. Some observations on the biology and behaviour of *Camnula pellucida* (Orthoptera: Acrididae). Can. Entomol. 99(9):952-971. Ref. Sept.1967. 421 C16
- 67948 ROBERTS, A. A., and MORAN, V. C. A simple method for recording the jumping of grasshoppers photographically. Entomol. Soc. Southern Afr. J. 30(1):116-118. June 1967. 420 En86
- 67949 SYCHEVSKAYA, V. I. Parasite of mole cricket [*Gryllotalpa unispina*]. (Rus) Zashch. Rast. 7:54. 1967. 421 Z1  
*Agria latifrons*.
- 67950 WANG, C. M. The organic composition of the haemolymph of the house cricket, *Acheta domesticus* (L.) (Orthoptera: Gryllidae), with special reference to the effect of insecticidal action. Diss. Abstr., Sect. B, 28(6):2468B. Dec.1967. Z5055.U49D53
- 67956 COLE, M. M. Body lice. In Smith, C. N., ed. Insect colonization and mass production, p.15-24. Ref. 1966. QL497.S6  
Includes rearing of *Pediculus humanus humanus* and rearing equipment.
- 67957 ELZINGA, R. J. A male *Corydalus cornutus* (Neuroptera: Corydalidae) with antennal and tarsal triplicated anomalies. Kans. Entomol. Soc. J. 41(1):60-62. Jan.1968. 420 K13
- 67958 GETSOVA, A. B., and VOLKOVA, G. A. New data on the accumulation of  $S^{35}$  and  $Ru^{106}$  by larvae of dragon flies (Odonata). (Rus) Entomol. Obozrenie 46(1):68-69. 1967. 421 R322  
*Aeschna grandis*.
- 67959 MALPUS, C. M. Electrical and mechanical responses of the skeletal muscle of a primitive insect [Aeshna]. Nature 215(5104):991-992. Ref. Aug.26,1967. 472 N21
- 67960 MENSHUTKINA, T. V. New data on the biology of caddis flies (Trichoptera, Limnophiliidae, Apataniidae) from Baikal. I. The life span and mass flight of imagines. (Rus) Entomol. Obozrenie 46(1):92-104. Ref. 1967. 421 R322
- 67961 PEDIGO, L. P. Selected life history phenomena of *Lepidocyrtus cyaneus* f. *cinereus* Folsom with reference to grooming and the role of the colophore (Collembola: Entomobryidae). Entomol. News [Philadelphia] 78(10):263-267. Dec.1967. 421 En88
- 67962 SCHAEFER, C. W. A dragonfly's unusual ecydysis-site (Odonata: Libellulidae). Entomol. News [Philadelphia] 78(10):268. Dec.1967. 421 En88  
*Somatochlora* sp.
- 67963 SIMON, H. R. Vertical distribution of two species of Entomobrya (Collembola, Entomobryidae); preliminary report. (Ge) Entomol. Z. 78(4):39-40. Feb.15,1968. 421 En85  
*Entomobrya corticalis* and *E. nivalis*.
- 67964 YAKUSHEV, V. M. Effect of termite vital activity on formation of laterite cover. (Rus) Pochvovedenie 1:113-115. 1968. 57.8 P34  
English summary.  
Africa.
- 67965 YOUNG, A. M. The flying season and emergence period of *Anax junius* in Illinois (Odonata: Aeshnidae). Can. Entomol. 99(8):886-890. Ref. Aug.1967. 421 C16

## TAXONOMIC AND GEOGRAPHIC ENTOMOLOGY

- 67966 AKADEMIYA NAUK SSSR. ZOOLOGICHESKII INSTITUT. Vrednye i poleznye nasekomye Dal'nego Vostoka SSSR [Harmful and beneficial insects of the USSR Far East]. Akad. Nauk SSSR. Zool. Inst. Tr. 41,241 p. Ref. 1967. 410.9 L543  
Taxonomy.
- 67967 BROWN, L. R., and EADS, C. O. Insects affecting ornamental conifers in southern California. Calif. Agr. Exp. Sta. Bull. 834,72 p. Ref., 69-72. Oct.1967. 100 C12S
- 67968 BROWNE, F. B. Ecology versus taxonomy. Entomol. Rec. J. Variation 79(9):212-216. Ref. Sept.1967. 421 En89  
Insects.
- 67969 EDEN, W. G. Insect damage to corn in three Southeastern States at time of harvest and in farm storage. U. S. D. A. Marketing Res. Rep. 792,9 p. Aug.1967. 1 Ag84Mr  
Georgia, Alabama and Mississippi.
- 67970 HOKURYUKAN HENSHUBU. Konchu 1. Gaichu to ekichu [Insects, 1. Insect pests and beneficial insects]. Tokyo, 1966. 252 p. (Genshoku Zukan: Seibutsu Hyakka Raiburari No. 6, 1966). QH13.G4
- 67971 HOKURYUKAN HENSHUBU. Konchu 2. Saishu no konchu [Insects 2. Collecting insects]. Tokyo, 1966. 307 p. (Genshoku Zukan: Seibutsu Hyakka Raiburari No. 7, 1966) QH13.G4  
Includes Coleoptera, Lepidoptera, and Odonata.
- 67972 KLEBENOW, D. A., and GRAY, G. M. Food habits of juvenile sage grouse. J. Range Manage. 21(2):80-83. Mar.1968. 60.18 J82  
Includes insects of Idaho ranges.

General Entomology  
Smaller Orders

- 67951 BENNET-CLARK, H. C., and LUCEY, E. C. A. The jump of the flea: a study of the energetics and a model of the mechanism. J. Exp. Biol. 47(1):59-76. Ref. Aug.1967. 442.8 B77  
A motion picture study of *Spilopsyllus cuniculus*, but *Hystriopsisylla talpae*, and *Xenopsylla cheopis* were examined for comparison.
- 67952 BISSETT, J. L., and MORAN, V. C. The life history and cocoon spinning behaviour of a South African mantispid (Neuroptera: Mantispidae). Entomol. Soc. Southern Afr. J. 30(1): 82-95. Ref. June 1967. 420 En86
- 67953 BLEIWEIS, S. Dragonflies as beneficial insects of forest communities. (Sl) Gozdarski Vest. 25 (5/6):148-153. Ref. 1967. 99.8 G74
- 67954 BYERS, G. W. A new *Bittacus* from the Congo (Mecoptera: Bittacidae). Kans. Entomol. Soc. J. 41(1):34-36. Jan.1968. 420 K13  
*Bittacus stanleyi*.
- 67955 CLAIRE, E. W., and PHILLIPS, R. W. The stonefly *Acrocnemia pacifica* as a potential predator on salmonid embryos. Amer. Fish. Soc. Trans. 97(1):50-52. Jan.1968. 414.9 Am3



- 67973 MRACHEK, R. J., and BACHMANN, R. W. Quantitative studies of the benthic fauna of Clear Lake, Iowa. *Iowa State J. Sci.* 42(2):161-170, map. Ref. Nov. 1967. 470 Io9  
Includes insects.
- 67974 POPHAM, E. J. The fauna of the Manchester, Bolton and Bury Canal. *Entomologist [London]* 100(1252):223-228. Sept. 1967. 421 En8  
Includes arthropods.
- 67975 SOUTHWOOD, T. R. E., and VAN EMDEN, H. F. A comparison of the fauna of cut and uncut grasslands. *Z. Angew. Entomol.* 60(2):188-198. Ref. Aug. 1967. 421 Z36  
Insect pests in Great Britain.
- 67976 WATTS, J. G., and BELLOTTI, A. C. Some new and little-known insects of economic importance on range grasses. *J. Econ. Entomol.* 60(4):961-963. Aug. 15, 1967. 421 J822  
Description of new taxa not included.
- Taxonomic and Geographic Entomology  
Arachnida, Myriapoda, etc.
- 67977 ABALOS, J. W., and BAEZ, E. C. The spider genus *Latrodectus* in Santiago del Estero, Argentina. *Int. Symp. Anim. Toxins. Papers, 1st Symp.*:59-74, map. 1966, pub. 1967. SF757.5.I5 1966
- 67978 BENOIT, P. L. G. Revision of the African species of genus *Hersilia* Sav. and Aud. (Araneida, Hersiliidae). (Fr) *Rev. Zool. Bot. Afr.* 76(1/2):1-36, map. Ref. Sept. 30, 1967. 410 R326  
Includes n. spp.
- 67979 BUCKETT, J. S., and GARDNER, M. R. Rediscovery of the type of the milliped, *Harpaghe telodonta* (Chamberlin) (Diplopoda: Eurydesmidae). *N. Y. Entomol. Soc. J.* 76(1):60-63. Mar. 1968. 420 N48J
- 67980 CHICKERING, A. M. The genus *Nöps* (Araneae, Caponiidae) in Panama and the West Indies. *Breviora* 274, 19 p. Ref. Nov. 17, 1967. 410 B75  
Includes n. spp.
- 67981 CHICKERING, A. M. Two new species of the genus *Otiotrops* (Araneae, Palpimanidae) from the Virgin Islands. *Psyche* 74(3):203-207. Sept. 1967. 421 P95  
*Otiotrops casobus* n. sp. and *O. pentacus* n. sp.
- 67982 EYNDHOVEN, G. L. VAN. The red currant gall mite, *Cecidophyopsis selachodon* n. sp. *Entomol. Ber.* 27(8):149-151. Aug. 1, 1967. 420 N38B  
Black currant gall mite *Cecidophyes ribis* also placed in *Cecidophyopsis*.
- 67983 HOFFMAN, R. L. Revision of the milliped genus *Cleptoria* (Polydesmida, Xystodesmidae). *U. S. Nat. Mus. Proc.* 124(3630), 27 p., map. 1967. 500 Sm65P  
Includes n. spp.
- 67984 HOM, K. Notes on two California whip-scorpions (Uropygi, Schizomidae). *Pan-Pacific Entomol.* 43(3):216-220, map. July 1967. 421 P193  
*Trithyreus belkini* and *T. pentapeltis*.
- 67985 HOOGSTRAAL, H., KAISER, M. N., and KOHLS, G. M. The subgenus *Persicargas* (Ixodoidea, Argasidae, Argas). 4. *Argas (P.) robertsi*, new species, a parasite of Australian fowl, and keys to Australian argasid species. *Entomol. Soc. Amer. Ann.* 61(2):535-539. Ref. Mar. 1968. 420 En82
- 67986 KOK, D. J. Studies on some South African Opipiidae Grandjean, 1953 (Acarina: Oribatei). *Entomol. Soc. Southern Afr. J.* 30(1):40-74. Ref. June 1967. 420 En86  
Includes n. spp. in *Amerioppia*, *Brachioppia*, and *Oppia*.
- 67987 KRANTZ, G. W., and MELLOTT, J. L. Two new species of *Macrocheles* (Acarina: Macrochelidae) from Florida, with notes on their host-specific relationships with geotrupine beetles (Scarabaeidae: Geotrupinae). *Kans. Entomol. Soc. J.* 41(1):48-56. Ref. Jan. 1968. 420 K13  
*Macrocheles mycotrupetes* and *M. peltotrupetes* n. spp.
- 67988 LEHTINEN, P. T. Classification of the Cribellate spiders and some allied families, with notes on the evolution of the suborder Araneomorpha. *Ann. Zool. Fenn.* 4(3):199-468, map. 1967. 410 An712  
Bibliography, p. 421-430.  
Includes *Agelenella* n. g., *Ambika* n. g., *Andoharano* n. g., *Arctobius* n. g., *Astavakra* n. g., *Balami* n. g., *Banaidja* n. g., *Benoitia* n. g., *Brigittea* n. g., *Daramulunia* n. g., *Devendra* n. g., *Exlinea* n. g., *Forsterina* n. g., *Gandameno* n. g., *Hackmania* n. g., *Huanacauria* n. g., *Intihuatana* n. g., *Iviella* n. g., *Kidugua* n. g., *Kukulcania* n. g., *Machadonia* n. g., *Magunia* n. g., *Maimuna* n. g., *Maitreja* n. g., *Marilynia* n. g., *Mashimo* n. g., *Matundua* n. g., *Mexitlia*
- 67989 MCCRONE, J. D. Biochemical differentiation of the sibling black widow spiders, *Latrodectus mactans* and *L. variolus*. *Psyche* 74(3):212-217. Ref. Sept. 1967. 421 P95
- 67990 MOSS, W. W. The biological and systematic relationships of the mite, *Dermanyssus prognepilus* Ewing (Acari: Mesostigmata: Dermanyssidae). *Diss. Abstr.*, Sect. B, 28 (3):1279B. Sept. 1967. Z5055.U49D53
- 67991 MUCHMÖRE, W. B. Redescription of the type species of the pseudoscorpion genus *Kewochthonius* Chamberlin. *Entomol. News [Philadelphia]* 79(3):71-76. Mar. 1968. 421 En88
- 67992 PRASAD, V. *Noctuiseius treati*, a new genus and species of moth mite from Hawaii and Easter Island. *Entomol. Soc. Amer. Ann.* 61(2):411-413. Mar. 1968. 420 En82  
Phytoseiidae, Otopheidomeninae taken from *Achaea janata*.
- 67993 WOOD, T. G. New Zealand mites of the family Stigmaeidae (Acari, Prostigmata). *Roy. Soc. New Zeal. Trans. Zool.* 9(9):93-139. Ref. July 28, 1967. 514 W46Tz  
Includes n. spp. in *Stigmaeus*, *Eryngiopus*, *Mediolata*, *Zetzellia*, *Ledermuelleriopsis*, and *Mecognatha* n. g., and *Pseudostigmaeus* n. g.
- Taxonomic and Geographic Entomology  
Coleoptera
- 67994 ALLEN, A. A. *Atheta* (Disopora) *languida* Er. (Col., Staphylinidae) in Middlesex; with a note on Sharp's interpretation of the species. *Entomol. Mon. Mag.* 103(1235/1237):143. Apr./June 1967. 421 En86
- 67995 ALLEN, A. A. *Atheta eremita* Rye (Col., Staphylinidae) new to Kent. *Entomol. Mon. Mag.* 103(1235/1237):130. Apr./June 1967. 421 En86
- 67996 ANDREWS, R. M. Notes on the biology of two Central American *Ptinus* (Coleoptera: Ptinidae) with a description of a new species. *Psyche* 74 (3):191-202. Ref. Sept. 1967. 421 P95  
*Ptinus latefasciatus*, *P. californicus*, and *P. costaricensis* n. sp.
- 67997 BARR, T. C. Three new cave trechines from Mexico (Coleopt.: Carab.). *Ciencia* 25(5):161-166. July 20, 1967. 475 C48  
*Paratrechus* (*Hygroduvalius*) *pallescens*, *Mexaphaenops elegans* and *M. fishi*, n. spp.
- 67998 BOLIVAR Y PEILTAIN, C., ROTGER, B., and CORONADO-G, L. A new Mexican *Carabus* from Nuevo Leon (Col., Carabidae). (Sp) *Ciencia* 25(5):155-160, map. Ref. July 20, 1967. 475 C48  
*Carabus* (*Tanaocarabus*) *hendrichsi*.
- 67999 BOTTIMER, L. J. On the two species of *Bruchidius* (Coleoptera: Bruchidae) established in North America. *Can. Entomol.* 100(2):139-145. Ref. Feb. 1968. 421 C16  
*Bruchidius ater* and *B. unicolor*.
- 68000 BRIGHT, D. E. A review of the genus *Cactopinus*, with descriptions of two new species and a new genus (Coleoptera: Scolytidae). *Can. Entomol.* 99(9):917-925. Sept. 1967. 421 C16  
Includes n. spp. in *Cactopinorus* n. g. and *Cactopinus*.

- 68001** CARTWRIGHT, O. L. Two new species of Cartwrightia from Central and South America (Coleoptera, Scarabaeidae, Aphodiinae). U. S. Nat. Mus. Proc. 124(3632), 8 p. 1967. 500 Sm65P  
Cartwrightia islasii and C. cartwrighti.
- 68002** CHEMSAK, J. A., and LINSLEY, E. G. New species of the genus Zagymnus (Coleoptera: Cerambycidae). Kans. Entomol. Soc. J. 41(1): 37-40. Jan. 1968. 420 K13
- 68003** CHEMSAK, J. A. Notes on Cerambycidae of Grand Bahama Island (Coleoptera). Pan-Pacific Entomol. 43(3):181-188. July 1967. 421 P193  
Includes n. spp. in Nesophanes n. g. and Elaphidion.
- 68004** FÄGEL, G. Contribution to the study of Staphylinidae. XCVIII. Two remarkable Paederus from western Africa. (Fr) Rev. Zool. Bot. Afr. 76(1/2):173-177. Sept. 30, 1967. 410 R326  
Paederus montisloaensis n. sp. and P. lufianus n. sp.
- 68005** GUR'EVA, E. L. The click beetles (Coleoptera, Elateridae) of the Amur-Zeya plateau. (Rus) Akad. Nauk SSSR. Zool. Inst. Tr. 41:134-138. 1967. 410.9 L543  
Includes Agriotes zinovjevi n. sp.
- 68006** HESPERNHEIDE, H. A. An immigrant Agrilus (Coleoptera: Buprestidae). Entomol. News [Philadelphia] 79(3):76-80. Mar. 1968. 421 En88  
Agrilus pilosovittatus, native to Japan found in New Jersey.
- 68007** HOWDEN, H. F. Mexican Geotrupini: a new species of Geotrupes and description of the larvae of Ceratogrupes (Coleoptera: Scarabaeidae). Can. Entomol. 99(9):1003-1007. Sept. 1967. 421 C16  
Geotrupes fisheri n. sp.
- 68008** JOHNSON, C. Studies on Ethiopian Ptiliidae. 1. Africoptilum gen. n. from central Africa. Entomologist [London] 100(1254):288-292. Nov. 1967. 421 En8
- 68009** KEHAT, M. Survey and distribution of common lady beetles (Col. Coccinellidae) on date palm trees in Israel. Entomophaga 12(2):119-125. 1967. 421 En835  
Pharoscyms numidicus and Chilocorus bipustulatus as predators of Parlatoria blanchardi.
- 68010** LEVASSEUR, L. New genera and species of Staphylinidae (Col.) from Africa. (Fr) Inst. Fondamental Afr. Noire. Bull., Ser. A, Sci. Natur. 29(3):954-977. July 1967. 515 D14  
New spp. in Hesperus, Gabrius, Philonthus, Brachida, Myrmecopora, Plagiusa, Pachorhopala, Pseudopachorhopala, Katanganella, Manikaella n. g., and Camerouniella n. g.
- 68011** MARIAU, D. Fluctuations in Oryctes populations in the Ivory Coast. (Fr) Oleagineux 22(7):451-454. July 1967. 77.8 OL2  
English summary.  
Oryctes monoceros and O. boas infecting coconut plantations.
- 68012** SELANDER, R. B. A taxonomic review of the genus Protomeloe (Coleoptera: Meloidae). Pan-Pacific Entomol. 43(3):244-250. July 1967. 421 P193
- 68013** STEIN, W. The snout beetle fauna of grasslands and their phytopathological importance. I. (Ge) Z. Angew. Entomol. 60(1):3-59. June 1967. 421 Z36  
Includes plant ecology in Germany.
- 68014** TETRAULT, R. C. A revision of the family Helodidae (Coleoptera) for America north of Mexico. Diss. Abstr., Sect. B, 28(3):931B. Sept. 1967. Z5055.U49D53
- 68015** TRIPLEHORN, C. A. Generic classification in Coniontini and description of a new species of Eusattus from Texas. Entomol. Soc. Amer. Ann. 61(2):376-380. Ref. Mar. 1968. 420 En82  
Eusattus pons n. sp.
- 68016** VAURIE, P. Distribution notes on Metamasius (Coleoptera: Curculionidae). N. Y. Entomol. Soc. J. 76(1):32-33. Mar. 1968. 420 N48J  
Neotropical Region.
- Taxonomic and Geographic Entomology  
Diptera
- 68017** CHINA, W. E. Opinion 834: Tipula nubeculosa Meigen, 1804 (Insecta, Diptera): addition to the official list of specific names. Bull. Zool. Nomencl. 24(5):288-289. Dec. 7, 1967. 410 B874
- 68018** DODGE, H. R., and AITKEN, T. H. G. Philornis flies from Trinidad (Diptera: Muscidae). Kans. Entomol. Soc. J. 41(1):134-154. Jan. 1968. 420 K13  
Includes n. spp.
- 68019** DODGE, H. R. The Sarcophagidae of Barro Colorado Island, Panama (Diptera). Entomol. Soc. Amer. Ann. 61(2):421-450. Ref. Mar. 1968. 420 En82  
Includes n. spp. in Metopia, Anapunaphyto n. g., Chaetoravinia, Dexosarcophaga, Duochaeta n. g., Helicobia, Nephochaetopteryx, Nothochaeta, Oxyarscodexia, Panava n. g., Pessomyia, Rettenmeyerina n. g., Varcophaga n. g., and Xarcophaga n. g.
- 68020** DODGE, H. R. Some new and little-known species of Philornis (Diptera: Muscidae). Kans. Entomol. Soc. J. 41(1):155-164. Jan. 1968. 420 K13
- 68021** FAIRCHILD, G. B. Notes on Neotropical Tabanidae Diptera. XI. Stenotabanus staryi n. sp. from Cuba. Psyche 74(3):208-211. Sept. 1967. 421 P95
- 68022** FREEMAN, B. A. Status of Zodion zebrinum, Z. auricaudatum, and Z. albonotatum (Diptera: Conopidae). Entomol. Soc. Amer. Ann. 61(2): 276-278. Mar. 1968. 420 En82
- 68023** HARRIS, K. M. A systematic revision and biological review of the cecidomyiid predators (Diptera: Cecidomyiidae) on world Coccoidea (Hemiptera: Homoptera). Roy. Entomol. Soc. London. Trans. 119(13):491-494. Ref. Jan. 23, 1968. 420 L84  
Includes Vincentodiplosis n. g. and n. spp. in Coccodiplosis, Dicrodiplosis, Ghesquierinia, Lestodiplosis, Megommata, Nipponodiplosis n. g.
- 68024** HENDRICKSON, J. A., and SOKAL, R. R. A numerical taxonomic study of the genus Psorophora (Diptera: Culicidae). Entomol. Soc. Amer. Ann. 61(2):385-392. Mar. 1968. 420 En82  
Compared with 14 species of Aedes.
- 68025** JAMES, M. T. Bredin-Archbold-Smithsonian biological survey of Dominica. 5. Family Stratiomyidae (Diptera). U. S. Nat. Mus. Proc. 123(3622), 23 p. 1967. 500 Sm65P  
Includes n. spp. in Cyphomyia, Pelagomyia, Merosargus, Psephocera, Meristocera, Dactyloctes, Pachygaster and Chalcomorphina.
- 68026** KIM, K. C. Revision of Sphaerocera with description of a new genus Afromyia (Diptera: Sphaeroceridae). Entomol. Soc. Amer. Ann. 61(2):296-312. Ref. Mar. 1968. 420 En82  
Includes n. spp. in Sphaerocera.
- 68027** KOVALEV, O. V. Contributions to the fauna and ecology of the gall-making insects of the Far East of the USSR, with the description of new species of Cecidomyiidae (Diptera). (Rus) Akad. Nauk SSSR. Zool. Inst. Tr. 41:80-133. Ref. 1967. 410.9 L543  
In Lasiopoda, Trotteria, Asteromyia, Rhopalomyia, Diarthronomyia, Rhabdophaga, Dasyneura, and Artemisiobia n. g..
- 68028** LEWIS, D. J. Redescriptions of two South American sand-flies (Diptera: Psychodidae). Roy. Entomol. Soc. London Proc. Ser. B, Taxonom. 36(9/10):131-136. Ref. Oct. 27, 1967. 420 L84Pb  
Lutzomyia walkeri and L. rostrans.
- 68029** MARTIN, C. H. The new family Leptogastridae (the grass flies) compared with the Asilidae (robber flies) (Diptera). Kans. Entomol. Soc. J. 41(1):70-100. Ref. Jan. 1968. 420 K13
- 68030** MARTIN, C. H. A revision of Ospricerus (Diptera, Asilidae). Calif. Acad. Sci. Proc. (ser. 4) 35(18):401-423. Ref. Feb. 23, 1968. 500 C12P  
Includes n. spp.



- 68031 NIJVELDT, W. *Neolasioptera martelli* sp. n., a gall midge injuring agave in Mexico. *Entomol. Ber.* 27(7):125-127. July 1, 1967. 420 N38B
- 68032 PECHUMAN, L. L. Lectotype designation for *Chrysops shermani* Hine (Diptera, Tabanidae). *Entomol. News* [Philadelphia] 78(10):260. Dec. 1967. 421 En88
- 68033 PHILIP, C. B. New North American Tabanidae. XIX. Four new species from Mexico, Honduras, and Arizona. *Entomol. Soc. Amer. Ann.* 61(2):380-383. Mar. 1968. 420 En82  
New spp. in *Esenbeckia*, *Dichelacera*, and *Tabanus*.
- 68034 RENTZ, D. C. *Dactylolabis* (Eudactylolabis) *vestigipennis* Alexander, a xerophytic subapterous crane-fly new to California (Diptera: Tipulidae). *Entomol. News* [Philadelphia] 78(10):261-262. Dec. 1967. 421 En88
- 68035 ROTH, J. C. Notes on *Chaoborus* species from the Douglas Lake region, Michigan, with a key to their larvae (Diptera, Chaoboridae). *Mich. Acad. Sci. Arts Lett. Papers* 52(1):63-68. 1966, pub. 1967. 500 M582
- 68036 SABROSKY, C. W., and GAGNE, R. J. *Lasiop-tera* Meigen, 1818: application to preserve the generic name in its accustomed meaning (Diptera, Cecidomyiidae). *Z.N.(S.)* 1822. *Bull. Zool. Nomencl.* 24(5):310-312. Ref. Dec. 7, 1967. 410 B874
- 68037 SMITH, K. G. V. A second Palaearctic species of *Drapetis* subgenus *Elaphropeza* Macquart (Diptera: Empididae) from Spain. *Roy. Entomol. Soc. London. Proc. Ser. B, Taxonom.* 36(9/10):153-155. Oct. 27, 1967. 420 L84Pb  
*Drapetis hutsoni* n. sp.
- Taxonomic and Geographic Entomology  
Hemiptera (Heteroptera and Homoptera)
- 68038 ALLEN, A. A. *Reduvius personatus* L. (Hem.-Het., Reduviidae) in suburban Surrey. *Entomol. Mon. Mag.* 103(1235/1237):143. Apr./June 1967. 421 En86
- 68039 BĀLACHOWSKY, A. S., and FERRERO, D. A. New *Nimbaspis* Balachw. (Coccoidea, Odonaspidini) from the central African savanna. (Fr) *Inst. Fondamental Afr. Noire. Bull., Ser. A, Sci. Natur.* 29(3):1021-1025. July 1967. 515 D14  
*Nimbaspis squamosus* n. sp.
- 68040 BECKER, M. Study of the subfamily Scaptocorinae of the Neotropical Region (Hemiptera, Cydnidae). (Por) *Arq. Zool. Estad. Sao Paulo* 15(4):291-323. Ref. July 27, 1967. 410 Ar6  
English summary.  
Includes n. sp. in *Scaptocoris* and *Atarso-coris* n. g.
- 68041 CAPENER, A. L. A new *Leptocentrus* (Homoptera: Membracidae) from the Congo. *N. Y. Entomol. Soc. J.* 76(1):37-38. Mar. 1968. 420 N48J  
*Leptocentrus rufotibialis* n. sp.
- 68042 DANTSIG, E. M. Contributions to the knowledge of the Coccidae (Homoptera) of the Maritime Territory. (Rus) *Akad. Nauk SSSR. Zool. Inst. Tr.* 41:139-172. Ref. 1967. 410.9 L543  
Includes n. spp. in *Eupulvinaria*, *Pulvinaria*, *Lecaniococcus*, *Parthenolecanium*, *Eulecanium*, and *Lecaniococcus* n. g..
- 68043 GERSON, U. Studies of the chaff scale [*Parlatoria pergandii*] on citrus in Israel. *J. Econ. Entomol.* 60(4):1145-1151. Ref. Aug. 15, 1967. 421 J822  
Population study.
- 68044 GILIOLEE, J. H. A record of *Bagrada hilaris* Burm. (Heteroptera: Pentatomidae) washed up by the sea. *Entomol. Soc. Southern Afr. J.* 30(1):119. June 1967. 420 En86
- 68045 HUSSEY, R. F., and WYGODZINSKY, P. On the authorship of the generic name *Tagalis* and the invalidity of the family-group name "Tagalidae" (Hemiptera: Reduviidae). *N. Y. Entomol. Soc. J.* 76(1):34-46. Ref. Mar. 1968. 420 N48J
- 68046 ILHARCO, F. A. The potato-infesting aphids in Portugal. (Por) *Agron. Lusitana* 28(1):5-41. Ref. 1966, pub. 1967. 105.7 Ag8  
English summary.
- 68047 KNIGHT, W. J. A revision of the Holarctic genus *Dikraneura* (Homoptera: Cicadellidae). *Brit. Mus. (Natur. Hist.) Bull. Entomol.* 21(3):99-201. Ref. 1968. 420 B773  
Includes n. spp.
- 68048 LEONARD, D. E. A revision of the genus *Blissus* (Heteroptera: Lygaeidae) in Eastern North America. *Entomol. Soc. Amer. Ann.* 61(2):239-250. Ref. Mar. 1968. 420 En82  
Includes n. spp.
- 68049 MACGILLIVRAY, M. E. A review of twelve aphid species described as new by Edith M. Patch. *Entomol. Soc. Amer. Ann.* 61(2):338-362. Ref. Mar. 1968. 420 En82  
In 1919.
- 68050 MILLER, D. R., and MCKENZIE, H. L. A systematic study of *Ovaticoccus* Kloeet and its relatives, with a key to North American genera of Eriococcidae (Homoptera: Coccoidea: Eriococcidae). *Hilgardia* 38(13):471-539. Ref. p. 537-539. Oct. 1967. 100 C12H  
Includes *Spiroporococcus* n. g. and n. spp. in *Cornoculus*, *Oregmopyga*, and *Ovaticoccus*.
- 68051 POISSON, R. A. Contribution to the fauna of the Congo (Brazzaville): Mission A. Villiers and A. Descarpentries. LVIII. Hemiptera, Heteroptera, Hydrocorisae. (Fr) *Inst. Fondamental Afr. Noire. Bull., Ser. A, Sci. Natur.* 29(3):1321-1333. Ref. July 1967. 515 D14
- 68052 RICHARDS, W. R. A new species of *Pleotrichophorus* [P. *amsinckii*] from British Columbia (Homoptera: Aphididae). *Can. Entomol.* 100(2):195-197. Feb. 1968. 421 C16
- 68053 SCUDDER, G. G. E., and POPOV, Y. A. The systematic position of *Coryzus semicruciat* Motschulsky, 1863 (Hemiptera). *Roy. Entomol. Soc. London Proc. Ser. B, Taxonom.* 36(9/10):156-158. Oct. 27, 1967. 420 L84Pb  
Transferred to *Pylorgus* in the subfamily *Ischnorhynchinae*.
- 68054 STENSETH, C. Green peach aphid [*Myzus persicae*]—an important pest of Chrysanthemum. (No) *Gartneryrket* 45(57):955, 957. Nov. 10, 1967. 80 G1938
- 68055 STUBBS, A. E. *Pachybrachius fracticollis* (Schilling) (Hem., Lygaeidae) in Merioneth. *Entomol. Mon. Mag.* 103(1235/1237):140. Apr./June 1967. 421 En86
- 68056 STUSAK, J. M. A new genus of Neotropical stilt-bugs (Hemiptera: Berytidae). *N. Y. Entomol. Soc. J.* 76(1):2-8. Mar. 1968. 420 N48J  
*Acanthoberytus wygodzinski* n. g., n. sp.
- 68057 TAKAGI, S. An additional note on dimorphism in *Chionaspis nyssae*. *Insecta Matsumurana* 30(1):55-56. Dec. 1967. 421 In77  
Nomenclature.
- 68058 TAKAGI, S. Examinations of the type slides of three Diaspididae described from Japan (Homoptera: Insecta Matsumurana 30(1):52-55. Dec. 1967. 421 In77  
*Chionaspis kiushiuensis*, *Aulacaspis wakayamaensis*, and *Aspidiotus corticispini*.
- 68059 TAKAGI, S., and KAWAI, S. The genera *Chionaspis* and *Pseudaulacaspis* with a criticism on *Phenacaspis* (Homoptera: Coccoidea). *Insecta Matsumurana* 30(1):29-43. Ref. Dec. 1967. 421 In77  
Includes *Chionaspis kosztarabi* n. sp.
- 68060 VILBASTE, J. On some East-Asiatic leafhopper genera (Homoptera: Cicadina: Iassidae). *Insecta Matsumurana* 30(1):44-51. Ref. Dec. 1967. 421 In77  
Includes *Albicostella kiushiuensis* n. sp.
- 68061 VILLIERS, A. Revision of African Reduviidae. III. Reduviinae, genus *Psirra* Stal. (Fr) *Inst. Fondamental Afr. Noire. Bull., Ser. A, Sci. Natur.* 29(3):1026-1038, map. July 1967. 515 D14  
Includes n. spp.

- 68062 WALLIS, R. L. Some host plants of the green peach aphid [*Myzus persicae*] and beet western yellows virus in the Pacific Northwest. *J. Econ. Entomol.* 60(4):904-907. Aug. 15, 1967. 421 J822  
Chiefly Cruciferae and Compositae as host plants.
- 68063 WOODROFFE, G. E. The British Teratocoris Fieber 1858 (Hem., Miridae) including *T. elegans* sp. nov. *Entomologist [London]* 100(1252): 229-237. Sept. 1967. 421 En8
- 68064 WOODROFFE, G. E. The identity of the British *Monosynnum* Scott 1864 (Hem., Miridae). *Entomologist [London]* 100(1252):217-222. Sept. 1967. 421 En8
- Taxonomic and Geographic Entomology  
Hymenoptera
- 68065 ALLEN, D. C. A new species of *Dirophanes* (Hymenoptera: Ichneumonidae) parasitic on *Choristoneura pinus* in northern Michigan. *Can. Entomol.* 99(8):893-896. Aug. 1967. 421 C16  
*Dirophanes banksianae* n. sp.
- 68066 ALLEN, H. W. Bredin-Archbold-Smithsonian biological survey of Dominica. 4. Two new species of *Tiphia* from the West Indies (Hymenoptera: Tiphidae). *U. S. Nat. Mus. Proc.* 123(3617), 4 p. 1967. 500 Sm65P  
*Tiphia dominicae* and *T. layouae*.
- 68067 ASKEW, R. R. *Ratzeburgiola Erdos* (Hymenoptera, Eulophidae), a genus new to the British Isles. *Entomologist [London]* 287. Nov. 1967. 421 En8
- 68068 BALDUF, W. V. Bionomic notes on the hexapodous parasites of *Acrobasis rubrifasciella* [Phycitidae]. *Entomol. Soc. Amer. Ann.* 61(2): 463-476. Ref. Mar. 1968. 420 En82  
26 spp. including *Apanteles baldufi* n. sp., named and described by C. F. W. Muesebeck.
- 68069 BENSON, R. B. *Pachynematus laevigatus* Zaddach as a British sawfly and the females of *P. chambersi* Benson, *P. smithiae* Ross and *P. sulcatus* Benson (Hym., Tenthredinidae). *Entomol. Mon. Mag.* 103(1235/1237):141-143. Apr./June 1967. 421 En86
- 68070 BRADLEY, J. C., and BETREM, J. G. The types of the *Scoliidae* described by Frederick Smith (Hymenoptera) with descriptions of new taxa, and notes on the oriental localities where Alfred Russel Wallace collected. *Brit. Mus. (Natur. Hist.) Bull. Entomol.* 20(7):287-327. Ref. Sept. 29, 1967. 420 B773  
Includes *Gugliana* n. g., *Campsomeris* (Megameris) n. sgen., *C. (Micromeris)* n. sgen., *C. (Phalerimeris)* n. sgen., and *C. (Tristimeris) bradleyi* n. sp.
- 68071 BROWN, W. L., and KEMPF, W. W. *Tatuidris*, a remarkable new genus of Formicidae (Hymenoptera). *Psyche* 74(3):183-190. Sept. 1967. 421 P95  
*Tatuidris tatusia* n. g. n. sp.
- 68072 BURKS, B. D., and BROWN, H. P. *Psephenus [texanus]* (Coleoptera: Psephenidae) parasitized by a new chalcidoid (Hymenoptera: Eulophidae). I-II. *Entomol. Soc. Amer. Ann.* 61(2):450-452. Mar. 1968. 420 En82  
I, Description of the parasite [*Psephenivorus mexicanus* n. g., n. sp.] by B. D. Burks; II, Biology of the parasite, by H. P. Brown.
- 68073 EVANS, H. E. Studies on Neotropical Pompilidae (Hymenoptera). III. Additional notes on *Epipompilus* Kohl. *Breviora* 273, 15 p. Nov. 17, 1967. 410 B75  
Includes n. spp.
- 68074 HAACKER, U. Diurnal rhythm in the vertical movement of millipedes (Myriapoda, Diplopoda). (Ge) *Naturwissenschaften* 54(13):346-347. July 1, 1967. 474 N213
- 68075 KROMBEIN, K. V. A new *Collembola*-hunting *Microstigma* [M. comes n. sp.] with notes on *M. guianensis* Rohrer (Hymenoptera, Sphecidae). *Entomol. News [Philadelphia]* 78(10):253-256. Dec. 1967. 421 En88
- 68076 KUSIGEMATI, K. On the Japanese species of the genus *Chorinaeus* Holmgren, with descriptions of five new species (Hymenoptera: Ichneumonidae). *Insecta Matsumurana* 30(1):17-27. Dec. 1967. 421 In77
- 68077 KUSIGEMATI, K. On the species of *Plectochorus* Uchida in Japan with description of a new species. *Insecta Matsumurana* 30(1):27-28. Dec. 1967. 421 In77  
*Plectochorus niger* n. sp.
- 68078 MACKAUER, M. A new genus and several new species of aphid parasites [Hym. Aphidiidae]. *Entomophaga* 12(2):139-147. 1967. 421 En835  
New spp. in *Chaetopauesia* n. g., *Areopraon*, *Praon*, *Trioxys* (*Trioxys*) and *Trioxys* (*Pectoxys*).
- 68079 MICKEL, C. R. The female sex of the Mutillidae subfamily Eotillinae (Hymenoptera). *Psyche* 74(3):234-236. Sept. 1967. 421 P95  
It may be *Eotilla mickeli*.
- 68080 PORTER, C. C. A new genus of the Trachysphyrus group from southern Brazil (Hymenoptera, Ichneumonidae). *Psyche* 74(3):218-223, map. Sept. 1967. 421 P95  
*Nelophia compsa* n. g., n. sp.
- 68081 RIBBLE, D. W. Revisions of two subgenera of *Andrena*: *Micrandrena* Ashmead and *Derandrena*, new subgenus (Hymenoptera: Apoidea). *Diss. Abstr., Sect. B*, 28(6):2468B. Dec. 1967. Z5055.U49D53  
Includes n. spp.
- 68082 SHINN, A. F. A revision of the bee genus *Calliopsis* and the biology and ecology of its type species (Hymenoptera, Andrenidae). *Diss. Abstr., Sect. B*, 28(3):1287B-1288B. Sept. 1967. Z5055.U49D53  
Includes n. spp.
- 68083 STEFFAN, J. R. *Paraholaspis ovivora* n. sp. (Hym., Torymidae) as parasite of the eggs of buprestid *Steraspis speciosa* Klug. (Fr) *Entomophaga* 12(2):149-152. 1967. 421 En835  
English summary.
- 68084 TAYLOR, R. W. Nomenclature and synonymy of the North American ants of the genera *Ponera* and *Hypoponera* (Hymenoptera: Formicidae). *Entomol. News [Philadelphia]* 79(3):63-66. Mar. 1968. 421 En88
- 68085 TOBIAS, V. I. Far East as centre of abundance of the tribe Helconini (Hymenoptera, Braconidae) in the Palearctic. (Rus) *Akad. Nauk SSSR. Zool. Inst. Tr.* 41:222-238. Ref. 1967. 410.9 L543  
Includes n. spp. in *Helconidea*, *Helcon*, and *Aspidocolpus*.
- 68086 TRYAPITSIN, V. A. Encyrtids (Hymenoptera, Encyrtidae) of the Maritime Territory. (Rus) *Akad. Nauk SSSR. Zool. Inst. Tr.* 41:173-221. Ref. 1967. 410.9 L543  
Includes n. spp. in *Methaphycus*, *Psyllaephagus*, *Calluniphilus*, *Microterys*, *Ooencyrtus*, *Aphidencyrtus*, *Mayridia*, *Paralitomastix*, *Bethylominus*, *Bothriothorax*, *Discodes*, and *Apterencyrtus*.
- 68087 WALLEY, G. S. Nearctic species of the *Diadegma stenosomus* complex (Hymenoptera: Ichneumonidae). *Can. Entomol.* 99(9):925-943. Sept. 1967. 421 C16  
Includes n. spp. in *Diadegma*.
- 68088 WATANABE, C. Further revision of the genus *Macrocentrus* Curtis in Japan with descriptions of two new species (Hymenoptera, Braconidae). *Insecta Matsumurana* 30(1):1-16. Ref. Dec. 1967. 421 In77  
*Macrocentrus pilosus* n. sp. and *M. mandibularis* n. sp. and a list of host Lepidoptera.
- 68089 YARROW, I. H. H. Kirby's species of British bees: designation of holotypes and selection of lectotypes. I. Introduction and the species of *Apis* Linnaeus now included in the genera *Bombus* Latreille and *Psithyrus* Lepeletier. *Roy. Entomol. Soc. London. Proc. Ser. B, Taxonom.* 37(1/2):9-15. Mar. 5, 1968. 420 L84Pb  
W. Kirby's *Monographia Apum Angliae* 1802.



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Lepidoptera

- 68090 BROWN, F. M. The proper name for *Lycaena epixanthe* from Newfoundland and the Maritime Provinces. N. Y. Entomol. Soc. J. 76(1):22-26. Ref. Mar.1968. 420 N48J
- 68091 BUCKETT, J. S. Description of the male of *Lithophane gausapata* (Noctuidae). Lepidopterists' Soc. J. 22(1):42-45. 1968. 421 L554
- 68092 CAMPING, M. W. *Colostygia multistrigaria* Haworth; *Epirrhone tristata* L. (Lep. Geometridae). Entomol. Ber. 27(7):140. July 1, 1967. 420 N38B  
Text in Dutch.
- 68093 CHALMERS-HUNT, J. M. The butterflies and moths in Kent: a critical account. II. Additions and corrections. Entomol. Rec. J. Variation 79(9,sup.):353-356. (Cont.) Sept.1967. 421 En89
- 68094 CHALMERS-HUNT, J. M. The butterflies and moths in Kent: a critical account. II. Entomol. Rec. J. Variation 79(7/8,sup.):347-(352). July/Aug.1967. 421 En89
- 68095 DAVIES, T. W., and ARNAUD, P. H. A remarkable aberrant female of *Speyaria nokomis* (Edwards) (Lepidoptera: Nymphalidae). Pan-Pacific Entomol. 43(3):179-181. July 1967. 421 P193
- 68096 DUCKWORTH, W. D. Neotropical microlepidoptera. XV. Review of genus *Thioſcelis* (Lepidoptera; Stenomidae). U. S. Nat. Mus. Proc. 123(3620), 11 p., map. 1967. 500 Sm65P  
Includes n. species.
- 68097 FERGUSON, D. C. A revision of the moths of the subfamily Geometrinae occurring in America north of Mexico. Diss. Abstr., Sect. B, 28 (6):2466B. Dec.1967. Z5055.U49D53
- 68098 FRANCLEMONT, J. G. A new species of *Metaxaglaea* (Lepidoptera, Noctuidae, Cuculliinae). Entomol. News [Philadelphia] 79(3):57-63. Mar.1968. 421 En88  
*Metaxaglaea semitaria* n. sp.
- 68099 IRWIN, R. R. *Thymelicus lineola* (Hesperiidae) in Illinois. Lepidopterists' Soc. J. 22(1):21-26, map. 1968. 421 L554
- 68100 KLOTS, A. B. The North American *Microcrambus* (Lepidoptera: Pyralidae). N. Y. Entomol. Soc. J. 76(1):9-21. Ref. Mar.1968. 420 N48J  
Includes n. spp.
- 68101 KUZNETSOV, V. I. Leaf rollers (Lepidoptera, Tortricidae) of the Amur and Zeya Rivers inter-area and their ecology. (Rus) Akad. Nauk SSSR. Zool. Inst. Tr. 41:5-72. Ref. 1967. 410.9 L543  
Includes *Pelochrista ornata* and *Eucosma certana* n. spp.
- 68102 MAASSEN, A. W. P. *Theria rupicaprararia* Denis & Schiffermuller (Lep. Geom.). (Du) Entomol. Ber. 27(8):142. Aug.1, 1967. 420 N38B  
Text in Dutch.
- 68103 MACPHEE, A. W. The winter moth, *Operophtera brumata* (Lepidoptera: Geometridae), a new pest attacking apple orchards in Nova Scotia, and its coldhardiness. Can. Entomol. 99(8):829-834. Ref. Aug.1967. 421 C16  
Includes control.
- 68104 MASTERS, J. H. *Incisalia henrici* in Manitoba and Minnesota (Lycaenidae). Lepidopterists' Soc. J. 22(1):26. 1968. 421 L554
- 68105 MASTERS, J. H., and SORENSEN, J. T. A new subspecies of *Oeneis jutta* (Lepidoptera: Satyridae). Entomol. News [Philadelphia] 79(3):80-84. Mar.1968. 42-En88  
*Oeneis jutta ascerta*.
- 68106 MIELKE, O. H. H. Lepidoptera of the central Brazil Plateau. II. New genera, species, and subspecies of Hesperiidae. Lepidopterists' Soc. J. 22(1):1-20. 1968. 421 L554  
New spp. in *Myrinia*, *Quadrus*, *Dardarina*, *Radiatus* n. g., *Peba* n. g., *Vidius*, *Cymaenes*, *Lerema*, *Morys*, *Adlerodea*, *Cynea*, *Oeonus*, and *Panoquina*.

- 68107 PEERDEMAN, M. P. *Parastichtis suspecta* Hb. (Lep. Noctuidae). Entomol. Ber. 27(7):140. July 1, 1967. 420 N38B  
Text in Dutch.
- 68108 POWELL, J. A. A previously underscribed moth reared from Catalina ironwood [*Lyonothamnus floribundus asplenifolius*] on Santa Cruz Island, California. (Lepidoptera: Plutellidae). Pan-Pacific Entomol. 43(3):220-227. July 1967. 421 P193  
*Cerostoma lyonothamniae* n. sp.
- 68109 RILEY, N. D. *Argynnis chlorodippe* Villiers & Guenee, 1835 (Insecta, Lepidoptera): proposed suppression under the plenary powers. Z.N.(S.) 1801. Bull. Zool. Nomencl. 24(5):290. Dec.7, 1967. 410 B874
- 68110 RIOTTE, J. C. E. Notes on *Euchloe ausonides mayi* (Pieridae) in Ontario. Lepidopterists' Soc. J. 22(1):40-41. 1968. 421 L554
- 68111 SAMARIN, V. F. How to distinguish leaf rollers? (Rus) Zashch. Rast. 1:53. 1968. 421 Z1  
*Tortrix viridana* and *Cacoecia crataegana*
- 68112 SCHMIDT-KOEHL, W. Studies on the Macrolepidoptera fauna of the Saarland; results of collecting in the years 1965-1967. (Ge) Entomol. Z. 78(5):41-56, map. Mar.1, 1968. 421 En85
- 68113 SHULL, E. M. *Thymelicus lineola* (Hesperiidae) in Indiana. Lepidopterists' Soc. J. 22(1):20. 1968. 421 L554
- 68114 SUKHAREVA, I. L. Contributions to the knowledge of the noctuid moths (Lepidoptera, Noctuidae) in the oak-larch forests of the Amur District. (Rus) Akad. Nauk SSSR. Zool. Inst. Tr. 41:73-79. 1967. 410.9 L543  
Collecting.
- 68115 WISSELINGH, T. H. VAN. Macrolepidoptera in 1966. (Du) Entomol. Ber. 27(7):123-124. July 1, 1967. 420 N38B  
English summary.
- 68116 ZIMMERMAN, E. C., and RILEY, N. D. Further comment on the case of *Gracillaria* versus *Gracillaria* (Insecta, Lepidoptera). Z.N.(S.) 1757. Bull. Zool. Nomencl. 24(5):267-268. Dec.7, 1967. 410 B874
- 68117 ZWAKHALS, C. J. Partial third generation of *Discestra trifolii* Hufn. (Lep., Noct.). (Du) Entomol. Ber. 27(7):131. July 1, 1967. 420 N38B

Taxonomic and Geographic Entomology  
Orthoptera

- 68118 JAGO, N. D. A key to the grasshopper species (Orthoptera: Acridoidea) recorded from Ghana. Roy. Entomol. Soc. London Trans. 119(8):235-266. Ref. Oct.27, 1967. 420 L84
- 68119 KEVAN, D. K. M. A study of the genus *Chrotogonus* Audinet-Serville, 1838 (Orthoptera; Acridoidea; Pyrgomorphidae). X. Recently described species from China and Central Asia. Can. Entomol. 100(2):152-156. Feb.1968. 421 C16

Taxonomic and Geographic Entomology  
Smaller Orders

- 68120 BRINDLE, A. A key to the Ethiopian genus *Diaperasticus* Burr (Dermaptera: Forficulidae). Roy. Entomol. Soc. London Proc. Ser. B, Taxonom. 36(9/10):147-152. Oct.27, 1967. 420 L84Pb
- 68121 BUTTIKER, W. A new species of *Ardeicola* Clay (Mallophaga: Philopteridae). Entomol. Soc. Southern Afr. J. 30(1):107-110. June 1967. 420 En86  
*Ardeicola smithersi* n. sp.
- 68122 DENNING, D. G. New species and notes of Western Trichoptera. Kans. Entomol. Soc. J. 41(1):63-69. Jan.1968. 420 K13  
New spp. in *Rhyacophila* and *Lepidostoma*.
- 68123 FLINT, O. S. Studies of Neotropical caddis flies. V. Types of the species described by Banks and Hagen. Smithsonian Inst. U. S. Nat. Mus. Proc. 123(3619), 37 p. Ref. 1967. 500 Sm65P

- 68124 GAY, F. J. A world review of introduced species of termites. Australia. Commonwealth Sci. Indus. Res. Organ. Bull. 286, 88 p. Ref.
- 68125 HITCHCOCK, S. W. *Alloperla* (Chloroperlidae: Plecoptera) of the Northeast with a key to species. N. Y. Entomol. Soc. J. 76(1):39-46. Ref. Mar. 1968. 420 N48J
- 68126 HUBBARD, C. A. Another two new fleas from Tanzania. Entomol. News [Philadelphia] 78(10): 257-259. Dec. 1967. 421 En88  
Ctenophthalmus particularis smiti n. ssp. and Xiphiopsylla lippa smithi n. ssp.
- 68127 JACQUEMART, S. Une nouvelle espece de collembole recoltee en Belgique: *Onychiurus subfurchifer* sp. n. [A new species of Collembola collected in Belgium; *Onychiurus subfurchifer* n. sp.]. Inst. Roy. Sci. Natur. Belg. Bull. 43(24), 5 p. July 31, 1967. 504 B835B
- 68128 KOCH, L. E. The genus *Chasmoptera* (Neuroptera: Nemopteridae), with the description of a new species [*C. mathewsi*] from Western Australia. Roy. Entomol. Soc. London Proc. Ser. B, Taxonom. 36(9/10):137-146. Ref. Oct. 27, 1967. 420 L84Pb
- 68129 LAWRENCE, P. N., and GOTO, H. E. On [Dr. R. S.] Bagnall's species of the genera *Anurida* and *Anuridella* (Collembola: Hypogastruridae). Roy. Soc. London. Proc. Ser. B, Taxonom. 37(1/2):16-28. Ref. Mar. 5, 1968. 420 L84Pb
- 68130 LEWIS, R. E. A new species of *Rhadinopsylla* from the republic of Lebanon (Siphonaptera: Hystrichopsyllidae). Biol. Soc. Wash. Proc. 80:179-186. Dec. 1, 1967. 500 W272  
*Rhadinopsylla hoogstraali*.
- 68131 MACLEOD, E. G., and ADAMS, P. A. A review of the taxonomy and morphology of the *Berothidae*, with the description of a new subfamily from Chile (Neuroptera). Psyche 74(3):237-265. Ref. Sept. 1967. 421 P95  
Includes *Cyrenoberotha penai* n. g., n. sp., *Cyrenoberothinae* n. sfam., and *Nosybiniae* n. n.
- 68132 MCDANIEL, B. A new species of *Fahrenholzia* (Anoplura: Hoplopleuridae) from Texas, with a key to the species of the genus and a list of their known [rodent] hosts. Entomol. Soc. Amer. Ann. 61(2):402-405. Mar. 1968. 420 En82  
*Fahrenholzia boleni* n. sp.
- 68133 PAULSON, D. R. The dragonflies (Odonata: Anisoptera) of southern Florida. Diss. Abstr., Sect. B, 28(3):1282B. Sept. 1967. Z5055.U49D53
- 68134 PRICE, R. D. The new genus *Coramenopon* for *Menopon coracopsis* Mjoberg (Mallophaga: Menoponidae). Kans. Entomol. Soc. J. 41(1): 41-44. Jan. 1968. 420 K13
- 68135 PRICE, R. D., and BEER, J. R. The genus *Psittacobrosus* (Mallophaga: Menoponidae) of the Neotropical *Psittaciformes*. Entomol. Soc. Amer. Ann. 61(2):261-276. Mar. 1968. 420 En82  
Includes n. spp.
- 68136 SCOTT, K. M. F. On some Trichoptera from northern Zululand, South Africa. Roy. Entomol. Soc. London. Proc. Ser. B, Taxonom. 37(1/2): 1-8. Ref. Mar. 5, 1968. 420 L84Pb  
Includes *Oecetis sibayiensis* n. sp.
- 68137 TROTTIER, R. Observations on *Pantala flavescens* (Fabricius) (Odonata, Libellulidae) in Canada. Can. Field-Natur. 81(3):231. July/Sept. 1967. 410.9 Ot8
- 68138 WISEMAN, J. S. A previously undescribed species of *Menacanthus* (Mallophaga: Menoponidae) from bobwhite quail. Kans. Entomol. Soc. J. 41(1):57-60. Ref. Jan. 1968. 420 K13  
*Menacanthus pricei* n. sp.
- APICULTURE AND APIS MELLIFERA
- 68139 BAKER, G. M., and TORCHIO, P. F. New records of *Ascosphaera apis* from North America. Mycologia 60(1):189-190. Jan./Feb. 1968. 450 M99  
Cause of chalk brood of honey bee larvae.
- BENECKE, F. S. Design and maintenance of beehives. Agr. Gaz. New S. Wales 78(4):214-220. Apr. 1967. 23 N472
- 68141 CANTWELL, G. E., and LEHNERT, T. Mortality of *Nosema apis* and the greater wax moth, *Galleria mellonella* L., caused by heat treatment. Amer. Bee J. 108(2):56-57. Feb. 1968. 424.8 Am3
- 68142 CUNNINGHAM, D. G. Honey bees and the farmer. Tasmanian J. Agr. 38(4):263-265. Nov. 1967. 23 T182T  
Commercial hives aid pollination of forage and fruit crops.
- 68143 FERRER, J. F. The importance of raising bees on coffee plantations. (Sp) Agricultura [Santo Domingo] 442/443:11. July/Aug. 1967. 8 R323  
For pollination.
- 68144 FERRER, J. F. The yellow Italian bee. (Sp) Agricultura [Santo Domingo] 442/443:32-33. July/Aug. 1967. 8 R323  
Hybrid.
- 68145 GROHN, U. Brother Adam's queen rearing and breeding methods. (Sw) Bitidningen 66 (11):338-341. Nov. 1967. 424.8 B54
- 68146 GUSTAVSSON, H. Queen rearing in Italy. (Sw) Bitidningen 66(11):352. Nov. 1967. 424.8 B54
- 68147 INTERNATIONAL BEEKEEPING CONGRESS, 20, BUCHAREST, 1965. [Papers]. Bucharest, Apimondia, 1965. 736 p. SF521.I52  
Papers are grouped into the following categories: I, Standing Commission on Bee Biology; II, Standing Commission on Melliferous Flora and Pollination; III, Standing Commission on Bee Pathology; IV, Standing Commission on Bee Economy; V, Standing Commission on Bee Technology and Equipment.
- 68148 KENNERLY, A. B. They make rainy-day jobs pay off. Gleanings Bee Cult. 96(2):73-78. Feb. 1968. 424.8 G41  
Mechanization of work in the apiary and bee house.
- 68149 KERR, W. E. Biology and breeding of honey bees. Ribeirao Preto, Department of Genetics, Faculdade de Medicina de Ribeirao Preto, University of Sao Paulo, 1967? 52 p.  
Bee Cul. SF531.K4  
Project No. 53-ENT-1; grant No. FG-Br-102; final report.
- 68150 LORD, K. A., MAY, M. A., and STEVENSON, J. H. The secretion of the systemic insecticides dimethoate and phorate into nectar. Ann. Appl. Biol. 61(1):19-27. Feb. 1968. 442.8 An72  
*Tropaeolum*, *Fuchsia*, and *Vicia faba* tested with *Apis mellifera* and *Drosophila melanogaster*.
- 68151 MKHAILENKO, G. P., and GORBENKO, P. A. Chamber for disinfection of honeycombs. (Rus) Pchelovodstvo 9:17. Sept. 1967. 424.8 P295  
For control of *Nosema* disease.
- 68152 MITSUI, T., and SAGAWA, T. The acid-soluble nucleotides of royal jelly. Appl. Entomol. Zool. 1(2):61-68. Ref. June 1966. SB599.A6
- 68153 NATION, J. L., and ROBINSON, F. A. Brood rearing by caged honey bees in response to inositol and certain pollen fractions in their diet. Entomol. Soc. Amer. Ann. 61(2):514-517. Mar. 1968. 420 En82
- 68154 O'CONNOR, R., and others. The venom of the honeybee (*Apis mellifera*). I. General character. Int. Symp. Anim. Toxins. Papers, 1st Symp.: 17-22. Ref. 1966, pub. 1967. SF757.5.I5 1966  
G. Henderson, D. Nelson, R. Parker, and M. L. Peck, joint authors.
- 68155 PANKIW, P. The influence of environmental conditions on brood rearing, build-up, and honey production of package bee colonies. Can. Entomol. 100(2):127-134. Feb. 1968. 421 C16
- 68156 SHIMANUKI, H., LEHNERT, T., and STRICKER, M. Differential collection of cranberry pollen by honey bees. J. Econ. Entomol. 60 (4):1031-1033. Aug. 15, 1967. 421 J822
- 68157 THUN, M., and THUN, M. Bees in relation to the cosmos. (Ge) Lebendige Erde 1:29-31. Jan./Feb. 1968. 18 L49  
Seasonal behavior and pollination activity.



- 68158 ZAICHIKOV, N. E. Acarine disease and honey bee races. (Rus) Pchelovodstvo 9:16-17. Sept.1967. 424.8 P295

## SERICULTURE AND THE SILKWORM

- 68159 ASHIDA, M., and OHNISHI, E. Activation of pre-phenol oxidase in hemolymph of the silkworm, *Bombyx mori*. Arch. Biochem. Biophys. 122(2):411-416. Ref. Nov.1967. 381 Ar2
- 68160 ASTAUROV, B. L. The non-genetic concepts of hybrid vigour (about the reality of so-called "physiological heterosis"). (Rus) Moskov. Obshch. Ispytatelei Prirody. Byul. Otd. Biol. 72(5):77-96. Ref. Sept./Oct.1967. 511 M85  
English summary.  
*Bombyx mori*.
- 68161 PANOV, A. A., and BASURMANOVA, O. K. Adhesive bodies of certain silkworms, as a depot of neurosecretory material of cells. (Rus) Akad. Nauk SSSR. Dokl. 176:1205-1207. Ref. 1967. 511 P444A
- 68162 SINOHARA, H., and ASANO, Y. Amino sugar metabolism in the silkworm, *Bombyx mori*. J. Biochem. 63(1):8-13. Ref. Jan.1968. 385 J822
- 68163 SOEDA, E. I., MUKAI, J. I., and AKUNE, S. Mode of action and base specificity of a nucle-ase from silkworm. J. Biochem. 63(1):14-19. Ref. Jan.1968. 385 J822





## FOOD AND HUMAN NUTRITION

Publications of the U. S. Department of Agriculture, State Agricultural Experiment Stations, and State Agricultural Extension Services on cookery and other subjects not ordinarily covered in the Bibliography of Agriculture will be included in this list.

## GENERAL

- 68164 ADELSON, S. F., and PETERKIN, B. B. Quality of diets in U.S. households in spring 1965. U. S. Agr. Res. Serv. ARS-62-5:6-8. Mar.1968. A321.9 R31
- 68165 ALTSCHUL, A. Using unused protein supplies. Int. Agr. Develop. 40:15-16. Feb.1968. aS544.A316  
For human nutrition in developing areas.
- 68166 ARIZA MACIAS, J. Recommended daily calories and nutrients for the population of Colombia. (Sp) Arch. Latinoamer. Nutr. 17(3):255-263. Ref. Sept.1967. 389.8 Ar22
- 68167 BECK, M. E. Food; fact & figure. Edinburgh, Livingstone, 1967. 73 p. TX533.B4
- 68168 BRESSANI, R. The prevention of protein malnutrition. In Turk, K. L., and Crowder, L. V., ed. Rural development in tropical Latin America, p.185-193. Ref. 1967. HD1857.T8  
Improvement of the diet, new food sources, and plant breeding for improved composition.
- 68169 CHANDRASEKHARAN, N., and BHATTATHIRY, E. P. M. Dietary intake of women students in the University of Malaya. Amer. J. Clin. Nutr. 21(2):183-184. Feb.1968. 389.8 J824
- 68170 CRAVIOTO, J. Nutritional problems in rural areas. In Turk, K. L., and Crowder, L. V., ed. Rural development in tropical Latin America, p.155-176. Ref., p.173-176. 1967. HD1857.T8
- 68171 GOPALAN, C. Malnutrition in childhood in the tropics. Brit. Med. J. 4(5579):603-607. Dec.9, 1967. 448.8 B77
- 68172 HUSSAIN, M. A., and WADSWORTH, G. R. Nutritional status of Asian infants. Nutr. Soc. Proc. 26(2):212-218. Ref. 1967. aS544.A316
- 68173 MAY, J. M. The ecology of malnutrition in Northern Africa: Libya, Tunisia, Algeria, Morocco, Spanish Sahara and Iñi, Mauritania. New York, Hafner, 1967. 275 p. Ref. (Studies in Medical Geography, v. 7) TX360.A3M3  
Food geography series No. 5.
- 68174 MCKENZIE, J. C., MATTINSON, J., and YUDKIN, J. Milk in schools: an experiment in nutrition education. Brit. J. Nutr. 21(4):811-817. 1967. 389.8 B773
- 68175 MCLAREN, D. Effects of vitamin A deficiency in man. In Sebrell, W. H., and Harris, R. S., ed. The vitamins, v.1,ed.2,p.267-280. 1967. QP801.V5S4 1967  
Review of the literature.
- 68176 NORTHEAST REGIONAL CONFERENCE ON NUTRITION EDUCATION, NEW HAVEN, 1967. [Highlights]. Nutr. Program News, Nov./Dec. 1967,4 p. 1.982 A2N955
- 68177 PIKE, R. L., and BROWN, M. L. Nutrition: an integrated approach. New York, Wiley, 1967. 542 p. QP141.P5  
Bibliography, p.479-518.
- 68178 SCRIMSHAW, N. S. Ecologic factors determining nutritional state and food use. In Alternatives for balancing world food production and needs, p.35-50. 1967. HD9000.5.A4
- 68179 STOLLEY, H., and DROESE, W. The appropriate fat content of cow's milk. (Ge) Milchwissenschaft 22(12):756-757. Dec.1967. 44.8 M5933  
English summary.  
For infant feeding.
- 68180 STRONG, J. A., SHIRLING, D., and PASSMORE, R. Some effects of overfeeding for four days in man. Brit. J. Nutr. 21(4):909-919. Ref. 1967. 389.8 B773
- 68181 TRIBBLE, M. Bulgur in family meals. Oreg. State Univ. Ext. FS 130,2 p. Feb.1968. 275.29 Or36

- 68182 U. S. AGRICULTURAL RESEARCH SERV. HUMAN NUTRITION RESEARCH DIV. Fruits in family meals; a guide for consumers. U. S. D. A. Home Gard. Bull. 125,30 p. Jan. 1968. 1 Ag84Hg
- 68183 U. S. CONSUMER AND MARKETING SERV. Raisins, a good choice for the thrifty family. U. S. Consum. Marketing Serv. C&MS-60,4 p. Feb.1968. A280.39 C762  
U.S. Agricultural Research Service, cooperating.  
Cookery.
- 68184 VILTER, R. W. Ascorbic acid requirements of man. In Sebrell, W. H., and Harris, R. S., ed. The vitamins, v.1,ed.2,p.501-503. 1967. QP801.V5S4 1967  
Review of the literature.
- 68185 VILTER, R. W. Effects of ascorbic acid deficiency in man. In Sebrell, W. H., and Harris, R. S., ed. The vitamins, v.1,ed.2,p.457-485. 1967. QP801.V5S4 1967  
Review of the literature.

## FOOD HABITS

- 68186 JEROME, N. W. Food habits and acculturation: dietary practices and nutrition of families headed by southern-born Negroes residing in a northern metropolis. Diss. Abstr., Sect. B, 28(3):965B-966B. Sept.1967. Z5055.U49D53
- 68187 MCKENZIE, J. C. Social and economic implications of minority food habits. Nutr. Soc. Proc. 26(2):197-205. 1967. 389.9 N953  
In Great Britain.
- 68188 MEYERS, T. Food habits. Int. Agr. Develop. 36,1.e.37:14. Nov.1967. aS544.A316
- 68189 SEWELL, M. B. An evaluation of food habits of Nigerian students in American colleges and universities. Diss. Abstr., Sect. B, 28(3):978B-979B. Sept.1967. Z5055.U49D53

## NUTRITIVE AND VITAMIN CONTENT

- 68190 ASENJO, C. F., and others. Vitamins in canned Puerto Rican fruit juices and nectars. P. R. Univ. J. Agr. 52(1):64-70. Ref. Jan. 1968. 8 P832J  
E. R. de Hernandez, L. Divina Rodriguez, and M. G. de Andino, joint authors.
- 68191 COULTER, S. T., and MANNING, P. B. Comparison dairy, filled and non-dairy products/nutritionally speaking. Milk Dealer 57(6):24-25, 28. Mar.1968. 44.8 M595
- 68192 DEGENKOLB, E., and HINGERLE, M. Investigations on serological determination of foreign protein additions in heat denatured meat products. (Ge) Arch. Lebensmittelhyg. 18 (11):241-247. Nov.1967. 41.8 I49
- 68193 DROESE, W., and STOLLEY, H. Nutrition of babies and infants with milk. (Ge) Milchwissenschaft 23(2):81-88. Ref. Feb.1968. 44.8 M5933  
English summary.
- 68194 GRUDSKAYA, O. M., and FIGMAN, M. M. Vitaminizing kefir. (Rus) Moloch. Prom. 1:28-29. Dec.1968. 44.8 M734
- 68195 HUGOT, D., and CAUSERET, J. Seasonal variations in the vitamin A activity of butters produced in various regions of France. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. C: 185-191. Ref. 1966. SF223.15 1966 v.3  
English summary, p.518.
- 68196 HUNGERLAND, H. The importance of milk in infant and child nutrition. (Ge) Molk.-Zeitung Welt Milch 21(51/52):1582,1584. Dec.22,1967. 44.8 M735
- 68197 LAHIRY, N. L., and others. Development and evaluation of processed protein foods based on fish flour. Int. Congr. Food Sci. Technol. Proc. 5:215-220. 1962, pub.1967. TP368.I5 1962  
M. N. Moorjani, S. R. Shurpalekar, M. Swaminathan, A. Sreenivasan, and V. Subrahmanyam, joint authors.  
Fortified food.

- 68198 LEMBKE, A., and others. Comparison of the biological value of fats for nutrition. (Ge) Milchwissenschaft 23(2):70-80. Ref. Feb.1968. 44.8 M5933  
H. Greggersen, H. Frahm, and E. Weber, joint authors.  
English summary.
- 68199 LOEWENSTEIN, M. The all-important nutrition question; nutritional considerations of filled and imitation milk products. Milk Dealer 57(6):22,24. Mar.1968. 44.8 M595
- 68200 OLLIVER, M. Occurrence in foods. In Sebrell, W. H., and Harris, R. S., ed. The vitamins, v.1,ed.2,p.359-367. 1967. QP801.V5S4 1967  
Review of the literature.
- 68201 RASTOGI, M. K., VERMA, I. S., and PAUL, J. Nutritive appraisal of some Indian indigenous milk sweets. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:273-278. Ref. 1966. SF223.I5 1966 v.5
- 68202 ROELS, O. A. Occurrence in foods. In Sebrell, W. H., and Harris, R. S., ed. The vitamins, v.1,ed.2,p.113-121. 1967. QP801.V5S4 1967  
Review of the literature
- 68203 U. S. AGRICULTURAL RESEARCH SERV. CONSUMER AND FOOD ECONOMICS RESEARCH DIV. Dietary levels of households in the United States, spring 1965; a preliminary report. U. S. Agr. Res. Serv. ARS-62-17,34 p. Jan. 1968. A321.9 R31  
Includes expenditures.
- 68204 WELLS, J. O. Vitamins—nutritional food additives. Can. Food Indus. 39(3):24-27. Mar.1968. 286.83 C166



## FORESTRY

## GENERAL

- 68205 ANDRONOVSKII, A. I., and POLYAKOV, A. F. Rise of Crimean forestry. (Rus) Les. Khoz. 12:56-59. Dec.1967. 99.8 L5622
- 68206 AXELTON, E. A. Ponderosa pine [Pinus ponderosa] bibliography through 1965. U. S. Forest Serv. Res. Paper INT-40,150 p.,map. 1967. A99.9 F764U
- 68207 BJARNASON, H. Forestry in Iceland. Scot. Forest. 22(1):55-60. Jan.1968. 99.8 Sco3
- 68208 CANADIAN INSTITUTE OF FORESTRY. CIF/SAF [Society of American Foresters] joint annual meeting, Ottawa, 1967. Forest. Chron. 43(4):317-359. Dec.1967. 99.8 F7623 Papers presented.
- 68209 CANADIAN INSTITUTE OF FORESTRY. MARITIME SECT. Annual report and 30th annual meeting. Fredericton, 1967. 62 p. 1967. 99.9 C1672  
Includes panel discussion on "Forest recreation policy versus the utilization of wood" by N. L. Kissick, T. W. Pierce, R. S. MacLaggan, and A. T. Easley.
- 68210 CHOWDHURY, T. K., and BASU, S. K. Role of forestry development in Indian economy. Indian J. Agr. Econ. 22(4):183-188. Oct./Dec.1967. 281.8 In2
- 68211 FOIL, R. R. Research to fill the woodbaskets of tomorrow. Forests People 18(1):18-19,40. First Q.1968. 99.8 F7628 Louisiana.
- 68212 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Timber trends and prospects in Africa. Rome, 1967. 90 p. SD528.F6  
United Nations Economic Commission for Africa, cooperating.  
Forest resources, past consumption and future requirements for wood products, chiefly.
- 68213 GIERLINSKI, T. Recollections and observations on the Soviet forestry and forestry people. (Pol) Las Polski 41(22):16-17. Nov.16/30,1967. 99.8 L33
- 68214 GUPTA, T. R., and KAUL, J. L. Some aspects of forestry development and policy in India. Indian J. Agr. Econ. 22(4):162-169. Oct./Dec. 1967. 281.8 In2
- 68215 HALL, J. F. Foresters as decision makers. J. Forest. 66(1):30. Jan.1968. 99.8 F768
- 68216 HAUSER, A. Tree and forest in Swiss iconography of the 15th and 16th centuries. (Ge) Schweiz. Z. Forstwesen 118(12):769-791. Dec. 1967. 99.8 J82  
French summary.
- 68217 HESMER, H. Integration of forestry and agricultural planning and research in developing countries. (Ge) Forstarchiv 38(11/12):269-272. Nov./Dec.1967. 99.8 F7723
- 68218 JEMISON, G. M. Timber research; pathway to the future of southern forestry. Forests People 18(1):6-9,34-35. First Q.1968. 99.8 F7628
- 68219 JEPSEN, S. M. Trees of Hawaii. Amer. Forests 73(12):19-21,36. Dec.1967. 99.8 F762  
Forest trees.
- 68220 KERNAN, H. S. Forestry on the Ivory Coast. Amer. Forests 74(2):36-37,52,54,map. Feb. 1968. 99.8 F762
- 68221 KOSTLER, J. N. Wald, Mensch, Kultur; ausgewählte Vorträge und Aufsätze zur Kulturschichte, zur Ökonomie des Forstwesens und zur Technik der Waldpflege [Forest, man, culture; selected lectures and essays on cultural history, economy of forest affairs and technique of silviculture]. Hamburg, Parey, 1967. 346 p. Ref. SD195.K6  
Includes list of publications.
- 68222 KRYCZYNSKI, W. Development and actual status in forestry studies in the USSR. (Pol) Las Polski 41(22):9-10. Nov.16/30,1967. 99.8 L33
- 68223 LIZAK, M. FAO and world forestry. (Cz) Les [Bratislava] 24(1):30-32. 1968. 99.8 L5632
- 68224 MCGUIRE, J. R. We must attract a bigger share of the most talented young. J. Forest. 66(1):29-30. Jan.1968. 99.8 F768
- 68225 MOSSBERG, E. Swedish forestry in the process of change. Index (Svenska Handelsbanken) 4(sup.),8 p. 1967. 280.8 In23
- 68226 NELSON, T. C. The forest situation in the South. Forest Farmer 27(3):9-10. (Condensed.) Dec.1967. 99.8 F7692
- 68227 NESTEROV, V. G. Mathematical methods and electronic data processing in forestry. (Rus) Les. Khoz. 12:24-30. Dec.1967. 99.8 L5622
- 68228 NEWPORT, C. A. To achieve professionalism, improve performance. J. Forest. 66(1):28-29. Jan.1968. 99.8 F768
- 68229 NOTES on progress in forest science. II. Forest. Abs. 28(3):387-397. July 1967. 241.01 Im7  
Review of the literature.
- 68230 OSTERREICHISCHER Forstkalender [Austrian forestry calendar], 1967. Wien, 1967. 378 p. 99.8 T18
- 68231 PREOBRAZHENSKII, I. F. Establishment of Soviet forestry in Yaroslavl Province. (Rus) Les. Khoz. 12:64-67. Dec.1967. 99.8 L5622
- 68232 RED'KO, H. I., and BUZUN, V. O. Summary of work, performed by the Polesie Experiment Station for Forest Improvement [Polis'ka Ahrolisomeliatoratvna Doslidna Stantsiya]. (Uk) Visn. Sil's'kohospod. Nauk. 1:112-113. Jan. 1968. 20 V82
- 68233 REPORT on business and professional matters of the SAF [Society of American Foresters] 1967 annual meeting. J. Forest. 66(1):37-56. Jan.1968. 99.8 F768
- 68234 RICHENS, R. H. Studies on Ulmus. VII. Essex elms. Forestry 40(2):185-206,map. Ref. 1967. 99.8 F767  
Biometrical studies and history.
- 68235 RITTER. The crisis in forestry— is there any possibility to overcome? (Ge) Forst- Holzwirt 22(15):305-308. Aug.8,1967. 99.8 F7724
- 68236 SCHWEIZERISCHES FORSTVEREIN. Annual report of the governing body [of the Swiss Forestry Association] for the year 1966-67. (Ge) Schweiz. Z. Forstwesen 118(11):763-768. Nov. 1967. 99.8 J82
- 68237 SPURR, S. H. Forestry as a profession. J. Forest. 66(1):26-28. Jan.1968. 99.8 F768
- 68238 TECHNICAL ASSOCIATION OF THE PULP AND PAPER INDUSTRY. Fourth Forest Biology Conference, Pointe Claire, Quebec, October 12-13, 1967. TAPPI (Tech. Ass. Pulp Pap. Indus.) 51(3):114A-118A. Mar.1968. 302.8 T162  
Abstracts of papers.
- 68239 U. S. FOREST SERV. ROCKY MOUNTAIN FOREST AND RANGE EXPERIMENT STATION. Forestry research highlights, 1967; annual report. Fort Collins, Colorado, 1968. 55 p., map. 1.9 F7627A
- 68240 WEETMAN, G. F. The concept of professionalism in Canada. J. Forest. 66(1):30. Jan. 1968. 99.8 F768
- 68241 WINKLER, E. Forest and forest-utilization in Tunisia. (Ge) Erde 98(4):252-280,map. Ref. 1967. 474 Er1  
English summary.

## EDUCATION

- 68242 GARRATT, G. A. Technical training programs and undergraduate professional forestry education in Canada. Forest. Chron. 43(4):338-352. Dec.1967. 99.8 F7623
- 68243 HUBER, H. Bauerlicher Waldbau; ein Lehr- und Arbeitsbuch für landw. Berufs- und Berufsfachschulen [Farm silviculture; a study and work book for agricultural vocational schools]. München, Bayerischer Landwirtschaftsverlag, 1967. 63 p. SD391.H8
- 68244 KATAYAMA, S. Memoirs on the founding of the Tokyo Agricultural University School of Forestry [Nogyo Daigaku, Ringakuka]. (Ja) Forest Econ. 20(9):38-40. Sept.1967. 99.8 R474

- 68245 LINDECKERT, R. The higher teaching of forestry in French in Canada. (Fr) Rev. Forest. Franc. 19(12):759-771. Dec.1967. 99.8 R329
- 68246 TAYLOR, C. J. Forestry education and training. Scot. Forest. 22(1):1-8. Jan.1968. 99.8 Sco3

## FOREST RESOURCES

- 68247 HEINSDIJK, D., and GLERUM, B. B. Inventories and commercial possibilities of Brazilian forests. Turrialba 17(3):337-347, map. Ref. July/Sept.1967. 8 T86
- 68248 NOR, S. B. M. A note on the forest resources of west and south Johore. Malayan Forest. 30(3):212-216, map. July 1967. 99.8 M292
- 68249 NYBLOM, E. Forests and forestry in Vastmanland Province. (Sw) Sveriges Skogsvardsforb. Tidskr. 65(5):473-540, map. Ref. Sept.1967. SD1.S952
- 68250 OSTROM, A. J. Forest cover types by counties, Michigan, 1966. U. S. N. Cent. Forest Exp. Sta. U. S. Forest Serv. Res. Note NC-41, 4 p. Oct.1967. aSD11.A33
- 68251 POWELL, J. M. Victoria's woodland cover in 1869; a bureaucratic venture in cartography. New Zeal. Geogr. 23(2):106-116, map. Oct. 1967. 331.8 N48
- Resources and management.
- 68252 TAMM, U. Forests of the Soviet Union. II. (Es) Eesti Loodus 11:649-655. Nov.1967. 409.6 Ee7
- 68253 TSEPLYAEV, V. P., and GUSEV, N. N. Forest resources of Soviet Union. (Rus) Les. Khoz. 12:45-51. Dec.1967. 99.8 L5622

## FOREST INFLUENCES

- 68254 AL'BENSKII, A. V. Science of protective afforestation in USSR. (Rus) Les. Khoz. 12:9-16. Dec.1967. 99.8 L5622
- Management of windbreaks.
- 68255 BATJER, D., and others. Windschutz in der Landwirtschaft. Teil 1. Ergebnisse von Untersuchungen in der Weser-Marsch [Wind protection in agriculture. Part 1. Results of investigations in the Weser marsh]. Aktuelle Fragen Landbaues 2, 119 p. Ref., p.114-117. 1967. S465.A4
- J. Feise, R. Ness, and J. von Lucken, joint authors.
- 68256 BEDRIKOVSKAYA, N. P., and KARAKIS, K. D. Increased fertility of dark gray podzolic soils under the effect of forest vegetation. (Rus) Les. Zh. 2:44-47. 1967. 99.8 Iz8
- 68257 GARY, H. L., and COLTHARP, G. B. Snow accumulation and disappearance by aspect and vegetation type in the Santa Fe Basin, New Mexico. U. S. Forest Serv. Res. Note RM-93, 11 p., map. 1967. A99.9 F7632Us
- Influence of prevailing forest types.
- 68258 HARLAN, R. L. Soil moisture regime and soil water balance under upland hardwood forest during a period of subnormal precipitation. Diss. Abstr., Sect. B, 28(3):752B. Sept.1967. Z5055.U49D53
- 68259 KARYSHEV, V. E. Regionalization of Belorussian SSR according to methods of snow control along highways. (Rus) Les. Zh. 2:25-26, map. 1967. 99.8 Iz8
- By windbreaks.
- 68260 KOMLEV, A. A. Forest and yields. (Rus) Les. Khoz. 12:70-71. Dec.1967. 99.8 L5622
- Effect on windbreaks on grain yields.
- 68261 MATYUNIN, I. The role of windbreaks in retention of snow. (Rus) Zemledelie 2:16-17. Feb.1968. 20 Z44
- The beneficial effect of snow on soil moisture and wind erosion control.
- 68262 MYLOSERDOV, M. M. Corn yield under forest belt protection in droughty and moist years. (Uk) Visn. Sil's'kohospod. Nauk. 1:80-84. Jan. 1968. 20 V82
- Russian summary.

- 68263 ROSENBERG, N. J. The influence and implications of windbreaks on agriculture in dry regions. In Shaw, R. H., ed. Ground level climatology, p.327-349. Ref. 1967. QC981.S5

## FOREST INJURIES AND PROTECTION

- 68264 BATZER, H. O. Spruce budworm defoliation is reduced most by commercial clear cutting. U. S. N. Cent. Forest Exp. Sta. U. S. Forest Serv. Res. Note NC-36, 4 p. Aug.1967. aSD11.A33
- Control of Choristoneura fumiferana in Minnesota.
- 68265 BENNETT, W. H. Dieldrin for protecting direct-seeded longleaf pines [Pinus palustris] from the white-fringed beetle Graphognathus perigrinus (Buchanan). J. Econ. Entomol. 60(4):1186. Aug.15,1967. 421 J822
- 68266 BOSSHARD, W. Surveying winter storm damages of 1967. (Ge) Schweiz. Z. Forstwesen 118(12):806-820. Dec.1967. 99.8 J82
- French summary.
- 68267 FLORA, D. F. Pooh on damage appraisal. J. Forest. 66(1):12-16. Jan.1968. 99.8 F768
- 68268 GRANT, P. C. H. Marauding deer. Scot. Forest. 22(1):14-17. Jan.1968. 99.8 Sco3
- Includes discussion, p.41-43.
- 68269 LEIBUNDGUT, H. After winter storm damages in 1967. (Ge) Schweiz. Z. Forstwesen 118(12):832-834. Dec.1967. 99.8 J82
- 68270 LENGYEL, GY. New manual instrument for wildlife damage prevention. (Hu) Erdesz. Kutatasok 63(1/3):259-269. 1967. 99.9 Er24
- German summary.
- For application of blood albumin preparation.
- 68271 NAGY, MRS. G. Studies on frost susceptibility of Douglas fir [Pseudotsuga menziesii] seedlings. (Hu) Erdesz. Kutatasok 63(1/3):173-183. Ref. 1967. 99.9 Er24
- English summary.
- 68272 NEEL, W. W., and others. Attractiveness to Nitidulidae (Coleoptera) of natural attractants of tree and fungus origin supplemented with vinegar and water in an Appalachian hardwood forest. J. Econ. Entomol. 60(4):1104-1108. Aug.15,1967. 421 J822
- B. D. Glick, L. L. May, and R. P. True, joint authors.
- Testing for Ceratocystis fagacearum.
- 68273 NEEL, W. W., and BELCHER, E. W. Use of systemic insecticides as seed treatment to control cowpea aphids [Aphis craccivora] on black locust seedlings [Robinia pseudoacacia]. J. Econ. Entomol. 60(4):964-968. Ref. Aug.15,1967. 421 J822
- 68274 SCHNAIDER, Z., and SLIWA, E. Last gradation of Bupalus piniarius L. and control of this injurious insect. (Pol) Sylwan 111(9):1-16, map. 1967. 99.8 Sy52
- English summary.
- Chemical control.
- 68275 STORCH, K., and BAAK, W. Fences for forest culture—material for construction and suggestion for unit types. (Ge) Forstarchiv 38(11/12):306-308. Nov./Dec.1967. 99.8 F7723
- For wildlife control.
- 68276 SZONTAGH, P. Habits and damages of Saperda populnea L. fam. Cerambycidae in our poplar forests. (Hu) Erdesz. Kutatasok 63(1/3):291-300. Ref. 1967. 99.9 Er24
- German summary.
- 68277 TALLOS, P. The light traps and their role in the forecasting of outbreaks of insect pests. (Cz) Les [Bratislava] 23(4):169-173. 1967. 99.8 L5632
- German summary.
- Forest pests.
- 68278 WENTZEL, K. F. Burdens of forestry by emissions and their technical, spatial, silvicultural and legal consequences. (Ge) Forst-Holzwirt 22(20):421-426, map. Oct.23,1967. 99.8 F7724
- Air pollution.



Forest Fire Prevention and Control

- 68279 BISWELL, H. H., GIBBENS, R. P., and BUCHANAN, H. Fuel conditions and fire hazard reduction costs in a giant sequoia forest. *Calif. Agr.* 22(2):2-4. Feb.1968. 100 C12Cag
- 68280 FUGUAY, D. M. Weather modification and forest fires. In Shaw, R. H., ed. *Ground level climatology*, p.309-325. 1967. QC981.S5
- 68281 JOHANSEN, R. W., and SHIMMEL, J. W. Thickening retardants improves adhesion to tree crowns. U. S. Forest Serv. Res. Note SE-84,3 p. Aug.1967. A99.9 F7623Un  
Forest fire control on *Pinus taeda* in Georgia.
- 68282 KIREEV, A. F. Surface fire in oak-type forest growing in flood plain area. (Rus) *Les. Zh.* 2: 163-164. 1967. 99.8 Iz8
- 68283 VAN LOON, A. P. Some effects of a wild fire on a Southern pine plantation. Sydney, Blight, 1967. 37 p.,map. (New South Wales. Forestry Commission. Research note No. 21)  
99.9 N474  
*Pinus taeda* and *P. elliotii*.

FOREST MANAGEMENT

- 68284 AUSTRALIA. FORESTRY AND TIMBER BUR. Progress report 1961-65. Canberra, 1967. 28 p. 99.8 Au73  
Management and statistics.
- 68285 BETHUNE, J. E. Mathematical programming approaches to the allocation of resources to publicly supported timber management research. *Diss. Abstr.*, Sect. B, 28(6):2206B. Z5055.U49D53
- 68286 BOUVAREL, P. The program "Mera" for the improvement of forests. (Fr) *Rev. Forest. Franc.* 19(12):772-785. Dec.1967. 99.8 R329  
In Finland.
- 68287 BRYNTE, B. What should a forest worker know? (Sw) *Sveriges Skogsvardsforb. Tidskr.* 65(4):419-427. July 1967. SD1.S952.  
Discussion, p.427-433.
- 68288 BUETZBERGER, J. Quickly detachable rubber-tired wheels on cultivator saves much time in hauling to planting site. *Tree Planters' Notes* 18(4):1-2. Nov.1967. 1.962 C5T71
- 68289 CAIN, S. A. Wilderness areas. *Naturalist* 18(2):18-31. Summer 1967. 410 N2133
- 68290 DEMLEITNER, S. Novelties from forestry technique. (Ge) *DLZ-Landtech. Z.* 19(2):93-95. Feb.1968. 58.8 T677  
Mechanization.
- 68291 DEMPSEY, G. P. Forest cooperatives; a bibliography. U. S. Forest Serv. Res. Paper NE-82,53 p. 1967. A99.9 F7622Un
- 68292 DEMPSEY, G. P. Some new guidelines for the forest cooperative. *J. Forest.* 66(1):17-21. Ref. Jan.1968. 99.8 F768
- 68293 DU DEETLEES, P. P. Co-operative forestry. *Australian Timber J. Building Prod. Merchandiser* 33(12):61,63. Jan.1968. 99.81Au7  
South Africa.
- 68294 DUMMEL, K. Labor and capital intensity in forest management in different rotational periods. (Ge) *Forstarchiv* 38(11/12):283-286. Ref. Nov./Dec.1967. 99.8 F7723
- 68295 FAHNESTOCK, G. R. Forestry and the social sciences; a forester's view. *J. Forest.* 66(1): 22-25. Ref. Jan.1968. 99.8 F768  
Conservation, multiple and recreational use aspects.
- 68296 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. FORESTRY AND FOREST PRODUCTS DIV. International directory of manufacturers of forestry instruments and hand tools, 1967. Rome, 1967. 174 p. SD388.F6  
Text also in French and Spanish.
- 68297 FULDA, E. Technical progress sets new measures of forestry work. (Ge) *Lohnunternehmen Land- Forstwirtschaft.* 22(11):254,256, 258. Nov.15,1967. 58.8 D81
- 68298 GOLDMAN, D. But which people? I. Amer. *Forests* 74(3):15-16,48. Mar.1968. 99.8 F762  
On national parks and multiple land use.
- 68299 GRAYSON, A. J. Planning the cut from forests. *Indian J. Agr. Econ.* 22(4):146-149. Oct./Dec. 1967. 281.8 In2
- 68300 HULSE, F. E., and KNOX, R. L. Forestry co-ops surveyed at workshops. *News Farmer Coop.* 34(9):16. Dec.1967. 166.2 N47
- 68301 HUNEAULT, J. G. "Involvement" in woods safety. *Can. Forest Indus.* 87(12):38-39. Dec. 1967. 99.81 C16
- 68302 JODHA, N. S. Farm forestry for desert development: some economic aspects. *Indian J. Agr. Econ.* 22(4):178-182. Oct./Dec.1967. 281.8 In2
- 68303 KUPA, J. J. Ecological studies of the female ruffed grouse (*Bonasa umbellus* L.) at the Cloquet Forest Research Center, Minnesota. *Diss. Abstr.*, Sect. B, 28(3):752B-753B. Sept.1967. Z5055.U49D53
- 68304 LYLES, G. B. The National Park Service in Virginia. *Va. Forests* 22(2):6-9,20. Summer 1967. 99.8 V81
- 68305 MARDLE, R. J. Analysis over 5-year period shows cost, trend of injuries. *New Zeal. Timber J.* 14(1):49,51,61. Sept.1,1967. 99.81 N482  
Accidents in forestry and logging.
- 68306 MAXWELL, H. A. Red deer and forestry practice. *Scot. Forest.* 22(1):18-23. Jan.1968. 99.8 Sco3
- 68307 NAIR, K. K. Rapporteur's report on forestry development in India. *Indian J. Agr. Econ.* 22(4):137-145. Oct./Dec.1967. 281.8 In2  
Management and policy.
- 68308 NEEL, L. Wildlife forestry and fire. Tall timbers Fire Ecol. Conf. Proc., 6th Annu. Conf.:21-27. 1967. 99.9 T142
- 68309 NEWMAN, J. G. The Menominee Forest of Wisconsin: a case history in American forest management. *Diss. Abstr.*, Sect. A, 28(6): 2209B. Dec.1967. Z5055.U49D53
- 68310 PEAK DISTRICT NATIONAL PARK (GREAT BRITAIN) PLANNING BOARD. Fifteenth report (for the year ending 31st March, 1967). Bakewell, 1967? 78 p.,map. 98.7 P31R  
Includes management of woodlands and recreational uses.
- 68311 PETYT, L. J. Belgian experience with red deer and forestry. *Scot. Forest.* 22(1):10-13. Jan.1968. 99.8 Sco3  
Includes discussion, p.40-41.
- 68312 REDMAN, J. C., and CHANDRAS, G. S. Needed research in economics of Indian forestry. *Indian J. Agr. Econ.* 22(4):152-162. Oct./Dec. 1967. 281.8 In2
- 68313 ROUGET, Y. Through the national parks of Alberta and the Mackenzie Territory. (Fr) *Natur. Belg.* 48(3):151-164. Mar.1967. 410.9 N21
- 68314 SHULTS, E. L. Multiple use management cited. *West. Conserv. J.* 25(2):68. Mar./Apr. 1968. 279.8 W526
- 68315 SMITH, H. B. Managing grazing resources for profit on commercial timberlands. *J. Range Manage.* 21(2):114-118. Mar.1968. 60.18 J82
- 68316 STOCKL, J. Twenty years of the Professional Committee on the Problems of Forest Labor [Fachausschuss fur Fragen der Waldarbeit]. (Ge) *Allg. Forstzeitung* 78(7):135-136. July 1967. 99.8 AL53  
A section of the Austrian Forestry Association [Osterreichischer Forstverein].
- 68317 STONE, R. N. Forest stand-size trends in Upper Michigan, 1955-1966. U. S. N. Cent. Forest Exp. Sta. U. S. Forest Serv. Res. Note NC-39,2 p. Aug.1967. aSD11.A33
- 68318 SZEPESI, L. Data on the operation of forestry machinery. (Hu) *Erdesz. Kutatasok* 63(1/3): 367-381,map. 1967. 99.9 Er24  
German summary.  
Chiefly on tractors.
- 68319 U. S. FOREST SERV. Report of the chief, 1967. Washington, 1968. 56 p. 1 F76

- 68320 U. S. FOREST SERV. PACIFIC NORTHWEST REGION. Gifford Pinchot National Forest; progress in multiple use, 1967. Vancouver, Washington, 1967. 23 p., map. A99.9 G36
- 68321 WILHELM, E. J. A park for Patagonia. Amer. Forests 73(12):32-33, 38-39. Dec. 1967. 99.8 F762
- Forest Description and Mensuration
- 68322 ALDRICH, R. C. Stratifying photo plots into volume classes by crown closure comparator. U. S. Forest Serv. Res. Note PSW-151, 2 p. 1967. A99.9 F7652  
Aerial.
- 68323 BASSETT, J. R., and BEENE, J. T. Loblolly pine [*Pinus taeda*] site quality of four loess soils. U. S. Forest Serv. Res. Note SO-68, 6 p.-folder, map. Ref. 1967. A99.9 F7628U  
Site index in Arkansas and Louisiana; includes *Pinus echinata*.
- 68324 BEERS, T. W. Rapid estimation of forest parameters using monareal and polyareal combination sampling. Ind. Acad. Sci. Proc. 76: 251-257. 1966, pub. 1967. 500 In2
- 68325 BOROVIKOVA, A. M. Dynamics of accumulation of organic matter by pine trees of various growth classes. (Rus) Vses. Bot. Obshch. Belorussk. Otd. Sb. Bot. Rabot 9:167-170. 1967. 451 V967  
Increment study.
- 68326 COKL, M. The minimal measuring unit and its effect on costs and precision of mensuration. (Sl) Gozdarski Vest. 25(5/6):129-142. Ref. 1967. 99.8 G74  
German summary.  
Forests.
- 68327 CURTIS, R. O., and BRUCE, D. Tree heights without a tape. J. Forest. 66(1):60-61. Jan. 1968. 99.8 F768  
With Christen hypsometer.
- 68328 GORDON, J. C., and GATHERUM, G. E. Correlations among fresh weight, dry weight, volume and total length of needles of Scotch pine [*Pinus sylvestris*] seedlings. Forest Sci. 13(4): 426-427. Dec. 1967. 99.8 F7632
- 68329 HALUPA, L. Data on the growth course of *Populus euramericana* on the forestry region of Nyirseg. (Hu) Erdesz. Kutatasok 63(1/3): 81-94. Ref. 1967. 99.9 Er24  
German summary.
- 68330 HALUPA, MRS. L. Data on growth course study of oak trees on alkali soils. (Hu) Erdesz. Kutatasok 63(1/3):95-108. 1967. 99.9 Er24  
German summary.
- 68331 HELLM, A. K. Periodicity of height growth in white spruce [*Picea glauca*] reproduction. Forest. Chron. 43(4):365-371. Ref. Dec. 1967. 99.8 F7623  
Phenological study.
- 68332 KARIMOV, S. B. Growth of forest species on slopes under various exposure in Tien Shan Mountains. (Rus) Les. Khoz. 12:68-70. Dec. 1967. 99.8 L5622
- 68333 KILYAKOV, A. M. Calculation of relative errors in different methods of analytical expression of log volume. (Rus) Les. Zh. 2:150-151. 1967. 99.8 Lz8
- 68334 KO, Y. Z. The estimation of the form factor and of the stem volume proportion. (Ge) Allg. Forst- Jagdzeitung 138(12):276-279. Dec. 1967. 99.8 AL3  
English summary.
- 68335 KOVACS, F. Yield study of *Pinus nigra* forests of Bakony. (Hu) Erdesz. Kutatasok 63(1/3):7-15. 1967. 99.9 Er24  
German summary.  
Yield tables.
- 68336 MARKUS, L. Some basic problems of valuation of growing timber. (Hu) Erdesz. Kutatasok 63(1/3):339-349. Ref. 1967. 99.9 Er24  
German summary.  
Mensuration, chiefly.
- 68337 MENDLIK, G. Wood yield studies of beech forests of Zala. (Hu) Erdesz. Kutatasok 63(1/3): 17-28. Ref. 1967. 99.9 Er24  
German summary.
- 68338 NECHAEV, YU. A. Nordmann fir - a fast growing species. (Rus) Les. Khoz. 12:42-44. Dec. 1967. 99.8 L5622  
Increment study.
- 68339 OTT, E. Future wood volume from Swiss forest. I. (Ge) Schweiz. Z. Forstwesen 118(12): 820-825. Dec. 1967. 99.8 J82  
French summary.
- 68340 REBANE, H. The Puhajarve oak is still growing. (Es) Eesti Loodus 1:40-41. Jan. 1968. 409.6 Ee7  
English summary, p.2 of supplement.  
Data of measurement.
- 68341 SARLIN, P. A growth model for tropical forest plantations. (Fr) Bois Forests. Trop. 114:3-20. July/Aug. 1967. 99.8 B632  
English summary.
- 68342 SCHOPFER, W. A sampling simulator for research and teaching. (Ge) Allg. Forst- Jagdzeitung 138(12):267-273. Ref. Dec. 1967. 99.8 AL3  
English summary.  
Operations research, inventory and sampling procedures.
- 68343 SCHWEITZER, D. L. A computer program for preliminary data analysis. U. S. N. Cent. Forest Exp. Sta. U. S. Forest Serv. Res. Note NC-33, 4 p. Aug. 1967. aSD11.A33  
Mensuration.
- 68344 SHIPMAN, R. D. Weight prediction measurement developed for standing timber. Sci. Farmer [Penn. Sta.] 15(2):2-3. Winter 1968. 100 P381S
- 68345 SINITSYN, S. G., and SCORIN, V. A. Data on forest survey used in forecasting logging plans. (Rus) Les. Khoz. 12:51-55. Dec. 1967. 99.8 L5622
- 68346 SOPP, L. Wood volume of *Pinus nigra*. (Hu) Erdesz. Kutatasok 63(1/3):51-65. Ref. 1967. 99.9 Er24
- 68347 ULLEN, G. Are the breast height diameters 20 and 30 cm suitable as sample tree diameter? (Sw) Sveriges Skogsvardsforb. Tidskr. 65(4):469-471. July 1967. SD1.S952
- 68348 VAN SCHIE, R. Measuring standing sample trees with a dendrometer in regrowth forests of southern Tasmania. Australian Forest. 31 (3):181-192. Sept. 1967. 99.8 Au74
- 68349 YOUNG, H. E. Complete tree mensuration. Forest. Chron. 43(4):360-364. Dec. 1967. 99.8 F7623
- 68350 YURKEVICH, I. D., and PETROVSKII, P. YA. Economic performance of aspen-type forests under conditions of Belorussia. (Rus) Les. Zh. 2:156-160. 1967. 99.8 Lz8  
Mensurational data.
- Policies and Programs
- 68351 BALASUBRAMANIAN, M. Forestry development in India. Indian J. Agr. Econ. 22(4):150-152. Oct./Dec. 1967. 281.8 In2  
Programs.
- 68352 HARVIE, P. M. Forestry and land. Watersheds 2(1):11-12. Spring 1967. S900.W3  
Programs.
- 68353 MACLAGGAN, M. Effect of political changes on woods operations; political influence. Forest. Chron. 43(4):355-359. Dec. 1967. 99.8 F7623
- 68354 MAMORIA, C. B. National forest policy and forestry development in India. Indian J. Agr. Econ. 22(4):173-177. Oct./Dec. 1967. 281.8 In2
- 68355 MATTE, F. Effect of political changes on woods operations; regulations and policy. Forest. Chron. 43(4):353-354. Dec. 1967. 99.8 F7623



- 68356 MITRA, A. K. A critical assessment of forest development programmes and their achievements in the three five-year plans of India. *Indian J. Agr. Econ.* 22(4):188-194. Oct./Dec. 1967. 281.8 In2
- 68357 NIKOLAYUK, V. A. Fulfillment and overfulfillment of the third year of Five-Year Plan. (Rus) *Les. Khoz.* 12:5-8. Dec.1967. 99.8 L5622 Forestry.
- 68358 TSUTSUI, M. Function of joint control of common forest lands. (Ja) *Forest Econ.* 20(9):12-27. Sept.1967. 99.8 R474

#### Legislation and Taxation

- 68359 ANDERSSON, K. O. Forest taxation. (Sw) *Sveriges Skogsvardsforb. Tidskr.* 65(4):387-409. July 1967. SD1.S952  
Discussion, p.410-417.

#### FOREST PRODUCTS AND UTILIZATION

- 68360 DALOCSA, G. Council of Cooperation in wood processing industry in the Mutual Economic Assistance countries. (Hu) *Faipar* 17(10):298-301. Oct.1967. 99.82 F14
- 68361 FOSLIE, M. Mechanical grading of timber. (No) *Norsk Skogindus.* 21(8):276-284. Ref. Aug.1967. 99.82 N81  
English summary.
- 68362 KOLLMANN, F. F. P. General remarks on the development of forest products research and the creation of wood science. *Wood Sci. Technol.* 1(3):168-169. 1967. SD433.A1W6
- 68363 ROSS, L. Wood and wood processing industry of Russia and perspectives for development. (Ge) *Int. Holzmarkt* 58(19):1-2,4-6. Sept.21, 1967. 99.81 In82
- 68364 SERLACHIUS, R. E. What is the future of the Finnish industry? Its wood supply? *Pap. Trade J.* 152(10):54-56. Mar.4,1968. 302.8 P196
- 68365 SOMKUTI, E. Fifty years of the wood industry research. (Hu) *Faipar* 17(10):319-323. Oct.1967. 99.8 F14
- 68366 WINKELMANN, H. G. Forest products research and forestry in Switzerland. *Wood Sci. Technol.* 1(3):176-178. 1967. SD433.A1W6
- 68367 YOUNGS, R. L. Putting wood to work. *Forests People* 18(1):12-13,36-37. First Q.1968. 99.8 F7628

#### Lumbering and Logging

- 68368 AGER, B. H. Logging in Japan. (Sw) *Sveriges Skogsvardsforb. Tidskr.* 65(6):591-604, map. Ref. Oct.1967. SD1.S952
- 68369 AXELSSON, S. A. The chain saw and its vibrations. (Sw) *Sveriges Skogsvardsforb. Tidskr.* 65(5):541-564. Ref. Sept.1967. SD1.S952  
English summary.  
In relation to injuries to operator's hand.
- 68370 CELIK, J. Economic problems in the construction and maintenance of forest roads. (Sl) *Gozdarski Vest.* 25(5/6):153-161. (Cont.) 1967. 99.8 G74
- 68371 DERFOLDI, A. Felling estimation and sortiment planning of *Quercus cerris* according to size groups. (Hu) *Erdesz. Kutatasok* 63(1/3):187-205. 1967. 99.9 Er24  
German summary.
- 68372 ESCHENHAGEN, V. Opening of tropical swamp forests in Colombia and Surinam. (Ge) *Forstarchiv* 38(11/12):305-306. Nov./Dec.1967. 99.8 F7723
- 68373 ESTEVE, J. Forestry cableways in Gabon. (Fr) *Bois Forests Trop.* 114:43-64. July/Aug. 1967. 99.8 B632

- 68374 FARKAS, V. The solution of a depot settling problem by linear programming. (Hu) *Erdesz. Kutatasok* 63(1/3):325-338. 1967. 99.9 Er24  
English summary.  
In relation to transportation of harvested timber from the felling sites to the depots.
- 68375 FRISBY, S. Woods harvesting; an era of transition. *Forests People* 18(1):22-23,38-39. First Q.1968. 99.8 F7628  
Mechanization aspects.
- 68376 HORNBECK, J. W. Protecting water quality during and after clearcutting. *J. Soil Water Conserv.* 23(1):19-20. Jan./Feb.1968. 56.8 J822
- 68377 JOY, A. R. Dawn of mechanical logging. *Can. Forest Indus.* 87(12):34. Dec.1967. 99.81 C16
- 68378 KAMP, A. Adjustment of log driving to the forest industry of today. (Sw) *Sveriges Skogsvardsforb. Tidskr.* 65(4):435-459, map. July 1967. SD1.S952  
Discussion, p.459-467.
- 68379 KASSAI, J. Guiding principles in establishing and planning of timber conversion places. (Hu) *Erdesz. Kutatasok* 63(1/3):353-366, map. 1967. 99.9 Er24  
German summary.
- 68380 KUZNETSOV, F. I. Possibilities of forest exploitation in the Urals. (Rus) *Les. Zh.* 2:152-155. 1967. 99.8 Iz8  
Economic aspects of logging.
- 68381 MARKOVNIK, S. How to eliminate insufficiencies and errors in the construction of forest buildings. (Cz) *Les [Bratislava]* 24(1):15-19. 1968. 99.8 L5632  
Chiefly roads.
- 68382 MURAV'EV, A. V. Analysis of maneuverability of caterpillar machinery under various methods of log transportation. (Rus) *Les. Zh.* 2:69-74. 1967. 99.8 Iz8  
Chiefly tractors in log hauling.
- 68383 NEUBER, B. Is forest road construction still timely? (Ge) *Allg. Forstzeitung* 79(3):66-67. Mar.1968. 99.8 AL53
- 68384 PESTAL, E. Tractor hauling as starting point for a work-divided wood harvest. (Ge) *Allg. Forstzeitung* 79(2):25-30. Ref. Feb.1968. 99.8 AL53
- 68385 SEGEBADEN, G. VON. Cost what it may as long as there is enough lumber. (Sw) *Sveriges Skogsvardsforb. Tidskr.* 65(4):361-381. Ref. July 1967. SD1.S952  
Logging and transportation cost.  
Discussion, p.381-385.
- 68386 STACKELBERG, S. VON. Cross-cutting time for chain saws in relation to diameter. (Ge) *Allg. Forst- Jagdzeitung* 138(12):273-275. Dec.1967. 99.8 AL3  
English summary.
- 68387 STOECKELER, J. H. Size and placement of metal culverts critical on peatland woods roads. U. S. N. Cent. Forest Exp. Sta. U. S. Forest Serv. Res. Note NC-37,3 p. Ref. Aug.1967. aSD11.A33  
Minnesota.
- 68388 STREHLKE, B. Future mechanization of pulpwood harvesting in eastern Canada. (Ge) *Forstarchiv* 39(1):31-32. Jan.1968. 99.8 F7723
- 68389 SZASZ, T., OTT, J., and KUTHY, T. Study of technically established performance in felling and log sawing with power saw. (Hu) *Erdesz. Kutatasok* 63(1/3):207-220. 1967. 99.9 Er24  
German summary.
- 68390 SZASZ, T. Typifying of work places, organizations and technology in logging operation. (Hu) *Erdesz. Kutatasok* 63(1/3):221-237. 1967. 99.9 Er24  
German summary.
- 68391 TKACHENKO, A. A. A new approach to road building and designing on peat bogs. (Rus) *Les. Zh.* 2:80-86. 1967. 99.8 Iz8  
Forest roads.
- 68392 VAN SICKLE, C. C. East Oklahoma's timber harvest, 1965. U. S. Forest Serv. Res. Note SO-57,6 p.-folder, map. 1967. A99.9 F7628U

- 68393 YORIMITSU, R. Tokyo Regional Forestry Office [Tokyo Eirinkyoku] study of the effect of mechanization on logging operations. (Ja) Forest Econ. 20(9):1-11. Sept.1967. 99.8 R474

#### Sawmills

- 68394 BIENIEK, S. The examination of influence of material used for bits applied for the teeth of the saws on durability of the tooth edges while chipboards are sawn. (Pol) Warsaw. Szk. Gl. Gospod. Wiejsk. Technol. Drewna 1:61-69. 1967. SD430.W3  
English summary.
- 68395 CAPLAN, B. Swedish computerized mill: leap in lumber technology. Can. Forest Indus. 87 (12):28-32. Dec.1967. 99.81 C16
- 68396 FISHGOP, M. S. Mathematical modelling of the flow of log conveyors and determination of the capacity of the memory of the controlling device for sorting logs. (Rus) Les. Zh. 2:144-149. 1967. 99.8 Iz8  
In sawmills.
- 68397 GERNET, G. M., YUR'EV, YU. I., and KONOVALOV, V. A. Determination of the force received by the saw carriage at the moment when a log strikes the rollers of the frame saw. (Rus) Les. Zh. 1:95-97. 1967. 99.8 Iz8
- 68398 GLIJER, L. The influence of some factors on heating up of the circular saw. (Pol) Warsaw. Szk. Gl. Gospod. Wiejsk. Technol. Drewna 1:45-60. 1967. SD430.W3  
English summary.
- 68399 MCCAULEY, O. D., and WHITTAKER, J. C. Sawmill practices and problems in the Appalachian hill country of Ohio and Kentucky. U. S. Forest Serv. Res. Paper NE-80, 15 p., map. 1967. A99.9 F7622Un
- 68400 NEW MILLS and major expansions in the United States. Pap. Trade J. 152(7):54-59. Feb.12,1968. 302.8 P196
- 68401 SCHMELZLEE, R. Supply and sawmill prospects for an African country. Forest Prod. J. 18(3):16-18. Mar.1968. 99.9 F7662J  
Chiefly on sawmill operation in Kenya.
- 68402 SOBOLEV, I. V., and SOTKOVA, L. G. Effect of feed on quality of frame sawing. (Rus) Les. Zh. 2:113-117. 1967. 99.8 Iz8
- 68403 STROBL, K. Situation and tasks of the primary wood industry. (Hu) Faipar 17(10):301-303. Oct.1967. 99.8 F14  
Sawmills.
- 68404 TAYLOR, R. Circular saw sense; speed, sharpness, set, safety. Power Farming 40(3):59. Mar.1968. 58.8 P872
- 68405 THUNELL, B. History of wood sawmilling. Wood Sci. Technol. 1(3):174-176. 1967. SD433.A1W6

#### Processing and Woodworking

- 68406 CRAMER, C. O. An analytical and experimental examination of wood tension joints having a large number of bolts. Diss. Abstr., Sect. B, 28(3):893B. Sept.1967. Z5055.U49D53
- 68407 GULOWSEN, K. T. Finger jointing. (No) Norsk Skogindus. 21(10):391-392. Oct.1967. 99.82 N81  
Comments, by H. Skjelmerud.
- 68408 JAPAN.WOODWORKING MACHINERY ASSOCIATION, TECHNICAL COMMITTEE. Maintenance of woodworking machinery. 11. (Ja) Wood Indus. 23(1):42-45. 1968. 99.82 M72
- 68409 MERZ, R. W., and COOPER, G. A. Effect of polyethylene glycol on stabilization of black oak [Quercus velutina] blocks. Forest Prod. J. 18(3):55-59. Mar.1968. 99.9 F7662J
- 68410 SCHUERCH, C. Treatment of wood with gaseous reagents. Forest Prod. J. 18(3):47-53. Ref. Mar.1968. 99.9 F7662J  
Wood modification.

#### Seasoning, Conditioning, and Finishing

- 68411 BARNACLE, J. E., CHRISTENSEN, F. J., and CUEVAS, L. E. Air-drying behaviour of poles and posts of Eucalyptus viminalis. Australia Commonwealth Sci. Indus. Res. Organ. Div. Forest Prod. Technol. Pap. 48, 28 p. Ref. 1967. 99.9 Au75
- 68412 GAUGER, W. H., THOMASON, R. E., and WEIDHAAS, N. C. Dry kiln feasibility study. Forest Prod. J. 18(3):81-84. Mar.1968. 99.9 F7662J
- 68413 KOCH, P. History of wood machining. Wood Sci. Technol. 1(3):180-183. 1967. SD433.A1W6
- 68414 KOLLMANN, F. F. P., SCHNEIDER, A., and BOHNER, G. Investigations on the heating and drying of wood with infrared radiation. Wood Sci. Technol. 1(2):149-160. 1967. SD433.A1W6
- 68415 KUBINSKY, E., and SOCHOR, M. New softening treatment for beech logs before rotary peeling to veneers. Forest Prod. J. 18(3):19-21. Mar. 1968. 99.9 F7662J  
Steaming.

#### Wood Preservation and Damage

- 68416 AMERICAN WOOD PRESERVERS' ASSOCIATION. Directory of members (complete) October 15,1967. Amer. Wood-Preserv. Ass. Proc., 63d Annu. Meet.:307-324,326,328,330,332,334,336,338,340,342,344,346. 1967. 300.9 Am3
- 68417 AMERICAN WOOD PRESERVERS' ASSOCIATION. Reports of preservatives committees. Amer. Wood-Preserv. Ass. Proc., 63d Annu. Meet.:106-137. 1967. 300.9 Am3  
On various preservatives and policies.
- 68418 BELENKOV, D. A. Comparative toxicity of sodium fluoride and sodium fluorosilicate. (Rus) Les. Zh. 2:92-95. Ref. 1967. 99.8 Iz8  
To wood-destroying fungus.
- 68419 BLEW, J. O., ROTH, H. G., and DAVIDSON, H. L. Preservative retention and distribution in several western conifers. Amer. Wood-Preserv. Ass. Proc., 63d Annu. Meet.:30-43. 1967. 300.9 Am3
- 68420 COLLEY, R. H. Observations on experimental evidence of the effectiveness of creosote and creosote-coal tar solution in preventing attack on marine piling by Limnoria tripunctata. Amer. Wood-preserv. Ass. Proc., 63d Annu. Meet.:151-165. 1967. 300.9 Am3  
Includes discussion.
- 68421 GIESEKING, E. Increasing the period of usefulness of wood and wood construction. I-II. (Ge) Prakt. Schadlingsbekamper 20(2/3):13-16,25-27. Feb./Mar.1968. 421 P882  
Regulations in regard to preservatives.
- 68422 GILL, T. G., and PHELPS, R. B. Wood preservation statistics, 1966. Amer. Wood-Preserv. Ass. Proc., 63d Annu. Meet.:257-291, map. 1967. 300.9 Am3
- 68423 GRAHAM, R. D. Role of the American Wood-Preservers' Association in research on the preservation of wood. Amer. Wood-Preserv. Ass. Proc., 63d Annu. Meet.:61-64. Ref. 1967. 300.9 Am3
- 68424 HENRY, W. T. Relationship of arsenic concentration to the leachability of chromated copper arsenate formulations. Amer. Wood-Preserv. Ass. Proc., 63d Annu. Meet.:187-196. 1967. 300.9 Am3  
Includes discussion.
- 68425 HOCHMAN, H. Creosoted wood in a marine environment—a summary report. Amer. Wood-Preserv. Ass. Proc., 63d Annu. Meet.:138-150. Ref. 1967. 300.9 Am3
- 68426 HUDSON, M. S. New process for longitudinal treatment of wood. Forest Prod. J. 18(3):31-35. Mar.1968. 99.9 F7662J  
Copper-chrome-arsenic preservation treatment.



- 68427 JURASEK, L., SOPKO, R., and VARADI, J. Decomposition of beech wood and holocellulose by supernatants of stationary cultures of wood-destroying fungi. *Ceska Mykol.* 22(1):43-49. Jan.1968. 450 C333
- 68428 KERVINA, L. Preventive measures for the protection of wood against the *Hylotrupes bajulus*. (SI) *Gozdarski Vest.* 25(5/6):143-148. Ref. 1967. 99.8 G74 German summary.
- 68429 KRZYZEWSKI, J., and SEDZIAK, H. P. Inducing protective coatings on railway cross-ties through controlled bleeding. *Amer. Wood-Preserv. Ass. Proc.*, 63d Annu. Meet.:88-93. 1967. 300.9 Am3 Includes discussion.
- 68430 LIESE, W. History of wood pathology. *Wood Sci. Technol.* 1(3):169-173. 1967. SD433.A1W6
- 68431 MILLER, D. J., and GRAHAM, R. D. Research in wood preservation in United States and Canada, September 1965. *Amer. Wood-Preserv. Ass. Proc.*, 63d Annu. Meet.:65-79. 1967. 300.9 Am3
- 68432 PURI, Y. N., and TANEJA, K. K. Problem of decay in spruce and fir logs. *Indian Forest.* 93(9):658-660. Sept.1967. 99.8 In2
- 68433 SANDERMANN, W., and LANGE, W. Studies on wood used in water construction. I. Chemical investigation on the wood of angelique (*basralocus-Dicorynia guianensis* Amsh.). (Ge) *Holzforchung* 21(5):154-157. Ref. Oct. 1967. 99.8 H74 English summary. In relation to natural resistance against attack of marine borers.
- 68434 SYMPOSIUM on pole line appearance. *Amer. Wood-Preserv. Ass. Proc.*, 63d Annu. Meet.: 46-60. 1967. 300.9 Am3 Moderator: R. F. Townsend; members: R. N. Coe, R. B. Hawk, D. A. McLeod, C. A. Burdell, C. A. Jones, J. D. Boyce, and A. X. Baxter. Articles on pole preservation methods and preservatives.
- 68435 U. S. FOREST PRODUCTS LABORATORY. Comparative decay resistance of heartwood of native species. Springfield, Virginia, Clearinghouse for Federal Scientific and Technical Information, 1967. 2 p. G350.A1C55 AD646 567
- 68436 U. S. FOREST PRODUCTS LABORATORY. Factors influencing decay of untreated wood. Springfield, Virginia, Clearinghouse for Federal Scientific and Technical Information, 1967. 3 p. Q350.A1C55 AD646 568
- 68437 WALTERS, C. S. The effect of treating pressure on the mechanical properties of wood: I. Red gum [*Liquidambar styraciflua*]. *Amer. Wood-Preserv. Ass. Proc.*, 63d Annu. Meet.: 166-186. 1967. 300.9 Am3 Includes discussion.
- 68438 WETSCH, A. F. Selective treatment extends wood pole life. *ELP (Elec. Light Power)* 46(1): 72-74. Jan.1968. 335.8 EL234
- 68439 WILLIAMS, A. I. The extraction and determination of disodium octaborate in Sitka spruce [*Picea sitchensis*]. *Analyst* 93(1103):111-115. Ref. Feb.1968. 382 An1 In relation to distribution of boron containing preservatives

## Lumber and Rough Products

68444 SOUTHERN HARDWOOD LUMBER MANUFACTURERS ASSOCIATION. Analysis of hardwood stock trends, January 1, 1965-January 1, 1967. Memphis, 1967. 4 p. 99.9 So822A

## Construction

- 68445 MASANI, N. J. Salient data on design and construction of a deer park shed in timber (1965-66). *Indian Forest.* 93(10):717-719. Oct.1967. 99.8 In2
- 68446 ZERBE, J. I. Wood in construction; an American tradition. *Forests People* 17(3):6-9. Third Q. 1967. 99.8 F7628

## Veneers, Plywood, and Adhesives

- 68447 BRYAN, R. W. Economic factors begin to mitigate pine plywood boom. *Forest Indus.* 95(1): 46-47. Jan.1968. 99.81 W52 Plywood industry in the south.
- 68448 HAYASHI, D., and TOCHIGI, T. Effects of nose-bar shape in veneer cutting. II. *Wood Indus.* 23(1):15-19. 1968. 99.82 M72 English summary.
- 68449 JARVI, R. A. Laboratory test for prepressing plywood. *Forest Prod. J.* 18(3):53-54. Mar. 1968. 99.9 F7662J
- 68450 KOCH, P. Straight studs from southern pine veneer cores and cordwood. *Forest Prod. J.* 18(3):28-30. Mar.1968. 99.9 F7662J
- 68451 LOOS, W. E., and KENT, J. A. Performance of some commercial adhesives for gluing wood-plastic combinations. *Forest Prod. J.* 18(3):23-27. Mar.1968. 99.9 J7662J
- 68452 MARIAN, J. E. Brief history of wood gluing. *Wood Sci. Technol.* 1(3):183-186. 1967. SD433.A1W6
- 68453 MCKENZIE, W. M., and MCCOMBE, B. M. Corrosive wear of veneer knives. *Forest Prod. J.* 18(3):45-46. Mar.1968. 99.9 F7662J
- 68454 NASH, N. The how's and why's of Finnish birch plywood. II. *Woodworking Dig.* 69(9):28-29. Sept.1967. 99.82 W87
- 68455 PLUGARIU, I., and others. Urea-formaldehyde adhesives of high reaction and great water resistance for the gluing of plywood. (Rum) *Indus. Lemnului* 18(10):406-410. Oct.1967. 99.82 In23 M. Gheorghe, M. Suci, N. Stăpinoiu, and A. Stăncu, joint authors.
- 68456 QUIRK, J. T., KOZLOWSKI, T. T., and BLOMQUIST, R. F. Contributions of end-wall and lumen bonding to strength of butt joints. *U. S. Forest Serv. Res. Note FPL-0179*, 13 p. Jan. 1968. A99.9 F7634Un *Pinus eliottii*.
- 68457 RAKNES, E. Finger jointing with resorcinol glues at high wood moisture content. (No) *Norsk Skogindus.* 21(10):378-379,382-383,385-390. Oct.1967. 99.82 N81 English summary. Norway spruce.
- 68458 ROBINSON, F. S. Studies on the use of borax/boric acid mixture in the prevention of attack of hardwood plywood by *Lyctus brunneus* (Steph.). *S. Afr. Forest. J.* 61:18-23. June 1967. 99.9 So82

## Furniture

- 68459 ZABEL, M. Living with wood. *Minn. Univ. Ext. Bull.* 347, 10 p. Feb.1968. 275.29 M66S Furniture and interior housing construction.

## Pulp and Paper

- 68460 AIKEN, W. H. The technical manpower shortage—what you can do about it. *TAPPI (Tech. Ass. Pulp Pap. Indus.)* 51(2):35A-39A. Feb. 1968. 302.8 T162 Pulp industry.

- 68461 ALDRICH, L. C. Cellulose degradation inhibitors for the chlorination stage. TAPPI (Tech. Ass. Pulp Pap. Indus.) 51(3):71A-74A. Ref. Mar.1968. 302.8 T162  
Effect of sulfamic acid on pine kraft pulp.
- 68462 BLYTH, J. E. Pulpwood production and consumption in the North Central region by county, 1966. U. S. N. Cent. Forest Exp. Sta. U. S. Forest Serv. Resour. Bull. NC-3,27 p.,map. Sept.1967. aSD11.A35
- 68463 FAHEY, D. J., and LAUNDRIE, J. F. Kraft pulps, papers, and linerboard from southern pine thinnings. U. S. Forest Serv. Res. Note FPL-0182,8 p. Jan.1968. A99.9 F7634Un
- 68464 HILL, R. L. An investigation of the time-dependent structural and mechanical behavior of individual pulp fibers when subjected to an applied stress. Diss. Abstr., Sect. B, 28(3): 1059B. Sept.1967. Z5055.U49D53
- 68465 LAFFEND, K. B., and SWENSON, H. A. Effect of acetyl content of glucomannan on its sorption onto cellulose and on its beater additive properties. I-II. TAPPI (Tech. Ass. Pulp Pap. Indus.) 51(3):118-123,141-143. Ref. Mar.1968. 302.8 T162
- 68466 LORAS, V. Factors influencing loss in brightness during heating of chemical pulps. Norsk Skogindus. 21(10):368-375. Oct.1967. 99.82 N81  
Sulfite and sulfate pulp from *Picea excelsa*.
- 68467 MUZYCHENKO, M. P., NEPENIN, YU N., and MASLOVA, E. P. Investigation of several processes of bleaching and refining of sulfate pulps. (Rus) Les. Zh. 1:141-144. 1967. 99.8 Iz8
- 68468 NEPENIN, YU. N., and BUEVSKAYA, A. D. Hydrolysis of sulfonated lignin obtained during the first phase of cooking using acids on various bases. (Rus) Les. Zh. 2:125-129. 1967. 99.8 Iz8
- 68469 NYLINDER, P. Views on measurement of pulpwood by weighing. (Sw) Sveriges Skogsvardsforb. Tidskr. 65(6):565-589. Ref. Oct.1967. SD1.S952  
English summary.  
Pine, spruce and birch.
- 68470 PHILLIPS, F. H., BAIN, R. B., and WATSON, A. J. An assessment of the pulping potential of various Western Australian wood species. Australia Commonwealth Sci. Indus. Res. Organ. Div. Forest Prod. Technol. Pap. 49, 30 p. Ref. 1967. 99.9 Au75  
*Pinus pinaster* and *Eucalyptus* spp.
- 68471 RITMAN, E. L. Some aspects of polysulphide pulping. APPITA (Australian Pulp Pap. Indus. Tech. Ass.) 21(1):10. July 1967. 302.8 Au7
- 68472 SCHNYDER, A. P. A new approach to pulpwood delivery to the mill. Pap. Trade J. 152(7):60-61. Feb.12,1968. 302.8 P196
- 68473 STEPHANSEN, E. Contribution to the study of the mechanism of the beating process. (No) Norsk Skogindus. 21(8):266-275. Aug.1967. 99.82 N81  
English summary.
- 68474 TROUT, P. E. Magnesium-base semichemical pulping for corrugating medium production. TAPPI (Tech. Ass. Pulp Pap. Indus.) 51(3): 43A-47A. Ref. Mar.1968. 302.8 T162
- 68475 USUDA, M., and others. Effect of morphological factors on the reactivity of pulp in emulsion xanthation. (Ja) Jap. Wood Res. Soc. J. 13(7):165-170. July 1967. 99.9 J2793  
A. Saito, T. Yamaura, and N. Migita, joint authors.  
English summary.  
Sulfite pulp.
- 68476 WILSON, J. G. The development of the pulp and paper industry in Australia. APPITA (Australian Pulp Pap. Indus. Tech. Ass.) 21(1):4. July 1967. 302.8 Au7
- 68477 WILSON, J. G. The pulp and paper industry in Australia. Australian Timber J. Building Prod. Merchandiser 33(12):20,22,25-26,29. Jan. 1968. 99.81 Au7
- Chemical Products and Distillates
- 68478 ANDERSON, D. M. W., and others. Studies on uronic acid materials. XXIV-XXV. Carbohydr. Res. 6(1):97-104. Ref. Jan.1968. 385 C172  
I. C. M. Dea, K. A. Karamalla, and J. F. Smith, joint authors.  
XXIV, An analytical study of different forms of the gum from *Acacia senegal* Willd.; XXV, Some unusual forms of the gum from *Acacia senegal* Willd.
- 68479 BAGGALÉY, K. H., and others. Chemistry of the order Podocarpaceae. I. Heartwood constituents of the Huon Pine (*Dacrydium franklini* Hook. f.). Acta Chem. Scand. 21(8):2247-2253. Ref. 1967. 385 Ac82  
H. Erdtman, N. J. Mclean, T. Norin, and G. Eriksson, joint authors.
- 68480 BLACK, D. K., and HEDRICK, G. W. The condensation of paraformaldehyde with abietic acid and some of its derivatives. J. Org. Chem. 32(12):3763-3771. Ref. Dec.1967. 381 J827
- 68481 ETTTLING, B. V., and ADAMS, M. F. Gel filtration of arabinogalactan from western larch [*Larix occidentalis*]. TAPPI (Tech. Ass. Pulp Pap. Indus.) 51(3):116-118. Ref. Mar.1968. 302.8 T162
- 68482 FEATHER, M. S., and HARRIS, J. F. Partial hydrolysis and acetolysis of cellotriose-1-C14. Amer. Chem. Soc. J. 89(22):5661-5664. Ref. Oct.25,1967. 381 Am33J
- 68483 KOZLOV, V. N., BRONZOV, O. V., and UTKINA, E. A. Physico-chemical properties of wood charcoal. (Rus) Les. Zh. 2:130-133. 1967. 99.8 Iz8
- 68484 KUTNEY, J. P., and ROGERS, I. H. Novel triterpenes from Sitka spruce (*Picea sitchensis* (Bong.) Carr). Tetrahedron Lett. 6:761-766. Feb.1968. 385 T29  
In the bark.
- 68485 MALIK, M. N., and KHAN, A. A. Vegetable tannin in the indigenous oaks and conifers. Pakistan J. Forest. 17(3):371-376. July 1967. 99.8 P17
- 68486 MEEK, E. Loblolly pine; [*Pinus taeda*] boon to medical science? Forests People 17(3):42-43. Third Q.1967. 99.8 F7628  
Sap of species may prove concentrated source of drugs.
- 68487 TOMITA, B., HIROSE, Y., and NAKATSUKA, T. Terpenoids. XVI. New constituents of *Biota orientalis*. Tetrahedron Lett. 6:843-848. Ref. Feb.1968. 385 T29  
Essential oil from the wood.
- 68488 ZINKEL, D. F., LATHROP, M. B., and ZANK, L. C. Preparation and gas chromatography of the trimethylsilyl derivatives of resin acids and the corresponding alcohols. J. Gas Chromatogr. 6:158-160. Ref. Mar.1967. 381 J8225
- Naval Stores
- 68489 BEDENKO, V. F., and TSYBUKOV, V. N. Method of forecasting resin production under conditions of Dolgi Most Region of Krasnoyarsk Territory. (Rus) Les. Zh. 2:140-143. 1967. 99.8 Iz8  
*Pinus*.
- 68490 MEDNIKOV, F. A. Rosin-turpentine industry in Poland. (Rus) Les. Zh. 2:165-169. 1967. 99.8 Iz8  
Includes turpentinig.
- 68491 ORLOV, I. I. Turpentinig in services of chemical industry. (Rus) Les. Zh. 2:134-136. 1967. 99.8 Iz8  
Pine stands.
- 68492 SMITH, R. H. Variations in the monoterpene composition of the wood resin of jeffrey, washoe, coulter and lodgepole pines [*Pinus jeffreyi*, *P. washoensis*, *P. coulteri* and *P. contorta*]. Forest Sci. 13(3):246-252, map. Ref. Sept.1967. 99.8 F7632



- 68493 SZCZERBAKOW, K. The investigations of the use of stimulants for production of gum naval stores. (Pol) Warsaw. Szk. Gl. Gospod. Wiejsk. Technol. Drewna 1:143-156. Ref. 1967. SD430.W3  
English summary.  
Pine turpentine.
- 68494 WAJSZCZUK, S. The use of wood-tar for synthesis of fungi- and bacteriostatic compounds. (Pol) Warsaw. Szk. Gl. Gospod. Wiejsk. Technol. Drewna 1:119-127. 1967. SD430.W3  
English summary.

## Other Forest Products

- 68495 AGEE, J. K., and BISWELL, H. H. Christmas tree quality of white fir understory in a giant Sequoia forest. Calif. Agr. 21(12):2-3. Dec. 1967. 100 C12Cag
- 68496 BALDWIN, W. C. Pallets from low grade hardwoods. Forest Prod. J. 18(3):11-13. Mar. 1968. 99.9 F7662J
- 68497 CARNEY, P. Driftwood dollars; a delusion? Can. Forest Indus. 87(12):46-47. Dec. 1967. 99.81 C16
- 68498 DORAN, S. M., and others. Christmas tree plantation costs and returns for western Washington. Wash. State Univ. Ext. E. M. 2781, rev., 33 p. Oct. 1967. 275.29 W27Mi  
J. Buhaly, H. J. VanDeRiet, R. W. McKay, D. R. Sivo, and L. Curry, joint authors.
- 68499 MOUNT, P. R. Present and future consumption of particleboard in Denver. Diss. Abstr., Sect. B, 28(6):2208B. Dec. 1967. Z5055.U49D53
- 68500 ONISKO, W., and SZYMCAK, M. Investigations into the effect of bark content on the quality of fiberboard made of willow-tree wood. (Pol) Warsaw. Szk. Gl. Gospod. Wiejsk. Technol. Drewna 1:95-108. Ref. 1967. SD430.W3  
English summary.
- 68501 WALKER, W. R. Transblower pneumatic equipment and parascrew unloader for wood chips. Amer. Pulpwood Ass. Tech. Pap., Oct. 1967:26. 99.9 Am33Te

## SILVICULTURE

- 68502 ALDON, E. F. Moisture loss and weight of the forest floor under pole-size ponderosa pine [*Pinus ponderosa*] stands. J. Forest. 66(1):70-71. Jan. 1968. 99.8 F768
- 68503 ATROKHIN, V. G., and KOROTKOV, A. M. Regulation of stand composition by improvement cuttings. (Rus) Les. Zh. 2:10-13. 1967. 99.8 Iz8  
Linear programming applied.
- 68504 BABOS, I. First evaluation of comparative poplar variety experiments. (Hu) Erdesz. Kutatasok 63(1/3):69-80, map. 1967. 99.9 Er24  
German summary.
- 68505 BOARDMAN, W. S. Wildfire and natural area preservation. Tall Timbers Fire Ecol. Conf. Proc., 6th Annu. Conf.:135-142. 1967. 99.9 T142  
Controlled burning of forests and activities of the Nature Conservancy.
- 68506 BRENDER, E. V., and COPPER, R. W. Prescribed burning in Georgia's Piedmont loblolly pine [*Pinus taeda*] stands. J. Forest. 66(1):31-36. Jan. 1968. 99.8 F768
- 68507 COOPER, R. W. Training through prescribed fire seminars. Tall Timbers Fire Ecol. Conf. Proc., 6th Annu. Conf.:129-133. 1967. 99.9 T142
- 68508 DELL, J. D., and WARD, F. R. Remote ignition of logging slash; napalm grenades successfully tested. U. S. Forest Serv. Res. Note PSW-154, 4 p. 1967. A99.9 F7652
- 68509 DENNY, R. P. Notes on ring-barking in Mata-beleland. Mod. Farming Cent. Afr. 4(7):35, 37. Jan. 1968. 24 M72  
Killing unwanted trees.
- 68510 DRAGUT, N. Results of the culture of *Ailanthus glandulosa* Desf. in forest steppes of the northern Dobruja. (Rum) Rev. Padurilor 82 (7):347-349. July 1967. 99.8 R327
- 68511 FERRIERE, J. J. F. DE., and RIEDEL, C. E. Pedology and the sylvan vocation of soils. (Fr) Rev. Forest. Franc. 8/9:561-564. Aug./Sept. 1967. 99.8 R329
- 68512 FISCHER, F. Reflections on execution of young growth and thicket tending. (Ge) Schweiz. Z. Forstwesen 118(11):744-750. Nov. 1967. 99.8 J82
- 68513 GRJJPMA, P. Anthocephalus cadamba, a versatile, fast growing industrial tree species for the Tropics. Turrialba 17(3):321-329. Ref., p. 327-329. July/Sept. 1967. 8 T86
- 68514 HALL, D. O. Slash disposal burns in pine [*Pinus ponderosa*] patch-cuttings; a dialogue. U. S. Forest Serv. Res. Note PSW-148, 6 p. 1967. A99.9 F7652  
California.
- 68515 HESMER, H., and GUNTHER, K. H. Cultivation and afforestation experiments on pseudo gley soils of Kottenforst. II. Coniferae culture. (Ge) Forstarchiv 39(1):1-23. Jan. 1968. 99.8 F7723
- 68516 HODGSON, A. Fire management in eucalypt forest. Tall Timbers Fire Ecol. Conf. Proc., 6th Annu. Conf.:97-111. Ref. 1967. 99.9 T142  
Australia.
- 68517 HUEY, B. M. Commercial Christmas trees. Amer. Forests 73(12):12-15, 52-54. Dec. 1967. 99.8 F762  
Culture and marketing.
- 68518 JAMES, G. A., and COTTRELL, R. L. To cut or not to cut. J. Forest. 66(1):57-59. Jan. 1968. 99.8 F768  
In recreational sites in Tennessee.
- 68519 JAMIOLKOWSKI, J. Development conditions of beech stands in the forests of Szczecin province. (Pol) Sylwan 111(8):13-21. 1967. 99.8 Sy52  
English summary.
- 68520 KERESZTESI, B. Black locust [*Robinia pseudoacacia*] stand mixture trials on sands between the Danube and Tisza river. (Hu) Erdesz. Kutatasok 63(1/3):129-148. 1967. 99.9 Er24  
English summary.
- 68521 KHARITONOVICH, F. N. Effect of intensive thinning on increment of pine trees of various growth classes. (Rus) Les. Khoz. 12:36-38. Dec. 1967. 99.8 L5622
- 68522 LOTAN, J. E. Eleven-year results of strip-thinning by bulldozer in thirty-year-old lodgepole pine [*Pinus contorta*]. U. S. Forest Serv. Res. Note INT-69, 6 p. 1967. A99.9 F764Un  
Montana.
- 68523 MAIOROV, M. E. Accumulation of snow related to gradual shelterwood cuttings in pine-type forests of Belorussia. (Rus) Les. Zh. 2:22-24. Ref. 1967. 99.8 Iz8
- 68524 NARTOV, P. S., and VERSHININ, V. I. Study of the working parts of disk plows. (Rus) Les. Zh. 2:3-9. 1967. 99.8 Iz8  
Used in forestry.
- 68525 NORTH CAROLINA UNIVERSITY. EXTENSION SERV. North Carolina forest tree planting guide. N. C. Univ. Ext. Leaflet 140, 2 p. Feb. 1968. 275.29 N811L
- 68526 PAGONY, H. Problems of poplar trimming with special emphasis on false heart formation and fungus infection. (Hu) Erdesz. Kutatasok 63(1/3):271-281. Ref. 1967. 99.9 Er24  
German summary.
- 68527 PERKINS, C. J. Prescribed burning on International Paper Company Lands. Tall Timbers Fire Ecol. Conf. Proc., 6th Annu. Conf.:1-6. 1967. 99.9 T142
- 68528 PODZOROV, N. V. Effect of drainage of pine stands growing on seasonally waterlogged soils in areas of industrial atmospheric pollution. (Rus) Les. Zh. 2:27-31. 1967. 99.8 Iz8  
Drainage reduces harmful effect of pollution.

- 68529 PYATETSKII, G. E., and MEDVEDEVA, V. M. Lesosushenie, put' umnozheniya lesnykh bogatstv [Drainage as method of increasing forest productivity]. Petrozavodsk, Karelskoe Khozhoe Izdatel'stvo, 1967. 116 p. Ref. SD388.P5
- 68530 REHFUESS, K. E. Site and nutritional condition of *Abies alba* Mill. stands in terraced area of south Germany. (Ge) Forstwiss. Centralbl. 86(6):321-348, map. Ref. Dec.1967. 99.8 F775  
English summary.  
Foliar analysis.
- 68531 RICHARDS, B. N., and BEVEGE, D. I. Effect of cultivation and fertilizing on potential yield of pulpwood form loblolly pine [*Pinus taeda*]. Australian Forest. 31(3):202-210. Sept.1967. 99.8 Au74
- 68532 ROUSSEL, L. The use of "reduced models" in silviculture. (Fr) Rev. Forest. Franc. 19(12):737-745. Dec.1967. 99.8 R329  
In the production of oaks.
- 68533 SAKS, K. A. Complex cutting method used in experimental forest of Latvian Agricultural Academy. (Rus) Les. Khoz. 12:38-41. Dec. 1967. 99.8 L5622  
For two-storied forests.
- 68534 SOLYMOS, R. Rationalization of stand tending and cleaning in our Scotch pine forests. (Hu) Erdesz. Kutatasok 63(1/3):29-49. Ref. 1967. 99.9 Er24  
German summary.
- 68535 STEINLIN, H. An investigation into the yield by sortiments in beech. (Ge) Allg. Forst- und Jagdzeitung 138(12):261-266. Dec.1967. 99.8 AL3  
English summary.  
Log sizes.
- 68536 TIMOFEEV, V. P. Introduction of larch into forests of Russian SFSR. (Rus) Les. Khoz. 12: 17-24, map. Dec.1967. 99.8 L5622
- 68537 TRONCO, G. Poplars, dense or scattered? (It) Ital. Agr. 104:1141-1162. Nov.1967. 16 It1  
Planting distance with reference to costs and returns from the wood.
- 68538 UHLIG, S. On relations between tree characteristics and time necessary for the lopping (stem pruning) of spruce. (Ge) Arch. Forstwesen 16(6/9):979-982. 1967. 99.8 Ar22
- 68539 VENET, J. Silviculture of forests of veneer oaks. (Fr) Rev. Forest. Franc. 19(12):746-758. Dec.1967. 99.8 R329
- 68540 WALNUT WORKSHOP, CARBONDALE, ILLINOIS, 1966. Black walnut [*Juglans nigra*] culture; papers presented, August 2 and 3, 1966. Conducted by Forest Service, U. S. Department of Agriculture, the American Walnut Manufacturers' Association [and] Forestry Department, the Southern Illinois University. St Paul, 1966. 94 p., map. Ref. aSD397.W3W3  
At head of title: North Central Forest Experiment Station, Forest Service, U. S. Department of Agriculture.  
Includes introduction "In a nutshell," by S. G. Boyce.
- 68541 WAMBACH, R. F. A silvicultural and economic appraisal of initial spacing in red pine [*Pinus resinosa*]. Diss. Abstr., Sect. B, 28(6):2210B. Dec.1967. Z5055.U49D53
- 68542 ZBIKOWSKI, A. Tree-planting on the off-slope of Otmuchowo Dam and its working conditions. Water Econ. [Selec. Articles] 20(2/12):197-200. 1966. (TT 63-11363) HD1697.P7S4  
Translation from Gospodarka Wodna 20(6): 287-288. 1960.  
Issued by CFSTI.
- 68543 ZONN, S. V. Development of forest soil science, its achievements and perspectives. (Rus) Pochvovedenie 12:3-11. Ref. Dec.1967. 57.8 P34
- 68544 ANDERSSON, E. Forest seed plantation activities. (Sw) For. Skogstradsforadling. Arsbok 1966:65-89. Ref. 1967. 99.9 F7626A
- 68545 BIBIKOV, G. M., and KOSTENKO, I. P. Afforestation of chalky slopes in Belgorod Region. (Rus) Les. Khoz. 1:68-70. Jan.1967. 99.8 L5622
- 68546 BRODOVICH, T. M. Propagation of *Pseudotsuga menziesii* by grafting in Ukraine. (Rus) Les. Zh. 1:23-26. 1967. 99.8 Iz8
- 68547 DOLGOLIKOV, V. I. Width of annual rings, number of cells in them and tracheid dimensions of spruce trees of various productivity. (Rus) Les. Zh. 2:32-35. 1967. 99.8 Iz8  
In relation to selection of *Picea excelsa* plus-trees.
- 68548 EDEN, C. J. California cone crop for 1967. Calif. Dep. Conserv. Div. Forest. State Forest Notes 33,7 p. Aug.1967. 99.9 C122S
- 68549 EVALUATION of forest planting stock. (Ge) Allg. Forstzeitung 79(3):52-54. Mar.1968. 99.8 AL53
- 68550 FUISZ, J. Results of seed testing with restricted samples. (Hu) Erdesz. Kutatasok 63 (1/3):151-159. 1967. 99.9 Er24  
German summary.
- 68551 GEORGOPOULOS, A., and TSITSONIS, K. Contribution to solution of the clonal selection problem of poplars. (Fr) Schweiz. Z. Forstwesen 118(12):792-805. Ref. Dec.1967. 99.8 J82  
German summary.
- 68552 HAMMER, J. G., and BROERMAN, F. S. A comparison of three packaging methods for slash pine seedlings. Tree Planters' Notes 18 (4):3-4. Nov.1967. 1.962 C5T71  
Georgia.
- 68553 HEDEMANN-GADE, E. A comparative trial with 2/0- and 1/1-pine plants from the same seed lot and planted simultaneously and in the same way in sample plots. (Sw) Sveriges Skogsvardsforb. Tidskr. 65(6):605-624. Ref. Oct.1967. SD1.S952  
English summary.  
Seedling mortality and growth.
- 68554 HUGHES, E. L. Studies in stand and seedbed treatment to obtain spruce and fir reproduction on the mixedwood slope type of northwestern Ontario. Can. Dep. Forest. Publ. 1189, 138 p. Ref. 1967. 99.9 C1628P  
Includes scarification and spraying with herbicides.
- 68555 JOHNSON, J. W., and MCELWEE, R. L. Larger sweetgum [*Liquidambar styraciflua*] seedlings are more vigorous two years after planting. Tree Planters' Notes 18(4):24-27. Nov.1967. 1.962 C5T71  
North Carolina.
- 68556 JOHNSON, R. L. Improving germination of Nuttall oak [*Quercus nuttallii*] acorns. U. S. Forest Serv. Res. Note SO-66, 3 p. 1967. A99.9 F7628U
- 68557 JONES, L. Studies of some factors affecting survival of woody plant seedlings. Diss. Abstr., Sect. B, 28(6):2208B. Dec.1967. Z5055.U49D53
- 68558 KHAN, A. A. A short report Bend Pine Nursery, Oregon, U. S. A. Pakistan J. Forest. 17 (3):377-399. July 1967. 99.8 P17
- 68559 KIELLANDER, C. L., and NILSSON, E. Variations in hardness of spruce [*Picea abies*] provenances. (Sw) Sveriges Skogsvardsforb. Tidskr. 65(6):625-631. Oct.1967. SD1.S952
- 68560 KORPEL, S. The development and age structure of beech forests in Vihorlat mountains. (Cz) Biologia [Bratislava] 22(4):285-303. Ref. 1967. 442.8 B5265  
German summary.
- 68561 KRING, J. S. Spoil bank planting. Tenn. Farm Home Sci. Progr. Rep. 64:6-8. Oct./Dec.1967. 100 T25F  
Reforestation research.
- 68562 KULOW, D. L., and SCHUMACHER, F. X. Slash pine [*Pinus elliottii* elliottii] growth in Florida. J. Forest. 66(1):72. Jan.1968. 99.8 F768  
Effects of thinning on annual growth.

#### Regeneration



- 68563 LEBRUN, C. Densimetric sorting of seeds by immersion in liquids. (Fr) Rev. Forest. Franc. 19(12):786-791. Dec.1967. 99.8 R329 Forest trees seeds.
- 68564 LEVINGSTON, R. Reafforestation with teak. S. Pac. Bull. 17(4):41-44. Fourth Q.1967. 280.8 So89 At the Mount Lawes Territory Forest.
- 68565 MACDONALD, T. B. The Strathoykel plan. Scot. Agr. 46(4):159-162. Autumn 1967. 10 Sco82So Afforestation and development of pastures; government research program.
- 68566 MATYAS, V. The revision of conifer seed stands and its practical relations. (Hu) Erdesz. Kutatasok 63(1/3):161-171. 1967. 99.9 Er24 English summary.
- 68567 NATHER, J. Provenance supply in spring 1968. (Ge) Allg. Forstzeitung 79(3):63-65. Mar. 1968. 99.8 AL53
- 68568 NOBLE, W. A. The shifting balance of grasslands, shola forests, and planted trees on the upper Nilgiris, southern India. Indian Forest. 93(10):691-693. Oct.1967. 99.8 In2 Afforestation.
- 68569 OSBORN, J. S. Plant them wide, George. Forest. Chron. 43(4):389-392. Dec.1967. 99.8 F7623
- 68570 RADWAN, M. A., DODGE, W. E., and WARD, H. S. Effect of storage on subsequent growth and repellency of Douglas-fir [*Pseudotsuga menziesii*] seedlings sprayed with TMTD. Tree Planters' Notes 18(4):10-13. Nov.1967. 1.962 C5T71 Washington.
- 68571 ROSSMASSLER, W. Phenotype recognition—early test—progeny testing. (Ge) Forst- Holzwirt 22(16):328-331. Aug.23,1967. 99.8 F7724 Seed certification.
- 68572 SELECTION of planting distance in afforestation. (Ge) Allg. Forstzeitung 79(3):54-57. Ref. Mar.1968. 99.8 AL53
- 68573 SUTTON, R. F. Influence of root pruning on height increment and root development of out-planted spruce [*Picea glauca* and *P. abies*]. Can. J. Bot. 45(9):1671-1682. Ref. Sept.1967. 470 C16C
- 68574 VIDAKOVIC, M. Genetics in silviculture. Pakistan J. Forest. 17(3):325-335. July 1967. 99.8 P17
- 68575 VILCSEK, J. Terraced reforestation experiences. (Hu) Erdesz. Kutatasok 63(1/3):383-397. 1967. 99.9 Er24 German summary.
- 68576 WIEBECKE, C., and HARTWIG, F. Afforestation planning and regional planning in Chile. (Ge) Forstarchiv 38(11/12):273-276. Nov./Dec.1967. 99.8 F7723
- 68577 WILLISTON, H. L. Clay slurry root dip impairs survival of loblolly pine seedlings in Mississippi. Tree Planters' Notes 18(4):28-30. Nov.1967. 1.962 C5T71 Use of kaolin.
- 68578 WILLISTON, H. L. Growth of pine planted for erosion control in north Mississippi. U. S. Forest Serv. Res. Note SO-67,4 p. 1967. A99.9 F7628U Pinus taeda, P. echinata, and P. elliotii.

## WOOD TECHNOLOGY

- 68579 BACH, L., and PENTONEY, R. E. Nonlinear mechanical behavior of wood. Forest Prod. J. 18(3):60-66. Ref. Mar.1968. 99.9 F7662J Creep and recovery study.
- 68580 BHATNAGAR, N. S., and GUPTA, R. P. On the constitutive equations of the orthotropic theory of creep. Wood Sci. Technol. 1(2):142-148. 1967. SD433.A1W6
- 68581 BLAND, D. E., and MENSUN, M. The liberation of lignin by pretreatment of the wood of *Eucalyptus regnans* with alkali. APPITA (Australian Pulp Pap. Indus. Tech. Ass) 21(1):17. July 1967. 302.8 Au7 Includes discussion.
- 68582 BOONE, R. S. Moisture content of wood for interior use, Douglas-fir [*Pseudotsuga menziesii menziesii*] and robusta eucalyptus [*Eucalyptus robusta*] samples studied. U. S. Forest Serv. Res. Note PSW-152,5 p. 1967. A99.9 F7652
- 68583 BROWNING, B. L. Methods of wood chemistry. New York, Interscience Publishers. 1967. 2 v. TS932.B7 Includes bibliographies.
- 68584 COTE, W. A. History of wood ultrastructure research. Wood Sci. Technol. 1(3):178-180. 1967. SD433.A1W6
- 68585 DINWOODIE, J. M. Recording the initiation and development of failure in timber. Nature 216(5117):827-828. Nov.25,1967. 472 N21
- 68586 FENGEL, D. Ultramicrotomy, its application in wood research. Wood Sci. Technol. 1(3):191-204. Ref. 1967. SD433.A1W6
- 68587 GUIHER, J. K. Relation of specific gravity to rings-per-inch in cottonwood [*Populus deltoides*] construction lumber. Forest Prod. J. 18(3):22. Mar.1968. 99.9 F7662J
- 68588 HAMILTON, J. R., and WENDEL, G. W. Specific gravity and fiber length of some hybrid poplars [*Populus*] growing in West Virginia. W. Va. Agr. Exp. Sta. Bull. 556T,6 p. Ref. Nov. 1967. 100 W52
- 68589 HITTMEIER, M. E. Effect of structural direction and initial moisture content on swelling rate of wood. Wood Sci. Technol. 1(2):109-121. Ref. 1967. SD433.A1W6
- 68590 KEITH, C. T., and COTE, W. A. Microscopic characterization of slip lines and compression failures in wood cell walls. Forest Prod. J. 18(3):67-74. Ref. Mar.1968. 99.9 F7662J
- 68591 KENNEDY, R. W. Wood in transverse compression; influence of some anatomical variables and density on behavior. Forest Prod. J. 18(3):36-40. Ref. Mar.1968. 99.9 F7662J
- 68592 KISSER, J. G. History of wood anatomy. Wood Sci. Technol. 1(3):161-164. 1967. SD433.A1W6
- 68593 KLEMOLA, A. Steam hydrolysis of birchwood [*Betula pubescens*]. II. Fractionation and preliminary investigation of steam hydrolysis lignin. Suomen Kem. A, 40(12):329-335. Ref. 1967. 385 Su7
- 68594 KOCON, J. X-ray examinations of the pattern of crystalline areas of cellulose in spruce and larch wood in relation to yearly growth. (Pol) Warsaw. Szk. Gl. Gospod. Wiejsk. Technol. Drewna 1:31-44. Ref. 1967. SD430.W3 English summary.
- 68595 KOLTZENBURG, C. The effect of light intensity, crown class and site on the properties of beechwood (*Fagus sylvatica* L.). (Ge) Holz Roh- Werkstoff 25(12):465-473. Ref. Dec.1967. 99.81 H74 English summary.
- 68596 MACLEAN, H., and MURAKAMI, K. Lignans of western red cedar (*Thuja plicata* Donn). VI. Dihydroxythujaplicatin methyl ether. Can. J. Chem. 45(3):305-309. Ref. Feb.1,1967. 470 C16B Extracted from heartwood.
- 68597 MARIAUX, A. Tree-rings in tropical woods periodicity, method of study and initial results. (Fr) Bois Forests Trop. 114:23-37. July/Aug.1967. 99.8 B632 English summary.
- 68598 MATEJAK, M. Investigations into absorption of beta-radiation in wood. (Pol) Warsaw. Szk. Gl. Gospod. Wiejsk. Technol. Drewna 1:19-29. Ref. 1967. SD430.W3 English summary.
- 68599 MIKHAILICHENKO, A. L. Effects of knots on static bending strength of hardwoods. (Rus) Les. Zh. 2:96-100. Ref. 1967. 99.8 Iz8 Oak, beech, and birch species.

- 68600 MUSZYNSKI, Z. Some research problems considered by the Faculty of Wood Technology of Warsaw Agricultural University [Warsaw Szkoła Główna Gospodarstwa Wiejskiego, Wydział Technologii Drewna] in light of the needs of the wood industry. (Pol) Warsaw. Szk. Gl. Gospod. Wiejsk. Technol. Drewna 1:7-11. 1967. SD430.W3  
English summary.
- 68601 NEKRASOVA, G. N. Study of the nature of aspen false heart. (Rus) Les. Zh. 2:87-91. Ref. 1967. 99.8 Iz8
- 68602 OSTROVSKII, M. P., and SHVETSOV, YA. N. Study of the effect of size and shape of contact surface during compression of wood parallel to grain. (Rus) Les. Zh. 2:101-102. 1967. 99.8 Iz8
- 68603 PACHELSKI, M. The perspectives for the development of the Faculty of the Wood Technology [Warsaw, Szkoła Główna Gospodarstwa Wiejskiego, Wydział Technologii Drewna]. (Pol) Warsaw. Szk. Gl. Gospod. Wiejsk. Technol. Drewna 1:13-17. 1967. SD430.W3  
English summary.
- 68604 PAVELESCU, I. M. Main defects of the Rumanian poplar stere. (Rum) Rev. Padurilor 82(7):364-367. July 1967. 99.8 R327
- 68605 PEARL, I. A. Annual review of lignin chemistry. TAPPI (Tech. Ass. Pulp Pap. Indus.) 51(3):83A-102A. Ref. Mar.1968. 302.8 T162
- 68606 PEPPER, J. M., CASSELMAN, B. W., and KAPALLY, J. C. Lignin oxidation, preferential use of cupric oxide. Can. J. Chem. 45(23):3009-3012. Dec.1,1967. 470 C16B  
Experimented with *Picea glauca* and *Populus tremuloides*.
- 68607 RESCH, H., and HUANG, S. M. Variation in wood quality of incense cedar trees [*Libocedrus decurrens*]. Calif. Agr. Exp. Sta. Bull. 833, 20 p.,map. Ref.,p.15-17. Sept.1967. 100 C12S  
Includes properties.
- 68608 SADOH, T., and KINGSTON, R. S. T. Longitudinal shrinkage of wood. II. The relation between longitudinal shrinkage and structure. Wood Sci. Technol. 1(2):81-98. 1967. SD433.A1W6
- 68609 SALAMON, M., and KOZAK, A. Shrinkage of sapwood and heartwood of young Douglas-fir [*Pseudotsuga menziesii*] trees. Forest Prod. J. 18(3):90-94. Ref. Mar.1968. 99.9 F7662J
- 68610 SEKHAR, A. C., and RAJPUT, S. S. Some studies on the shrinkage behaviour of wood. Wood Sci. Technol. 1(2):99-108. Ref. 1967. SD433.A1W6
- 68611 SOBOLEV, YU. S. Effect of the scale factor on experimental values of the modulus of elasticity of wood under compression parallel to grain. (Rus) Les. Zh. 2:107-112. 1967. 99.8 Iz8
- 68612 STAMM, A. J. History of two phases of wood physics. Wood Sci. Technol. 1(3):186-190. Ref. 1967. SD433.A1W6
- 68613 STAMM, A. J. Movement of fluids in wood. I. Wood Sci. Technol. 1(2):122-141. Ref. 1967. SD433.A1W6
- 68614 STAMM, A. J. Movement of fluids in wood. II. Diffusion. Wood Sci. Technol. 1(3):205-230. Ref. 1967. SD433.A1W6  
Solids, liquids, and gases.
- 68615 SUSS, H. On length variations of parenchyma strands, wood fibres and vessel members in hardwoods within one growth period. (Ge) Holz Roh- Werkstoff 25(10):369-377. Ref. Oct. 1967. 99.81 H74  
English summary.
- 68616 TAYLOR, F. W. Specific gravity differences within and among yellow-poplar [*Liriodendron tulipifera*] trees. Forest Prod. J. 18(3):75-81. Ref. Mar.1968. 99.9 F7662J
- 68617 THOMAS, R. J. The structure of the pit membranes in longleaf pine; [*Pinus palustris*] an electron microscope study. Amer. Wood-Pre-serv. Ass. Proc., 63d Annu. Meet.:20-29. Ref. 1967. 309.9 Am3  
Includes discussion.
- 68618 THOMAS, R. J., and NICHOLAS, D. D. The ultrastructure of the pinoid pit in southern yellow pine. TAPPI (Tech. Ass. Pulp Pap. Indus.) 51(2):84-88. Ref. Feb.1968. 302.8 T162
- 68619 THOMPSON, N. S., KREMERS, R. E., and KAUSTINNE, O. A. Effects of alkali on mature and immature jack pine [*Pinus banksiana*] holo-celluloses. I-II. TAPPI (Tech. Ass. Pulp Pap. Indus.) 51(3):123-131. Ref. Mar.1968. 302.8 T162  
Includes separation of tracheids and comparison of certain polysaccharide components.
- 68620 U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. Surface flammability of various wood-base building materials. U. S. Forest Serv. Res. Note FPL-0186, 13 p. Feb.1968. A99.9 F7634Un
- 68621 VARAKSINA, T. N., KHOL'KIN, YU. I., and BAZHENOV, V. A. Dependence of chemical composition of wood on growing conditions. (Rus) Les. Zh. 2:137-139. 1967. 99.8 Iz8  
*Betula verrucosa* and pine species.
- 68622 YAROSLAVTSEV, G. D., and VISHNYAKOVA, T. N. Cedrus deodara Loud. and physico-mechanical properties of its wood. (Rus) Les. Zh. 2:118-119. 1967. 99.8 Iz8
- 68623 YLINEN, A. Contributions to the history of timber mechanics and wood rheology. Wood Sci. Technol. 1(3):164-166. 1967. SD433.A1W6



## PLANT SCIENCE

## GENERAL

- 68624 ADAM, D. P., FERGUSON, C. W., and LAMARCH, V. C. Enclosed bark as a pollen trap. *Science* 157(3792):1067-1068. Sept.1,1967. 470 Sci2  
In California.
- 68625 ANDREWS, H. N., KASPER, A., and MENCHER, E. *Psilophyton forbesii*, a new Devonian plant from northern Maine. *Torrey Bot. Club Bull.* 95(1):1-11. Jan./Feb.1968. 451 T63B
- 68626 BERTA, F. Modification of thermistor thermometer for ecological and cryoscopic studies. (Cz) *Biologia [Bratislava]* 22(4):304-309. 1967. 442.8 B5265  
German and Russian summaries.  
In plant research.
- 68627 BOJNANSKY, V. Botanical garden at Soledad. (Cz) *Biologia [Bratislava]* 22(1):74-76. 1967. 442.8 B5265  
Cuba.
- 68628 BONEHAM, R. F. Devonian Tasmanites from Michigan, Ontario, and northern Ohio. *Mich. Acad. Sci. Arts Lett. Papers* 52(1):163-173, map. 1966, pub.1967. 500 M582
- 68629 BREZHNEV, D. D. The All-Union Research Institute of Plant Growing [Vsesoyuznyi Institut Rastenievodstva] and its scientists. (Rus) *Vestnik Sel'skokhoz. Nauk. [Moscow]* 11:31-41. Nov.1967. 20 V633  
General activities.
- 68630 CERNA, V. Perforated cards as keys in the identification of plants. (Cz) *Biologia [Bratislava]* 22(9):687-691. 1967. 442.8 B5265  
German and Russian summaries.
- 68631 DOWNS, R. J. Why the phytotron? (Condensed.) *Agr. Eng.* 49(3):142-143. Mar.1968. 58.8 Ag83
- 68632 GELDOLF, W. Where does the name come from? (Du) *Groenten Fruit* 23(12):531. Sept.27,1967. 80 G89  
Plant names.
- 68633 GIBSON, H. L. Strong infrared absorption by rotted cactus pulp. *Biol. Photogr. Ass. J.* 35(3):120-125. Aug.1967. 332.9 B52  
In photography for botany.
- 68634 HIBBERT, F. A. The use of scanning electron microscopy in the study of Carboniferous microspores. *New Phytol.* 66(4):825-826. Oct.1967. 450 N42
- 68635 KING, J. E. Modern pollen rain and fossil pollen in soils in the Sandia Mountains, New Mexico. *Mich. Acad. Sci. Arts Lett. Papers* 52(1):31-41. Ref. 1966, pub.1967. 500 M582
- 68636 LAMARCHE, V. C. Rates of slope degradation as determined from botanical evidence, White Mountains, California. *U. S. Geol. Surv. Prof. Pap.* 352, 1:342-377. Ref. 1968. 407 G29Pr
- 68637 MARSHALL, A. Infrared colour photography. *Sci. J.* 4(1):45-51. Jan.1968. Q1.S34  
Includes plants and forests.
- 68638 MOORE, P. D. Human influence upon vegetational history in north Cardiganshire. *Nature* 217(5133):1006-1009. Mar.16,1968. 472 N21  
Pollen study.
- 68639 MURATA, Y., and HAYASHI, K. On a new, automatic device for leaf-area-measurement. *Crop Sci. Soc. Japan. Proc.* 36(4):463-467. Dec.1967. 22.5 C88
- 68640 OVEZMURADOV, S. O., and MISHCHENKO, A. S. Scientific work of the Institute of Botany, the Academy of Sciences of the Turkmenian S.S.R. [Akademiya Nauk Turkemenskoi SSR. Institut Botaniki]. (Rus) *Bot. Zhur. [Moscow]* 52(11):1682-1686. Nov.1967. 451 R923  
Includes list of publications.
- 68641 PRAKASH, U., and TRIPATHI, P. P. Fossil wood of *Lannea* from the tertiary of Assam. *Cur. Sci.* 36(17):462-463. Sept.5,1967. 475 Sci23
- 68642 ROGERSON, C. T., and others. Index to American botanical literature. *Torrey Bot. Club Bull.* 94(6):549-561. Nov./Dec.1967. 451 T63B  
L. Schwarten, H. W. Rickett, and H. Becker, joint authors.
- 68643 ROGERSON, C. T., RICKETT, H. W., and BECKER, H. Index to American botanical literature. *Torrey Bot. Club Bull.* 95(1):111-125. Jan./Feb.1968. 451 T63B
- 68644 SCHWANITZ, F. Die Evolution der Kulturpflanzen [The evolution of cultivated plants]. Munchen Bayerischer Landwirtschaftsverlag, 1967. 463 p. QK980.S3  
Bibliography, p.387-441.
- 68645 SEGAL, R. H. A study of certain cardiocarpalean ovules from the American Carboniferous. *Diss. Abstr.*, Sect. B, 28(3):804B-805B. Sept.1967. Z5055.U49D53
- 68646 SHCHEKINA, N. O. Paleobotanical study of Paleogenic and Neogenic flora of Ukraine. (Ukr) *Ukr. Bot. Zh.* 24(5):103-115. Sept./Oct.1967. 450 J8212J  
During years of Soviet Power.
- 68647 SHORT, C. C. Chemical analysis with light; an important aid in the production of better crops and livestock. *Agr. Gaz. New S. Wales* 78(4):240-242. Apr.1967. 23 N472  
Use of spectrograph, flame photometer, and atomic absorption spectrophotometer.
- 68648 VASIL'EV, N. G., and IVLIEV, L. A. Botanical investigations at the Biological and Pedologic Institute of the Far East Branch of the Academy of Sciences of the U.S.S.R. [Akademiya Nauk SSSR. Dal'nevostochnyi Filial. Biologo-Pochvennyi Institut imeni V. L. Komarova]. (Rus) *Bot. Zhur. [Moscow]* 52(9):1366-1370. Sept.1967. 451 R923  
Includes list of publications.
- 68649 VENKATACHALA, B. S., and KAR, R. K. *Katrolaites* gen. nov., a new fossil from the Jurassic rocks of Kutch, India. *Cur. Sci.* 36(22):613-614. Nov.20,1967. 475 Sci23
- 68650 VOZNYACHUK, L. N., and PUZANOV, L. T. A note on geological age of interglacial deposits of Belovezha area. (Rus) *Akad. Nauk Belorussk. SSR. Dokl.* 11(8):713-716. Ref. Aug. 1967. 511 M663D  
Includes pollen study.
- 68651 WESTERN AUSTRALIA. DEPT. OF AGRICULTURE. The Botany Branch and the W.A. Herbarium. *West. Australia. Dep. Agr. J. (ser.4)* 8(8):343-344. Aug.1967. 23 W52J
- 68652 ABE, K. Contributions to the embryology of the family Orchidaceae. I. Development of the embryo sac in *Cymbidium goeringii* Reichb. F. *Tohoku Univ. Sci. Rep. Ser. 4 (Biol.)* 33(2):79-82. Aug.1967. 513 T574Ab
- 68653 ADAMS, F. S. Histochemical and morphological analysis of in vitro cultured embryos of *Pelargonium x hortorum* Bailey, in comparison to normal in vivo embryology and seedling differentiation. *Diss. Abstr.*, Sect. B, 28(6):2279B. Dec.1967. Z5055.U49D53
- 68654 ARANO, H., and NAKAMURA, T. Cytological studies in family Liliaceae of Japan. I. (Ja) *Kromosomo* 68:2205-2214. Ref. Jan.1967. 442.8 K92  
English summary.  
Includes chromosome numbers.
- 68655 BARABIN, A. I. Morphological variation in the structure and arrangement of reproductive and vegetative buds in spruce. (Rus) *Les. Zh.* 2:161-162. 1967. 99.8 Iz8
- 68656 BARTON, R. Occurrence and structure of intranuclear crystals in *Chara* cells. *Planta* 77(3):203-211. Ref. 1967. 450 P693
- 68657 BENCAT, F. The origin, forms and types of ramified male catkins in *Castanea sativa* Mill. (Ge) *Biologia [Bratislava]* 22(4):237-245. 1967. 442.8 B5265
- 68658 BENNETT, M. D., and REES, H. Natural and induced changes in chromosome size and mass in meristems. *Nature* 215(5096):93-94. July 1, 1967. 472 N21  
In rye.

- 68659 BENTRUP, F. W. Morphogenesis of plant cells in electric field. (Ge) Naturwissenschaften 54 (23):620-621. Dec.1,1967. 474 N213  
In *Fucus*, *Funaria*, and *Equisetum*.
- 68660 BHAT, R. N., and TANDON, S. L. Meiotic studies in *Rungia repens* (Linn.) Nees. Cur. Sci. 36(22):617-618. Nov.20,1967. 475 Sci23
- 68661 BOBAK, M. Despiralization of chromosomes and disturbances in chromosome matrix caused by propenyl-N-3-fluorophenylcarbamate. (Cz) Biologia [Bratislava] 22(9):668-672. Ref. 1967. 442.8 B5265  
German and Russian summaries.
- 68662 BRENNER, D. M., and CARROLL, G. C. Fine-structural correlates of growth in hyphae of *Ascodesmis sphaerospora* Douglas. J. Bacteriol. 95(2):658-671. Ref. Feb.1968. 448.3 J82
- 68663 BUIATTI, M. Cytological observations on tumor tissue of the hybrid *Nicotiana suaveolens* x *N. langdorffii* in vivo and in vitro. Caryologia 20(2):187-190. Apr./June 1967. 442.8 C25
- 68664 CAMERON, D. F. Chromosome number and morphology of some introduced *Stylosanthes* species. Australian J. Agr. Res. 18(3):375-379. May 1967. 23 Au783
- 68665 CARLSON, D. G. Isolation and composition of cell walls of microconidia, macroconidia, and hyphae of *Trichophyton mentagrophytes*. Diss. Abstr., Sect. B, 28(3):1030B-1031B. Sept.1967. Z5055.U49D53
- 68666 CINCURA, F. A contribution to the cytology of *Festuca pseudodalmatica* Kraj. from Eastern Slovakia. (Cz) Biologia [Bratislava] 22(6):462-467. 1967. 442.8 B5265  
German summary.
- 68667 COLE, K. The cytology of *Eudesme virescens* (Carm.) J. Ag. I. Meiosis and chromosome number. Can. J. Bot. 45(5):665-672. Ref. May 1967. 470 C16C
- 68668 COOKE, J. C. Morphological studies in the genus *Chaetomium*. Diss. Abstr., Sect. B, 28(6):2280B. Dec.1967. Z5055.U49D53
- 68669 COX, B. S., and GILL, J. J. B. A chromosomal translocation in *Sordaria fimicola* and irregular segregation of chromosomes. New Phytol. 66(4):653-664. Oct.1967. 450 N42
- 68670 DHALIWAL, T. S. Correlations between yield and morphological characters in Puerto Rican and Columbian varieties of *Coffea arabica* L. P. R. Univ. J. Agr. 52(1):29-37. Jan.1968. 8 P832J
- 68671 DMITRIEVA, K. V. Morphological and physiological studies of the reproductive organs of rye and wheat. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 131:209-213. Ref. 1967. 20 M857
- 68672 DUVEL, D. Contribution to the ultra structure of chloroplast lamellae. (Ge) Protoplasma 64(2):185-194. 1967. 442.8 P94  
In tobacco.
- 68673 DVORAK, F. A contribution to the study of variations in *Lunaria rediviva* L. (Cz) Biologia [Bratislava] 22(6):451-457. 1967. 442.8 B5265  
German summary.  
Morphology.
- 68674 ERAMYAN, E. N. The types of sporoderm of microspores in the representatives of the order Cornales and their genetic affinities. (Rus) Bot. Zhur. [Moscow] 52(9):1287-1294. Ref. Sept.1967. 451 R923  
English summary.
- 68675 ETTL, H. The fine structure of *Chloromonas rosae* Ettl. (Ge) Protoplasma 64(2):134-146. Ref. 1967. 442.8 P94  
English summary.
- 68676 FOGG, J. M. A note on *Adina rubella*. Morris Arboretum Bull. 18(4):87. Dec.1967. 451 P383  
Morphological study.
- 68677 FRANKE, W., and PANIC, M. Studies on ectodesmata. IV. Ectodesmata in leaves of Gramineae. (Ge) Planta 77(2):176-181. 1967. 450 P693  
English summary.  
*Triticum aestivum* and *Zea mays*.
- 68678 FULLER, M. J. The genus *Carduus* L. in Nebraska. Diss. Abstr., Sect. B, 28(6):2282B. Dec.1967. Z5055.U49D53  
Morphological.
- 68679 FURTADO, J. S. Basidial cytology of *Exidia nucleata*. Mycologia 60(1):9-15. Ref. Jan./Feb.1968. 450 M99
- 68680 GANDARILLAS, H., and LUIZAGA, J. Number of chromosomes of *Chenopodium quinoa* Willd. in radicles and root tips. (Sp) Turrialba 17(3):275-279. July/Sept.1967. 8 T86  
English summary.
- 68681 GOLDSTEIN, M. Colony differentiation in *Eudorina*. Can. J. Bot. 45(9):1591-1596. Ref. Sept.1967. 470 C16C
- 68682 GUTKNECHT, J. Ion fluxes and short-circuit current in internally perfused cells of *Valonia ventricosa*. J. Gen. Physiol. 50(7):1821-1834. Ref. Aug.1967. 447.8 J822
- 68683 HALLER, J. M. The tree [*Ficus benghalensis*] with 300 trunks. Frontiers 32(3):10-11. Feb. 1968. 410 F92
- 68684 HEDBERG, O. Chromosome numbers of vascular plants from arctic and sub-arctic North America. Arkiv Bot. (ser.2)6(4/5):309-326. Ref. 1967. 451 Sv2
- 68685 HESS, W. M., MULLER, E., and AUE, R. Germ pores of *Chaetomium [gelanisporum]* ascospores. Naturwissenschaften 54(19):521-522. Oct.1,1967. 474 N213
- 68686 HESS, W. M. Ultrastructural comparisons of fungus hyphal cells using frozen-etched replicas and thin sections of the fungus *Pyrenochaeta terrestris*. Can. J. Microbiol. 14(3):205-210. Ref. Mar.1968. 448.8 C162

## MORPHOLOGY, ANATOMY, AND CYTOLOGY

- 68687 HO, H. H., ZACHARIAH, K., and HICKMAN, C. J. Anatomy of beads on flagella zoospores of *Phytophthora megasperma* var. *sojae*. Can. J. Bot. 45(9):1765-1766. Sept.1967. 470 C16C
- 68688 HOFF, B. J. The cytology and fertility of bermudagrass, *Cynodon dactylon* (L.) Pers., in Arizona. Diss. Abstr., Sect. B, 28(6):2227B. Dec.1967. Z5055.U49D53
- 68689 HOSHIKAWA, K. Studies on the development of endosperm in rice. 6. Effects of early-season cultural practice on the size of endosperm and the number of cell layers of endosperm. (Ja) Crop Sci. Soc. Japan. Proc. 36(4):389-394. Ref. Dec.1967. 22.5 C88  
English summary.  
Includes varieties.
- 68690 HOSHIKAWA, K. Studies on the development of endosperm in rice. 7. Size of endosperm and number of cell layers of endosperm of paddy rice varieties in Japan. (Ja) Crop Sci. Soc. Japan. Proc. 36(4):395-402. Dec.1967. 22.5 C88  
English summary.
- 68691 HOSHIKAWA, K. Studies on the development of endosperm in rice. 8. Size of endosperm and number of cell layers of endosperm of Japanese upland rice varieties and a comparison with those of the paddy varieties. (Ja) Crop Sci. Soc. Japan. Proc. 36(4):403-407. Dec.1967. 22.5 C88  
English summary.
- 68692 ICHIDA, A. A., and FULLER, M. S. Ultrastructure and mitosis in the aquatic fungus *Catenaria anguillulae*. Mycologia 60(1):141-155. Ref. Jan./Feb.1968. 450 M99
- 68693 IDLE, D. B. Ice in plants. Sci. J. 4(1):59-62. Jan.1968. Q1.S34  
Cytology of hardy and non-hardy plants.
- 68694 JONES, F. T. Two apparent exceptions to Abbe's theory of resolution. Microscope 16(1st Qtr.):4-11. Jan.1968. 440.8 M584  
Diatoms studied.
- 68695 JONES, K., and SMITH, J. B. Chromosome evolution in the genus *Crinum*. Caryologia 20(2):163-179. Ref. Apr./June 1967. 442.8 C25



- 68696 JONES, K. L. Observations on root tips and associated microorganisms in soil. Mich. Acad. Sci. Arts Lett. Papers 52(1):43-54. Ref. 1966, pub. 1967. 500 M582
- 68697 KIM, K. S. A contribution to embryological studies on *Vitis (labrusca-vinifera)* Fredonia variety. Diss. Abstr., Sect. B, 28(6):2200B. Dec. 1967. Z5055.U49D53
- 68698 KONO, Y., and OHASHI, T. Histogenesis and polysaccharides at the early stages of development in rice kernels. (Ja) Crop Sci. Soc. Japan. Proc. 36(4):448-462. Ref. Dec. 1967. 22.5 C88  
English summary.
- 68699 KUIJT, J. On the structure and origin of the seedling of *Psittacanthus schiedeanus* (Loranthaceae). Can. J. Bot. 45(9):1497-1506. Ref. Sept. 1967. 470 C16C
- 68700 LEAK, L. V. Fine structure of the mucilaginous sheath of *Anabaena* sp. J. Ultrastruct. Res. 21(1/2):61-74. Ref. Nov. 1967. 440.8 J822
- 68701 LINSKENS, H. F., and SCHRAUWEN, J. Changes in the ribosome pattern during meiosis. (Ge) Naturwissenschaften 55(2):91. Feb. 1968. 472 N213  
In *Lilium henryi*.
- 68702 MACKENZIE, A., HESLOP-HARRISON, J., and DICKINSON, H. G. Elimination of ribosomes during meiotic prophase. Nature 215 (5104):997-999. Aug. 26, 1967. 472 N21  
*Lilium henryi* and *Trillium erectum*.
- 68703 MAEDA, E. Histology of aseptic callus tissues derived from rice embryos. (Ja) Crop Sci. Soc. Japan. Proc. 36(4):369-376. Ref. Dec. 1967. 22.5 C88  
English summary.
- 68704 MAIER, K. Wall labyrinths in the sporophyte of *Polytrichum*. (Ge) Planta 77(2):108-126. Ref. 1967. 450 P693  
English summary.  
*Polytrichum commune*, *P. juniperinum*, and *P. formosum*.
- 68705 MARCHANT, R., PEAT, A., and BANBURY, G. H. The ultrastructural basis of hyphal growth. New Phytol. 66(4):623-629. Ref. Oct. 1967. 450 N42  
*Phycomyces blakesleeana*, *Fusarium culmorum* and *Coprinus lagopus*.
- 68706 MASUBUCHI, N. The structure of pachytene chromosomes in *Trillium kamschaticum* Pall. (Ja) Kromosomo 68:2229-2234. Ref. Jan. 1967. 442.8 K92  
English summary.
- 68707 MCKEEN, W. E., MITCHELL, N., and SMITH, R. The Erysiphe cichoracearum conidium. Can. J. Bot. 45(9):1489-1496. Ref. Sept. 1967. 470 C16C  
Cytological study.
- 68708 MITSUKURI, Y., and KOZUKA, T. Cytological studies on Japanese Orchidaceae. 1. Chromosome numbers and karyotypes of *Liparis*. (Ja) Kromosomo 68:2221-2228. Jan. 1967. 442.8 K92  
English summary.
- 68709 MODYLEVS'KYI, YA. S., and KORDYUM, YE. L. Studies on embryology and cytology of plants in Ukrainian SSR. (Ukr) Ukr. Bot. Zh. 24(5):44-54. Sept./Oct. 1967. 450 J8212J  
History.
- 68710 MULLER, B. Separation of whole and destroyed chloroplasts. (Ge) Naturwissenschaften 54(19):520-521. Oct. 1, 1967. 474 N213  
Experimented with spinach.
- 68711 NAYAR, B. K., and CHANDRA, S. Morphological series within the genus *Pyrrosia*, and their phylogenetic interpretation. Can. J. Bot. 45(5):615-634. Ref. May 1967. 470 C16C
- 68712 NEGRUL', A. M., and GORDEEVA, L. N. Anatomic and histochemical investigation of grape buds in connection with the critical period of their formation. (Rus) Timiryazevskaya Sel'skokhoz. Akad. Izv. 6:19-35. Ref. 1967. 106 P44  
English summary.
- 68713 NELSON, A. C., and BACKUS, M. P. Ascocarp development in two homothallic *Neurosporas*. Mycologia 60(1):16-28. Ref. Jan./Feb. 1968. 450 M99  
*Neurospora terricola* and *N. dodgei*.
- 68714 NOLAN, J. R. Developmental morphology of the asclepiadaceous inflorescence. Diss. Abstr., Sect. B, 28(3):802B. Sept. 1967. Z5055.U49D53
- 68715 NOUGAREDE, A., and BRONCHART, R. Description of the places of incorporation of tritiated thymidine on a level with the infrastructures of prefloral meristem in *Perilla nankinensis* (Lour.) Decne. (Fr) Acad. Sci. Compt. Rend. Ser. D, 264(15):1844-1847. Ref. Apr. 10, 1967. 505 P21
- 68716 NOZU, M. Cytological studies on soybean root nodule by means of electron microscopy. (Ja) Crop Sci. Soc. Japan. Proc. 36(4):472-480. Ref. Dec. 1967. 22.5 C88  
English summary.
- 68717 PADMANABHAN, D. Direct evidence for schizogenous splitting in palm-leaf [*Phoenix sylvestris*] lamina. Cur. Sci. 36(17):467-468. Sept. 5, 1967. 475 Sci23
- 68718 PANDEY, D. C. Some observations on *Anabaena naviculoides* Fritsch. Cur. Sci. 36(17):471. Sept. 5, 1967. 475 Sci23  
Morphology.
- 68719 PETZOLD, H. Crystalloid inclusions in the cytoplasm of plant cells. (Ge) Protoplasma 64(2):120-133. Ref. 1967. 442.8 P94  
English summary.
- 68720 RAJENDREN, R. B. Proliferating basidia in *Muribasidiopsis indica*. Experientia 23 (10):866-877. Oct. 15, 1967. 475 Ex7
- 68721 RANGANATHAN, S. R., and NARASIMKHAN, R. Some correlated traits in sugarcane. Indian J. Agr. Sci. 37(4):270-272. Aug. 1967. 22 Ag831
- 68722 RAO, C. V. Evolution of the endosperm in Proteaceae. New Phytol. 66(4):755-768. Ref. Oct. 1967. 450 N42
- 68723 REEDER, J. R. Notes on Mexican grasses. VIII Miscellaneous chromosome numbers. 2. Torrey Bot. Club Bull. 95(1):69-86. Ref. Jan./Feb. 1968. 45i T63B
- 68724 REMSEN, C. C., HESS, W. M., and SASSEN, M. M. A. Fine structure of germinating *Penicillium megasporum* conidia. Protoplasma 64 (4):449-451. Ref. 1967. 442.8 P94  
Cytoplasmic structure.
- 68725 ROBARDS, A. W., and HUMPHERSON, P. G. Microtubules and angiosperm bordered pit formation. Planta 77(3):233-238. 1967. 450 P693  
*Salix fragilis*.
- 68726 SALEMA, R. On the occurrence of periderm in the leaves of *Welwitschia mirabilis*. Can. J. Bot. 45(9):1469-1471. Ref. Sept. 1967. 470 C16C
- 68727 SCHLOEMER-JAGER, A. The development of Osmundaceae based on fossil stems and rhizome. (Ge) Deut. Bot. Ges. Ber. 80(4):301-302. 1967. 451 D48
- 68728 SCHMID, R., and BALDERMANN, E. Electron microscopy demonstration of acidic mucopolysaccharides in hypha of fungi. (Ge) Naturwissenschaften 54(19):521. Oct. 1, 1967. 474 N213
- 68729 SERBANESCU, I. Perturbations in *Pirus elae-agrifolia* Pall. and *P. piraster* (L.) Medik. along the Peceneaga-Camena fault line. (Rum) Rumania. Comitetul Geol. Dari Seama Sedintelor 52(pt.3A):337-341. 1964/65, pub. 1967. 403 R86  
English summary.  
Morphological abnormalities caused by copper in soils.
- 68730 SHIMIZU, M., and KUNO, K. Some cyto-histological observations on the morphogenetically abnormal rice spikelets caused by a low temperature. (Ja) Crop Sci. Soc. Japan. Proc. 36 (4):489-502. Ref. Dec. 1967. 22.5 C88  
English summary.

- 68731 SOKOLOV, O. A. Distribution of root systems of fruit trees on terraces. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 1:95-99. Ref. 1968. 20 V633  
English summary.  
Deciduous.
- 68732 STAFF, I. A. A study of the ultrastructure of a species of *Cladosporium*. Diss. Abstr., Sect. B, 28(6):2287B. Dec.1967. Z5055.U49D53
- 68733 STEWARD, F. C., ISRAEL, H. W., and SALPETER, M. M. The labeling of carrot cells with  $H^3$ -proline: Is there a cell-wall protein? Nat. Acad. Sci. Proc. 58(2):541-544. Ref. Aug.1967. 500 N21P
- 68734 STREET, H. E. The ageing of root meristems. Soc. Exp. Biol. Symp. 21:517-542. Ref. 1967. 442.9 So15  
Tomatoes.
- 68735 TAYLOR, R. L. The foliar embryos of *Malaxis paludosa*. Can. J. Bot. 45(9):1553-1556. Sept. 1967. 470 C16C
- 68736 TOAMA, M. A. The microcysts of the cellular slime mold *Polysphondylium pallidum*. Diss. Abstr., Sect. B, 28(3):782B-783B. Sept. 1967. Z5055.U49D53
- 68737 TOHDA, H. An embryological study of *Hetaeria shikokiana*, a saprophytic orchid in Japan. Tohoku Univ. Sci. Rep. Ser. 4 (Biol.) 33(2):83-95. Ref. Aug.1967. 513 T574Ab
- 68738 TRAINOR, F. R., and ROSKOSKY, F. G. Scenedesmus wall ornamentation. IV. Apical openings and membranes. Torrey Bot. Club Bull. 95(1):11-15. Ref. Jan./Feb.1968. 451 T63B
- 68739 TSCHERMAK-WOESS, E. The course of the first meiotic prophase of *Rhinanthus*, the giant chromosomes, and the singular behavior of the short chromosomes in mitosis, meiosis, and the highly endopolyploid nuclei. (Ge) Caryologia 20(2):135-152. Apr./June 1967. 442.8 C25  
English summary.
- 68740 WANGERMANN, E. The effect of the leaf on differentiation of primary xylem in the internode of *Coleus blumei* Benth. New Phytol. 66(4):747-754. Ref. Oct.1967. 450 N42
- 68741 YAMADA, T., and SHINOTO, Y. Cytological studies on cultured cells. III. Chromosome variations in cultured cells of *Paeonia japonica*. (Ja) Kromosomo 68:2215-2220. Ref. Jan. 1967. 442.8 K92  
English summary.  
Study of calluses.
- 68742 ZELENOV, A. N. Some biological characteristics of the reproductive organs of peas, grown from ripe, unripe and radiated [gamma rays] seeds. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 131:227-230. 1967. 20 M857
- 68743 ZIELINSKI, Q. B., and THOMPSON, M. M. Speciation in *Pyrus*: chromosome number and meiotic behavior. Bot. Gaz. 129(2):109-112. Ref. June 1967. 450 B562
- ECOLOGY**
- 68744 ANDERSON, R. R. Plant ecology of the Upper Patuxent River estuary with special reference to the effects of thermal pollution on macrophytes. Diss. Abstr., Sect. B, 28(3):800B. Sept.1967. Z5055.U49D53  
Vascular plants and algae.
- 68745 BACKHAUS, D. Ecological study of small algae in upper Danube and in her tributaries. I. (Ge) Arch. Hydrobiol. 30(4,pt.2):364-399. Ref. Aug.1967. 410 Ar28
- 68746 BERGHEN, C. V. The pastoral life in Haute Soule. (Fr) Natur. Belg. 48(5):217-240. May 1967. 410.9 N21  
Plant ecology.
- 68747 COLINGSWORTH, R. F., and HOHN, M. H. Postglacial physicochemical conditions of Vestaburg Bog, Montcalm County, Michigan, based on diatom analyses. Mich. Acad. Sci. Arts Lett. Papers 52(1):19-30. Ref. 1966, pub.1967. 500 M582
- 68748 COLVILLE, W. L. Influence of plant spacing and population on aspects of the microclimate within corn ecosystems. Agron. J. 60(1):65-67. Jan./Feb.1968. 4 Am34P
- 68749 COX, L. M., ASHCROFT, G. L., and RICHARDSON, E. A. Bioclimatology, a practical science, nature's unsung middlemen. Utah Sci. 28(4):124-129, map. Dec.1967. 100 Ut1F  
Plants.
- 68750 DAMMAN, A. W. H. The forest vegetation of western Newfoundland and site degradation associated with vegetation change. Diss. Abstr., Sect. B, 28(6):2280B. Dec.1967. Z5055.U49D53
- 68751 DARNELL, R. M. Organic detritus in relation to the estuarine ecosystem. Conf. Estuaries. Papers 1964:376-382. 1967. QH91.A3C6 1964  
Includes algae.
- 68752 DZHALILOVA, A. O. The effect of phytocoenotic conditions on the populations of some meadow plant species. (Rus) Bot. Zhur. [Moscow] 52(9):1261-1266. Sept.1967. 451 R923  
English summary.
- 68753 FREDRICK, C. M. A natural history study of the vascular flora of Cedar Bog, Champaign County, Ohio. Diss. Abstr., Sect. B, 28(6):2281B. Dec.1967. Z5055.U49D53
- 68754 GANSEL, C. R. Do wet- and drysite ecotypes exist in slash pine [*Pinus elliotii*]. AT-FA (Amer. Turpentine Farmers Ass.) J. 30(5):9-10. Feb.1968. 309.8 Am3
- 68755 GAVRILENKO, L. N. Peculiarities of natural overgrowing of ravines in southern forest-steppe area of Transvolga region. (Rus) Les. Zh. 2:14-17. 1967. 99.8 Iz8
- 68756 GREEAR, P. F. C. Composition, diversity, and structure of the vegetation of some natural ponds in northwest Georgia. Diss. Abstr., Sect. B, 28(6):2282B. Dec.1967. Z5055.U49D53
- 68757 HARTL, H. Sociology of the virgin forests of Scatle and Derborence. (Ge) Schweiz. Z. Forstwesen 118(11):737-743. Nov.1967. 99.8 J82
- 68758 HEDGPETH, J. W. Ecological aspects of the Laguna Madre, a hypersaline estuary. Conf. Estuaries. Papers 1964:408-419, map. 1967. QH91.A3C6 1964  
Includes algae and other aquatic plants in Texas.
- 68759 HELLUM, A. K. Factors influencing frond size of bracken [*Pteridium aquilinum*] on sandy soils in northern lower Michigan. Diss. Abstr., Sect. B, 28(6):2207B-2208B. Dec.1967. Z5055.U49D53  
Relation between frond size, forest cover, and soil profile, and possibility of using bracken as indicator for forest site productivity.
- 68760 JAKUCS, P., and JURKO, A. *Quercus petraea*-*Carpinus*, a new subassociation in Slovakian and Hungarian Karst Area. (Ge) Biologia [Bratislava] 22(5):321-335. 1967. 442.8 B5265
- 68761 JOHNSTON, M. A. The ecological physiology of three Colorado varieties of *Hymenoxys acaulis* (Pursh) Parker. Diss. Abstr., Sect. B, 28(3):801B. Sept.1967. Z5055.U49D53
- 68762 KERSHAW, K. A. Ecological methods and computers. Sci. Progr. [Oxford] 55(219):437-451. Ref. Autumn 1967. 472 Sci22
- 68763 KOHOUT, F. A., and KOLIPINSKI, M. C. Biological zonation related to groundwater discharge along the shore of Biscayne Bay, Miami, Florida. Conf. Estuaries. Papers 1964:488-499, map. 1967. QH91.A3C6 1964  
Includes algae and other aquatic plants.
- 68764 LACKEY, J. B. The microbiota of estuaries and their roles. Conf. Estuaries. Papers 1964:291-302. 1967. QH91.A3C6 1964  
Includes ecology of algae.
- 68765 LANGILLE, A. R. Eco-physiological studies on *Coronilla varia* L. Diss. Abstr., Sect. B, 28(6):2213B. Dec.1967. Z5055.U49D53



- 68766 LOWRY, W. P. Biometeorological inference and plant-environment interrelations. In Shaw, R. H., ed. Ground level climatology, p.3-14. 1967. QC981.S5
- 68767 LUND, J. W. G. Planktonic algae and the ecology of lakes. Sci. Progr. [Oxford] 55(219):379-400, map. Ref. Autumn 1967. 472 Sci22
- 68768 LYON, L. J. An evaluation of density sampling methods in a shrub community. J. Range Manage. 21(1):16-20. Ref. Jan. 1968. 60.18 J82
- 68769 MACNAE, W. Zonation within mangroves associated with estuaries in North Queensland. Conf. Estuaries. Papers 1964:432-441, map. 1967. QH91.A3C6 1964
- 68770 MALONE, C. R. Variation in caloric equivalents for herbs as a possible response to environment. Torrey Bot. Club Bull. 95(1):87-91. Ref. Jan./Feb. 1968. 451 T63B  
In relation to ecological research.
- 68771 MARR, J. W., and others. Data on mountain environments. II. Front Range, Colorado, four climax regions, 1953-1958. Colo. Univ. Stud. Ser. Biol. 28:169 p. Jan. 1968. 442.9 C71  
A. W. Johnson, W. S. Osburn, and O. A. Knorr, joint authors.  
Monthly summary tables and annual summary tables on meteorology in relation to forest ecology.
- 68772 MARR, J. W., and others. Data on mountain environments. III. Front Range, Colorado, four climax regions, 1959-1964. Colo. Univ. Stud. Ser. Biol. 29:181 p. Jan. 1968. 442.9 C71  
J. M. Clark, W. S. Osburn, and M. W. Paddock, joint authors.  
Monthly summary tables, annual summary tables, and 12-year period summaries of meteorology in relation to forest ecology.
- 68773 MCNAUGHTON, S. J. Relationships among functional properties of Californian grassland. Nature 216(5111):168-169. Ref. Oct. 14, 1967. 472 N21
- 68774 MEIEROTTO, R. R. The distribution of small mammals across a prairie-forest ecotone. Diss. Abstr., Sect. B, 28(3):753B. Sept. 1967. Z5055.U49D53
- 68775 NAGABHUSHANAM, A. K. On an unusually dense phytoplankton [Trichodesmium erythroium] bloom around Minicoy island (Arabian sea), and its effect on the local tuna fisheries. Cur. Sci. 36(22):611-612. Nov. 20, 1967. 475 Sci23
- 68776 ODUM, E. P., and DE LA CRUZ, A. A. Particulate organic detritus in a Georgia salt marsh-estuarine ecosystem. Conf. Estuaries. Papers 1964:383-388. 1967. QH91.A3C6 1964  
Spartina alterniflora.
- 68777 OHMANN, L. F. Random tree distribution in jack pine [Pinus banksiana] plains near Itasca Park, Minnesota. Torrey Bot. Club Bull. 95(1):28-31. Jan./Feb. 1968. 451 T63B  
Ecological aspects.
- 68778 PESHKOVA, G. I. Flora of Ignatov bog in the Kalush Region. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 131:313-319. 1967. 20 M857
- 68779 PETRANOVA, H. The association Carex flava-Eriophorum Soo 1944 on marshlands of southern slopes of Vihorlat mountains. (Cz) Biologia [Bratislava] 22(7):508-618. Ref. 1967. 442.8 B5265  
German summary.
- 68780 RICHARDSON, E. A., COX, L. M., and ASHCROFT, G. Bioclimatology—the practical science, the original go power. Utah Sci. 28(3):88-93. Sept. 1967. 100 Ut1F  
Includes plants.
- 68781 RILEY, G. A. The plankton of estuaries. Conf. Estuaries. Papers 1964:316-326. 1967. QH91.A3C6 1964  
Includes phytoplankton ecology.
- 68782 SAGER, P. E. Species diversity and community structure in lacustrine phytoplankton. Diss. Abstr., Sect. B, 28(3):1286B. Sept. 1967. Z5055.U49D53
- 68783 SCHMUTZ, E. M., MICHAELS, C. C., and JUDD, B. I. Boysag Point: a relict area on the north rim of Grand Canyon in Arizona. J. Range Manage. 20(6):363-369. Ref. Nov. 1967. 60.18 J82  
Ecological study.
- 68784 SWAN, J. M. A. The phytosociology of upland vegetation at Candle Lake, Saskatchewan. Diss. Abstr., Sect. B, 28(6):2287B-2288B. Dec. 1967. Z5055.U49D53
- 68785 SWAN, L. W. Life in the snow. Pacific Discovery 21(1):9. Jan./Feb. 1968. 500 P112  
Includes algae and insects.
- 68786 TAMIR, T. The role of the sky and lateral waves on propagation in forest environments. Springfield, Virginia, Clearinghouse for Federal Scientific and Technical Information, 1967. 52 p. Q350.A1C55 AD 651 639
- 68787 TAYLOR, R. J. The relation of forest vegetation to soils and geology in the Gulf Coastal Plain in Oklahoma. Diss. Abstr., Sect. B, 28(3):805B. Sept. 1967. Z5055.U49D53
- 68788 USINGER, R. L. The life of rivers and streams. New York, McGraw-Hill, 1967. 232 p. Ref. (Our Living World of Nature) QH97.U8  
U. S. Department of Interior cooperating.  
Includes ecology of algae and insects, irrigation water, and effects of water pollution on aquatic fauna.
- 68789 VICHEREK, J. Noteworthy xerothermic vegetation communities at the upper Orava River area. (Cz) Biologia [Bratislava] 22(2):143-148. 1967. 442.8 B5265  
German summary.
- 68790 WALSH, G. E. An ecological study of a Hawaiian mangrove swamp. Conf. Estuaries. Papers 1964:420-431, map. 1967. QH91.A3C6 1964  
Rhizophora mangle and Brugiera sexangula.
- 68791 WEBB, L. J., and TRACEY, J. G. An ecological guide to new planting areas and site potential for hoop pine [Araucaria cunninghami]. Australian Forest, 31(3):224-239, map. Ref. Sept. 1967. 99.8 Au74
- 68792 WHITMAN, W. C., and WOLTERS, G. Microclimatic gradients in mixed grass prairie. In Shaw, R. H., ed. Ground level climatology, p.165-185. Ref. 1967. QC981.S5  
Northern Great Plains.
- 68793 WHITTAKER, R. H. Ecological implications of weather modification. In Shaw, R. H., ed. Ground level climatology, p.367-384. Ref. 1967. QC981.S5  
Plants.

## GENETICS

- 68794 AKIHAMA, T. Estimation of competitive ability and its relation to fitness in rice hybrid population. Jap. J. Breeding 17(4):18-21. Dec. 1967. 64.8 J27  
Includes varieties.
- 68795 AMANO, E. Comparison of ethyl methanesulfonate- and radiation-induced [neutrons] waxy mutants in maize. Mutation Res. 5(1):41-46. Ref. Jan./Feb. 1968. 443.8 M98
- 68796 AYYANGAR, K. R., and SAMPATHKUMAR, R. On the occurrence of chromosomal variability in the somatic cells of Elephantopus scaber Linn. Cur. Sci. 36(17):470-471. Ref. Sept. 5, 1967. 475 Sci23
- 68797 BACHMANN, M. D., and others. Chloroplast development in pigment deficient mutants of maize. I. Structural anomalies in plastids of allelic mutants at the w3 locus. J. Ultrastruct. Res. 21(1/2):41-60. Ref. Nov. 1967. 440.8 J822  
D. S. Robertson, C. C. Bowen, and I. C. Anderson, joint authors.
- 68798 BALINT, A. Heterosis in the form changes of chromosomes. (Hu) Agrartud. Kozlem. 26(3/4):445-449. Ref. 1967. 19 B855  
Corn.

- 68799 BERNINGER, E., and BURET, P. Study of chlorophyll deficiencies in two cultivated species of the genus "Allium": onion "A. cepa" L. and leek "A. porrum" L. (Fr) Ann. Amelior. Plantes 17(2):175-194. 1967. 14 F8499A  
English summary.  
Used as genetic markers.
- 68800 BOJANOWSKI, J. Recurrent selection for smut [Ustilago maydis] resistance in corn. Zuchter. Genet. Breed. Res. 37(4):151-155. Ref. July 17, 1967. 442.8 Z8
- 68801 BOONSUE, B. A diallel analysis of lodging resistance and associated characters in Sorghum vulgare Pers. Diss. Abstr., Sect. B, 28(6): 2225B. Dec. 1967. Z5055.U49D53
- 68802 BROWN, W. L. Results of non-selective in-breeding in maize. Zuchter. Genet. Breed. Res. 37(4):155-159. Ref. July 17, 1967. 442.8 Z8
- 68803 BUSCH, R. H. Full-sib and half-sib estimates of genetic variance in two populations of Medicago sativa L. Diss. Abstr., Sect. B, 28(6): 2226B. Dec. 1967. Z5055.U49D53
- 68804 COCKERHAM, C. C. Prediction of double crosses from single crosses. Zuchter. Genet. Breed. Res. 37(4):160-169. Ref. July 17, 1967. 442.8 Z8  
Statistical research methods.  
Applicable to plants.
- 68805 COLLINS, O. R., and CLARK, J. Genetics and plasmodial compatibility and heterokaryosis in Didymium iridis. Mycologia 60(1):90-103. Ref. Jan./Feb. 1968. 450 M99
- 68806 DANIEL, L. Study of the heredity of sucker shoot formation in corn. (Hu) Agrartud. Kozlem. 26(3/4):432-444. Ref. 1967. 19 B855
- 68807 DOBIAS, A. Polyploid breeding in Sweden. (Cz) Biologia [Bratislava] 22(2):152-157. 1967. 442.8 B5265  
Plants.
- 68808 DONINI, B., and SCARASCIA-MUGNOZZA, G. T. Genetic effects of chronic gamma irradiation in durum wheat. Radiat. Bot. 8(1):49-58. Ref. Feb. 1968. 450 R11
- 68809 EBERHART, S. A., HARRISON, M. N., and OGADA, F. A comprehensive breeding system. Zuchter. Genet. Breed. Res. 37(4):169-178. Ref. July 17, 1967. 442.8 Z8  
Corn in Kenya.
- 68810 EMERSON, S. Fungal genetics. Annu. Rev. Genet. 1:201-220. 1967. QH431.A1A5  
Review of the literature.
- 68811 FAHSELT, D. A chromatographic comparison of Dicotyledon species and hybrids. Diss. Abstr., Sect. B, 28(6):2281B. Dec. 1967. Z5055.U49D53  
Genetics and biochemistry.
- 68812 FEDERER, W. T. Diallel cross designs and their relation to fractional replication. Zuchter. Genet. Breed. Res. 37(4):174-178. Ref. July 17, 1967. 442.8 Z8  
Plant genetics.
- 68813 FUNK, C. R., HAN, S. J., and SIEBELS, W. J. Effect of pollen parent on progeny performance and expression of apomixis in Kentucky bluegrass, Poa pratensis L. N. J. Agr. Exp. Sta. Bull. 818:20-31. Ref. Jan. 1968. 100 N46S
- 68814 GATAULINA, G. G. Effect of radiation [gamma rays] and chemical mutagens on white lupine in the first generation. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 131:111-116. 1967. 20 M857
- 68815 GEBHART, E. Non random distribution of chromatid breaks induced by 8-hydroxyquinoline sulfate. (Ge) Naturwissenschaften 55(1): 45. Jan. 1968. 474 N213  
In peas.
- 68816 GRAHAM, W. D. The effects of height on yield and yield components of Sorghum vulgare Pers. Diss. Abstr., Sect. B, 28(6):2226B-2227B. Dec. 1967. Z5055.U49D53  
Genetics.
- 68817 GYORFFY, B. Population heterozygosity and their evolutionary changes. (Hu) Agrartud. Kozlem. 26(3/4):407-429. Ref. 1967. 19 B855  
Includes plants and insects.
- 68818 HALLAUER, A. R., and WRIGHT, J. A. Genetic variances in the open-pollinated variety of maize, Iowa Ideal. Zuchter. Genet. Breed. Res. 37(4):178-185. Ref. July 17, 1967. 442.8 Z8
- 68819 HARVEY, J. E. Testa color inheritance in peanuts (Arachis hypogaea L.). Diss. Abstr., Sect. B, 28(6):2272B. Dec. 1967. Z5055.U49D53
- 68820 HAYTER, A. M., and RILEY, R. Duplicate genetic activities affecting meiotic chromosome pairing at low temperatures in Triticum. Nature 216(5119):1028-1029. Dec. 9, 1967. 472 N21
- 68821 HEDDLE, J. A., and others. Distribution of chromatids at mitosis. Science 158(3803):929-931. Ref. Nov. 17, 1967. 470 Sci2  
S. Wolff, D. Whissell, and J. E. Cleaver, joint authors.  
Includes broadbeans.
- 68822 HOBSON, T. F. J., and FYFE, J. L. The conditional probability of passing a test for uniformity. J. Agr. Sci. [London] 70(1):1-3. Feb. 1968. 10 J822  
Plant breeding.
- 68823 IBARBIA, E. A. Inheritance of pod number per node and other characters affecting yield of peas, Pisum sativum, L. Diss. Abstr., Sect. B, 28(6):2199B-2200B. Dec. 1967. Z5055.U49D53
- 68824 INOMATA, N. Production of triploid hybrids of Brassica by embryo culture. Jap. J. Breeding 17(4):22-25. Dec. 1967. 64.8 J27
- 68825 JHA, K. K. Genetic control of allelic recombination at the histidine-3 locus of Neurospora crassa. Genetics 57(4):865-873. Ref. Dec. 1967. 442.8 G28
- 68826 JOHNSON, B. L. Tetraploid wheat: seed protein electrophoretic patterns of the Emmer and Timopheevi groups. Science 158(3797):131-132. Ref. Oct. 6, 1967. 470 Sci2
- 68827 KILBEY, B. J. Specificity in the photoreactivation of premutational damage induced in Neurospora crassa by ultraviolet. Z. Vererbungslehre 100(2):159-165. 1967. 442.8 Z34
- 68828 KITANI, Y., and OLIVE, L. S. Genetics of Sorgharia fimicola. VI. Gene conversion at the g locus in mutant X wild type crosses. Genetics 57(4):767-782. Ref. Dec. 1967. 442.8 G28
- 68829 KLINGMULLER, W. Analysis of sorbose-resistant Neurospora crassa mutants; an experiment on genetics of active transports. II. (Ge) Z. Vererbungslehre 100(3):256-263. 1967. 442.8 Z34  
English summary.
- 68830 KOGA, Y., NAGAMATSU, T., and INOUE, Y. Studies on the crossing experiments between diploid and auto-triploid rice plants, Oryza sativa L., with special reference to the artificial culture of progeny plants and their chromosome numbers. (Ja) Kyushu Univ. Fac. Agr. Sci. Bull. 23(2):63-66. July 1967. 107.6 K995B  
English summary.
- 68831 KOGA, Y., and NAGAMATSU, T. Studies on the crossing experiments between diploid and auto-triploid rice plants, Oryza sativa L., with special reference to the cytology of triploid and formation of hybrid seeds. (Ja) Kyushu Univ. Fac. Agr. Sci. Bull. 23(2):55-61. Ref. July 1967. 107.6 K995B  
English summary.
- 68832 KOGA, Y., and NAGAMATSU, T. Studies on the crossing experiments between diploid and auto-tetraploid rice plants, Oryza sativa L., with special reference to the results of artificial culture of hybrid seeds. (Ja) Kyushu Univ. Fac. Agr. Sci. Bull. 23(2):49-53. July 1967. 107.6 K995B  
English summary.
- 68833 KOGA, Y., and NAGAMATSU, T. Studies on the crossing experiments between diploid and auto-tetraploid rice plants, Oryza sativa L., with special reference to the results of crossing. (Ja) Kyushu Univ. Fac. Agr. Sci. Bull. 23(2): 43-48. Ref. 107.6 K99B  
English summary.



- 68834 KOLTIN, Y., and RAPER, J. R. The genetic structure of the incompatibility factors of *Schizophyllum commune*: the resolution of class III B factors. *Z. Vererbungslehre* 100(3):275-282. 1967. 442.8 Z34
- 68835 LANIER, W. B., TUVESON, R. W., and LENNOX, J. E. A radiation-sensitive mutant of *Aspergillus nidulans*. *Mutation Res.* 5(1):23-31. Ref. Jan./Feb.1968. 443.8 M98
- 68836 LATZEL, G. Genetic and cytological studies on the knowledge of the *Renneria* group of the genus *Oenothera*. (Ge) *Biol. Zentralbl.* 86(4):409-434. Ref. July/Aug.1967. 442.8 B523  
English summary.  
Chiefly *O. kopenhagensis*.
- 68837 LELLEY, J. Fertility-biological observations of wheat related to cytoplasmic male-sterility. (Hu) *Agrartud. Kozlem.* 26(3/4):451-457. Ref. 1967. 19 B855
- 68838 LI, S. L., REDEI, G. P., and GOWANS, C. S. A phylogenetic comparison of mutation spectra. *Z. Vererbungslehre* 100(1):77-83. Ref. 1967. 442.8 Z34  
Includes fungi and higher plants.
- 68839 LONNQUIST, J. H. Mass selection for prolificacy in maize. *Zuchter. Genet. Breed. Res.* 37(4):185-188. Ref. July 17,1967. 442.8 Z8
- 68840 LONNQUIST, J. H., and CASTRO G., M. Relation of intra-population effects to performance of S1 lines of maize. *Crop Sci.* 7(4):361-364. Ref. July/Aug.1967. 64.8 C883
- 68841 LUDWIGSON, J. Elms for the future. *Sci. News Lett.* 92(11):256-257. Sept.9,1967. 470 Sci24  
Genetic study.
- 68842 MALIANI, C. Botanical purity and agronomical purity. (It) *G. Agr.* 78(7):79. Feb.18,1968. 16 It1G  
Varietal purity of seeds.
- 68843 MALIK, C. P. Cytogenetic studies on the F1 hybrid of *Lolium multiflorum* × *L. rigidum* and the species relationship in the genus *Lolium*. *Zuchter. Genet. Breed. Res.* 37(6):261-271. Ref. Oct.24,1967. 442.8 Z8
- 68844 MATZINGER, D. F., and WERNSMAN, E. A. Genetic diversity and heterosis in *Nicotiana*. I. Interspecific crosses. *Zuchter. Genet. Breed. Res.* 37(4):188-191. Ref. July 17,1967. 442.8 Z8  
Includes *N. tabacum* and other spp.
- 68845 MEYER, H. Experiments on the induction of pollen sterility in self-fertilizing spring barley, spring wheat, and oats. (Ge) *Zuchter. Genet. Breed. Res.* 37(6):286-298. Ref. Oct.24,1967. 442.8 Z8  
English summary.  
Using maleic hydrazide, and Omnidel, and other probable gametocides.
- 68846 MISHKIN, S. L. Genetic and cytological studies of a linked suppressor of the B-incompatibility factor and a haploid fruiting phenomenon in *Schizophyllum commune*. *Diss. Abstr.*, Sect. B, 28(6):2273B-2274B. Dec.1967. Z5055.U49D53
- 68847 MOCHIZUKI, N., and OKUNO, T. Classification of maize lines collected from Shikoku, Japan, and selection of breeding materials by the application of the principal component analysis. (Ja) *Jap. J. Breeding* 17(4):39-47. Ref. Dec. 1967. 64.8 J27  
English summary.  
Electronic computer analysis.
- 68848 MOLL, R. H., and ROBINSON, H. F. Quantitative genetic investigations of yield of maize. *Zuchter. Genet. Breed. Res.* 37(4):192-199. Ref. July 17,1967. 442.8 Z8
- 68849 MONTI, L. M. Mutations in peas induced by diethylsulphate and X-rays. *Mutation Res.* 5(1):187-191. Ref. Jan./Feb.1968. 443.8 M98
- 68850 MORISHIMA, H., OKA, H., and CHANG, T. T. Analysis of genetic variations in plant type of rice. 2. Seasonal change in genetic plant type. *Jap. J. Breeding* 17(4):7-17. Dec.1967. 64.8 J27
- 68851 MOTOYOSHI, F. Chlorophyll formation in several chlorophyll mutants of sand oats and barley cultured on nutrient media. *Jap. J. Genet.* 42(5):291-297. Ref. Oct.1967. 442.9 J27
- 68852 MULLER, H. W. A contribution to selection for sprouting resistance, especially in rye. (Ge) *Zuchter. Genet. Breed. Res.* 37(6):276-281. Ref. Oct.24,1967. 442.8 Z8  
English summary.
- 68853 MUMM, R. F. A comparison of genetic variances and estimated response to selection between the irradiated and non-irradiated groups in tow inbred lines of maize. *Diss. Abstr.*, Sect. B, 28(6):2229B-2230B. Dec.1967. Z5055.U49D53
- 68854 MURRAY, N. E. Polarized intragenic recombination in chromosome rearrangements of *Neurospora*. *Genetics* 58(2):181-191. Ref. Feb. 1968. 442.8 G28
- 68855 MUSHKOV, A. S. The All-Union Institute of Plant Breeding and Genetics [*Vsesoyuznyi Selektionno-Geneticheskii Institut*]. (Rus) *Vestnik Sel'skokhoz. Nauk.* [Moscow] 11:95-99. Nov.1967. 20 V633  
Activities.
- 68856 NELSON, O. E. Biochemical genetics of higher plants. *Annu. Rev. Genet.* 1:245-268. 1967. QH431.A1A5  
Review of the literature.
- 68857 NGA, B. H., and ROPER, J. A. Quantitative intrachromosomal changes arising at mitosis in *Aspergillus nidulans*. *Genetics* 58(2):193-209. Ref. Feb.1968. 442.8 G28
- 68858 PAPATHANASIOU, G. A. The cytoplasmic male sterile restorer gene system in conjunction with reciprocal translocations for chromosome analysis of *Sorghum vulgare* Pers. *Diss. Abstr.*, Sect. B, 28(6):2230B. Dec.1967. Z5055.U49D53
- 68859 PARKER, R. J. Genetic correlation and response to selection in simulated populations. *Diss. Abstr.*, Sect. B, 28(6):2200B-2201B. Dec.1967. Z5055.U49D53  
Plants.
- 68860 RAO, R. N., and NATARAJAN, A. T. Somatic association in relation to chemically induced chromosome aberrations in *Vicia faba*. *Genetics* 57(4):821-835. Ref. Dec.1967. 442.8 G28  
Induced by alkylating agents.
- 68861 RATNAKUMAR, V. S. Genetics of mating and drug tolerance in *Didymium iridis*. *Diss. Abstr.*, Sect. B, 28(6):2275B. Dec.1967. Z5055.U49D53
- 68862 REBER, G. Unusual variation in *Phaseolus vulgaris*. *Australian J. Exp. Agr. Anim. Husb.* 7(27):377-379. Aug.1967. 23 Au792  
Probable mutation connected with color.
- 68863 RILEY, R., and CHAPMAN, V. Effect of 5B<sup>s</sup> in suppressing the expression of altered dosage of 5B<sup>L</sup> on meiotic chromosome pairing in *Triticum aestivum*. *Nature* 216(5110):60-62. Oct.7,1967. 472 N21
- 68864 ROBISON, N. G. Genetic variance estimates from different mating systems in a variety of corn (*Zea mays* L.). *Diss. Abstr.*, Sect. B, 28(6):2214B. Dec.1967. Z5055.U49D53
- 68865 ROBSON, D. S., POWERS, L., and URQUHART, N. S. The proportion of genetic deviates in the tails of a normal population. *Zuchter. Genet. Breed. Res.* 37(4):205-216. July 17,1967. 442.8 Z8  
Plants.
- 68866 ROLLINS, R. C. The evolutionary fate of inbreeders and nonsexuals. *Amer. Natur.* 101(920):343-351. Ref. July/Aug.1967. 470 Am36
- 68867 ROO, R. DE. The induction and detection of tetraploidy in chicory (*Cichorium intybus* L.). (Fr) *Rev. Agr.* [Brussels] 20(9):1275-1280. Sept.1967. 13 R322  
English summary.
- 68868 ROSAS, G. S. Natural hybridization of soybeans (*Glycine max* L.) in Pergamino, Argentina. (Sp) *Turrialba* 17(3):300-303. July/Sept.1967. 8 T86  
English summary.

- 68869 SARKISSIAN, I. V., and SRIVASTAVA, H. K. Mitochondrial polymorphism in maize. II. Further evidence of correlation of mitochondrial complementation and heterosis. *Genetics* 57 (4):843-850. Dec.1967. 442.8 G28
- 68870 SAVAGE, J. R. K., PRESTON, R. J., and NEARY, G. J. Chromatid aberrations in *Tradescantia bracteata* and a further test of Revell's hypothesis. *Mutation Res.* 5(1):47-56. Ref. Jan./Feb.1968. 443.8 M98
- 68871 SCOTT, D. The additive effect of X-rays and maleic hydrazide in inducing chromosomal aberrations at different stages of the mitotic cycle in *Vicia faba*. *Mutation Res.* 5(1):65-92. Ref. Jan./Feb.1968. 443.8 M98
- 68872 EL-SHAFFIE, M. W., and DAVIS, G. N. Inheritance of bulb color in the onion (*Allium cepa* L.). *Hilgardia* 38(17):607-622. Ref. Dec.1967. 100 C12H
- 68873 SHIKATA, M. An effect of interference of cross-overs on inbreeding coefficient in selfed populations. *Jap. J. Breeding* 17(4):1-6. Dec. 1967. 64.8 J27  
Electronic digital computer research on plants and animals.
- 68874 SHORTESS, D. K., WRIGHT, J. E., and BELL, W. D. The lutescent mutant in maize. I. Inheritance patterns and environmental effects. *Genetics* 58(2):227-235. Ref. Feb.1968. 442.8 G28
- 68875 SHUMAKER, J. R. Maternal and genic-cytoplasmic differences in reciprocally crossed tomatos. *Diss. Abstr., Sect. B*, 28(6):2216B. Dec.1967. Z5055.U49D53
- 68876 SMITH-WHITE, S. *Brachycome lineariloba*: a species for experimental cytogenetics. *Chromosoma* 23(3):359-364. Feb.12,1968. 442.8 C46
- 68877 SPRAGUE, G. F. Plant breeding. *Annu. Rev. Genet.* 1:269-294. 1967. QH431.A1A5 3-2223  
Review of the literature.
- 68878 STADLER, D. R. Suppressors of amino acid uptake mutants of *Neurospora*. *Genetics* 57 (4):935-942. Dec.1967. 442.8 G28
- 68879 SZOPKO, M. The role of cytoplasmic male-sterility in the evolution of corn as well as the mutual effects of cytoplasm and nucleus. (Hu) *Agrartud. Kozlem.* 26(3/4):459-463. 1967. 19 B855
- 68880 TARUMOTO, I., and OIZUMI, H. Studies of forage sorghum breeding. II. The characteristics of male-sterile strains. (Ja) *Jap. J. Breeding* 17(4):32-38. Dec.1967. 64.8 J27  
English summary.
- 68881 THEIN, M. M. Electrophoretic studies on the genomic groups and the origin of the tetraploid species of *Gossypium*. *Diss. Abstr., Sect. B*, 28(6):2288B. Dec.1967. Z5055.U49D53
- 68882 UPADHYA, M. D. Meiotic behaviour of aberrant hypoploid microsporocytes in *Triticum zhukovskiy* Men. et Er. *Cur. Sci.* 36(15):394-395. Aug.5,1967. 475 Sci23
- 68883 UPADHYAYA, R. B. Heterosis and combining ability in barley. *Diss. Abstr., Sect. B*, 28(6):2275B-2276B. Dec.1967. Z5055.U49D53
- 68884 VINKLER, G. N., ZAPROMETOV, M. N., and SHCHERBAKOV, V. K. Genetic activity of catechin isolated from the tea-plant. (Rus) *Akad. Nauk SSSR. Dokl.* 177(3):699-702. Ref. 1967. 511 P444A  
Tested on *Allium fistulosum*.
- 68885 WAGNER, J. H., and others. The influence of pH on the biological changes induced by ethyleneimine in barley. *Mutation Res.* 5(1):57-64. Ref. Jan./Feb.1968. 443.8 M98  
M. M. Nawar, C. F. Konzak, and R. A. Nilan, joint authors.
- 68886 WEBER, D. F. On the interaction of nonhomologous segments of chromosomes in *Zea mays*. *Diss. Abstr., Sect. B*, 28(6):2276B. Dec.1967. Z5055.U49D53
- 68887 WHITED, D. A. Biochemical and histological properties associated with genetic male sterility at the MS locus in barley, *Hordeum vulgare* L., emend. *Lam. Diss. Abstr., Sect. B*, 28(6):2276B-2277B. Dec.1967. Z5055.U49D53
- 68888 WILSENACH, R. Flower colour inheritance in *Cosmos bipinnatus*. *S. Afr. J. Sci.* 63(8):339-342. Aug.1967. 515 So84
- 68889 WOOD, S., and KAUFER, E. Twin spots as evidence for mitotic crossing-over in *Aspergillus* induced by ultra-violet light. *Nature* 216(5110):63-64. Oct.7,1967. 472 N21

## PHYSIOLOGY AND BIOCHEMISTRY

- 68890 ABELES, F. B. Mechanism of action of abscission accelerators. *Physiol. Plant.* 20(2):442-454. Ref. 1967. 450 P564  
Chiefly relation to ethylene production and effects of auxins.
- 68891 ADACHI, O., YAMADA, H., and OGATA, K. Studies on the extraction of amine oxidase of *Aspergillus niger* by surface-active agents. (Ja) *Agr. Chem. Soc. Jap. J.* 41(9):459-464. 1967. 385 Ag8  
English summary.
- 68892 ALBERGHINA, F. A. M., and SUSKIND, S. R. Ribosomes and ribosomal protein from *Neurospora crassa*. *J. Bacteriol.* 94(3):630-649. Ref. Sept.1967. 448.3 J82
- 68893 ALLESSIO, M. L. Dormancy and germination in achenes of *Polygonum bistortoides* Pursh. *Diss. Abstr., Sect. B*, 28(3):799B. Sept.1967. Z5055.U49D53
- 68894 ALLSOPP, A. Heteroblastic development in vascular plants. *Advance. Morphogenesis* 6:127-171. Ref. 1967. 450 Ad9
- 68895 AMBRUS, G., and WIX, GY. Transformation of steroids by *Absidia orchidis*, I. Hydroxylation of androst-4-ene-3,17-dione. *Anal. Chim. Acta* 55(1):99-105. Ref. 1968. 381 An1
- 68896 ANDREAE, W. A. Uptake and metabolism of indoleacetic acid, naphthaleneacetic acid, and 2,4-dichlorophenoxyacetic acid by pea root segments in relation to growth inhibitors during and after auxin application. *Can. J. Bot.* 45(5):737-753. Ref. May 1967. 470 C16C
- 68897 APEL, I. P. Cyclic changes in the carbon dioxide uptake by leaves. (Ge) *Deut. Bot. Ges. Ber.* 80(1):3-9. Ref. 1967. 451 D48
- 68898 ARNDT, K. Laboratory method to determine root-growth limiting reduction zones in soils. (Ge) *Albrecht-Thaer-Arch.* 11(8):705-718. Ref. 1967. 18 AL1  
English summary.  
With reference to oxidation-reduction potential in soils.
- 68899 ARNDT, R. R., and others. Alkaloid studies. LVIII. The alkaloids of six *Aspidosperma* species. *Phytochemistry* 6(12):1653-1658. Ref. Dec.1967. 450 P5622  
S. H. Brown, N. C. Ling, P. Roller, C. Djerassi, J. M. Ferreira, B. Gilbert, E. C. Miranda, S. E. Flores, A. P. Duarte, and E. P. Carrazzoni, joint authors.
- 68900 AVRON, M. Mechanism of photoinduced electron transport in isolated chloroplasts. *Curr. Top. Bioenerg.* 2:1-22. 1967. QH511.S2  
Review of the literature.
- 68901 BALDREY, C. W., COCKBURN, W., and WALKER, D. A. Inhibition, by sulphate, of the oxygen evolution associated with photosynthetic carbon assimilation. *Biochim. Biophys. Acta* 153(2):476-483. Ref. Feb.12,1968. 381 B522
- 68902 BALDWIN, E. H. F. Dynamic aspects of biochemistry. Ed. 5. London, Cambridge University Press, 1967. 465 p. QH345.B33 1967  
Includes plants.
- 68903 BARBALIC, L. The effects of volatile oils on higher plants. (Ge) *Qualitas Plant. Mater. Veg.* 15(2):136-153. Ref. Oct.15,1967. 64.8 M41  
English summary.
- 68904 BARTH, A., and HOFFMAN, K. 4-(Phenylazo)-phenyl-amino acid derivatives. XVIII. (Ge) *Flora Abt. A, Physiol. Biochem.* 158(1):114-118. 1967. QK710.F5  
English summary.  
Proteolytic activity in plants.
- 68905 BASTARD, C., and PELLEGRINI, M. Chemical study of *Rissoella verruculosa* (Bertolini) J. Agardh. (Fr) *Qualitas Plant. Mater. Veg.* 15(2):123-135. Ref. Oct.15,1967. 64.8 M41  
English summary.  
Amino acids, lysine and methionine.



- 68906 BASTIN, R. *Traite de physiologie vegetale* [Treatise on plant physiology]. Paris, Blanchard, 1967. 587 p. QK711.B32  
Bibliography, p.549-556.
- 68907 BATEY, T. The ratio of K to Mg in the soil in relation to plant growth. *Great Brit. Min. Agr. Fish. Food. Tech. Bull.* 14:143-146. 1967. 10 G79T  
Review of the literature.
- 68908 \*BELL, L. N., and others. Photoenergetics of a synchronous *Chlorella* [pyrenoidosa] culture. *Soviet Plant Physiol.* 14(5):726-730. Ref. Sept./Oct.1967, pub.1968. 450 F58Ae  
E. A. Lin'kova, G. A. Slobodskaya, K. S. Spectarov, E. P. Federko, and G. S. Bukina, joint authors.  
Translation from *Fiziologiya Rastenii*.
- 68909 BENDZ, G., and HAGLUND, A. The anthocyanins of the berries of *Majanthemum bifolium*. *Acta Chem. Scand.* 21(8):2287-2288. 1967. 385 Ac82
- 68910 BENKO, P. V., WOOD, T. G., and SEGEL, I. H. Specificity and regulation of methionine transport in filamentous fungi. *Arch. Biochem. Biophys.* 122(3):783-804. Ref. Dec.1967. 381 Ar2
- 68911 BENNOUN, P., and LEVINE, R. P. Detecting mutants that have impaired photosynthesis by their increased level of fluorescence. *Plant Physiol.* 42(9):1284-1287. Sept.1967. 450 P692  
*Chlamydomonas reinhardtii*.
- 68912 BERRY, W. L., and THOMSON, W. W. Composition of salt secreted by salt glands of *Tamarix aphylla*. *Can. J. Bot.* 45(9):1774-1775. Sept.1967. 470 C16C
- 68913 BETINA, V. Identification of antibiotics in crude materials. *Intersci. Conf. Antimicrobial Agents Chemotherap. Proc., 6th Conf.*: 637-643. Ref. 1966. 448.9 In88  
From fungi.
- 68914 BHATNAGAR, A. S., and others. Glycosides and aglycons. 304. The pregnane derivatives of seeds of *Dregea abyssinica* (Hochst.) K. Schum. (Asclepiadaceae). I-II. (Ge) *Helv. Chim. Acta* 51(1):117-147. Ref. Jan.31,1968. 385 H36  
H. Kaufmann, W. Stocklin, and T. Reichstein, joint authors.  
English summary.
- 68915 BIDWELL, R. G. S. Photosynthesis and metabolism in marine algae. VII. Products of photosynthesis in fronds of *Fucus vesiculosus* and their use in respiration. *Can. J. Bot.* 45(9): 1557-1565. Ref. Sept.1967. 470 C16C
- 68916 BIEBL, R. Temperature resistance of tropical musci from primeval forests. (Ge) *Flora Abt. B, Morphol. Geobot.* 157(1):25-30. Ref. 1967. QK641.A1F5
- 68917 BILLINGS, W. D., and GODFREY, P. J. Photosynthetic utilization of internal carbon dioxide by hollow-stemmed plants. *Science* 158(3797): 121-123. Oct.6,1967. 470 Sci2  
Chiefly by *Mertensia ciliata*.
- 68918 BLACK, M. Arctic lupins bloom after 10,000 years. *New Sci.* 36(567):148-149. Oct.19,1967. 472 N42
- 68919 BLAIM, K., Quaternary ammonium compounds and their biological significance. (Pol) *Postępy Nauk Roln. (n.s.)* 14(2):53-63. Ref. 1967. 20.5 P84  
Chemistry; includes use as plant growth substance.
- 68920 BLEIWEIS, A. S., REEVES, H. C., and AJL, S. J. Formation of alpha-hydroxyglutaric acid by *Aspergillus glaucus*. *J. Bacteriol.* 94(5): 1560-1564. Ref. Nov.1967. 448.3 J82
- 68921 BLINCHEVSKII, M. Nutrient solution for plants as soil substitutes. (Rus) *Zemledelie* 2:47-48. Feb.1968. 20 Z44  
Hydroponics in the USSR.
- 68922 BLOOM, W. W., and NICHOLS, K. E. Some responses by members of the Marsileaceae grown under field conditions. *Ind. Acad. Sci. Proc.* 76:215-216. 1966, pub.1967. 500 In2  
Light effects on Marsilea and *Regnellidium diphyllum*.
- 68923 BOHLMANN, F., and ZDERO, C. Isolation of (-)- $\alpha$ -santalal from *Piqueria trinerva*. (Ge) *Tetrahedron Lett.* 12:1533-1535. Feb.1968. 385 T29
- 68924 BOHM, B. A., and TRYON, R. M. Phenolic compounds in ferns. I. A survey of some ferns for cinnamic acid and benzoic acid derivatives. *Can. J. Bot.* 45(5):585-593. Ref. May 1967. 470 C16C
- 68925 BOHUS, G. The utilization of L-sorbose by *Agaricus macrosporus* (Moell. et J. Schaeff.) Pilat. *Acta Biol. [Budapest]* 18(4):387-401. Ref. 1967. 475 Ac85
- 68926 BOUND, K. E., and TOLLIN, G. Phototactic response of *Euglena gracilis* to polarized light. *Nature* 216(5119):1042-1043. Ref. Dec.9,1967. 472 N21
- 68927 BOWMAN, R. D. The changes of the lipids in *Pythium ultimum* with age and temperature. *Diss. Abstr., Sect. B*, 28(6):2298B-2299B. Dec.1967. Z5055.U49D53
- 68928 BOYER, P. D.  $^{18}\text{O}$  and related exchanges in enzymic formation and utilization of nucleoside triphosphates. *Curr. Top. Bioenerg.* 2:99-149. 1967. QH511.S2  
Review of the literature.  
Includes chloroplasts.
- 68929 BRADY, R. J., and CHAMBLISS, G. H. The lack of phosphofructokinase activity in several species of *Rhodotorula*. *Biochem. Biophys. Res. Commun.* 29(6):898-903. Ref. Dec.29, 1967. 442.8 B5236  
Erratum: Volume 29, No. 3, 1967: The article on pages 343-348 was printed incorrectly; the corrected version is shown above.
- 68930 BRAUN, R. Separation of bases, nucleosides and nucleotides on Sephadex G-10. *Biochim. Biophys. Acta* 142(1):267-270. June 20,1967. 381 B522  
Stemming from a study of the ribonuclease from *Physarum polycephalum*.
- 68931 BRAUNER, L., and DIEMER, R. The influence of growth substances on the development of bioelectric potentials in plant tissues. (Ge) *Planta* 77(1):1-31. Ref. 1967. 450 P693  
English summary.  
*Helianthus annuus*, *Zea mays*, and *Vicia faba* seedlings.
- 68932 BRUCE, D. L., DUFF, D. C. B., and ANTIA, N. J. The identification of two antibacterial products of the marine planktonic alga *Isochrysis galbana*. *J. Gen. Microbiol.* 48(2):293-298. Ref. Aug.1967. 448.3 J823
- 68933 BRUENING, G., and BOCK, R. M. Covalent integrity and molecular weights of yeast ribosomal ribonucleic acid components. *Biochim. Biophys. Acta* 149(2):377-386. Ref. Dec.19, 1967. 381 B522
- 68934 BURDEN, R. S., CROMBIE, L., and WHITING, C. A. Extractives of *Heliopsis scabra*: structure and stereochemistry of two new lignans. *Tetrahedron Lett.* 9:1035-1039. Feb.1968. 385 T29
- 68935 BURR, A. H. The luminometer: a sensitive instrument for measuring low amounts of oxygen, and some applications to problems involving the measurement of photosynthesis. *Diss. Abstr., Sect. B*, 28(3):1129B-1130B. Sept.1967. Z5055.U49D53
- 68936 BURT, G. W. Action mechanisms of 3-amino-1,2,4-triazole in *Cirsium arvense*. *Diss. Abstr., Sect. B*, 28(6):2225B-2226B. Dec.1967. Z5055.U49D53
- 68937 CAREFOOT, T. H. Growth and nutrition of *Aplysia punctata* feeding on a variety of marine algae. *Mar. Biol. ASS. UK. J.* 47(3):565-589. Ref. 1967. 442.9 M331  
Includes biochemistry of the seaweeds.
- 68938 CECI, J. Plant agglutinins, little known biologically active elements of plants. (Cz) *Ziva* 15(1):5-7. Jan.1967. 409.6 Z6
- 68939 CERNA, J., and MUSILEK, V. Enzymatic activity in Basidiomycetes. I. Submerged growth and oxidation-reduction activity of *Oudemansiella mucida*. *Folia Microbiol.* 12(6):508-514. Ref. 1967. 448.3 C332

- 68940 CERQUIGLINI, S., and others. On the origin of electrical effects produced by stress in the hard tissues of living organisms. *Life Sci.* 6(24,pt.2):2651-2660. Ref. Dec.15,1967. 442.8 L62  
M. Cignitti, M. Marchetti, and A. Salleo, joint authors.  
Whole living plant, *Aralia elegantissima*, and livestock bones.
- 68941 CERVIGNI, T., CASERTA, G., and BASSANELLI, C. Preliminary investigations on thermoluminescence and radiosensitivity in seeds. *Radiat. Bot.* 8(1):71-79. Ref. Feb.1968. 450 R11
- 68942 CHAILAKHYAN, M. KH., and KOCHANKOV, V. G. Influence of retardants on the growth and flowering of plants. *Soviet Plant Physiol.* 14(5):652-660. Ref. Sept./Oct.1967, pub.1968. 450 F58Ae  
Translation from *Fiziologiya Rastenii*.
- 68943 CHANG, M. L., and HSU, H. Y. Insect hormones. V. The structures of ponasterones B and C. *Tetrahedron Lett.* 9:1105-1110. Ref. Feb.1968. 385 T29  
From *Podocarpus nakaii*.
- 68944 CHANG, Y., and HUDSON, H. J. The fungi of wheat straw compost. I-II. *Brit. Mycol. Soc. Trans.* 50(4):649-677. Ref. Dec.1967. 451 B76  
Physiological and biochemical study.
- 68945 CHARLTON, J. M., TREHARNE, K. J., and GOODWIN, T. W. Incorporation of [2-<sup>14</sup>C] mevalonic acid into phytoene by isolated chloroplasts. *Biochem. J.* 105(1):205-212. Ref. Oct.1967. 382 B52
- 68946 CHAU, Y. K., CHUECAS, L., and RILEY, J. P. The component combined amino acids of some marine phytoplankton species. *Mar. Biol. ASS. UK. J.* 47(3):543-554. Ref. 1967. 442.9 M331
- 68947 CHEN, Y. H., LIAO, F., and CHEN, F. C. Isolation of myricetin. (Ch) *Formosan Sci.* 21(2):62-63. 1967. 475 F76  
English summary.  
From *Myrica rubra*.
- 68948 CHEUNG, M., and SATTLER, R. Early floral development of *Lythrum salicaria*. *Can. J. Bot.* 45(9):1609-1618. Ref. Sept.1967. 470 C16C
- 68949 CHOPRA, R. N., and GUPTA, U. Dark-induction of buds in *Funaria hygrometrica* Hedw. *Bryologist* 70(1):102-104. Ref. Spring 1967. 450 B84
- 68950 CHOUDHURI, G. N. Effects of salinity on germination of seeds and on young plants. *Diss. Abstr.*, Sect. B, 28(6):2279B-2280B. Dec.1967. Z5055.U49D53
- 68951 COCHRAN, K. W., NISHIKAWA, T., and BENKE, E. S. Botanical sources of influenza inhibitors. *Intersci. Conf. Antimicrobial Agents Chemotherap. Proc.*, 6th Conf.:515-520. Ref. 1966. 448.9 I n88  
Virucides.
- 68952 COCKBURN, W., BALDRY, C. W., and WALKER, D. A. Some effects of inorganic phosphate on O<sub>2</sub> evolution by isolated chloroplasts. *Biochim. Biophys. Acta* 143(3):614-624. Ref. Nov.7,1967. 381 B522
- 68953 COLLIER, A. Fatty acids in certain plankton organisms. *Conf. Estuaries. Papers* 1964:353-360. 1967. QH91.A3C6 1964
- 68954 COMMONWEALTH BUR. OF SOILS. Bibliography on aluminium in plant nutrition (1967-1960). *Commonwealth Bur. Soils [Annot. Bibliogr.]* 1170,15 p. 1967. 241 C734A
- 68955 COMMONWEALTH BUR. OF SOILS. Bibliography on chlorine in plant nutrition (1967-1956). *Commonwealth Bur. Soils [Annot. Bibliogr.]* 1178,23 p. 1967. 241 C734A
- 68956 COMMONWEALTH BUR. OF SOILS. Bibliography on determination of moisture requirements of crops (1967-1963). *Commonwealth Bur. Soils [Annot. Bibliogr.]* 1169,12 p. 1967. 241 C734A
- 68957 COMMONWEALTH BUR. OF SOILS. Bibliography on effects of fertilizers on water use by plants (1967-1960). *Commonwealth Bur. Soils [Annot. Bibliogr.]* 1167,19 p. 1967. 241 C734A
- 68958 COMMONWEALTH BUR. OF SOILS. Bibliography on iron nutrition of plants (1967-1960). *Commonwealth Bur. Soils [Annot. Bibliogr.]* 1146,30 p. 1967. 241 C734A
- 68959 COMMONWEALTH BUR. OF SOILS. Bibliography on magnesium in soil and plant nutrition (1967-1963). *Commonwealth Bur. Soils [Annot. Bibliogr.]* 1174,26 p. 1967. 241 C734A
- 68960 COMMONWEALTH BUR. OF SOILS. Bibliography on potassium-iron interactions in plant nutrition and in soils (1966-1956). *Commonwealth Bur. Soils [Annot. Bibliogr.]* 1173,6 p. 1967. 241 C734A
- 68961 COMMONWEALTH BUR. OF SOILS. Bibliography on potassium uptake and metabolism in plants (1967-1963). *Commonwealth Bur. Soils [Annot. Bibliogr.]* 1172,20 p. 1967. 241 C734A
- 68962 CONFERENCE ON ESTUARIES, JEKYLL ISLAND, 1964. *Estuaries [papers]* edited by G. H. Lauff. Washington, 1967. 757 p., map. Ref. (American Association for the Advancement of Science. Publication No.83). QH91.A3C6 1964  
Includes phytoplankton, algae, and peat soils.
- 68963 COOK, G. D. An analytical and experimental study of heat transfer and transpiration from a leaf. *Diss. Abstr.*, Sect. B, 28(3):2410B. Dec. 1967. Z5055.U49D53
- 68964 CRAIGIE, J. S., and GRUENIG, D. E. Bromophenols from red algae. *Science* 157(3792):1058-1059. Ref. Sept.1,1967. 470 Sci2  
In *Odonthalia dentata* and *Rhodomela confervoides*.
- 68965 CULBERSON, C. F. Some microchemical tests for two new lichen substances, scrobiculin and 4-methylphysodic acid. *Bryologist* 70(1):70-75. Spring 1967. 450. B84
- 68966 CULVENOR, C. C. J., and SMITH, L. W. The alkaloids of *Cynoglossum australe* R.Br. and *C. amabile* Stapf & Drummond. *Australian J. Chem.* 20(11):2499-2503. Ref. Nov.1967. 475 Au73
- 68967 CURRENT topics in bioenergetics, Volume 2, edited by D. R. Sanadi. *Curr. Top. Bioenerg.* 2,373 p. 1967. QH511.S2  
Review of the literature.  
Includes plants and insects.
- 68968 DAS, N. P., and GRIFFITHS, L. A. Studies on flavonoid metabolism: Biosynthesis of (-)-[<sup>14</sup>C] catechin by the plant *Uncaria gambir* Roxb. *Biochem. J.* 105(1):73-77. Ref. Oct.1967. 382 B52
- 68969 DATTA, R. M., and CHOUDHURY, P. C. Comparative studies on the rates of pollen tube growth of some species of *Crotalaria* and *Sesbania*. *Biologia [Bratislava]* 22(1):34-38. Ref. 1967. 442.8 B5265
- 68970 DEYSSON, G. Physiologie et biologie des plantes vasculaires [Physiology and biology of vascular plants]. Pt.1-2. New ed., completely rev. Paris, Societe d'Edition d'Enseignement Supérieur, 1966-67. 2 v. Ref. (Bach, D., Mascré, M., and Deysson, G. *Cours de botanique generale*, v.3) 463 B12  
Contents: 1, Nutrition et metabolisme; 2, Croissance, reproduction, ecologie, phytopathologie.
- 68971 DONINI, B., and others. The relative biological efficiency of gamma rays and fission neutrons in plant species with different nuclear and chromosome volumes. *Radiat. Res.* 32(4):692-705. Ref. Dec.1967. 334.8 R11  
A. H. Sparrow, L. A. Schairer, and R. C. Sparrow, joint authors.
- 68972 DRING, M. J. Effects of daylength on growth and reproduction of the conchocelis-phase of *Porphyra tenera*. *Mar. Biol. ASS. UK. J.* 47(3):501-510. Ref. 1967. 442.9 M331
- 68973 DUBASH, P. J., and REGE, D. V. Chlorophyll formation in *Euglena gracilis* var. *bacillaris*: interference by analogues of purines, pyrimidines and amino acids. *J. Gen. Microbiol.* 48(2):283-292. Ref. Aug.1967. 448.3 J823
- 68974 DUGDALE, V. A. Inorganic nitrogen metabolism and phytoplankton primary productivity in a subarctic lake. *Diss. Abstr.*, Sect. B, 28(3):800B-801B. Sept.1967. Z5055.U49D53



- 68975 DUMITRU, GH., and others. Cs137 radio-active contamination in various plants. (Rum) Bucharest. Inst. Agron. "N. Balcescu." Lucrari Stiint. Ser. C, 9:569-574. 1966, pub. 1967. 49.9 B583  
Gh. Furnica, C. Chiotan, V. Labrino, and I. Risavi, joint authors.  
English summary.
- 68976 DUNNILL, P. M., and FOWDEN, L. The amino acids of the genus *Astragalus*. *Phytochemistry* 6(12):1659-1663. Ref. Dec.1967. 450 P5622
- 68977 EBRINGER, L., MEGO, J. L., and PODOVA, G. Reversal of streptomycin bleaching of *Euglena gracilis* by mutagenic concentrations of hydroxylamine. *Biochem. Biophys. Res. Commun.* 29(4):571-575. Ref. Nov.30,1967. 442.8 B5236
- 68978 EDELMAN, M., and others. Deoxyribonucleic acid of the blue-green algae (Cyanophyta). *Bacteriol. Rev.* 31(4):315-331. Dec.1967. 448.3 B13  
D. Swinton, J. A. Schiff, H. T. Epstein, and B. Zeldin, joint authors.  
Review of the literature.
- 68979 ELLIOTT, R. F. Effects of kinetin and related compounds on growth and sexual reproduction of *Saprolegnia australis*. *Planta* 77(2):164-175. Ref. 1967. 450 P693
- 68980 EPSTEIN, H. T., and ALLAWAY, E. Properties of selectively starved *Euglena*. *Biochim. Biophys. Acta* 142(1):195-207. Ref. June 20, 1967. 381 B522
- 68981 ERBERSDOBLER, H., and BOCK, G. Methyl mercaptan and hydrogen sulfide, odor substances of *Phallus impudicus*. (Ge) *Naturwissenschaften* 54(24):648. Dec.15,1967. 474 N213
- 68982 ERIKSSON, T. Duration of the mitotic cycle in cell cultures of *Haplopappus gracilis*. *Physiol. Plant.* 20(2):348-354. Ref. 1967. 450 P564  
Tested with tritiated thymidine.
- 68983 EYSTER, C., and WOODRUFF, M. N. Effect of light and carbon dioxide on the loss of manganese from *Chlorella* cells. *Ohio J. Sci.* 67(4):224-227. July 1967. 410 Oh3
- 68984 FAVREAU, G., and RAYMOND, Y. Preliminary study of pigments in flowering tops of *Anaphalis margaritacea* L. (Fr) *Natur. Can.* 94(4,i.e.1):63-71. Ref. Jan./Feb.1967. 410 N216
- 68985 FAY, P., and COX, R. M. Oxygen inhibition of nitrogen fixation in cell-free preparations of blue-green algae. *Biochim. Biophys. Acta* 143(3):562-569. Ref. Nov.7,1967. 381 B522
- 68986 FEINLEIB, M. E. H., and CURRY, G. M. Methods for measuring phototaxis of cell populations and individual cells. *Physiol. Plant.* 20(4):1083-1095. Ref. 1967. 450 P564  
*Chlamydomonas*.
- 68987 FIFTY years of Soviet plant physiology (1917-1967). *Soviet Plant Physiol.* 14(5):645-651. Sept./Oct.1967, pub.1968. 450 F58Ae  
Translation from *Fiziologiya Rastenii*.
- 68988 FINKLE, B. J. Patterns of phenolic mediation in plants and animals. In Finkle, B. J., and Runeckles, V. C., ed. *Phenolic compounds and metabolic regulation*, p.2-24. Ref. 1967. QH521.F5
- 68989 FINKLE, B. J., and RUNECKLES, V. C. Phenolic compounds and metabolic regulation. New York, Appleton, 1967. 157 p. QH521.F5  
Written under the auspices of the Plant Phenolic Group of North America.  
Review of the literature.
- 68990 FISCHER, R. G., and others. The electroanalysis of *Anabaena flos-aquae* A-37. *Biochim. Biophys. Acta* 156(2):403-406. Mar.11,1968. 381 B522  
C. D. Bostwick, J. C. Mickelson, and L. R. Brown, joint authors.
- 68991 FISSCHER, R. F. Phenological research in 1965. (Du) *Landbouwkundig Tijdschr.* 79(7):229-234. July 1967. 105.2 Or3  
Weather and crops.
- 68992 FOLKERS, K. Research on coenzyme Q. In Finkle, B. J., and Runeckles, V. C., ed. *Phenolic compounds and metabolic regulation*, p.94-119. 1967. QH521.F5  
Review of the literature.  
Includes plants.
- 68993 FOPPEN, F. H., and GRIBANOVSKI-SASSU, O. Lipids produced by *Epicoccum nigrum* in submerged culture. *Biochem. J.* 106(1):97-100. Ref. Jan.1968. 382 B52
- 68994 FOSTER, L. B. Testosterone-induced metabolic alterations in *Aspergillus niger*. Diss. Abstr., Sect. B, 28(6):2303B. Dec.1967. Z5055.U49D53
- 68995 FOUNTAIN, P. J. The Evapo-transpiration Service 1966-67. *Tasmanian J. Agr.* 38(4):315-317. Nov.1967. 23 T182T  
Tasmania Department of Agriculture and Australia Commonwealth Bureau of Meteorology, joint sponsors.
- 68996 FULLER, W. H. A method for determining the cumulative germination of spores over a period of time. *Can. J. Bot.* 45(9):1775-1776. Sept. 1967. 470 C16C
- 68997 GANGULY, J., and MURTHY, S. K. Biogenesis of vitamin A and carotene. In Sebrell, W. H., and Harris, R. S., ed. *The vitamins*, v.1, ed.2, p.125-153. 1967. QP801.V5S4 1967  
Review of the literature.  
In plants.
- 68998 GARBER, K. Fluorine content of plants. (Ge) *Qualitas Plant. Mater. Veg.* 15(1):29-35. Ref. Oct.3,1967. 64.8 M41  
English summary.
- 68999 GAUDET, J. J., and KOH, D. V. Effect of various growth regulators on *Salvinia rotundifolia* in sterile culture. *Torrey Bot. Club Bull.* 95(1):92-102. Ref. Jan./Feb.1968. 451 T63B  
Naphthaleneacetic acid, 2,4-D, and gibberellic acid.
- 69000 GEISSMAN, T. A., and MUKHERJEE, R. Sesquiterpene lactones of *Encelia farinosa* Gray. *J. Org. Chem.* 33(2):656-660. Feb.1968. 381 J827
- 69001 GENKEL, P. A., SATAROVA, N. A., and TVORUS, E. K. Effect of drought on protein synthesis and the state of ribosomes in plants. *Soviet Plant Physiol.* 14(5):754-762. Ref. Sept./Oct. 1967, pub.1968. 450 F58Ae  
Translation from *Fiziologiya Rastenii*.
- 69002 GHISALBERTI, E. L., and JEFFERIES, P. R. The chemistry of the Euphorbiaceae. XVIII. Modified Beyer-15-enes from a *Beyeria lechenaultii* var. *Australian J. Chem.* 21(2):439-457. (Ref. Feb.1968. 475 Au73
- 69003 GIVAN, A. L., and LEVINE, R. P. The photosynthetic electron transport chain of *Chlamydomonas reinhardi*. VII. Photosynthetic phosphorylation by a mutant strain of *Chlamydomonas reinhardi* deficient in active P700. *Plant Physiol.* 42(9):1264-1268. Ref. Sept.1967. 450 P692
- 69004 GOLDMAN, C. R. Integration of field and laboratory experiments in productivity studies. *Conf. Estuaries. Papers* 1964:346-352. 1967. QH91.A3C6 1964  
Photosynthesis of plankton.
- 69005 GOVINDACHARI, T. R., and others. Coumarins of *Clausena dentata* (Willd.) R. and S. *Tetrahedron* 24(2):753-757. Ref. Jan.1968. 382 T29  
B. R. Pai, P. S. Subramaniam, and N. Muthukumaraswamy, joint authors.
- 69006 GOVINDJEE, Transformation of light energy into chemical energy: photochemical aspects of photosynthesis. *Crop Sci.* 7(6):551-560. Nov./Dec.1967. 64.8 C883  
Includes review of the literature.
- 69007 GRAHAM-BRYCE, I. J. The movements of potassium ions in soil in relation to their availability. *Great Brit. Min. Agr. Fish. Food. Tech. Bull.* 14:20-31. Ref. 1967. 10 G79T  
Uptake of nutrients by plants.
- 69008 GRANT, B. R. The action of light on nitrate and nitrite assimilation by the marine chlorophyte, *Dunaliella tertiolecta* (Butcher). *J. Gen. Microbiol.* 48(3):379-389. Ref. Sept.1967. 448.3 J823
- 69009 GROSS, M. G. Concentrations of minor elements in diatomaceous sediments of a stagnant fjord. *Conf. Estuaries. Papers* 1964:273-282, map. 1967. QH91.A3C6 1964  
Canada.



- 69010 GUTTES, E. W., HANAWALT, P. C., and GUTTES, S. Mitochondrial DNA synthesis and the mitotic cycle in *Physarum polycephalum*. *Biochim. Biophys. Acta* 142(1):181-194. Ref. June 20, 1967. 381 B522
- 69011 HALL, D. O., and GREENAWALT, J. W. The preparation and biochemical properties of mitochondria from *Neurospora crassa*. *J. Gen. Microbiol.* 48(3):419-430. Ref. Sept. 1967. 448.3 J823
- 69012 HAMILTON, D. H. Nutrient limitation of summer phytoplankton growth in Cayuga Lake. *Diss. Abstr.*, Sect. B, 28(6):2508B. Dec. 1967. Z5055.U49D53
- 69013 HANSON, J. B., and HODGES, T. K. Energy-linked reactions of plant mitochondria. *Curr. Top. Bioenerg.* 2:65-98. 1967. QH511.S2  
Review of the literature.
- 69014 HANSON, K. R., ZUCKER, M., and SONDHEIMER, E. The regulation of phenolic biosynthesis and the metabolic roles of phenolic compounds in plants. In Finkle, B. J., and Runeckles, V. C., ed. *Phenolic compounds and metabolic regulation*, p.68-93. Ref. 1967. QH521.F5
- 69015 HARADA, H., and NITSCH, J. P. Isolation of gibberellins A<sub>1</sub>, A<sub>3</sub>, A<sub>9</sub>, and of a fourth growth substance from *Althaea rosea* Cav. *Phytochemistry* 6(12):1695-1703. Ref. Dec. 1967. 450 P5622
- 69016 HARBORNE, J. B. Comparative biochemistry of the flavonoids. VI. Flavonoid patterns in the Bignoniaceae and the Gesneriaceae. *Phytochemistry* 6(12):1643-1651. Ref. Dec. 1967. 450 P5622
- 69017 HARDWICK, K., and WOOLHOUSE, H. W. Foliar senescence in *Perilla frutescens* (L.) Britt. *New Phytol.* 66(4):545-552. Ref. Oct. 1967. 450 N42  
Change of chlorophyll, protein and nucleic acids content.
- 69018 HARHASH, A. W. A note on the enzymes present in fungal tissue of *Fusarium moniliforme*. *Acta Biol. Med. Ger.* 18(1):121-124. Ref. 1967. QH301.A25
- 69019 HARHASH, A. W. Studies on respiration and metabolism of *Fusarium moniliforme* during starvation. *Acta Biol. Med. Ger.* 18(1):1-7. Ref. 1967. QH301.A25
- 69020 HARTMANN, W. Dormancy studies in the turions of *Utricularia minor* L., *Hydrocharis morsus-ranae* L. and *Stratiotes aloides* L. (Ge) *Deut. Bot. Ges. Ber.* 80(1):61-68. Ref. 1967. 451 D48
- 69021 HATT, H. H., and others. Acetylenic acids from fats of the Olacaceae and Santalaceae. V. *Australian J. Chem.* 20(10):2285-2289. Oct. 1967. 475 Au73  
A. Meisters, A. C. K. Triffett, and P. C. Wailes, joint authors.
- 69022 HAWKER, J. S. The activity of uridine diphosphate glucose-d-fructose 6-phosphate 2-glucosyltransferase in leaves. *Biochem. J.* 105(3):943-946. Ref. Dec. 1967. 382 B52
- 69023 HELLEBUST, J. A. Excretion of organic compounds by cultured and natural populations of marine phytoplankton. *Conf. Estuaries. Papers* 1964:361-366. 1967. QH91.A3C6 1964
- 69024 HELLYER, R. O., and LASSAK, E. V. Cyclo-colorenone in *Boronia ledifolia* Gay. *Australian J. Chem.* 20(10):2297-2298. Oct. 1967. 475 Au73
- 69025 HEM, J. D. Composition of saline residues on leaves and stems of saltcedar (*Tamarix pentandra* Pallas). *U. S. Geol. Surv. Prof. Pap.* 491-C, 9 p. 1967. 407 G29Pr
- 69026 HENNEQUIN, J. R., and JUSTE, C. Presence of free phenolic acids in the soil; investigation of their effects on germination and growth of plants. (Fr) *Ann. Agron.* 18(5):545-569. Ref., p.567-569. 1967. 14 F8499  
English summary.
- 69027 HESS, J. L., and TOLBERT, N. E. Changes in chlorophyll a/b ratio and products of <sup>14</sup>CO<sub>2</sub> fixation by algae grown in blue or red light. *Plant Physiol.* 42(8):1123-1130. Ref. Aug. 1967. 450 P692  
*Chlorella pyrenoidosa* and *Chlamydomonas reinhardtii*.
- 69028 HILL, G. P. Root formation in callus cultures of *Gypsophila paniculata* L. *Naturwissenschaften* 54(19):522. Oct. 1, 1967. 474 N213
- 69029 HINDS, W. T., and RICKARD, W. H. Soil temperatures near a desert steppe shrub. *Northwest Sci.* 42(1):5-13. Feb. 1968. 470 N81  
In relation to growth of *Grayia spinosa*.
- 69030 HIRAYAMA, O. Lipids and lipoprotein complex in photosynthetic tissues. III. Characterization of lamellar fractions isolated from a blue-green alga, *Anacystis nidulans*. *Agr. Biol. Chem.* 31(8):947-952. Ref. Aug. 1967. 385 Ag8B
- 69031 HOARE, D. S., HOARE, S. L., and BRAME, J. Deacetylation of N-acetyl-L-glutamic acid by *Neurospora crassa*. *J. Bacteriol.* 94(3):782-783. Sept. 1967. 448.3 J82
- 69032 HOPP, R. J. Vermont's extreme winter temperatures. *Vt. Farm Home Sci.* 10(2):4-5, map. Winter 1968. 100 V593  
As related to effects of cold on plants.
- 69033 HUI, W. H., and HO, C. T. An examination of the Rubiaceae of Hong Kong. VII. The occurrence of triterpenoids, steroids, and triterpenoid saponins. *Australian J. Chem.* 21(2):547-549. Feb. 1968. 475 Au73
- 69034 HUPPI, G., and SIDDALL, J. B. Steroids. CCCXXXVI. Synthetic studies on insect hormones. VI. The synthesis of ponasterone A and its stereochemical identity with crustecdysone. *Tetrahedron Lett.* 9:1113-1114. Feb. 1968. 385 T29  
Natural product of *Podocarpus nakaii*.
- 69035 HUTCHINSON, F. E. The exchangeable aluminum level in ten soil series and its effect on the growth and chemical composition of six crop species. *Diss. Abstr.*, Sect. B, 28(6):2213B. Dec. 1967. Z5055.U49D53
- 69036 INGRAM, J. M. Fructose diphosphate aldolase from *Fusarium oxysporum f. lycopersici*. II. *Can. J. Biochem.* 45(10):1505-1511. Ref. Oct. 1967. 470 C16E
- 69037 INOUE, Y., and GOTTLIEB, D. Mechanism of action of flavonemycin on *Penicillium oxalicum*. *Intersci. Conf. Antimicrobial Agents Chemotherap. Proc.*, 6th Conf.:470-479. Ref. 1966. 448.9 In88  
As growth inhibitor.
- 69038 INOUE, H., and others. The iridoid glucosides from *Paederia scandens* (Lour.) Merrill var. *mairei* (Leveille) Hara. (Ge) *Tetrahedron Lett.* 6:683-688. Feb. 1968. 385 T29  
S. Inoue, N. Shimokawa, and M. Okigawa, joint authors.
- 69039 INTERSCIENCE CONFERENCE ON ANTI-MICROBIAL AGENTS AND CHEMOTHERAPY, 6, PHILADELPHIA, 1966. Antimicrobial agents and chemotherapy, 1966; proceedings, edited by G. L. Hobby. *Ann Arbor, American Society for Microbiology*, 1967. 772 p. Ref. 448.9 In88  
Includes plant sources and use for domestic animals.
- 69040 IRIE, M. Isolation and properties of a ribonuclease from *Aspergillus saitoi*. *J. Biochem.* 62(5):509-518. Ref. Nov. 1967. 385 J822
- 69041 ISHII, H., and others. Components of the root of *Lindera strychnifolia*. VIII-XIII. Structure of isogemafurene and oinderoxide. *Tetrahedron* 24(2):625-631. Ref. Jan. 1968. 382 T29  
T. Tozyo, M. Nakamura, and K. Takeda, joint authors.
- 69042 JAMES, A. T., HARRIS, P., and BEZARD, J. The inhibition of unsaturated fatty acid biosynthesis in plants by sterculic acid. *Eur. J. Biochem.* 3(3):318-325. Ref. Jan. 17, 1968. QP501.E8  
*Chlorella vulgaris*.
- 69043 JANKULOV, J. Limits of water amount needed for germination of *Datura* seeds. (Ge) *Bulg. Akad. Nauk Dokl.* 20(3):225-228. 1967. 512 So2
- 69044 JARVIS, M. W. The photosensitizing furanocoumarins of *Phebalium argenteum* (blister bush). *Australian J. Chem.* 21(2):537-538. Ref. Feb. 1968. 475 Au73
- 69045 JOBBAGY, A. J. Altered aspartate transcarbamylase of *Neurospora crassa* responsible for a suppressor effect. *Arch. Biochem. Biophys.* 122(2):421-425. Ref. Nov. 1967. 381 Ar2



- 69046 JOHN, P. C. L., and SYRETT, P. J. The purification and properties of isocitrate lyase from *Chlorella*. *Biochem. J.* 105(1):409-415. Ref. Oct.1967. 382 B52
- 69047 JOHNSON, J. The purification and specificity of an endo-beta-D-(1 → 3)-glucanase from *Rhizopus arrizus*. *Diss. Abstr.*, Sect. B, 28(6): 2304B.-2305B. Dec.1967. Z5055.U49D53
- 69048 JONES, C. E. Some evolutionary aspects of a water stress on flowering in the Tropics. *Turrialba* 17(2):188-190. Ref. Apr./June 1967. 8 T86
- 69049 JONES, O. T. G. Intermediates in chlorophyll biosynthesis in *Rhodospseudomonas spheroides*: effects of substrates and inhibitors. *Phytochemistry* 6(10):1355-1362. Ref. Oct.1967. 450 P5622
- 69050 JOURET, M. F. Dormancy of seeds. (Fr) *Natur. Belg.* 49(1):2-10. Jan.1968. 410.9 N21 Includes germination.
- 69051 KAKKA R, R. K. 5-Bromouracil and induced production of fusaric acid by *Fusarium oxysporum* f. *lycopersici* in culture. *Experientia* 23(6):441-443. Ref. June 15,1967. 475 Ex7
- 69052 KANNAN, S., and WITWER, S. H. Ion absorption by leaves. *Naturwissenschaften* 54(14):373. July 15,1967. 474 N213 Of *Euonymus japonicus*.
- 69053 KAPLANIS, J. N., and others. Insect hormones; alpha ecdysone and 20-hydroxyecdysone in bracken fern [*Pteridium aquilinum*]. *Science* 157(3795):1436-1438. Ref. Sept.22, 1967. 470 Sci2  
M. J. Thompson, W. E. Robbins, and B. M. Bryce, joint authors.
- 69054 KAPPY, M. S., and METZENBERG, R. L. Multiple alterations in metabolite uptake in a mutant of *Neurospora crassa*. *J. Bacteriol.* 94(5):1629-1637. Ref. Nov.1967. 448.3 J82
- 69055 KATO, Y. Physiological and morphogenetic studies of fern gametophytes and sporophytes in aseptic culture. VIII. Behaviour of *Pteris vittata* gametophytes on sugar and complex media in red light. *Planta* 77(2):127-134. Ref. 1967. 450 P693
- 69056 KATOH, S., and SAN PIETRO, A. Ascorbate-supported NADP photoreduction by heated *Euglena* chloroplasts. *Arch. Biochem. Biophys.* 122(1):144-152. Ref. Oct.1967. 381 Ar2
- 69057 KAUL, C. L., and SINGH, S. P. Staminal and functional male sterility induced by chemical treatment in Papilionaceous plants. *Indian J. Agr. Sci.* 37(4):264-269. Aug.1967. 22 Ag83I Use of growth regulators.
- 69058 KAUSCH, W. Longevity of primary roots of Monocotyledons. (Ge) *Naturwissenschaften* 54 (17):475. Sept.1,1967. 474 N213
- 69059 KAUSCH, W. The root mechanism of plants, organ of water uptake. (Ge) *Umschau* 68(2):38-44. Ref. Jan.18,1968. 474 Um7
- 69060 KAZARYAN, V. O., and KAVTYAN, V. A. Changes in the rate of photosynthesis due to factors affecting the root system. *Soviet Plant Physiol.* 14(5):721-725. Ref. Sept./Oct.1967, pub.1968. 450 F58Ae  
Translation from *Fiziologiya Rastenii*.
- 69061 KE, B. Photoreduction sites for 2,6-dichlorophenolindophenol in chloroplasts. *Plant Physiol.* 42(9):1310-1312. Ref. Sept.1967. 450 P692 Spinach.
- 69062 KEFELI, V. I., and TURETSKAYA, R. KH. Comparative effect of natural growth inhibitors, narcotics, and antibiotics on plant growth. *Soviet Plant Physiol.* 14(5):670-675. Ref. Sept./Oct.1967, pub.1968. 450 F58Ae  
Translation from *Fiziologiya Rastenii*.
- 69063 KENYON, C. N. Studies on the lipid metabolism of *Euglena gracilis* Z and *Scenedesmus* D3. I-II. *Diss. Abstr.*, Sect. B, 28(6):2306B. Dec.1967. Z5055.U49D53
- 69064 KETCHUM, B. H. Phytoplankton nutrients in estuaries. *Conf. Estuaries. Papers* 1964:329-334. 1967. QH91.A3C6 1964
- 69065 KHAILOV, K. M., BURLAKOVA, Z. P., and LANSKAYA, L. A. Exogenous metabolites in *Gymnodinium kovalenskii* Pitz. cultures. (Rus) *Mikrobiologiya* 36(4):595-601. Ref. July/Aug. 1967. 448.3 M582  
English summary.
- 69066 KIES, L. Oogamy in *Eremosphaera viridis* De Bary. (Ge) *Flora Abt. B, Morphol. Geobot.* 157(1):1-12. Ref. 1967. QK641.A1F5  
English summary.
- 69067 KIRYAKOV, N. G., KITOVA, M. S., and GEORGIEVA, A. V. On alkaloids of *Bocconia cordata* Wild. *Bulg. Akad. Nauk Dokl.* 20(3):189-192. 1967. 512 So2
- 69068 KLEINIG, H., and EGGER, K. Structure of siphonaxanthin and siphonoin, main carotenoids of Siphonales green algae. (Ge) *Phytochemistry* 6(12):1681-1686. Ref. Dec.1967. 450 P5622  
English summary.  
Isolated from *Caulerpa prolifera*.
- 69069 KLEMME, J. H., and SCHLEGEL, H. G. Photoreduction of pyridine nucleotide by chromophores of *Rhodospseudomonas capsulata* by molecular hydrogen. (Ge) *Arch. Mikrobiol.* 59 (1/3):185-196. 1967. 442.8 Ar26  
English summary.
- 69070 KLOSS, P. Flavonoid from *Lophophytum lean-dri* Eichl. (Ge) *Naturwissenschaften* 54(17): 472. Sept.1,1967. 474 N213
- 69071 KNEUER, C. Biological determination of growth substances in *Azotobacter* cultures. (Du) *Soil Biol. Int. News Bull.* 7:24-25. July 1967. S590.B5  
Tradescantia as test plant.
- 69072 KOHLER, A. Plant physiology studies in the flowering Atacama desert. (Ge) *Umschau* 68 (2):59-60. Jan.18,1968. 474 Um7
- 69073 KOLLI, S. Biochemical and floral anatomical studies in the genus *Froelichia* (Amaranthaceae). *Diss. Abstr.*, Sect. B, 28(6):2284B. Dec. 1967. Z5055.U49D53
- 69074 KOZOVA, J., and REHACEK, Z. Antibiotics of *Flammulina velutipes* cultivated in submerged culture. *Folia Microbiol.* 12(6):567-568. 1967. 448.3 C332
- 69075 KRAMER, C. L., and PADY, S. M. Spore discharge in *Hypocrea gelatinosa*. *Mycologia* 60(1):208-210. Jan./Feb.1968. 450 M99
- 69076 KRETOVICH, V. L., KARYAKINA, T. I., and LYUBIMOVA, N. V. Metabolism of succinic semialdehyde and gamma-aminobutyric acid in plants. *Soviet Plant Physiol.* 14(5):771-777. Ref. Sept./Oct.1967, pub.1968. 450 F58Ae  
Translation from *Fiziologiya Rastenii*.
- 69077 KREY, J. Detritus in the ocean and adjacent sea. *Conf. Estuaries. Papers* 1964:389-394, map. 1967. QH91.A3C6 1964  
Includes phytoplankton.
- 69078 KRISHNAN, V., and RANGASWAMI, S. Chemical components of *Salacia chinensis* Linn.: stems and leaves. *Cur. Sci.* 36(22):596-597. Nov.20,1967. 475 Sci23
- 69079 KRUL, W. R. The regulation of plant processes by a cytokinin. *Diss. Abstr.*, Sect. B, 28(6): 2284B. Dec.1967. Z5055.U49D53
- 69080 KUBOTA, T., and HINO, H. Triterpenoids from *Bupleurum falcatum* L. III. Isolation of genuine sapogenins, saikogenins E, F and G. *Tetrahedron* 24(2):675-686. Ref. Jan.1968. 382 T29
- 69081 \*KULAEVA, O. N., and KLYACHKO, H. L. Effect of chloramphenicol on protein synthesis in leaf disc. *Soviet Plant Physiol.* 14(5):778-780. Ref. Sept./Oct.1967, pub.1968. 450 F58Ae  
Study with radioactive carbon, leucine, and tobacco as test plant.  
Translation from *Fiziologiya Rastenii*.
- 69082 KUNESCH, N., DAS, B. C., and POISSON, J. Hydroxy-indoline of voaphylline, a new alkaloid extracted from the leaves of *Voacanga africana* Stapf. (Fr) *Soc. Chim. France. Bull.* 9:3551-3552. Sept.1967. 383 P21B  
English summary, p.XLI.
- 69083 KUO, M. J., and ALEXANDER, M. Inhibition of the lysis of fungi by melanins. *J. Bacteriol.* 94(3):624-629. Ref. Sept.1967. 448.3 J82  
*Aspergillus nidulans*.

- 69084 KUZNETSOVA, V. I., and NOVOTELNOV, N. V. Effect of L-lysine on a growth rate of *Aspergillus terricola*. (Rus) *Mikrobiologiya* 36(4): 592-594. July/Aug. 1967. 448.3 M582 English summary.
- 69085 LAHEY, F. N., and MCCAMISH, M. Acrophylline and acrophyllidine, two new alkaloids from *Acronychia haplophylla*. *Tetrahedron Lett.* 12: 1525-1527. Feb. 1968. 385 T29
- 69086 LAMPEN, J. O., MCLELLAN, W. L., and EL-NAKEEB, M. A. Antibiotics and fungal physiology. *Interisci. Conf. Antimicrobial Agents Chemotherap. Proc.*, 5th Conf.:1006-1015. Ref. 1965. 448.In88
- 69087 LAWLER, P. D., and ROGERS, L. J. Effect of DDT on photosynthesis in certain varieties of barley. *Nature* 215(5109):1515-1516. Sept. 30, 1967. 472 N21
- 69088 LEANDER, K., and LUNING, B. Studies on Orchidaceae alkaloids. IX. A 1-phenyl-tetrahydroisquinoline alkaloid from *Cryptostylis fulva* Schltr. *Tetrahedron Lett.* 11:1393-1394. Feb. 1968. 385 T29
- 69089 LEISTNER, E., and ZENK, M. H. Mevalonic acid, a precursor of the substituted benzenoid ring of Rubiaceae-antraquinones. *Tetrahedron Lett.* 11:1395-1396. Feb. 1968. 385 T29
- 69090 LENG, E. R. The early growth of corn. *Farm Quart.* 23(2):80-87. Spring 1968. 6 F22995
- 69091 LEOPOLD, A. C. The mechanism of foliar abscission. *Soc. Exp. Biol. Symp.* 21:507-516. Ref. 1967. 442.9 So15
- 69092 LEVI, E. Losses through roots of foliar applied mineral elements. *Naturwissenschaften* 55(1):42. Jan. 1968. 474 N213 Effect of root excretions on the results of tests with radioactive isotopes.
- 69093 LEWIN, J., and LEWIN, R. A. Culture and nutrition of some apochlorotic diatoms of the genus *Nitzschia*. *J. Gen. Microbiol.* 46(3):361-367. Mar. 1967. 448.3 J823
- 69094 LICHTENSTEIN, E. P., and others. Translocation of insecticides from soils into pea plants; effects of the detergent LAS [Linear alkyl benzene sulfonate] on translocation and plant growth. *J. Agr. Food Chem* 15(5):864-869. Ref. Sept./Oct. 1967. 381 J8223 T. W. Fuhremann, N. E. A. Scopes, and R. F. Skrentny, joint authors.
- 69095 LINDENMAYER, A., and SCHOEN, H. F. Selective effects of purine and pyrimidine analogues and of respiratory inhibitors on perithecial development and branching in *Sordaria [fimicola]*. *Plant Physiol.* 42(8):1059-1070. Ref. Aug. 1967. 450 P692
- 69096 LOTSCHEIT, W., and LIEMANN, F. Accumulation of salt in the embryo of *Rhizophora mangle* L. developing on the mother plant. *Planta* 77(2):142-156. Ref. 1967. 450 P693 English summary.
- 69097 LUNDEGARDH, H. Role of carotenoids in photosynthesis of green plants. *Nature* 216(5119): 981-985. Ref. Dec. 9, 1967. 472 N21
- 69098 LUNING, B., and LUNDIN, C. Studies on Orchidaceae alkaloids. VI. *Acta Chem. Scand.* 21 (8):2136-2142. Ref. 1967. 385 Ac82
- 69099 LYAKHNOVICH, YA. P., and others. Growth and accumulation of pigments in *Chlorella [terricola]* cultivated on Tamii culture media with addition of potato juice. (Rus) *Vses. Bot. Obsch. Belorussk. Otd. Sb. Bot. Rabot* 9:3-9. 1967. 451 P967 A. S. Veher, T. N. Godnev, and K. I. Prlovskaya, joint authors.
- 69100 LYTLETON, J. W. Isolation of polyribosomes from leaves of *Chenopodium album*. *Biochim. Biophys. Acta* 149(2):598-600. Dec. 19, 1967. 381 B522
- 69101 MACALLA, D. R. Isolation and properties of a *Euglena* mutant resistant to the killing and bleaching effects of N-methyl-N'-nitro-N-nitrosoguanidine and some other agents. *Biochim. Biophys. Acta* 142(1):219-227. Ref. June 20, 1967. 381 B522
- 69102 MAHESHWARI, S. C., and GUPTA, S. Induction of flowering in *Lemna paucicostata*, a short-day plant, by chelating agents and iron. *Planta* 77(1):95-98. 1967. 450 P693
- 69103 MAKINEN, Y., and BREWBAKER, J. L. Isoenzyme polymorphism in flowering plants I. Diffusion of enzymes out of intact pollen grains. *Physiol. Plant.* 20(2):477-482. Ref. 1967. 450 P564 Includes tests with *Oenothera organensis*.
- 69104 MANWELL, C., and BAKER, C. M. A. A study of detergent pollution by molecular methods: starch gel electrophoresis of a variety of enzymes and other proteins. *Mar. Biol. ASS. UK. J.* 47(3):659-675. Ref. 1967. 442.9 M331 Includes effects of surfactants on red alga *Calliblepharis jubata* and duck eggs in Great Britain.
- 69105 MAPSON, L. W. Biogenesis of L-ascorbic acid in plants and animals. In Sebrell, W. H., and Harris, R. S., ed. *The vitamins*, v.1, ed. 2, p.369-381. 1967. QP301.V5S4 1967 Review of the literature.
- 69106 MATTOCKS, A. R. Anacrotine, from *Crotalaria incana*. *Chem. Soc. J. C, Org.* 3:235-237. 1968. QD241.C5
- 69107 MAURICE, A., and BARAUD, J. Fatty acids in *Parinarium holstii* seeds. (Fr) *Oleagineux* 23 (1):35-38. Ref. Jan. 1968. 77.8 OL2 English summary, p. XXXVIII.
- 69108 MEYER, J. A., and MARAITE, H. Unusual requirement for a vitamin by strains of *Fusarium oxysporum* f. sp. melonis. *Nature* 216 (5110):70-71. Oct. 7, 1967. 472 N21
- 69109 MICHNIEWICZ, M., and KAMIENSKA, A. Effect of kinetin on the content of endogenous gibberellins in germinating seeds of some plant species. *Naturwissenschaften* 54(14):372. July 15, 1967. 474 N213
- 69110 MIKOLAJCZAK, K. L., and others. An octadecatrienoic acid from *Lamium purpureum* L. seed oil containing 5,6-allenic and trans-16-olefinic unsaturation. *Biochem. J.* 105(3):1245-1249. Ref. Dec. 1967. 382 B52 M. F. Rogers, C. R. Smith, and I. A. Wolff, joint authors. Named Lamenallenic acid.
- 69111 MILANEZ, A. I. Resting spores of *Phlyctocytrium planicorne* on *Saprolegniaceae*. *Brit. Mycol. Soc. Trans.* 50(4):679-681. Ref. Dec. 1967. 451 B76
- 69112 MILLER, C. O. Zeatin and zeatin riboside from a mycorrhizal fungus [*Rhizopogon roseolus*]. *Science* 157(3792):1055-1057. Ref. Sept. 1, 1967. 470 Sci2
- 69113 MILLER, R. A., and others. Phytostat for continuous culture and automatic sampling of plant-cell suspensions. *Science* 159:540-542. Ref. Feb. 2, 1968. 470 Sci2 J. P. Shyluk, O. L. Gamborg, and J. W. Kirkpatrick, joint authors.
- 69114 MILLINGTON, W. F., and GAWLIK, S. R. Silica in the wall of *Pediastrum*. *Nature* 216(5110): 68. Ref. Oct. 7, 1967. 472 N21
- 69115 MOLLOV, N. M., and GEORGIEV, V. ST. Secondary alkaloids of *Thalictrum simplex* L. *Bulg. Akad. Nauk Dokl.* 20(4):329-332. 1967. 512 So2
- 69116 MOLLOV, N. M., and others. Study on the alkaloids of *Thalictrum foetidum* L. spread in Bulgaria. *Bulg. Akad. Nauk Dokl.* 20(4):333-335. 1967. 512 So2 V. St. Georgiev, P. P. Panov, and D. Jordanov, joint authors.
- 69117 MONTROCHER, R., and PARGUEY-LEDUC, A. Preliminary research on the comparative ontogenesis and anatomy of ascocarps of ascomycetous *Pyrenomyces*. (Fr) *Rev. Mycol.* 32 (2):56-68. Ref. Oct. 1, 1967. 450 An74
- 69118 MOORE, K., and TOWERS, G. H. N. Degradation of aromatic amino acids by fungi. I. Fate of L-phenylalanine in *Schizophyllum commune*. *Can. J. Biochem.* 45(11):1659-1665. Ref. Nov. 1967. 470 C16E
- 69119 MOORE, K., RAO, P. V. S., and TOWERS, G. H. N. Degradation of phenylalanine and tyrosine by *Basidiomycetes*. *Life Sci.* 6(24, pt. 2): 2629-2633. Ref. Dec. 15, 1967. 442.8 L62 *Schizophyllum commune*, *Sporobolomyces roseus*, and *Ustilago hordei*.



- 69120 MURATA, T., and others. New triterpenes of *Alisma plantago-aquatica* L. var. *orientale* Samuels. *Tetrahedron Lett.* 1:103-113. Ref. Jan.1968. 385 T29  
M. Shinohara, T. Hirata, K. Kamiya, M. Nishikawa, and M. Miyamoto, joint authors.
- 69121 MYERSCOUGH, P. J., and WHITEHEAD, F. H. Comparative biology of *Tussilago farfara* L., *Chamaenerion angustifolium* (L.) Scop., *Epilobium montanum* L., and *Epilobium adenocaulon* Hausskn. II. Growth and ecology. *New Phytol.* 66(4):785-823. Ref. Oct.1967. 450 N42
- 69122 MYKLESTAD, S. Ion-exchange properties of brown algae. I. Determination of rate mechanism for calcium-hydrogen ion exchange for particles from *Laminaria hyperborea* and *Laminaria digitata*. *J. Appl. Chem.* 18(1):30-36. Ref. Jan.1968. 382 J82
- 69123 NAG, K. N. Aerial environmental inputs to plant growth in relation to structural requirement. *Diss. Abstr.*, Sect. B, 28(6):2395B-2396B. Dec.1967. Z5055.J49D53
- 69124 NAKAMURA, S., and FUJIKI, S. Comparative studies on the glucose oxidase of *Aspergillus niger* and *Penicillium amagasakiense*. *J. Biochem.* 63(1):51-58. Ref. Jan.1968. 385 J822
- 69125 NEGRONI, R. In vitro study of the sensibility of *Torulopsis glabrata* to antibiotic and chemotherapeutic fungistats. (Sp) *Soc. Cient. Argent. An.* 182(1/2):43-50. July/Aug.1966. 516 Sol English summary.
- 69126 NELSON, A. P. Racial diversity in Californian *Prunella vulgaris*. *New Phytol.* 66(4):707-746. Ref. Oct.1967. 450 N42  
Caused by environmental factors and acclimatization.
- 69127 NEW YORK ACADEMY OF SCIENCES. Plant growth regulators. *N. Y. Acad. Sci. Ann.* 144 (1),382 p. Ref. Aug.9,1967. 500 N484  
Papers of a conference held on May 16, 17, and 18, 1966.
- 69128 NICHIPOROVICH, A. A., and others. Activity of the photosynthetic apparatus and nitrogen metabolism in plants. *Soviet Plant Physiol.* 14 (5):713-720. Ref. Sept./Oct.1967, pub.1968. 450 F58Ae  
O. P. Osipova, M. K. Nikolaeva, E. G. Romanenko, Kh. Ya. Khein, G. A. Slobodskaya, and Yu. V. Krylov, joint authors.  
Translation from *Fiziologiya Rastenii*.
- 69129 NIJENHUIS, L. E., and VENEMA, H. J. *Vicia graminea* Sm. and human blood factor N. (Du) *Landbouwkundig Tijdschr.* 79(11):396-401. Nov.1967. 105.2 Or2  
Includes plant description and physiology.
- 69130 NISHCHII, I. A., and KHLEBNYUK, I. V. Method of determining nitrogen in large plant quantity. (Rus) *Selek. Semenovod.* 6:44-49. Nov./Dec.1967. 61.9 Se5
- 69131 NOZU, Y. Studies on the biosynthesis of lignin. III. Dehydrogenative polymerization of coniferyl alcohol by peroxidase. *J. Biochem.* 62(6): 519-530. Ref. Nov.1967. 385 J822  
Bamboo shoot, wheat germ, and horseradish peroxidase.
- 69132 NUNN, J. R., and PAROLIS, H. A polysaccharide from *Aeodes orbitosa*. *Carbohydr. Res.* 6 (1):1-11. Ref. Jan.1968. 385 C172
- 69133 OSBORNE, D. J. Hormonal regulation of leaf senescence. *Soc. Exp. Biol. Symp.* 21:305-321. Ref. 1967. 442.9 Sol5
- 69134 OVCHAROV, K. E. Inhibitors of seed germination. (Rus) *Khlopkovodstvo* 6:41-43. June 1967. 72.8 K522
- 69135 PACKER, L., and CROFTS, A. R. The energized movement of ions and water chloroplasts. *Curr. Top. Bioenerg.* 2:23-64. 1967. QH511.S2  
Review of the literature.
- 69136 PAILER, M., BERNER, H., and MAKLEIT, S. Natural plant substances with a nitro group. 7. Synthesis of *Aristolochia acid-IV-methyl ester*. (Ge) *Monatsh. Chem.* 98(4):1603-1612. Ref. 1967. 384 M74
- 69137 PALMER, C. M. Nutrient assimilation by algae in waste stabilization ponds. *Ind. Acad. Sci. Proc.* 76:204-209. Ref. 1966, pub.1967. 500 In2
- 69138 PARK, D., and ROBINSON, P. M. A fungal hormone controlling internal water distribution normally associated with cell ageing in fungi. *Soc. Exp. Biol. Symp.* 21:323-335. Ref. 1967. 442.9 Sol5
- 69139 PATTON, S. Lipids and the assembly of chloroplast membrane. *Science* 159(3811):221. Jan.12,1968. 470 Sci2
- 69140 PERIGAUD, S. Effects of oxygen deficiency and water excess on the growth and mineral nutrition of plants. (Fr) *Ann. Agron.* 18(5):485-506. Ref. 1967. 14 F8499  
English summary.
- 69141 PETERBURSKII, A. V. Pryanishnikov's school and the Soviet agrochemistry. (Rus) *Vestnik Sel'skokhoz. Nauk.* [Moscow] 11:42-48. Nov. 1967. 20 V633  
In reference to plant nutrition.
- 69142 PETERS, R. A., and SHORTHOUSE, M. Observations on the metabolism of fluoride in *Acacia georginae* and some other plants. *Nature* 216 (5110):80-81. Oct.7,1967. 472 N21
- 69143 PEVTSOV, G. A., and PEVTSOV, B. G. On the phenomenon of rare occurrence of bright-red coloration of flowers in northern and moderate latitudes. (Rus) *Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina. Dokl.* 8:21-24. Ref. Aug. 1967. 20 Ak1
- 69144 PIZER, N. H. Some advisory aspects. *Great Brit. Min. Agr. Fish. Food. Tech. Bull.* 14:180-186. 1967. 10 G79T  
Potassium in plant nutrition.
- 69145 PLAT, M., and others. Alkaloids of *Callichilia subsessilis*. III. *Callichiline*. (Fr) *Soc. Chim. France. Bull.* 8:2669-2672. Ref. Aug.1967. 383 P21B  
N. Kunesch, J. Poisson, C. Djerassi, and H. Budzikiewicz, joint authors.  
English summary, p.VII.
- 69146 POL, H. Estimation of number of fungi in soil through culture in test tube. (Fr) *Soil Biol. Int. News Bull.* 7:23. July 1967. S590.B5
- 69147 POLONSKY, J., and others. Bitter components of *Brucea amarissima*, structure of bruceines A, B, and C. (Fr) *Experientia* 23(6):424-426. Ref. June 15,1967. 475 Ex7  
Z. Baskevitch, A. Gaudemer, and B. C. Das, joint authors.  
English summary.
- 69148 PORSLID, A. E., HARINGTON, C. R., and MULLIGAN, G. A. *Lupinus arcticus* Wats. grown from seeds of Pleistocene age. *Science* 158(3797):113-114. Ref. Oct.6,1967. 470 Sci2
- 69149 POSKUTA, G., NELSON, C. D., and KROTKOV, G. Effects of metabolic inhibitors on the rates of CO<sub>2</sub> evolution in light and in darkness by detached spruce [*Picea glauca*] twigs, wheat and soybean leaves. *Plant Physiol.* 42(9):1187-1190. Ref. Sept.1967. 450 P692
- 69150 PRUESS, D. L., and JOHNSON, M. J. Penicillin acyltransferase in *Penicillium chrysogenum*. *J. Bacteriol.* 94(5):1502-1508. Ref. Nov.1967. 448.3 J82
- 69151 PSENAK, M. Phenolic glycosides, their importance and formation. (Cz) *Biologia [Bratislava]* 22(9):704-714. Ref. 1967. 442.8 B5265  
Plants.
- 69152 \*RAKITIN, YU. V. Ethylene as a highly effective defoliant. *Soviet Plant Physiol.* 14(5):789-799. Ref. Sept./Oct.1967, pub.1968. 450 F58Ae  
Translation from *Fiziologiya Rastenii*.
- 69153 RAO, P. V. S., MOORE, K., and TOWERS, G. H. N. O-pyrocatechuic acid carboxy-lyase from *Aspergillus niger*. *Arch. Biochem. Biophys.* 122(2):466-473. Ref. Nov.1967. 381 Ar2
- 69154 REES, H. H., GOAD, L. J., and GOODWIN, T. W. Cyclization of 2,3-oxidosqualene to cycloartenol in a cell-free system from higher plants. *Tetrahedron Lett.* 6:723-725. Feb. 1968. 385 T29
- 69155 REGEL, C. V. Contribution to the study of dry matter production in plant kingdom. (Ge) *Qualitas Plant. Mater. Veg.* 15(2):102-116. Ref. Oct.15,1967. 64.8 M41
- 69156 REGNIER, F. E., and others. The biosynthesis of methylcyclopentane monoterpenoids. II. Nepe-talactone. *Phytochemistry* 7(2):221-230. Ref. Feb.1968. 450 P5622  
G. R. Waller, E. J. Eisenbraun, and H. Auda, joint authors.  
Studied with mevalonate-2-<sup>14</sup>C in *Nepeta cataria*.

- 69157 REINERT, R. E. The accumulation of dieldrin in an alga (*Scenedesmus obliquus*), *Daphnia* (*Daphnia magna*), guppy (*Lebistes reticulatus*) food chain. Diss. Abstr., Sect. B, 28(6):2210B. Dec.1967. Z5055.U49D53
- 69158 RIFKIN, M. R., WOOD, D. D., and LUCK, D. J. L. Ribosomal RNA and ribosomes from mitochondria of *Neurospora crassa*. Nat. Acad. Sci. Proc. 58(3):1025-1032. Ref. Sept. 1967. 500 N21P
- 69159 RITCHIE, E., and TAYLOR, W. C. The Galbulimima alkaloids. In Manske, R. H. F., ed The alkaloids, v.9,p.529-543. 1967. 387.1 M313  
Review of the literature.
- 69160 ROBERTS, K., and SIEGEL, S. M. Experimental microbiology of saturated salt solutions and other harsh environments. III. Growth of salt-tolerant *Penicillium notatum* in boron-rich media. Plant Physiol. 42(9):1215-1218. Ref. Sept.1967. 450 P692
- 69161 ROBERTSON, J. A., PONS, W. A., and GOLDBLATT, L. A. Preparation of aflatoxins and determination of their ultraviolet and fluorescent characteristics. J. Agr. Food Chem. 15(5):798-801. Ref. Sept./Oct.1967. 381 J8223  
Toxic metabolites of *Aspergillus flavus* prepared for research purposes.
- 69162 RODRIQUES, C. J., and ARNY, D. C. Effect of light on gemmae formation in *Mycena citricolor*. Can. J. Bot. 45(5):675-679. Ref. May 1967. 470 C16C
- 69163 ROMO, J., and ROMO DE VIVAR, A. The pseudoguaninoides. Fortschr. Chem. Org. Naturstoffe 25:90-130. 1967. 384 F773  
Review of the literature.  
From Helianthaeae.
- 69164 ROSENBERG, A. *Euglena gracilis*; a novel lipid energy reserve and arachidonic acid enrichment during fasting. Science 157(3793):1189-1191. Ref. Sept.8,1967. 470 Sci2
- 69165 ROSENBERG, A. Galactosyl diglycerides: their possible function in *Euglena chloroplasts*. Science 157(3793):1191-1196. Ref. Sept.8, 1967. 470 Sci2
- 69166 ROSENBERGER, R. F., and KESSEL, M. Synchrony of nuclear replication in individual hyphae of *Aspergillus nidulans*. J. Bacteriol. 94(5):1464-1469. Ref. Nov.1967. 448.3 J82
- 69167 ROSS, I. K. Syngamy and plasmodium formation in the myxomycete *Didymium iridis*. Protoplasma 64(2):104-119. Ref. 1967. 442.8 P94
- 69168 ROTH, R. M. Trehalose synthetase, a developmentally regulated enzyme in the slime mold, *Dictyostelium discoideum*. Diss. Abstr., Sect. B, 28(6):2264B-2265B. Dec.1967. Z5055.U49D53
- 69169 ROTHSCILD, H., ITIKAWA, H., and SUSKIND, S. R. Ribosomes and ribosomal proteins from *Neurospora crassa*. II. J. Bacteriol. 94(5):1800-1801. Nov.1967. 448.3 J82
- 69170 ROUGHLEY, R. J., and VINCENT, J. M. Growth and survival of *Rhizobium* spp. in peat culture. J. Appl. Bacteriol. 30(2):362-376. Aug.1967. 448.39 Sol2
- 69171 RUIZ-HERRERA, J. Chemical components of the cell wall of *Aspergillus* species. Arch. Biochem. Biophys. 122(1):118-125. Ref. Oct. 1967. 381 Ar2
- 69172 RYZNAR, L., and DRASIL, V. Photoreactivation in *Chlamydomonas reinhardtii* Dangeard. Folia Microbiol. 12(6):524-528. 1967. 448.3 C332  
After ultraviolet irradiation.
- 69173 RZHANOVA, G. N. Cell free, nitrogen containing substances of the two nitrogen fixing species of Cyanophyceae. (Rus) Mikrobiologiya 36(4):639-645. July/Aug.1967. 448.3 M582  
English summary.  
*Mastigocladus laminosus* and *Nostoc muscorum*.
- 69174 SAAKOV, B. S. The mechanism of mutual transformations of exogenic carotenoids—C14 in *Chlorella*. (Rus) Akad. Nauk SSSR. Dokl. 174(4):978-981. Ref. 1967. 511 P444A
- 69175 SALISBURY, F. B. Physiological evidence relating to the flowering hormone. N. Y. Acad. Sci. Ann. 144(1):295-304. Ref. Aug.9, 1967. 500 N484
- 69176 SALYAIEV, R. K. A method of distinguishing between live and dead plant tissues. (Rus) Bot. Zhur. [Moscow] 52(9):1321-1324. Sept. 1967. 451 R923  
Using fluorescein as indicator.
- 69177 SANKHLA, N., and SANKHLA, D. Abscisin II-kinetin antagonist in growth of *Ipomea cotyledonary* callus. Naturwissenschaften 55(2):91-92. Feb.1968. 472 N213
- 69178 SANKHLA, N., and SANKHLA, D. Effect of germanium on growth of higher plants. Naturwissenschaften 54(23):621. Dec.1,1967. 474 N213  
In *Lactuca sativa*, *Leptadenia pyrotechnica*, and *Ipomea pentaphylla*.
- 69179 SANKHLA, N., SANKHLA, D., and CHATTERJI, U. N. Production of plantlets from callus derived from root-tip of excised embryos of *Ephedra foliata* Boiss. Naturwissenschaften 54(13):349. July 1,1967. 474 N213
- 69180 SANTESSON, J. Chemical studies on lichens. 7. Acaranoic and acarenoic acid, two new aliphatic lichen acids. Acta Chem. Scand. 21(8):1993-1996. 1967. 385 Ac82
- 69181 SAPOZHNIKOV, D. I., and others. Oxygen exchange of xanthophylls as related to their role in the process of plant photosynthesis. (Rus) Akad. Nauk SSSR. Dokl. 175(5):1182-1185. 1967. 511 P444A  
V. M. Kutuyurin, T. G. Maslova, M. V. Ulubekova, N. M. Nazarov, I. Yu. Artamkina, and K. G. Semenyuk, joint authors.  
*Elodea canadensis* and *Chlorella pyrenoidosa* used in experiment.
- 69182 SASEK, V., and MUSILEK, V. Cultivation and antibiotic activity of mycorrhizal Basidiomycetes. Folia Microbiol. 12(6):515-523. Ref. 1967. 448.3 C332
- 69183 SCARBOROUGH, G. A., and NYC, J. F. Properties of a phosphatidylmonomethylethanolamine N-methyltransferase from *Neurospora crassa*. Biochim. Biophys. Acta 146(1):111-119. Ref. Sept.12,1967. 381 B522
- 69184 SCHAEDEL, M., and JACOBSON, L. Ion absorption and retention by *Chlorella pyrenoidosa* III. Selective accumulation of rubidium, potassium and sodium. Plant Physiol. 42(7):953-958. Ref. July 1967. 450 P692
- 69185 SCHRAUWEN, J., and LINSKENS, H. F. Mass culture of pollen tubes. Acta Bot. Neer. 16(5):177-179. Nov.1967. 450 Ac822  
Investigation of growth rates and germination.
- 69186 SCHREIBER, K. The glyco-alkaloids of the Solanaceae. 44 p. Ref. Transl. 16555  
Translation from Chemische Technik 6(12): 649-658. Dec.1954.
- 69187 SCHRODER, I., and others. The effect of 2,4-dichlorophenoxyacetic acid on nucleic acid synthesis in the one-celled alga *Poteroichromonas stipitata*. (Ge) Acta Biol. Med. Ger. 18(2):125-130. Ref. 1967. QH301.A25  
W. Dummmler, K. Jung, and D. Mucke, joint authors.  
English summary.
- 69188 SCHULMAN, M. D. Studies on glyceraldehyde-3-phosphate dehydrogenase in higher plants. Diss. Abstr., Sect. B, 28(6):2311B. Dec.1967. Z5055.U49D53
- 69189 SEBANEK, J., and HINK, J. The effect of chloroethyltrimethylammonium chloride in an amount not inhibitory on the level of endogenous gibberellins in the peas epicotyls. (Ge) Brno. Vysoka Sk. Zemedel. Sb. Rada A, Spisy Fak. Agron. 3:393-399. Ref. 1966. 105.92 B833  
English summary.
- 69190 SELL, Y. Vegetative gradient and flowering gradient of the primary long axis of *Ruellia lorentziana* Griseb. (Acanthaceae). (Fr) Acad. Sci. Compt. Rend. Ser. D, 264(15):1856-1869. Apr.10,1967. 505 P21



- 69191 SEKERKA, V. Root excretions of plants and their physiological role. (Cz) *Biologia (Bratislava)* 22(1):64-70. Ref. 1967. 442.8 B5265
- 69192 SEN, M., and SEHGAL, H. S. Heterothallism and oxidase reaction in 12 species of Indian polypores. *Can. J. Bot.* 45(5):635-638. May 1967. 470 C16C  
Wood destroying fungi.
- 69193 SHAKOV, A. A., BALAUR, N. S., and KONDU-RUSKKHIN, I. A. Formation of the membrane system of chloroplasts illuminated by various parts of the spectrum. *Soviet Plant Physiol.* 14(5):731-738. Ref. Sept./Oct. 1967, pub. 1968. 450 F58Ae  
Translation from *Fiziologiya Rastenii*.
- 69194 SHAMSUDDIN, A. M. Photoperiodic effects on primary and ratoon growth in three varieties of grain sorghum. *Diss. Abstr., Sect. B*, 28(6): 2231B. Dec. 1967. Z5055.U49D53
- 69195 SHERIDAN, R. P., and CASTENHOLZ, R. W. Production of hydrogen sulphide by a thermophilic blue-green alga [*Synechococcus lividus*]. *Nature* 217(5133):1063-1064. Ref. Mar. 16, 1968. 472 N21
- 69196 SHETH, K., CATALFOMO, P., and SCIUCHETTI, L. A. Isolation and identification of eburicoic acid from *Fomes pinicola*. *J. Pharm. Sci.* 56(12):1656-1658. Ref. Dec. 1967. 396.8 J825
- 69197 SHONE, M. G. T. Factors involved in the uptake of potassium and magnesium from the soil solution. *Great Brit. Min. Agr. Fish. Food. Tech. Bull.* 14:9-19. Ref. 1967. 10 G79T
- 69198 SIEGEL, S. M., and ROBERTS, K. Microbiology of saturated salt solutions and other harsh environments. IV. New observations on ribonucleotide-induced recovery of KCl-habituated *Penicillium notatum*. *Plant Physiol.* 43(1):73-75. Jan. 1968. 450 P692  
Nutritional studies in relation to metabolic studies.
- 69199 SIMON, E. W. Types of leaf senescence. *Soc. Exp. Biol. Symp.* 21:215-230. Ref. 1967. 442.9 So15  
Chiefly *Cucumis sativus* cotyledons.
- 69200 SINGH, N., and PLUNKETT, B. E. Cyanide tolerance and growth stimulation by the carbon of organic nitrogen compounds in Hymenomycete-inhabiting fungi. *Brit. Mycol. Soc. Trans.* 50(3):359-376. Ref. Sept. 1967. 451 B76
- 69201 SLEZARIK, A., and REXOVA, L. Characterization of extracellular pectolytic enzymes of *Monilia laxa*. *Biologia [Bratislava]* 22(6):407-413. Ref. 1967. 442.8 B5265
- 69202 SMITH, G. N., WATSON, B. S., and FISCHER, F. S. Investigations on Dursban insecticide: Metabolism of O,O-diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate and 3,5,6-trichloro-2-pyridinol in plants. *J. Agr. Food Chem.* 15(5):871-877. Sept./Oct. 1967. 381 J8223
- 69203 SOBOTA, A. E., and PARTANEN, C. R. The growth and division of cells in relation to morphogenesis in fern gametophytes. II. The effect of biochemical agents on the growth and development of *Pteridium aquilinum*. *Can. J. Bot.* 45(5):595-603. Ref. May 1967. 470 C16C
- 69204 SOJKA, G. A. Serine biosynthesis in *Neurospora crassa*. *Diss. Abstr., Sect. B*, 28(3): 1038B. Sept. 1967. Z5055.U49D53
- 69205 SOLTANABADI, A. S. The effect of supraoptimal temperatures on the growth and Krebs' cycle acid contents of *Arabidopsis thaliana*. *Diss. Abstr., Sect. B*, 28(6):2216B. Dec. 1967. Z5055.U49D53
- 69206 SPARROW, A. H., FURUYA, M., and SCHWEMMER, S. S. Effects of X- and gamma radiation on anthocyanin content in leaves of *Rumex* and other plant genera. *Radiat. Bot.* 8(1):7-16. Ref. Feb. 1968. 450 R11
- 69207 SPROSTON, T., and SETLOW, R. B. Ergosterol and substitutes for the ultraviolet radiation requirement for conidia formation in *Stemphylium solani*. *Mycologia* 60(1):104-114. Ref. Jan./Feb. 1968. 450 M99
- 69208 STEINER, M., and others. Biosynthesis of volatile amine by an aminotransaminase in flowering plants. (Ge) *Naturwissenschaften* 54(14):370-371. July 15, 1967. 474 N213  
T. Hartmann, D. Donges, and E. Bast, joint authors.  
Chiefly in *Mercurialis perennis*.
- 69209 STEWARD, F. C., KENT, A. E., and MAPES, M. O. Growth and organization in cultured cells: sequential and synergistic effects of growth-regulating substances. *N. Y. Acad. Sci. Ann.* 144(1):326-334. Ref. Aug. 9, 1967. 500 N484  
Asparagus, *Arabidopsis thaliana*, and *Nicotiana suaveolens*.
- 69210 STEYER, B. Relations of the volume response in geotropic and phototropic stimulation; a comparison of mono- and dicotyledons. (Ge) *Planta* 77(3):277-286. Ref. 1967. 450 P693  
English summary.
- 69211 STOENESCU, M. S., and others. Influence of irrigation on phytoclimatic conditions. (Rum) *Hidroteh. Gospod. Apelor Meteorol.* 12(6):320-327. June 1967. 345 M562  
O. Neacsu, G. Popa, R. Lorentz, A. Sabau, and C. Popovici, joint authors.  
English summary, p. 3 of supplement.  
Microclimate.
- 69212 STOLAREK, J. Bioelectrical potentials and ionic relations in cells of *Chara fragilis* Desvauz. *Lublin. Univ. Marii Curie-Sklodowskiej. Ann. Sect. C*, 21:395-405. Ref. 1966, pub. 1967. 512 L96Ac
- 69213 STONIER, T., RODRIGUEZ-TORMES, F., and YONEDA, Y. Studies on auxin protectors. IV. The effect of manganese on auxin protector-I of the Japanese morning glory [*Pharbitis nil*]. *Plant Physiol.* 43(1):69-72. Ref. Jan. 1968. 450 P692
- 69214 STRZELCZYK, E., and MICHNIEWICZ, M. A simple microbiological method for detection of plant growth inhibitors. *Soil Biol. Int. News Bull.* 7:32-34. July 1967. S590.B5
- 69215 SURI, O. P., and ATAL, C. K. Isolation of monocrotaline and crispatine from *Crotalaria lechnaultii*. *Cur. Sci.* 36(22):614-615. Nov. 20, 1967. 475 Sci23
- 69216 SUSSMAN, R. R. RNA metabolism during cytodifferentiation in the cellular slime mold *Polysphondylium pallidum*. *Biochim. Biophys. Acta* 149(2):407-421. Ref. Dec. 19, 1967. 381 B522
- 69217 SUTCLIFFE, J. F. The role of magnesium and potassium in plant nutrition and the mechanism of their absorption by cells. *Great Brit. Min. Agr. Fish. Food. Tech. Bull.* 14:1-8. Ref. 1967. 10 G79T
- 69218 SWADER, F. N. Evaluation of polyethylene canopies as plot covers. *Amer. Soc. Agr. Eng. Trans. ASAE* 10(2):230-232, 251. 1967. 290.9 Am32T  
Comparison of plant growth under a canopy with that in an open area and its response to irrigation.
- 69219 SYMPOSIUM: ASPECTS OF THE BIOLOGY OF AGEING, SHEFFIELD, 1966. [Papers]. *Soc. Exp. Biol. Symp.* 21, 634 p. Ref. 1967. 442.9 So15  
Chiefly plants.
- 69220 SYTNYK, K. M. Ukrainian plant physiology science of the post-October period. (Ukr) *Ukr. Bot. Zh.* 24(5):29-43. Sept./Oct. 1967. 450 J8212J
- 69221 TABAK, H. H., and COOKE, W. B. Growth and metabolism of fungi in an atmosphere of nitrogen. *Mycologia* 60(1):115-140. Ref. Jan./Feb. 1968. 450 M99
- 69222 TATARENKO, E. S., and KONONENKO, A. P. Primary luminescence of molds. (Rus) *Mikrobiologiya* 36(4):691-696. July/Aug. 1967. 448.3 M582  
English summary.

- 69223 TAYLOR, H. F., and SMITH, T. A. Production of plant growth inhibitors from xanthophylls: a possible source of dormin. *Nature* 215(5109): 1513-1514. Ref. Sept.30,1967. 472 N21  
From *Urtica dioica*.
- 69224 TEAL, J. M. Biological production and distribution of  $pCO_2$  in Woods Hole waters. Conf. Estuaries. Papers 1964:336-340. 1967. QH91.A3C6 1964  
Photosynthesis of plankton.
- 69225 TERBORGH, J., MCLEOD, G. C., and HELLEBUST, J. The photosynthetic rhythm of *Acetabularia crenulata*. I-II. *Biol. Bull.* 133(3):659-678. Ref. Dec.1967. 442.8 B52
- 69226 TERENCEV, V. M., EMEL'YANOV, L. G., and BOKUT', V. V. Installation for study of transpiration of plants. (Rus) *Vses. Bot. Obschch. Belorussk. Otd. Sb. Bot. Rabot* 9:9-13. Ref. 1967. 451 V967
- 69227 THOMAS, A. S. Influence of light quality and intensity on carbohydrate metabolism in plants. *Diss. Abstr.*, Sect. B, 28(6):2288B-2289B. Dec.1967. Z5055.U49D53
- 69228 THOMPSON, C. M., and WHITTINGHAM, C. P. Intracellular localisation of phosphoglycolate phosphatase and glyoxalate reductase. *Biochim. Biophys. Acta* 143(3):642-644. Ref. Nov.7,1967. 381 B522  
In photosynthesis.
- 69229 TIKHONOVSKAYA, N. G., and VOLODARSK, A. D. Isolation of monospecific gamma-globulin from exhausted sera for investigation of proteins from plant cells. *Soviet Plant Physiol.* 14(5):800-802. Ref. Sept./Oct.1967, pub. 1968. 450 F58Ae  
Translation from *Fiziologiya Rastenii*.
- 69230 TODD, E. H. Primary productivity of the Madison River in Yellowstone National Park, Wyoming. *Diss. Abstr.*, Sect. B, 28(5):1812B. Nov.1967. Z5055.U49D53  
Photosynthesis.
- 69231 TRAINOR, F. R., and ROSKOSKY, F. G. Control of unicell formation in a soil *Scenedesmus*. *Can. J. Bot.* 45(9):1657-1664. Ref. Sept.1967. 470 C16C
- 69232 TRINCI, A. P. J., and BANBURY, G. H. A study of the growth of the tall conidiophores of *Aspergillus giganteus*. *Brit. Mycol. Soc. Trans.* 50(4):525-538. Ref. Dec.1967. 451 B76
- 69233 TSCHESCHE, R., FROHBERG, E., and FEHLHABER, H. W. Alkaloids from *Rhamnaceae*. IV. Integerrin, a further peptide alkaloid from *Ceanothus integerrimus* Hook et Arn. (Ge) *Tetrahedron Lett.* 11:
- 69234 TURVEY, J. R., and CHRISTISON, J. The enzymic degradation of porphyrin. *Biochem. J.* 105(1):317-321. Ref. Oct.1967. 382 B52  
Algal galactan.
- 69235 TURVEY, J. R., and CHRISTISON, J. The hydrolysis of algal galactans by enzymes from a *Cytophaga* species. *Biochem. J.* 105(1):311-316. Ref. Oct.1967. 382 B52
- 69236 TUVESON, R. W., WEST, D. J., and BARRATT, R. W. Glutamic acid dehydrogenases in quiescent and germinating conidia of *Neurospora crassa*. *J. Gen. Microbiol.* 48(2): 235-248. Ref. Aug.1967. 448.3 J823
- 69237 UMAROV, A. A. On the possibilities to achieve two potato crops through guided growing and chemical stimulation. (Bu) *Gradinarska Lozarska Nauk.* 3(2):207-218. Ref. 1966. 87 G75  
English summary.  
Includes effects of thiourea and gibberellin.
- 69238 VAN ETEN, J. L., and GOTTLIEB, D. Studies on the mode of action of tetrin A. *J. Gen. Microbiol.* 46(3):377-387. Ref. Mar.1967. 448.3 J823  
In fungi.
- 69239 VERNON, L. P., and BOTTOMS, J. R., eds. Current literature survey of photosynthesis. XII. *Photochem. Photobiol.* 7(1):117-125. Jan. 1968. 382 P56  
A bibliography.
- 69240 VIL'YAMS, V. V., and SEMENOVA, N. K. Distribution of vitamin E in plants. (Rus) *Timiryazevskaya Sel'skokhoz. Akad. Izv.* 6:36-47. Ref. 1967. 106 P44  
English summary.
- 69241 WAISS, A. C., and others. Photochemistry of quercetin pentamethyl ether. *Amer. Chem. Soc. J.* 89(24):6213-6218. Ref. Nov.22,1967. 381 Am33J  
R. E. Lundin, A. Lee, and J. Corse, joint authors.  
From plant flavonoids.
- 69242 WALTER, H. Physiological prerequisites of autotrophic plants in their transition from life in water to life on soil. (Ge) *Deut. Bot. Ges. Ber.* 80(1):40-42. 1967. 451 D48
- 69243 WAREING, P. F., and SETH, A. K. Ageing and senescence in the whole plant. *Soc. Exp. Biol. Symp.* 21:543,558. Ref. 1967. 442.9 So15
- 69244 WASSERMAN, H. H., FRIEDLAND, D. J., and MORRISON, D. A. A novel dipyrrolydipyrromethene prodigiosin analog from *Serratia marcescens*. *Tetrahedron Lett.* 6:641-644. Feb. 1968. 385 T29
- 69245 WEAVER, E. C. Kinetic behavior of EPR [electron paramagnetic resonance] signal I: induction effects in intact algae. *Photochem. Photobiol.* 7(1):93-100. Ref. Jan.1968. 382 P56  
Light-induced.
- 69246 WERBIN, H., and RUPERT, C. S. Presence of photoreactivating enzyme in blue-green algal cells. *Photochem. Photobiol.* 7(2):225-230. Ref. Feb.1968. 382 P56
- 69247 WERNER, D. High lactic dehydrogenase activity in aerobically growing diatoms. (Ge) *Naturwissenschaften* 54(17):474-475. Sept.1,1967. 474 N213  
In *Cyclotella cryptica* and *Navicula pelliculosa*.
- 69248 WERZ, G. Induction of cell wall formation by foreign protein in *Acetabularia mediterranea*. (Ge) *Naturwissenschaften* 54(14):374. July 15,1967. 474 N213
- 69249 WESSELS, J. G. H., and NIEDERPRUEM, D. J. Role of a cell-wall glucan-degrading enzyme in mating of *Schizophyllum commune*. *J. Bacteriol.* 94(5):1594-1602. Ref. Nov.1967. 448.3 J82
- 69250 WHISTANCE, G. R., THRELFALL, D. R., and GOODWIN, T. W. Observations on the biosynthesis of phytoterpenoid quinone and chromanol nuclei. *Biochem. J.* 105(1):145-154. Ref. Oct.1967. 382 B52  
In plants.
- 69251 WIELAND, T. The toxic peptides of *Amanita phalloides*. *Fortschr. Chem. Org. Naturstoffe* 25:214-250. 1967. 384 F773  
Review of the literature.
- 69252 WILLIAMS, W. P. Comparison of the separate package and spill-over models of photosynthesis for the alga *Chlorella pyrenoidosa*. *Biochim. Biophys. Acta* 153(2):484-489. Ref. Feb.12,1968. 381 B522
- 69253 WOLLGIEHN, R. Nucleic acid and protein metabolism of excised leaves. *Soc. Exp. Biol. Symp.* 21:231-246. Ref. 1967. 442.9 So15
- 69254 WOOLHOUSE, H. W. The nature of senescence in plants. *Soc. Exp. Biol. Symp.* 21:179-213. Ref. 1967. 442.9 So15
- 69255 WURSTER, C. F. DDT reduces photosynthesis by marine phytoplankton. *Science* 159(3822): 1474-1475. Ref. Mar.29,1968. 470 Sci2
- 69256 YARIV, J., LIS, H., and KATCHALSKI, E. Precipitation of arabic acid and some seed polysaccharides by glycosylphenylazo dyes. *Biochem. J.* 105(1):1C-2C. Oct.1967. 382 B52
- 69257 YONEDA, Y., and STONIER, T. Distribution of three auxin protector substances in seeds and shoots of the Japanese morning glory (*Pharbitis nil*). *Plant Physiol.* 42(7):1017-1020. July 1967. 450 P692



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July 1968

N. K.  
(Rus), Ti-  
zv. 6:36

69258

YOSHIMOTO, A., NAK  
R. Isolation from Asp  
protein catalyzing the

- 69288 CHOPYAK, A. M., BUDITSKAYA, E. V., and STOLETOV, V. N. The effect of  $\gamma$ -irradiation on seed on the nucleic exchange in barley ontogeny. (Rus) Akad. Nauk SSSR. Dokl. 178 (2):478-481. Ref. 1968. 511 P444A
- 69289 CLELAND, R. Inhibition of formation of protein-bound hydroxyproline by free hydroxyproline in *Avena sativa* coleoptiles. Plant Physiol. 42(9):1165-1170. Ref. Sept.1967. 450 P692
- 69290 COHEN, D., and PALEG, L. G. Physiological effects of gibberellic acid. X. The release of gibberellin-like substances by germinating barley embryos. Plant Physiol. 42(9):1288-1296. Ref. Sept.1967. 450 P692
- 69291 CONGER, B. V. The influence of seed water content of the oxygen effect in irradiated barley seeds. Diss. Abstr., Sect. B, 28(6):2270B-2271B. Dec.1967. Z5055.U49D53
- 69292 CONGER, B. V., NILAN, R. A., and KONZAK, C. F. Post-irradiation oxygen sensitivity of barley seeds varying slightly in water content. Radiat. Bot. 8(1):31-36. Ref. Feb.1968. 450 R11  
Gamma rays.
- 69293 COOK, F. S., and WALDEN, D. B. The male gametophyte of *Zea mays* L. III. The influence of temperature and calcium on pollen germination and tube growth. Can. J. Bot. 45(5):605-613. Ref. May 1967. 470 C16C
- 69294 CRAKER, L. E. The accumulation and distribution of strontium within tissues of a wheat spike. Diss. Abstr., Sect. B, 28(6):2211B. Dec.1967. Z5055.U49D53
- 69295 DAVIES, C. R. Effects of gamma irradiation on growth and yield of agricultural crops. I. Spring sown wheat. Radiat. Bot. 8(1):17-30. Ref. Feb.1968. 450 R11
- 69296 EFFER, W. R., and RANSON, S. L. Respiratory metabolism in buckwheat seedlings. Plant Physiol. 42(8):1042-1052. Ref. Aug.1967. 450 P692
- 69297 EFFER, W. R., and RANSON, S. L. Some effects of oxygen concentration on levels of respiratory intermediates in buckwheat seedlings. Plant Physiol. 42(8):1053-1058. Aug.1967. 450 P692
- 69298 EGNEUS, H. Primary photosynthetic induction phenomena in wheat. Physiol. Plant. 20(2):463-476. Ref. 1967. 450 P564  
Chiefly oxygen evolution and effects of light.
- 69299 FEKETE, M., CSEH, E., and BOSZORMENYI, Z. Effect of preloading on alanine absorption by wheat roots. Physiol. Plant. 20(2):400-407. Ref. 1967. 450 P564  
Tests with  $^{14}\text{C}$ -alanine.
- 69300 FERGUSON, J. D. The nutrition of excised wheat roots. Physiol. Plant. 20(2):276-284. Ref. 1967. 450 P564
- 69301 FULTON, J. M. Growth and yield of oats as influenced by soil temperature, ambient temperature and soil moisture supply. Can. J. Soil Sci. 48(1):1-5. Feb.1968. 56.8 C162
- 69302 HALL, M. A., and ORDIN, L. Subcellular location of phosphoglucosylase and UDP glucose pyrophosphorylase in *Avena sativa* coleoptiles. Physiol. Plant. 20(3):624-633. Ref. 1967. 450 P564
- 69303 HAYASHI, K. Efficiencies of solar energy conversion in rice varieties as affected by cultivating period. Crop Sci. Soc. Japan. Proc. 36(4):422-428. Dec.1967. 22.5 C66
- 69304 HODGES, T. K., and ELZAM, O. E. Effect of azide and oligomycin on the transport of calcium ions in corn mitochondria. Nature 215(5104):970-972. Ref. Aug.26,1967. 472 N21
- 69305 HUISINGA, B. Influence of irradiation on the distribution of growth in dark-grown *Avena sativa* seedlings. Acta Bot. Neer. 16(5):197-201. Nov.1967. 450 Ac822  
Influence of red and blue light
- 69306 IVANOV, V. B., OBRUCHEVA, N. V., and LITINSKAYA, T. K. Analysis of the effect of chloramphenicol on corn-root growth. Soviet Plant Physiol. 14(5):661-669. Sept./Oct.1967, pub.1968. 450 F58Ae  
Translation from Fiziologiya Rastenii.
- 69307 JANOVSKI, I., and others. Factors affecting the sensitivity of wheat and cotton seeds to ethylenimine and ethyl methanesulfonate. (Se) Savremena Poljoprivreda 15(1):13-23. Ref. Jan.1967. 21 P75  
J. Dumanovic, M. Denic, and D. Perakliev, joint authors.  
English summary.  
Seed treatment and its effects on growth.
- 69308 KELLER, C. J., and HUFFAKER, R. C. Evidence for in vivo light-induced synthesis of ribulose-1,5-diP carboxylase and phosphoribulokinase in greening barley leaves. Plant Physiol. 42(9):1277-1283. Ref. Sept.1967. 450 P692
- 69309 KEMP, R. J., GOAD, L. J., and MERCER, E. I. Changes in the levels and composition of the esterified and unesterified sterols of maize seedlings during germination. Phytochemistry 6(12):1609-1615. Dec.1967. 450 P5622
- 69310 KIMBER, R. W. L. Phytotoxicity from plant residues. I. The influence of rotted wheat straw on seedling growth. Australian J. Agr. Res. 18(3):361-374. Ref. May 1967. 23 Au783  
Inhibiting growth of wheat and oats.
- 69311 KING, R. W., WARDLAW, I. F., and EVANS, L. T. Effect of assimilate utilization on photosynthetic rate in wheat. Planta 77(3):261-276. Ref. 1967. 450 P693
- 69312 KONOVALOV, YU. B. Different terms of grain maturing in cereal spike. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 131:215-220. 1967. 20 M857  
Barley.
- 69313 LANTICAN, B. P., and MUIR, R. M. Isolation and properties of the enzyme system forming indoleacetic acid. Plant Physiol. 42(8):1158-1160. Ref. Aug.1967. 450 P692  
Using oats.
- 69314 LITTLE, C. H. A., and GOLDSMITH, M. H. M. Effect of inversion on growth and movement of indole-3-acetic acid in coleoptiles. Plant Physiol. 42(9):1239-1245. Ref. Sept.1967. 450 P692  
Effects of gravity on corn and oats, tests using  $^{14}\text{C}$ -IAA.
- 69315 LUPTON, F. G. H. The analysis of grain yield of wheat in terms of photosynthetic ability and efficiency of translocation. Ann. Appl. Biol. 61(1):109-119. Ref. Feb.1968. 442.8 An72  
Using  $^{14}\text{CO}_2$ .
- 69316 MATSUSHIMA, S., and others. Analysis of yield-determining process and its application to yield prediction and culture improvement of lowland rice. 76. Responses of rice plants grown under different types of weather conditions to different fertilizing methods of nitrogen. (Ja) Crop Sci. Soc. Japan. Proc. 36(4):435-442. Dec.1967. 22.5 C88  
T. Tanaka, T. Manaka, and M. Shiomi, joint authors.  
English summary.
- 69317 MCGEOWN, P., and MAGUIRE, M. F. Relationship between crude protein content and amino acid composition of Irish barleys. Irish J. Agr. Res. 6(2):221-227. Ref. Oct.1967. 10.5 Ir45
- 69318 MER, C. L., and CAUSTON, D. R. Analytical studies of the growth of the etiolated seedling of *Avena sativa*. II. The effects of growth-modifying factors on cell division and extension. New Phytol. 66(4):665-681. Ref. Oct.1967. 450 N42  
Includes temperature.
- 69319 MIHAILESCU, I. G., NEDELICU, P., and COIFAN, M. The concentration of cellular juices as a physiological index of the need of plants for irrigation. (Rum) Craiova. Inst. Agron. "Tudor Vladimirescu." Lucrari Stiint. 8:43-57. 1966. 106.4 C84  
English summary.  
Corn.
- 69320 MOUSTAFA, S. M. A. Mechanical properties and structural stability of the wheat plant. Diss. Abstr., Sect. B, 28(3):882B. Sept.1967. Z5055.U49D53



- 69321 MUNSON, R. D. Potassium builds corn quality. Better Crops Plant Food 52(1):4-5. 1968. 6 B46
- 69322 MURATA, T., and others. Enzymic mechanism of starch synthesis in ripening rice grains. V. Arch. Biochem. Biophys. 123(1):97-103. Ref. Jan.1968. 381 Ar2  
N. Nakayama, Y. Tanaka, and T. Akazawa, joint authors.
- 69323 MURATA, Y., AKITA, S., and HONMA, T. Studies on the photosynthesis of rice plants. XIV. The effect of white mulch on dry matter production and yield of rice. (Ja) Crop Sci. Soc. Japan. Proc. 36(4):443-447. Dec.1967. 22.5 C88  
English summary.  
Styrofoam mulch.
- 69324 NWOKE, F. I. O. The relation of functional xylem to absorption and translocation of P32 in Zea mays, L. Diss. Abstr., Sect. B, 28(6): 2286B. Dec.1967. Z5055.U49D53
- 69325 OKAJIMA, H., HONDA, T., and TOKAIRIN, H. Rice plant growth in population under the controlled root environments. (Ja) Tohoku Univ. Inst. Agr. Res. Bull. 19(1):25-53. Ref. Oct. 1967. 107.6 T577  
English summary.
- 69326 ORLYUK, A. P. Development of heterosis with regard to productivity elements of the hybrid winter wheat head, under different growing condition. (Rus) Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina. Dokl. 1:4-7. Ref. Jan.1968. 20 Ak1
- 69327 OSADCHA, O. O. Effect of rice seed treatment with minor elements on its growth and productivity. (Uk) Visn. Sil's'kohospod. Nauk. 1:56-57. Jan.1968. 20 V#2  
Russian summary.
- 69328 PARK, J. K. Studies on varietal difference in physiological characteristics of rice plant. I. Varietal difference of the physiological activity of the root and its correlation with the top part of rice plant. (Ja) Crop Sci. Soc. Japan. Proc. 36(4):377-383. Ref. Dec.1967. 22.5 C88  
English summary.  
Korea.
- 69329 PARK, J. K. Studies on varietal difference in physiological characteristics of rice plant. II. Varietal difference in nutrient absorption of the rice plant. (Ja) Crop Sci. Soc. Japan. Proc. 36(4):384-388. Ref. Dec.1967. 22.5 C88  
English summary.  
Korea.
- 69330 PARMAR, M. T. Use of carbowax polyethylene glycol 6000, mannitol and sodium chloride for simulating drought conditions during germination and seedling growth of corn (Zea mays L.). Diss. Abstr., Sect. B, 28(2):756B-757B. Sept.1967. Z5055.U49D53
- 69331 PATNAIK, S., BHADRACHALAM, A., and JOHN, J. Productive efficiency of nitrogen absorbed during various growth stages of high-yielding Taiwan rice varieties under tropical conditions. Indian J. Agr. Sci. 37(4):282-289. Ref. Aug.1967. 22 Ag83I
- 69332 PRENTICE, N., and others. The distribution of acidic and neutral peptidases in barley and wheat kernels. Physiol. Plant. 20(2):361-367. 1967. 450 P564  
W. C. Burger, J. Kastenschmidt, and J. D. Huddle, joint authors.
- 69333 QUIMBY, P. C. Studies relating to the selectivity of dicamba for wild buckwheat (Polygonum convolvulus L.) vs Selkirk wheat (Triticum aestivum L.) and a possible mode of action. Diss. Abstr., Sect. B, 28(6):2214B. Dec.1967. Z5055.U49D53
- 69334 RAKK, I. The drought of 1967 and yield of corn. (Hu) Magyar Mezogazdasag 23(10):12-13. Mar.6,1968. 19 M27
- 69335 RAVERDY, M. Growth regulators causing nanism. (Fr) Rev. Pathol. Comp. 67(790): 363-373. Ref. Sept.1967. 448.8 R326  
English summary.  
Chlorocholine chloride effects on wheat.
- 69336 ROBERTS, R. M., and BUTT, V. S. Rates of incorporation of label from d-[14C] glucose into different regions of the root-tip of maize (Zea mays L.). New Phytol. 66(4):563-567. Oct.1967. 450 N42
- 69337 SACHAN, J. N., VERMA, J. K., and SRIVASTAVA, B. P. Effect of the application of soil insecticides on the germination and growth of wheat. Indian J. Entomol. 29(2):185-188. June 1967. 420 In23
- 69338 SAGHIR, A. R., KHAN, A. R., and WORZELLA, W. W. Effects of plant parts on the grain yield, kernel weight, and plant height of wheat and barley. Agron. J. 60(1):95-97. Ref. Jan. Feb. 1968. 4 Am34P
- 9339 SAGUTONOVA, T. N. Effect of fertilizers and form of hybrids on dynamics of accumulation of carotinoids in corn. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 5:22-24. May 1967. 20 V633  
English summary.
- 69340 SEKIYA, F. Studies on the tillering primordium and tillering bud in rice seedlings. 10. Effect of potassium deficiency on the development of tillering buds. (Ja) Crop Sci. Soc. Japan. Proc. 36(4):408-413. Dec.1967. 22.5 C88  
English summary.
- 69341 SHATILOV, F. V., and TRIFONOVA, M. F. Effect of continuous electric flow on swelling and germination of barley. (Rus) Selek. Semenovod. 6:59-62. Nov., Dec.1967. 61.9 Se5
- 69342 SHORTESS, D. K., BELL, W. D., and WRIGHT, J. E. The lutescent mutant in maize. II. Nitrogen metabolism. Genetics 58(2):237-248. Ref. Feb.1968. 442.8 G28
- 69343 SINHA, M. N., and GAUTAM, O. P. Benedyné, a new synthetic soil aggregating chemical and plant growth stimulant for increasing crop production: trials with wheat. Cur. Sci. 36 (12):311-313. June 20,1967. 475 Sci23
- 69344 SISTO, A. M. Cycocel, new factor in wheat productivity. (It) G. Agr. 78(4):38. Jan.28, 1968. 16 It1G
- 69345 SMIRNOV, G. V. Effect of electricity on growth, and development and yields of cereals. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 131:51-56. 1967. 20 M857  
Treatment of barley seeds.
- 69346 SMITH, D. T., and CLARK, N. A. Effect of soil nutrients and pH on nitrate nitrogen and growth of pearl millet (Pennisetum typhoides (Burm.) Staph and Hubbard) and sudangrass (Sorghum sudanense (Piper) Staph). Agron. J. 60(1):38-40. Ref. Jan./Feb.1968. 4 Am34P
- 69347 SMITH, L. P. The effect of weather on the growth of barley. Field Crop Abs. 20(4):273-278. Nov.1967. 241 C73  
Review of the literature.
- 69348 STEER, B. T., and BEEVERS, H. Compartmentation of organic acids in corn roots. III. Utilization of exogenously supplied acids. Plant Physiol. 42(9):1197-1201. Sept.1967. 450 P692  
Tests using acids labelled with radioactive carbon and tritium.
- 69349 TESTER, C. F. Ribonucleic acid synthesis in developing and senescing tissues of germinating oats. Diss. Abstr., Sect. B, 28(6):2266B-2267B. Dec.1967. Z5055.U49D53
- 69350 THRELFALL, D. R., WHISTANCE, G. R., and GOODWIN, T. W. Biosynthesis of phytoquinones; incorporation of L-(Me-14C, 3H) methionine into terpenoid quinones and chromanols in maize shoots. Biochem. J. 106(1):107-112. Ref. Jan.1968. 382 B52
- 69351 TOMAN, F. R. Investigations on the soluble proteins of winter wheat crown tissue and their relationship to cold hardness. Diss. Abstr., Sect. B, 28(3):789B-790B. Sept.1967. Z5055.U49D53
- 69352 UEKKUELL, H. R. VON. Potassium builds rice quality. Better Crops Plant Food 52(1):22-23. 1968. 6 B46

- 69353 UGOCHUKWU, E. N., and WAIN, R. L. Studies on plant growth-regulating substances. XXV. The plant growth-regulating activity of cinnamic acids. *Ann. Appl. Biol.* 61(1):121-130. Ref. Feb.1968. 442.8 An72  
Tests with wheat and peas.
- 69354 UKOLOV, A. A., and MAKSIMOV, I. L. Blooming and pollination of durum and soft winter wheat. (Rus) *Timiryazevskaya Sel'skokhoz. Akad. Izv.* 6:71-84. Ref. 1967. 106 P44  
English summary.
- 69355 UKOLOV, A. A., and BYKOV, V. I. Overwintering of the hard winter wheat, as influenced by planting date. (Rus) *Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl.* 131:199-202. 1967. 20 M857
- 69356 UKOLOV, A. A., and MAKSIMOV, I. L. Pollination of the soft and winter wheat by wind in the Moscow Region. (Rus) *Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl.* 131:193-198. 1967. 20 M857
- 69357 VAKHMISTROV, D. B., and LISTOVA, M. P. Direct action of ATP on the absorptive apparatus of barley roots. *Soviet Plant Physiol.* 14(5):700-707. Ref. Sept./Oct.1967,pub.1968. 450 F58Ae  
Translation from *Fiziologiya Rastenii*.
- 69358 VERGARA, B. S., and LILIS, R. Response to photoperiod of reported long-day and intermediate varieties of rice. *Nature* 216(5111):168. Oct.14,1967. 472 N21
- 69359 VETTER, H., and TEUTEBERG, W. Is the optimal nitrogen application for winter wheat very near to the limit of lodging? (Ge) *Z. Acker- Pflanzbau* 126(2):157-163. Sept.1967. 18 J825  
English summary.
- 69360 VEZ, A. Examination of the influence of planting date and CCC application on wheat in "repiaje." (Fr) *Agr. Romande (ser.A)*7(1):2-3. Jan.1968. 17 Ag8
- 69361 VIRGIN, H. I. Carotenoid synthesis in leaves of etiolated wheat seedlings after varying light and dark treatments. *Physiol. Plant.* 20(2):314-320. Ref. 1967. 450 P564  
Tests with red light.
- 69362 WALLIHAN, E. F., and GARBER, M. J. Effect of iron nutrition on root: top ratio. *Agron. J.* 60(1):41-42. Ref. Jan./Feb.1968. 4 Am34P  
Tested with rice and orange.
- 69363 WILKINS, M. B., and SHAW, S. Geotropic response of coleoptiles under anaerobic conditions. *Plant Physiol.* 42(8):1111-1113. Ref. Aug.1967. 450 P692  
Corn and oats.
- 69364 WOODSTOCK, L. W., and GRABE, D. F. Relationships between seed respiration during imbibition and subsequent seedling growth in *Zea mays* L. *Plant Physiol.* 42(8):1071-1076. Ref. Aug.1967. 450 P692
- 69365 ZADONTSEV, A. I., ARTYUKH, A. D., and KLIMOV, A. N. Peculiarities of wheat and rye germination, resistance to drought and productivity, as related to moisture and temperature of soil. (Rus) *Vestnik Sel'skokhoz. Nauk. [Moscow]* 1:10-17. Ref. 1968. 20 V633  
English summary.
- 69366 ZAMARAIEV, A. G. Accumulation of nitrogen, phosphorus and potassium by corn, depending on the density of plant stands. (Rus) *Timiryazevskaya Sel'skokhoz. Akad. Izv.* 6:48-62. Ref. 1967. 106 P44  
English summary.
- Physiology and Biochemistry - Fiber Crops
- 69367 ABTOMOV, A. I., and MAKHMADALIEV, K. M. Developing stages and the maturing of cotton. (Rus) *Khlopkovodstvo* 12:28-29. Dec.1967. 72.8 K522
- 69368 ADDICOTT, F. T., and others. Absciscic acid: a new name for abscisin II (Dormin). *Science* 159(3822):1493. Mar.29,1968. 470 Sci2  
J. L. Lyon, K. Okhuma, W. E. Thiessen, H. R. Carns, O. E. Smith, J. W. Cornforth, B. V. Milborrow, G. Ryback, and P. F. Wareing, joint authors.  
Isolated from cotton.
- 69369 ANDERSON, O. E., and BOSWELL, F. C. Harvest more cotton earlier by using manganese or boron. *Crops Soils* 20(7):30. Apr./May 1968. 6 W55
- 69370 BORNMAN, C. H. The relationship between tylosis and abscission in cotton (*Gossypium hirsutum* L.) explants. *S. Afr. J. Agr. Sci.* 10(1):143-149,151-153. Ref. Mar.1967. 24 Su3
- 69371 GLADSTONES, J. S., and LONERAGAN, J. F. Mineral elements in temperate crop and pasture plants. I. Zinc. *Australian J. Agr. Res.* 18(3):427-446. Ref. May 1967. 23 Au783
- 69372 JOHNSON, R. E., and ADDICOTT, F. T. Boll retention in relation to leaf and boll development in cotton (*Gossypium hirsutum* L.) *Crop Sci.* 7(6):571-574. Ref. Nov./Dec.1967. 64.8 C883  
Includes effect of gibberellic acid.
- 69373 KAMINSKAYA, M. E. A new method of treating flax seeds, before planting. (Rus) *Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl.* 131:75-79. 1967. 20 M857  
Application of chemicals to promote better germination.
- 69374 KRAFT, V. A., and BOKAREV, K. S. Translocation and transformation of the defoliant BEXT. in plants. *Soviet Plant Physiol.* 14(5):781-784. Ref. Sept./Oct.1967,pub.1968. 450 F58Ae  
Tests with  $S^{35}$ -labeled bis-ethyloxanthogen trisulfide used on cotton and bean plants.  
Translation from *Fiziologiya Rastenii*.
- 69375 MORGAN, P. W., and POWELL, R. D. The plant environment riddle. *Tex. Agr. Progr.* 14(1):7-9. Winter 1968. 100 T31Te  
Effects of environment on cotton.
- 69376 NAMKEN, L. N., GERARD, C. J., and BROWN, R. G. Evapotranspiration of cotton and estimation methods. *Agron. J.* 60(1):4-7. Ref. Jan./Feb.1968. 4 Am34P
- 69377 SMIRNOV, V. I., and BASNAK'YAN, G. A. The formation period of cotton bolls and their physical and mechanical properties. (Rus) *Selek. Semenovod.* 6:57-59. Nov./Dec.1967. 61.9 Se5
- 69378 YANAGISAWA, Y. Effects of shading on the growth and some properties of fiber cells of flax plant, *Linum usitatissimum* L. (Ja) *Crop Sci. Soc. Japan. Proc.* 36(4):429-434. Ref. Dec.1967. 22.5 C88  
English summary.
- 69379 YOUNTS, S. E. Potassium builds cotton quality. *Better Crops Plant Food* 52(1):14-15. 1968. 6 B46
- Physiology and Biochemistry - Forage Crops and Grasses
- 69380 ARKHANGEL'SKAYA, Z. M. Opening dynamics and rhythm of broadbean flowers. (Rus) *Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl.* 131:107-109. 1967. 20 M857
- 69381 BAKAI, S. M., and HETYA, N. V. Results on investigation of the quality of forage plant green cut, grown by hydroponics. (Uk) *Visn. Sil's'kohospod. Nauk.* 1:66-73. Jan.1968. 20 V82  
Russian summary.
- 69382 BEBIN, S. I. New data on germination of *Faba vulgaris* Moench. (Rus) *Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl.* 131:81-83. 1967. 20 M857
- 69383 BEREZHNYAYA, Z. G. Photosynthetic activities of early maturing white lupine. (Rus) *Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl.* 131:85-91. 1967. 20 M857
- 69384 BLYDENSTEIN, J. Root and leaf development of *Brachiaria ruziziensis* seedlings. *Trop. Agr. [St. Augustine]* 44(4):293-296. Oct.1967. 26 T754
- 69385 BROCKWELL, J., and ROUGHLEY, R. J. An examination of the number of nodule bacteria associated with legume seed following commercial multiple inoculation. *Australian Inst. Agr. Sci. J.* 33(3):204-207. Ref. Sept.1967. 23 Au74  
Clover.



- 69386 BRUNNER, F. Effect of different forms and dressings of phosphate on yield and phosphate content of meadow hay. (Ge) Wirtschaftseigene Futter 14(1):18-33. Ref. Jan.1968. 389.79 F98 English summary.
- 69387 BURZLAFF, D. F., FICK, G. W., and RITTENHOUSE, L. R. Effect of nitrogen fertilization on certain factors of a western Nebraska range ecosystem. J. Range Manage. 21(1):21-24. Ref. Jan.1968. 60.18 J82  
Effects on yields and composition of various forages.
- 69388 CARLETON, A. E., COOPER, C. S., and WIENER, L. E. Effect of seed pod and temperature on speed of germination and seedling elongation of sainfoin (*Onobrychis viciaefolia* Scop). Agron. J. 60(1):81-84. Jan./Feb.1968. 4 Am34P
- 69389 CHAMURA, S., and MIZUSIMA, T. Studies on the relation between the tolerance of crops to soil acidity and that to low pH. 14. The effects of fertilization on acidic soils with different pH values. (Ja) Crop Sci. Soc. Japan. Proc. 36(4):346-353. Ref. Dec.1967. 22.5 C88  
English summary.  
Effects of fertilizers on the growth of *Lolium multiflorum* and *Astragalus*; includes the addition of lime.
- 69390 CHAMURA, S. Studies on the relation between the tolerance of crops to soil acidity and that to low pH. 15. The effects of aluminum, hydrogen ion, lime, magnesium, nitrate and nitrite of varying concentrations on the growth of Italian ryegrass and milkvetch. (Ja) Crop Sci. Soc. Japan. Proc. 36(4):361-368. Ref. Dec.1967. 22.5 C88  
English summary.  
*Lolium multiflorum* and *Astragalus sinicus*.
- 69391 CUMMINGS, K. R. Plant and animal response to nitrogen fertilization of Zea mays and Sorghum vulgare var. sudanense. Diss. Abstr., Sect. B, 28(6):2202B. Dec.1967. Z5055.U49D53
- 69392 DANIEL, P. R. C., and WATT, L. A. Meteorological observations at Inverell Research Station, 1949-1965. New S. Wales. Soil Conserv. Serv. J. 23(3):203-241, map. Ref. July 1967. 56.9 N472  
Includes effects of temperature on pasture growth, precipitation and evapotranspiration.
- 69393 DOWNES, R. W., and others. The effect of daylength and temperature on the growth and reproduction of six strains of Townsville lucerne (*Stylosanthes humilis*). Australian J. Exp. Agr. Anim. Husb. 7(27):351-356. Aug. 1967. 23 Au792  
I. B. Staples, P. A. Colman, and L. Pedley, joint authors.
- 69394 EAGLE, D. J. Release of non-exchangeable potassium from certain soils. Great Brit. Min. Agr. Fish. Food. Tech. Bull. 14:49-54. 1967. 10 G79T  
Uptake by perennial ryegrass and potatoes in Great Britain.
- 69395 EDEL'SHEIN, M. M. Comparative evaluation of broadbean varieties, according to their chemical composition. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 131:93-97. 1967. 20 M857
- 69396 EDYE, L. A. Yield comparisons of thirty-eight introductions of *Glycine javanica* in swards in three environments. Australian J. Exp. Agr. Anim. Husb. 7(27):342-350. Ref. Aug.1967. 23 Au792
- 69397 EHLIG, C. F., and others. Differences among plant species in selenium accumulation from soils low in available selenium. Agron. J. 60(1):43-47. Ref. Jan./Feb.1968. 4 Am34P  
W. H. Allaway, E. E. Cary, and J. Kubota, joint authors.  
Forage plants.
- 69398 ERMAKOVA, V. E. Abortiveness of lupine and broadbean seeds depending on location on the maternal plant. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 131:99-105. 1967. 20 M857
- 69399 FERGUSON, A. W. Effect of seed extract of *Trifolium subterraneum* on germination and seedling growth rate. Nature 217(5133):1064-1066. Mar.16,1968. 472 N21
- 69400 FERGUSON, R. B., and BASILE, J. V. Effect of seedling numbers on bitterbrush [*Purshia tridentata*] survival. J. Range Manage. 20(6):380-382. Nov.1967. 60.18 J82  
In deer winter ranges, Idaho.
- 69401 HALL, G. E. Relaxation characteristics of alfalfa stems. Diss. Abstr., Sect. B, 28(3):881B-882B. Sept.1967. Z5055.U49D53  
In relation to plant moisture content.
- 69402 HAMILTON, J. W., and GILBERT, C. S. Comparative mineral composition of longstalk [*Trifolium longipes*] and alsike clovers. J. Range Manage. 21(1):53-55. Jan.1968. 60.18 J82
- 69403 HATCH, M. D., and SLACK, C. R. A new enzyme for the interconversion of pyruvate and phosphopyruvate and its role in the  $C_4$  dicarboxylic acid pathway of photosynthesis. Biochem. J. 106(1):141-146. Jan.1968. 382 B52  
From tropical grasses.
- 69404 HENIN, S. Problems of altitude in the Massif Central. (Fr) Fourrages 31:3-9. Sept.1967. 60.8 F82  
English summary.
- 69405 HOFFMANN, M., and NEHRING, K. Carotene studies in fodder crops. 4. Carotene content and carotene yields in fodder crops as depending upon the stage of vegetation. (Ge) Arch. Tierernahr. 17(6):451-461. Sept.1967. 389.78 Ar22  
English summary.
- 69406 HOLT, D. A. Diurnal variation in carbohydrate levels of selected forage crops as influenced by factors of the microenvironment. Diss. Abstr., Sect. B, 28(6):2227B-2228B. Dec.1967. Z5055.U49D53
- 69407 HOOPER, L. J. The uptake of magnesium by herbage and its relationship with soil analysis data. Great Brit. Min. Agr. Fish. Food. Tech. Bull. 14:160-173. Ref. 1967. 10 G79T  
Great Britain.
- 69408 HORROCKS, R. D. Growth and morphological responses of reed canarygrass (*Phalaris arundinacea* L.) and climax timothy (*Phleum pratense* L.) under different management systems. Diss. Abstr., Sect. A, 28(6):2212B. Dec.1967. Z5055.U49D53
- 69409 IIZUMI, S., and IWANAMI, Y. Studies on the regeneration of *Salix vulpina* and *Lespedeza bicolor* after grassland fire. (Ja) Tohoku Univ. Inst. Agr. Res. Bull. 19(1):17-23. Ref. Oct. 1967. 107.5 T577  
English summary.
- 69410 JONES, D. G., Druce, R. G., and WILLIAMS, G. Comparative trials of seed pelleting, inoculation and the use of high lime dressings in upland reclamation. J. Appl. Bacteriol. 30(3):511-517. Ref. Dec.1967. 448.39 Sol2  
White clover inoculated with *Rhizobium trifolii*.
- 69411 JULANDER, O. Effect of clipping on herbage and flower stalk production of three summer range forbs. J. Range Manage. 21(2):74-79. Ref. Mar.1968. 60.18 J82  
*Geranium richardsoni*, *Ligusticum porteri*, and *Valeriana edulis*.
- 69412 KANDERA, J. The role of sulfur in the nutrition of clover. (Cz) Pol'nohospodarstvo 13(6):463-468. Ref. 1967. 19.5 P752  
Includes sulfur fertilizers and sulfur in soils.
- 69413 KNIGA, M. I., and KNIGA, N. M. The dynamics of nitrogen containing substances in corn, used for silage, as related to fertilization. (Rus) Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina. Dokl. 8:25-27. Aug.1967. 20 Ak1
- 69414 KOSHIMIZU, K., and others. Gibberellin A23 in immature seeds of *Lupinus luteus*. Tetrahedron Lett. 9:1143-1147. Ref. Feb.1968. 385 T29  
H. Fukui, M. Inui, Y. Ogawa, and T. Mitsui, joint authors.

- 69415 KRUEGER, C. R. Dry matter production, chemical composition, and nutritive value of some perennial forage grasses grown at five nitrogen levels and with alfalfa. Diss. Abstr., Sect. B, 28(3):767B-768B. Sept. 1967. Z5055.U49D53
- 69416 LEFEBVRE, J. M., and JOLIET, E. Study of variations of the protein and glucide composition of the above-ground portion of *Dactylis* (first report). (Fr) Ann. Agron. 18(5):529-543. Ref. 1967. 14 F8499  
English summary.
- 69417 LEHMANN, K. L., and MCILROY, R. J. Soluble carbohydrates in the seeds of tropical pasture species. Nature 216(5119):1044-1045. Dec. 9, 1967. 472 N21
- 69418 MARK, J. L., and MCKEE, G. W. Relationships between five laboratory stress tests, seed vigor, field emergence, and seedling establishment in reed canarygrass. Agron. J. 60(1):71-76. Ref. Jan./Feb. 1968. 4 Am34P
- 69419 MARSHALL, T., and MILLINGTON, A. J. Flooding tolerance of some Western Australian pasture legumes. Australian J. Exp. Agr. Anim. Husb. 7(27):367-371. Aug. 1967. 23 Au792  
Trifolium spp. and serradella.
- 69420 MCKEE, G. W., and LANGILE, A. R. Crownvetch won't stand wet feet. Sci. Farmer [Penn. Sta.] 15(2):12. Winter 1968. 100 P381S  
Crownvetch coronilla.
- 69421 MIAKI, T. Studies on chemical composition and feeding value in forage crops. XI. An effect of the level of nitrogen and stage of maturity on chemical composition and feeding value of Rhodesgrass hay (*Chloris gayana* Kunth). (Ja) Jap. J. Zootech. Sci. 39(1):48-52. Ref. Jan. 1968. 49 N62  
English summary.
- 69422 MOORE, A. W., BROUSE, E. M., and RHOADES, H. F. Influence of phosphorus fertilizer placement on two Nebraska sub-irrigated meadows. J. Range Manage. 21(2):112-114. Mar. 1968. 60.18 J82  
Chiefly uptake and utilization by forage grasses and clover.
- 69423 MOSER, L. E. Rhizome and tiller development of Kentucky bluegrass, *Poa pratensis* L. as influenced by photoperiod, vernalization, nitrogen level, growth regulators, and variety. Diss. Abstr., Sect. B, 28(6):2229B. Dec. 1967. Z5055.U49D53
- 69424 OBTEL, R., and KROPACOVA, S. Tripping resistance of lucerne flowers: methods of determination and correlation with seed production. Brno. Vysoka Sk. Zemedel. Sb. Rada A, Spisy Fak. Agron. 3:341-350. 1966. 105.92 B833
- 69425 OKE, O. L. Nitrogen fixing capacity of some Nigerian legumes. Exp. Agr. 3(4):315-321. Oct. 1967. 10 Ex72  
Pigeonpeas, *Centrosema pubescens* and *Stylosanthes gracilis*.
- 69426 PHILPOTTS, H. The effect of soil temperature on nodulation of cowpeas (*Vigna sinensis*). Australian J. Exp. Agr. Anim. Husb. 7(27):372-376. Aug. 1967. 23 Au792  
Heat.
- 69427 POWELL, A. J., BLASER, R. E., and SCHMIDT, R. E. Effect of nitrogen on winter root growth of bentgrass [*Agrostis palustris*]. Agron. J. 59(6):529-530. Ref. Nov./Dec. 1967. 4 Am34P
- 69428 RICKETT, F. L. Lipid changes in germinated alfalfa seedlings related to lipid changes in three subcellular fractions. Diss. Abstr., Sect. B, 28(3):819B-820B. Sept. 1967. Z5055.U49D53
- 69429 ROBINSON, A. C. The influence of host on soil and rhizosphere populations of clover and lucerne root nodule bacteria in the field. Australian Inst. Agr. Sci. J. 33(3):207-209. Sept. 1967. 23 Au74
- 69430 ROSENBERG, M. J. Studies of DNA replication in *Vicia faba* roots. Diss. Abstr., Sect. B, 28(6):2275B. Dec. 1967. Z5055.U49D53
- 69431 RUBENCHIK, L. I., BERSHOVA, O. I., and YURCHENKO, V. N. Nodule bacteria of tetraploid clover. (Rus) Akad. Nauk SSSR. Dokl. 176:1168-1169. 1967. 511 P444A  
Inoculation with Rhizobium.
- 69432 SASSO, G. Tests of cultivation in hypogeum environment of *Agrostis alba* L. and *Lactuca sativa* planted in cellager. (It) Turin. Univ. Fac. Sci. Agr. Ann. 1:81-88. 1961-62, pub. 1966. S9.T8  
English summary.
- 69433 SCHERY, R. W. Potassium builds quality in quality grasses. Better Crops Plant Food 52(1):20-21. 1968. 6 B46
- 69434 SCHROPP, W., and VOGT, K. F. Seasonal growth and composition of meadow grass. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. A: 97-107. 1966. SF223.15 1966 v.1  
English summary, p. 676.
- 69435 SNEVA, F. A. Chemical curing of range grasses with paraquat. J. Range Manage. 20(6):389-394. Ref. Nov. 1967. 60.18 J82
- 69436 TADMOR, N., and LACHOVER, D. Seasonal changes in chemical composition of different types of forage plants in northern Negev of Israel. (Fr) Qualitas Plant. Mater. Veg. 15(1):37-47. Oct. 3, 1967. 64.8 M41  
English summary.
- 69437 TESAR, M. B. Potassium builds alfalfa quality. Better Crops Plant Food 52(1):6-7. 1968. 6 B46
- 69438 TIUNOV, A. N. The physiological role of soil acidity and aluminum ions in plants. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 12:11-16. Ref. 1967. 20 V633  
English summary.  
Clover.
- 69439 VAN BAVEL, C. H. M., and EHRLER, W. L. Water loss from a sorghum field and stomatal control. Agron. J. 60(1):84-86. Jan./Feb. 1968. 4 Am34P  
Transpiration study.
- 69440 VAN KEUREN, R. W., and DAVIS, R. R. Persistence of birdsfoot trefoil, *Lotus corniculatus* L. as influenced by plant growth habit and grazing management. Agron. J. 60(1):92-95. Jan./Feb. 1968. 4 Am34P
- 69441 VOLGER, E. Dependence of grassland crops on the pH value of the soils. (Ge) Wirtschaftsgeign. Futter 14(1):1-17. Ref. Jan. 1968. 389.79 F98  
English summary.
- 69442 WILLIAMS, S. E., and HUNT, G. E. Canavanine distribution in jackbean fruit during fruit growth. Planta 77(2):192-202. Ref. 1967. 450 P693
- 69443 WILSON, R. K., and MCCARRICK, R. B. A nutritional study of grass swards at progressive stages of maturity. I. The digestibility, intake, yield and chemical composition of dried grass harvested from swards of Irish perennial ryegrass [*Lolium perenne*], timothy [*Phleum pratense*], and a mixed sward at nine progressive stages of growth. Irish. J. Agr. Res. 6(2):267-279. Ref. Oct. 1967. 10.5 Ir45  
Mixed sward includes *Lolium perenne*, *Phleum pratense* and *Trifolium repens*.
- 69444 WRIGHT, H. A. Contrasting responses of squirreltail [*Sitanion hystrix*] and needleandthread [*Stipa comata*] to herbage removal. J. Range Manage. 20(6):398-400. Ref. Nov. 1967. 60.18 J82  
Study of yield.
- 69445 YASUE, T. Studies on the hard seed of milk vetch (*Astragalus sinicus* L.). X. The cause of the impermeability of hard seed in milk vetch. (Ja) Crop Sci. Soc. Japan. Proc. 36(4):354-360. Ref. Dec. 1967. 22:5 C88  
English summary.  
Seed treatment.
- 69446 ZILKE, S. Effect of environment on seed germination and early seedling development of *Cirsium arvense* (L.) Scop. Diss. Abstr., Sect. B, 28(3):757B. Sept. 1967. Z5055.U49D53



## Physiology and Biochemistry - Oil Crops

- 69447 ARMIGER, W. H., and others. Differential tolerance of soybean varieties to an acid soil high in exchangeable aluminum. *Agron. J.* 60(1):67-70. Ref. Jan./Feb.1968. 4 Am34P
- 69448 BREIDENBACH, R. W., CASTELFRANCO, P., and CRIDDLE, R. S. Biogenesis of mitochondria in germinating peanut cotyledons. II. Changes in cytochromes and mitochondrial DNA. *Plant Physiol.* 42(8):1035-1041. Ref. Aug.1967. 450 P692
- 69449 BROGDON, J. L., and DAWSON, E. H. Flavor of peanuts grown in phorate-treated plots. *J. Econ. Entomol.* 60(4):1162-1163. Aug.15,1967. 421 J822
- 69450 CHERRY, J. H. Nucleic acid metabolism in ageing cotyledons. *Soc. Exp. Biol. Symp.* 21: 247-268. Ref. 1967. 442.9 So15
- 69451 DENNIS, D. T., and COULTATE, T. P. Some regulatory properties of the NAD specific isocitrate dehydrogenase from a higher plant. *Life Sci.* 6(22,pt.11):2353-2358. Ref. Nov.15, 1967. 442.8 L62
- 69452 INKPEN, J. A. The biosynthesis of unsaturated fatty acids in soybean cotyledons. *Diss. Abstr.*, Sect. B, 28(6):2260B-2261B. Dec.1967. Z5055.U49D53
- 69453 JOSHI, P. C., and NOGGLE, G. R. Growth of isolated mesophyll cells of *Arachis hypogaea* in simple defined medium in vitro. *Science* 158(3808):1575-1577. Ref. Dec.22,1967. 470 Sci2
- 69454 KATO, Y. Studies on the import and re-export of minerals by soybean leaves. 2. Changes in daily import and export of phosphorus, potassium and calcium during the development of a single leaf. *Crop Sci. Soc. Japan. Proc.* 36(4): 414-421. Dec.1967. 22.5 C88
- 69455 MILLER, J. F. Interaction of trifluralin with lime, nitrogen, phosphorus and a fungicide on soybeans. *Diss. Abstr.*, Sect. B, 28(6):2228B-2229B. Dec.1967. Z5055.U49D53
- 69456 OHLROGGE, A. J. Potassium builds soybean quality. *Better Crops Plant Food* 52(1):2-3. 1968. 6 B46
- 69457 ORY, R. L., YATSU, L. Y., and KIRCHER, H. W. Association of lipase activity with the spherosomes of *Ricinus communis*. *Arch. Biochem. Biophys.* 123(2):255-264. Ref. Feb. 1968. 381 Ar2
- 69458 SHERBECK, T. G. The influence of 2,3,5-triiodobenzoic acid (TIBA) in fertilizer bands on the growth and development of soybeans (Glycine Max). *Diss. Abstr.*, Sect. A, 28(6):2231B-2232B. Dec.1967. Z5055.U49D53
- 69459 WALLER, G. R., and YANG, K. S. The origin of the nitrogen atoms of ricinine produced by *Ricinus communis*. *Phytochemistry* 6(12):1637-1641. Ref. Dec.1967. 450 P5622

## Physiology and Biochemistry - Sugar Crops

- 69460 ALEXANDER, A. G. Interrelationships of gibberellic acid and nitrate in sugar production and enzyme activity of sugarcane. *P. R. Univ. J. Agr.* 52(1):19-28. Ref. Jan.1966. 8 P832J
- 69461 ARKHANGEL'SKII, N. S. Response to growth substances applied to sugar beets in the first year of vegetation. (Rus) *Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl.* 131:57-60. 1967. 20 M857
- 69462 GASPAR, S., and TALOŠ, MRS. B. Determination of germination capacity of sugar beet planting seed. (Hu) *Cukoripar* 21(1):25-28. Jan./Feb.1968. 65.8 C89
- German summary.

- 69463 HUMBERT, R. Potassium builds sugarcane quality. *Better Crops Plant Food* 52(1):28-29. Mar.1968. 6 B46
- 69464 HUSSEINI, K. E. K. Influence of nitrogen, potassium and sodium on sugar beet growth and quality. *Diss. Abstr.*, Sect. B, 28(6):2212B. Dec.1967. Z5055.U49D53
- 69465 \*KURSANOV, A. L., BROVCHENKO, M. I., and BUTENKO, E. P. Transformation of sugars by the leaf tissues of sugar beets. *Soviet Plant Physiol.* 14(5):684-691. Ref. Sept./Oct.1967, pub.1968. 450 F58Ae
- Tests with radioactive carbon.  
Translation from *Fiziologiya Rastenii*.
- 69466 OMEL'CHENKO, L. A. Treating seeds, before planting. (Rus) *Sakharn. Svekla* 12:20-21. Dec.1967. 66.8 Su393
- Coating of sugar beet seeds with minor elements for better growth.
- 69467 OSHIMA, E. A method of measurement for transpiration of sugar beet plant. (Ja) *Crop Sci. Soc. Japan. Proc.* 36(4):468-471. Dec.1967. 22.5 C88
- English summary.
- 69468 SCHILDBACH, R. Influence of year and location on field emergence of pelleted processed [sugar beets] seed. (Ge) *Zucker* 21(3):63-70. (Cont.) Feb.1,1968. 65.8 Z82
- 69469 EL-SHEIKH, A. M., ULRICH, A., and BROYER, T. C. Sodium and rubidium as possible nutrients for sugar beet plants. *Plant Physiol.* 42(9):1202-1208. Ref. Sept.1967. 450 P692
- 69470 THOMPSON, G. D., and WOOD, R. A. Wet and dry seasons and their effects on rain-fed sugar-cane in Natal. *Trop. Agr. [St. Augustine]* 44(4):297-307. Oct.1967. 26 T754

## Physiology and Biochemistry - Tobacco

- 69471 GARRARD, H. L. Quality sometimes spelled kuality. *Better Crops Plant Food* 52(1):17-18. 1968. 6 B46
- Effects of potassium on tobacco and peaches.
- 69472 IL'IN, G. S. Biochemistry of tobacco alkaloids. (Rus) *Akad. Nauk SSSR. Izv. Ser. Biol.* 6:835-842. Ref. Nov./Dec.1967. 511 Sa2B
- English summary.
- 69473 IRVINE, W. J., and SAXBY, M. J. The constituents of certain tobacco types. I. Steam volatile phenols of Latakia. *Phytochemistry* 7(2): 277-281. Ref. Feb.1968. 450 P5622
- 69474 KASPERBAUER, M. J., and REINERT, R. A. Photometrically assayable phytochrome in vivo in callus tissue cultured from *Nicotiana tabacum*. *Physiol. Plant.* 20(4):977-981. 1967. 450 P564
- 69475 KISAKI, T., MIZUSAKI, S., and TAMAKI, E. Phytochemical studies on tobacco alkaloids. XI. A new alkaloid in *Nicotiana tabacum* roots. *Phytochemistry* 7(2):323-327. Ref. Feb.1968. 450 P5622
- Identified as 2,4-di(3-pyridyl)piperidine (anattaline).
- 69476 MAROTI, M. The effect of degranol on the growth of the isolated callus tissue. (Ge) *Rev. Roum. Biol. Ser. Bot.* 12(1):47-51. Ref. 1967. QK1.R4
- Tobacco.
- 69477 MCKEE, C. G. Root growth in relation to top growth in Catterton and Wilson varieties of Maryland tobacco. *Md. Agr. Exp. Sta. Bull.* 478, 25 p. June 1968. 100 M36S
- 69478 MERRETT, M. J., and HANDOLL, C. Some effects of adenine on growth, respiration, adenosine diphosphate and triphosphate concentrations in plant tissues. *New Phytol.* 66(4):569-575. Ref. Oct.1967. 450 N42
- Tobacco.
- 69479 NEMETH, J., and KLEMENT, Z. Changes in respiration rate of tobacco leaves infected with bacteria in relation to hypersensitive reaction. *Acta Phytopathol.* 2(4):303-308. 1967. SB731.A3
- Pseudomonas syringae*, *P. tabaci* and *P. fluorescens*.

- 69480 NOGUCHI, K., and others. Studies on the cover-culture of tobacco. 1. Rate of leaf initiation and temperature in the field. (Ja) Crop Sci. Soc. Japan. Proc. 36(4):514-520. Ref. Dec.1967. 22.5 C88  
Y. Akimoto, H. Yamanaka, and H. Miki, joint authors.  
English summary.  
For improving yield and quality.
- 69481 PETERSON, L. A. Nitrate accumulation in tobacco leaves in relation to N, P, and K concentrations of the leaf. Agron. J. 60(1):26-29. Ref. Jan./Feb.1968. 4 Am34P
- 69482 RAPER, C. D., and MCCANTS, C. B. Influence of nitrogen nutrition on growth of tobacco leaves. Tobacco [New York] 165(24):33. Dec.15,1967. 286.89 T552
- 69483 SCHMID, G. H. The influence of different light intensities on the growth of the tobacco aurea mutant Su/su. Planta 77(1):77-94. Ref. 1967. 450 P693
- 69484 WILSON, J. L. Quantitative analysis of dep-sides and related plant phenolics by gas chromatography. Diss. Abstr., Sect. B, 28(6):2314B. Dec.1967. Z5055.U49D53  
Tobacco.
- Physiology and Biochemistry - Fruit Crops
- 69485 ANDERSON, J. L., and HUBER, D. Effects of girdling and gibberellic acid treatments on Thompson seedless grapes. Utah Sci. 28(4):116-118. Dec.1967. 100 U11F
- 69486 BADIZADEGAN, M. Physiological studies of dormancy and germination of apple (*Malus sylvestris* Mill.) seed. Diss. Abstr., Sect. B, 28(3):755B. Sept.1967. Z5055.U49D53
- 69487 BAR-AKIVA, A., and SAGIV, J. Nitrate reductase in the citrus plant: properties, assay conditions and distribution within the plant. Physiol. Plant, 20(2):500-506. Ref. 1967. 450 P564
- 69488 COOK, J. A. Potassium builds grape quality. Better Crops Plant Food 52(1):8-9. 1968. 6 B46
- 69489 DARBELLAY, C., and EVEQUOZ, M. Method of fructification of different varieties of apples. (Fr) Agr. Romande (ser.A)7(1):5-7. Jan.1968. 17 Ag8
- 69490 EMBLETON, T. W., and JONES, W. W. Potassium builds lemon quality. Better Crops Plant Food 52(1):18-19. 1968. 6 B46
- 69491 FREITAS, A. G. B. DE. Role du feuillage sur le rendement et la qualite du raisin; productivite [Role of leaves in the yield and quality of grapes; productivity]. Port. Centro Nac. Estud. Vitivinic. Vinea Vito Port. Doc. Ser. I, Viticult. 3,15 p. Nov.1966. 95.9 P83
- 69492 FULEKI, T., and FRANCIS, F. J. The co-occurrence of monoglucosides and monogalactosides of cyanidin and peonidin in the American cranberry, *Vaccinium macrocarpon*. Phytochemistry 6(12):1705-1708. Ref. Dec.1967. 450 P5622
- 69493 GARREN, R. Small fruits. Oreg. Weed Contr. Handbook 1967:150. 275.28 Or3  
Effects of growth regulators on strawberries and grapes.
- 69494 \*GITLITS, R. V., and SHISHKIN, E. A. Absorption of radioactive phosphorus in trunks and branches of fruit trees during winter dormancy. Soviet Plant Physiol. 14(5):785-788. Sept./Oct. 1967, pub.1968. 450 F58Ae  
Translation from Fiziologiya Rastenii.
- 69495 GREENHALGH, W. J. The effect of growth retarding and growth promoting substances on flower bud formation in cultivars of the apple, *Malus sylvestris*, Mill. Diss. Abstr., Sect. B, 28(3):756B. Sept.1967. Z5055.U49D53
- 69496 HACKETT, W. P., and HARTMANN, H. T. The influence of temperature on floral initiation in the olive. Physiol. Plant, 20(2):430-436. 1967. 450 P564
- 69497 HANSEN, P. 14C-studies on apple trees. III. The influence of season on storage and mobilization of labelled compounds. Physiol. Plant, 20(4):1103-1111. Ref. 1967. 450 P564
- 69498 HO, C. T. Potassium builds banana quality. Better Crops Plant Food 52(1):26-27. Mar. 1968. 6 B46
- 69499 HUMBERT, R. P. Potassium builds peach quality. Better Crops Plant Food 52(1):10-11. 1968. 6 B46
- 69500 JONES, O. P. Effect of benzyl adenine on isolated apple shoots. Nature 215(5105):1514-1515. Ref. Sept.30,1967. 472 N21
- 69501 KHALIFAH, R. A. Metabolism of DL-tryptophan-3-14C by the fruitlets of *Citrus aurantiifolia*. Physiol. Plant, 20(2):355-360. 1967. 450 P564  
Includes its conversion to indoleacetic acid.
- 69502 KOOIMAN, P. The constitution of the amyloid from seeds of *Annona muricata* L. Phytochemistry 6(12):1665-1673. Dec.1967. 450 P5622
- 69503 KÖZMA, P. Szololermesztes [Grape growing, 1.] Ed. 2, rev. Budapest, 1966. 347 p., map. SB388.K6  
Bibliography, p.317-344.  
Biological basis of grape production, chiefly.
- 69504 MAZLIAK, P., STOLL, U., and ABDELKADER, A. B. Cooperation between the mitochondria and the rest of the cell for renewal of the mitochondrial lipids of the apple parenchyma. (Fr) Biochim. Biophys. Acta 152(2):414-417. Mar.4,1968. 381 B522
- 69505 MIDLA, H. Aldehydes of the C<sub>6</sub>-C<sub>1</sub> series in the xylem of apple tree shoots and aromatic changes. (Ge) Flora Abt. A, Physiol. Biochem. 158(1):119-126. Ref. 1967. QK710.F5  
English summary.
- 69506 MOLCHANOVA, Z. YA., and ARZUMANOV, V. A. Changes of some anatomical and physiological maturing indicators of grapes, as induced by foliar application of minor elements. (Rus) Fiziol. Rast. 15(1):123-129. Ref. Jan. Feb.1968. 450 F58  
English summary.
- 69507 NG, S. K., and THAMBOO, S. Nutrient removal studies on Malayan fruits: durian [*Durio zibethinus*] and rambutan [*Nephelium lappaceum*]. Malaysian Agr. J. 46(2):164-182. July 1967. 22.5 F312
- 69508 RAHMAN, W., and BHATNAGAR, S. P. Flavonoids from *Prunus persica* Batsch (peach bark). Australian J. Chem. 21(2):539-541. Ref. Feb. 1968. 475 Au73
- 69509 RITTER, C. M. Peach nutrition and cultural methods. N. J. State Hort. Soc. Hort. News 49(1):3-5, 16, 18-19. Jan.1968. 81 N46  
Response to nitrogen, phosphorus and potassium fertilizers and management practices.
- 69510 SALAC, S. S. The influence of incubation temperatures, growth regulators, and mechanical treatments on the germination, growth, and development of *Prunus* seeds and embryos. Diss. Abstr., Sect. B, 28(6):2215B. Dec.1967. Z5055.U49D53
- 69511 SANFORD, W. G. Potassium builds pineapple quality. Better Crops Plant Food 52(1):12-13. 1968. 6 B46
- 69512 SEDOV, E. N., and NIKOLAEVA, I. P. The effect of the arrangement of flowers in inflorescences on the efficiency of fecundation and the transmission of maternal properties to offspring in apple. (Rus) Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina. Dokl. 6:20-21. June 1967. 20 Ak1
- 69513 SELVENDRAN, R. R., and ISHERWOOD, F. A. Identification of guanosine diphosphate derivatives of D-xylose, D-mannose, D-glucose and D-galactose in mature strawberry leaves. Biochem. J. 105(2):723-728. Ref. Nov.1967. 382 B52
- 69514 SKENE, K. G. M., and MULLINS, M. G. Effect of CCC on the growth of roots of *Vitis vinifera* L. Planta 77(2):157-163. Ref. 1967. 450 P693



- 69515 SKENE, K. G. M., and KERRIDGE, G. H. Effect of root temperature on cytokinin activity in root exudate of *Vitis vinifera* L. *Plant Physiol.* 42(8):1131-1139. Ref. Aug.1967. 450 P692
- 69516 SKENE, K. G. M. Increases in the levels of cytokinins in bleeding sap of *Vitis vinifera* L. after CCC [(2-chloroethyl) trimethylammonium chloride] treatment. *Science* 159(3822):1477-1478. Mar.29,1968. 470 Sci2
- 69517 SULAKADZE, T. S. Fiziologicheskie osnovy morozoustoichivosti tsitrusovykh rastenii [Physiological fundamentals of citrus resistance to cold]. Tbilisi, Metsniereba, 1967. 240 p. SB369.S9  
Bibliography, p.208-236.
- 69518 TEL'NOVA, M. Diagnosis of strawberry nutrition according to chemical composition of leaves. (Rus) *Vestnik Sel'skokhoz. Nauk.* [Moscow] 12:109-112. 1967. 20 V633
- 69519 THOMPSON, C. R., and others. Effect of air pollutants on apparent photosynthesis and water use by citrus trees. *Environ. Sci. Technol.* 1(8):644-650. Ref. Aug.1967. TD420.A1E5  
O. C. Taylor, M. D. Thomas, and J. O. Ivie, joint authors.
- 69520 TUMANOV, I. I., and KHALIN, N. N. Causes of poor cold-resistance in roots of fruit trees. *Soviet Plant Physiol.* 14(5):763-770. Ref. Sept./Oct.1967, pub.1968. 450 F58Ae  
Translation from *Fiziologiya Rastenii*.
- 69521 TURRELL, F. M., and others. Thermal conductivity of functional citrus tree wood. *Plant Physiol.* 42(8):1025-1034. Ref. Aug.1967. 450 P692  
S. W. Austin, D. McNee, and W. J. Park, joint authors.  
Grapefruits, lemons and oranges.
- 69522 WALLIHAN, E. F., and GARBER, M. J. Iron uptake by two citrus rootstock species in relation to soil moisture and  $\text{CaCO}_3$ . *Agron. J.* 60(1):50-52. Jan./Feb.1968. 4 Am34P
- 69523 WOLLRAB, V. On natural waxes. V. Carbohydrates from waxes of leaves and fruit of the apple and pear tree. (Ge) *Collect. Czech. Chem. Commun.* 32(3):1304-1308. Mar.1967. 385 C68
- Physiology and Biochemistry - Nuts
- 69524 BRADBEER, J. W., and PINFIELD, N. J. Studies in seed dormancy. III. The effects of gibberellin on dormant seeds of *Corylus avellana* L. *New Phytol.* 66(4):515-523. Ref. Oct. 1967. 450 N42  
Effect on germination.
- Physiology and Biochemistry - Shade Trees and Ornamental Plants
- 69525 BASZYNSKI, T. The effect of vitamin E on flower initiation in *Calendula officinalis* L. grown in short day. *Naturwissenschaften* 54(13):339-340. July 1,1967. 474 N213
- 69526 BERGMAN, B. H. H., and others. Isolation and identification of alpha-methylene-butyrolactone, a fungitoxic substances from tulips. *Rec. Trav. Chim. Pays-Bas* 86(7):709-714. Ref. July 1967. 385 R24  
J. C. M. Beijersbergen, J. C. Overeem, and A. K. Sijpesteijn, joint authors.
- 69527 BESEMER, S. T. Growth retardant tests on potted poinsettias. *Calif. Agr.* 21(12):6-7. Dec. 1967. 100 C12Cag  
N-dimethylamino succinamic acid and (2-chloroethyl) trimethylammonium chloride.
- 69528 BLANEY, L. P., and TICKNOR, R. L. Ornamentals. *Oreg. Weed Contr. Handbook* 1967: 151-155. 275.28 Or3  
Effects of growth regulators.
- 69529 BOSTRACK, J. M., and STRUCKMEYER, B. E. Effect of gibberellic acid on the growth and anatomy of *Coleus blumei*, *Antirrhinum majus* and *Salvia splendens*. *New Phytol.* 66(4):539-544. Ref. Oct.1967. 450 N42
- 69530 CAPRIO, J. M. Phenological patterns and their use as climatic indicators. In Shaw, R. H., ed. *Ground level climatology*, p.17-43, map. Ref. 1967. QC981.S5  
The first bloom date of *Syringa vulgaris*.
- 69531 CINKE, P. The effect of CCC on the culture of *Azalea obtusa*. (Cz) *Zahradnicke Listy* 61(1): 20-21. 1968. 80 Z12
- 69532 ENGEL, R. E. A note on the development of puffiness in 1/4-inch bentgrass turf with varied nitrogen fertilization. *N. J. Agr. Exp. Sta. Bull.* 818:46-48. Jan.1968. 100 N46S
- 69533 GOTO, G., and others. The alkaloids obtained from *Spiraea japonica* L. fil. *Tetrahedron Lett.* 11:1369-1373. Feb.1968. 385 T29  
K. Sasaki, N. Sakabe, and Y. Hirata, joint authors.
- 69534 HALISKY, P. M., FUNK, C. R., and ENGEL, R. E. Effect of granular pesticides on summer survival of Pennlawn red fescue [*Festuca rubra*]. *N. J. Agr. Exp. Sta. Bull.* 818:49-55. Jan. 1968. 100 N46S
- 69535 HEIDE, O. M. The auxin level of *Begonia* [cheimntha] leaves in relation to their regeneration ability. *Physiol. Plant.* 20(4):886-902. Ref. 1967. 450 P564  
IGNAT'eva, I. P. Life cycle of hollyhock [*Althaea rosea*] and the causes of its "degeneration." (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 131:321-329. Ref. 1967. 20 M857
- 69536 KANNANGARA, C. G., and WOOLHOUSE, H. W. The role of carbon dioxide, light and nitrate in the synthesis and degradation of nitrate reductase in leaves of *Perilla frutescens*. *New Phytol.* 66(4):553-561. Ref. Oct.1967. 450 N42
- 69538 KASPRZYK, Z., and FONBERG-BROCEK, M. The changes of the level of triterpenoids in *Calendula officinalis* during vegetation. *Physiol. Plant.* 20(2):321-329. 1967. 450 P564
- 69539 KLUGE, M., and FISCHER, K. Relationship between the exchange of carbon dioxide and transpiration in *Bryophyllum daigremontianum* Berg. (Ge) *Planta* 77(3):212-223. Ref. 1967. 450 P693
- 69540 KROH, M. Formation and circulation of stigmatic excretions of *Petunia hybrida*. (Ge) *Planta* 77(3):250-260. Ref. 1967. 450 P693  
English summary.
- 69541 LARSON, R. A. Chemical growth regulators and their effects on poinsettia [*Euphorbia pulcherrima*] height control. *N. C. Agr. Exp. Sta. Tech. Bull.* 180, 27 p. Ref., p.24-27. Dec.1967. 100 N81  
N-dimethylamino succinamic acid and (2-chloroethyl) trimethylammonium chloride.
- 69542 LAVRICHENKO, E. V. Peculiarities of *Dahlia variabilis* ontogenesis. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 131:337-342. 1967. 20 M857
- 69543 LINDEMANN, E. G. P. Growth requirements for meristem culture of *Cattleya*. *Diss. Abstr.*, Sect. B, 28(6):2284B-2285B. Dec.1967. Z5055.U49D53
- 69544 RUSDEN, P. L. Drought—its effect on trees and what can be done about it. *Arborist's News* 32(9/10):78-83. Sept./Oct.1967. 99.8 Ar14  
Includes sub-irrigation and pruning as corrective measures.
- 69545 SMITH, R. A. Effects of gibberellic acid on growth pigments and spectral characteristics of leaves of *Coleus blumei* Benth. *Diss. Abstr.*, Sect. B, 28(6):2216B. Dec.1967. Z5055.U49D53
- 69546 STEINHUBEL, G. The effect of the wax film on the temperature regime of leaves of *Mahonia*. (Cz) *Biologia [Bratislava]* 22(4):246-259. Ref. 1967. 442.8 B5265  
German summary.  
*Mahonia aquifolium*.
- 69547 THOMAS, W. A. Accumulation and cycling of calcium by flowering dogwood [*Cornus florida*] trees. *Diss. Abstr.*, Sect. B, 28(6):2289B. Dec.1967. Z5055.U49D53

- 69549 TSCHESCHE, R., KAMMERER, F. J., and WULFF, G. On the antibiotic substances in the tulip (*Tulipa gesneriana*). (Ge) *Tetrahedron Lett.* 6:701-706. Feb. 1968. 385 T29
- 69549 WALLER, G. R., and others. Biosynthesis of monoterpenoids by *Santolina chamaecyparissus* L. *Phytochemistry* 7(2):213-220. Ref. Feb. 1968. 450 P5622
- G. M. Frost, D. Burleson, D. Brannon, and L. H. Zalkow, joint authors.
- Physiology and Biochemistry - Vegetable and Truck Crops
- 69550 ALEKSASHOV, V. N. Productivity of photosynthesis under various conditions of thickness of potato planting. (Rus) *Timiryazévskaya Sel'skokhoz. Akad. Izv.* 6:63-70. 1967. 106 P44  
English summary.
- 69551 BARKER, G. R., and RIEBER, M. The development of polysomes in the seed of *Pisum arvense*. *Biochem. J.* 105(3):1195-1200. Dec. 1967. 382 B52
- 69552 BARKSDALE, B. The invisible fertilizer. *Farm Quart.* 22(4):79-81, 111-112, 115. Fall 1967. 6 F22995  
Carbon dioxide effects on vegetables and greenhouse crops yields.
- 69553 BECCARI, E., and others. The effects of ammonia ions on the glucose metabolism in the cells of *Daucus carota*. (It) *Ist. Super. Sanit. Ann.* 3(2):184-186. 1967. R65.18  
G. d'Agnolo, G. Morpurgo, F. Pocchiari, and R. Ricci, joint authors.
- 69554 BERKEL, N. VAN. Extra CO<sub>2</sub> for growing tomatoes. (Du) *Groenten Fruit* 23(20):865. Nov. 22, 1967. 80 G89
- 69555 BLUNDSTONE, H. A. E. Polyphenols of *Rheum raphonticum*. I. Flavonol glycosides. *Phytochemistry* 6(10):1449-1452. Oct. 1967. 450 P5622
- 69556 BOLOBOLOVA, V. M., and SINEV, A. V. Biological peculiarities of pea varieties and their yields in relation to sowing rates and planting methods. (Rus) *Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl.* 131:119-124. 1967. 20 M857
- 69557 BROUGHTON, W. J. Influence of gibberellic acid on nucleic acid synthesis in dwarf pea internodes. *Biochim. Biophys. Acta* 155(1):308-310. Ref. Jan. 29, 1968. 381 B522
- 69558 BROWN, J. R., and SMITH, G. E. Nitrate accumulation in vegetable crops as influenced by soil fertility practices. *Mo. Agr. Exp. Sta. Res. Bull.* 920, 43 p. Ref. Apr. 1967. 100 M693  
Field and vegetable crops.
- 69559 BUNNING, E., and MOSER, I. Further experiments concerning the influence of light on circadian rhythm of *Phaseolus multiflorus*. (Ge) *Planta* 77(2):99-107. 1967. 450 P693  
English summary.
- 69560 BURG, S. P., and BURG, E. A. Inhibition of polar auxin transport by ethylene. *Plant Physiol.* 42(9):1224-1228. Ref. Sept. 1967. 450 P692  
Peas; testing <sup>14</sup>C-indoleacetic acid uptake.
- 69561 CHAPMAN, J. A., and RIEBER, M. Distribution of ribosomes in dormant and imbibed seeds of *Pisum arvense*: electron-microscopic observations. *Biochem. J.* 105(3):1201-1202. Ref. Dec. 1967. 382 B52
- 69562 CHAPMAN, J. M., and EDELMAN, J. Relationship between protein synthesis in tuber discs and the protein synthetic activity of a cell-free preparation. *Plant Physiol.* 42(8):1140-1146. Ref. Aug. 1967. 450 P692  
Jerusalem artichokes.
- 69563 COX, G. F., and DAVIES, D. D. Nicotinamide-adenine dinucleotide specific isocitrate dehydrogenase from pea mitochondria. *Biochem. J.* 105(2):729-734. Nov. 1967. 382 B52
- 69564 DOSTAL, H. C., and LEOPOLD, A. C. Gibberellin delays ripening of tomatoes. *Science* 158 (3808):1579-1580. Dec. 22, 1967. 470 Sci2
- 69565 DOVE, L. D. Ribonuclease activity of stressed tomato leaflets. *Plant Physiol.* 42(9):1176-1178. Ref. Sept. 1967. 450 P692  
Water stress.
- 69566 ELLIS, R. J., and MACDONALD, I. R. Activation of protein synthesis by microsomes from aging beet disks. *Plant Physiol.* 42(9):1297-1302. Ref. Sept. 1967. 450 P692
- 69567 ENGELSMA, G. Photoinduction of phenylalanine deaminase in gherkin seedlings. II. Effect of red and far-red light. *Planta* 77(1):49-57. Ref. 1967. 450 P693
- 69568 FAN, D. F., and MACLACHLAN, G. A. Massive synthesis of ribonucleic acid and cellulase in the pea epicotyl in response to indoleacetic acid, with and without concurrent cell division. *Plant Physiol.* 42(8):1114-1122. Ref. Aug. 1967. 450 P692
- 69569 FORTI, G., and STURANI, E. On the structure and function of reduced nicotinamide adenine dinucleotide phosphate-cytochrome f reductase of spinach chloroplasts. *Eur. J. Biochem.* 3(4):461-472. Ref. Feb. 12, 1968. QP501.E8
- 69570 FUJIWARA, M., and NATATA, T. Induction of tumour immunity with tumour cells treated with extract of garlic (*Allium sativum*). *Nature* 216(5110):83-84. Oct. 7, 1967. 472 N21
- 69571 GALE, J., KOHL, H. C., and HAGAN, R. M. Changes in the water balance and photosynthesis of onion, bean and cotton plants under saline conditions. *Physiol. Plant.* 20(2):408-420. Ref. 1967. 450 P564
- 69572 GASPARIKOVA, O. Effect of beta-indoleacetic acid on the growth and respiration of pea roots. *Biologia [Bratislava]* 22(6):401-406. Ref. 1967. 442.8 B5265
- 69573 GLOBERSON, D. Partial male fertility in carrot, *Daucus carota*, L. *Diss. Abstr., Sect. B*, 28(3):767B. Sept. 1967. Z5055.U49D53
- 69574 GOESCHL, J. D., PRATT, H. K., and BONNER, B. A. An effect of light on the production of ethylene and the growth of the plumular portion of etiolated pea seedlings. *Plant Physiol.* 42(8):1077-1080. Aug. 1967. 450 P692
- 69575 GOREN, R., and GALSTON, A. W. Phytochrome controlled <sup>14</sup>C-sucrose uptake into etiolated pea buds: Effects of gibberellic acid and other substances. *Plant Physiol.* 42(8):1087-1090. Ref. Aug. 1967. 450 P692
- 69576 GREENE, A. G. A comparison of certain free amino acids in acotyledonous embryos and cotyledons with seed coats of germinating peas. *Diss. Abstr., Sect. B*, 28(3):1138B. Sept. 1967. Z5055.U49D53
- 69577 GROSS, E. L., and PACKER, L. Ion transport and conformational changes in spinach chloroplast grana. II. Light-induced changes. *Arch. Biochem. Biophys.* 122(1):237-245. Ref. Oct. 1967. 381 Ar2
- 69578 HARTMANN, K. M. Phytochrome 730 (P<sub>fr</sub>), the effector of the "high energy photomorphogenic reaction" in the far-red region. *Naturwissenschaften* 54(20):544. Oct. 15, 1967. 474 N213  
In lettuce.
- 69579 HASSAN, M. S. Influence of age of transplants on vegetative, floral, and fruit development in the tomato *Lycopersicon esculentum* (Mill.). *Diss. Abstr., Sect. B*, 28(6):2211B-2212B. Dec. 1967. Z5055.U49D53
- 69580 HITCHCOCK, C., MORRIS, L. J., and JAMES, A. T. The stereochemistry of alpha-oxidation of fatty acids in plants: the configuration of biosynthetic long-chain 2-hydroxyacids. *Eur. J. Biochem.* 3(4):473-475. Ref. Feb. 12, 1968. QP501.E8  
Tests on peas.
- 69581 HITCHCOCK, C., MORRIS, L. J., and JAMES, A. T. The stereochemistry of alpha-oxidation of fatty acids in plants: isotope competition experiments. *Eur. J. Biochem.* 3(4):419-421. Feb. 12, 1968. QP501.E8  
Tests with peas.



- 69582 HOCK, B. Nature of a rapidly labeled RNA fraction described in higher plant systems. *Plant Physiol.* 42(8):1149-1152. Ref. Aug.1967. 450 P692  
Tests with radioactive phosphorus and water-melon seedlings in presence and absence of bacterial contaminants.
- 69583 HOLM, R. E., and ABELES, F. B. Abscission: The role of RNA synthesis. *Plant Physiol.* 42(8):1094-1102. Ref. Aug.1967. 450 P692 Beans.
- 69584 HYODO, H., and URITANI, I. Properties of polyphenol oxidases produced in sweet potato tissue after wounding. *Arch. Biochem. Biophys.* 122(2):299-309. Ref. Nov.1967. 381 Ar2
- 69585 INDIRA, P., and RAMADASAN, A. Shoot formation from the callus tissue of hormone-treated cowpea leaves. *Cur. Sci.* 36(22):616-617. Nov.20,1967. 475 Sci23
- 69586 IRITANI, W. M. Factors affecting physiological aging (degeneration) of potato tubers used as seed. *Amer. Potato J.* 45(3):111-116. Ref. Mar.1968. 75.8 P842
- 69587 IWASAKI, F., and HOSODA, T. Studies on bolting in Brassica. II. Relationship between structural change of the shoot apex and bolting in compound genome varieties. (Ja) *Jap. J. Breeding* 17(4):53-57. Dec.1967. 64.8 J27 English summary.
- 69588 JAARMA, M. Influence of ionizing radiation on the oxidative phosphorylation, adenosine triphosphatase, and apyrase in potato tubers. *Acta Chem. Scand.* 21(8):2069-2075. Ref. 1967. 385 Ac82
- 69589 JAFFE, M. J., and GALSTON, A. W. Physiological studies on pea tendrils. III-IV. *Plant Physiol.* 42(6):845-850. Ref. June 1967. 450 P692  
III, ATPase activity and contractility associated with coiling; IV, Flavonoids and contact coiling.
- 69590 JOHANSSON, W. The influence of soil moisture on growth, development and yield of potatoes. (Sw) *Grundforbattring* 20(1):29-40. Ref. 1967. 54.8 G92 English summary.
- 69591 JOHNSON, D. L., and ALBERT, L. S. Effect of selected nitrogen-bases and boron on the ribonucleic acid content, elongation, and visible deficiency symptoms of tomato root tips. *Plant Physiol.* 42(9):1307-1309. Sept.1967. 450 P692
- 69592 JOHNSON, M. A., and REMMERT, L. F. Solubilization of a possible intermediate of oxidative phosphorylation from cabbage mitochondria. *Arch. Biochem. Biophys.* 122(3):537-551. Ref. Dec.1967. 381 Ar2
- 69593 KIM, W. K., and BIDWELL, R. G. S. The effects of indoleacetic acid and 2,4-dichlorophenoxyacetic acid on the uptake and metabolism of  $^{14}\text{C}$ -glucose and on the incorporation  $^{14}\text{C}$ -labelled amino acids into protein in pea root tips. *Can. J. Bot.* 45(9):1751-1760. Ref. Sept. 1967. 470 C16C
- 69594 KONINGS, H. On the mechanism of the transverse distribution of auxin in geotropically exposed pea roots. *Acta Bot. Neer.* 16(5):161-176. Ref. Nov.1967. 450 Ac822  
Indoleacetic acid with radioactive carbon applied.
- 69595 KRASINA, E. E. Influence of temperature and intensity of continuous light upon circadian rhythm of the leaf movement of beans (*Phaseolus vulgaris* L.). (Rus) *Timiryazevskaya Sel'skokhoz. Akad. Izv.* 6:10-18. Ref. 1967. 106 P44 English summary.
- 69596 KURYLOSKI, D. Nice weather propels potatoes. *Agr. Situation [Washington]* 52(3):7. Mar. 1968. 1 Ec7Ag
- 69597 LAMPORT, D. T. A. Hydroxyproline-O-glucosidic linkage of the plant cell wall glycoprotein extensin. *Nature* 216(5122):1322-1324. Ref. Dec.30,1967. 472 N21  
In tomato.
- 69598 LAZIC, B., and KOVACEV, D. The effect of temperature on biological properties of onion seeds. (Se) *Savremena Poljoprivreda* 14(9):721-728. Sept.1966. 21 P75  
Russian summary.  
Effects of treatment on germination.
- 69599 LEE, K. H., and YAMAMOTO, H. Y. Action spectra for light-induced de-epoxidation and epoxidation of xanthophylls in spinach leaf. *Photochem. Photobiol.* 7(1):101-107. Ref. Jan.1968. 382 P56
- 69600 LIEBERMAN, M., and KUNISHI, A. T. Propenal may be a precursor of ethylene in metabolism. *Science* 158(3803):938. Nov.17,1967. 470 Sci2  
Includes production of ethylene in tomatoes.
- 69601 LINDSEY, D. L. Growth of beans, tomatoes, and corn under gnotobiotic conditions. *Phytopathology* 57(9):960-964. Ref. Sept.1967. 464.8 P56
- 69602 LOTT, J. R., and WALL, M. J. A potometric determination of the effects of X-irradiation on water, K and Ca flux in isolated roots. *Radiat. Bot.* 8(1):37-44. Ref. Feb.1968. 450 R11  
Onions.
- 69603 LOVELL, P. H., and BOOTH, A. Effects of gibberellic acid on growth, tuber formation and carbohydrate distribution in *Solanum tuberosum*. *New Phytol.* 66(4):525-537. Ref. Oct. 1967. 450 N42
- 69604 MACKLON, A. E. S., and DEKOCK, P. C. Physiological gradients in the potato tuber. *Physiol. Plant.* 20(2):421-429. Ref. 1967. 450 P564  
Includes study of sprouting.
- 69605 MACMILLAN, J., and PRYCE, R. J. Further investigations of gibberellins in *Phaseolus multiflorus* by combined gas chromatography-mass spectrometry—the occurrence of gibberellin A<sub>20</sub> (pharbitis gibberellin) and the structure of compound b. *Tetrahedron Lett.* 13:1537-1542. Feb.1968. 385 T29
- 69606 MAHESHWARI, S. C., and PRAKASH, R. Cytokinins in immature seeds of watermelon. *Life Sci.* 6(22,pt.11):2453-2458. Ref. July 17, 1967. 442.8 L62
- 69607 MAHESHWARI, S. C., and GUPTA, G. R. P. Kinin activity of extracts of pumpkin seeds. *Life Sci.* 6(22,pt.11):2459-2461. Nov.15,1967. 442.8 L62
- 69608 MAKAROVA, V. A., and MAISURYAN, N. A. Effects of minor elements on different pea varieties. (Rus) *Vestnik Sel'skokhoz. Nauk. [Moscow]* 1:137-139. 1968. 20 V633  
Treatment of seeds for better germination.
- 69609 MCCONAGHY, S., and MCALLISTER, J. S. V. The determination in soils of potassium and magnesium and their uptake by crops. *Great Brit. Min. Agr. Fish. Food. Tech. Bull.* 14:63-77. Ref. 1967. 10 G79T  
On potatoes and grasses in Northern Ireland.
- 69610 MCDONOUGH, W. T. Arsenite-BAL [2,3-dimercaptopropanol] as an inhibitor of germination. *Physiol. Plant.* 20(2):455-462. 1967. 450 P564  
Tests with lettuce and sodium
- 69611 MCDONOUGH, W. T. Modification of photo-control of germination. *Radiat. Res.* 31(1):74-78. May 1967. 334.8 R11  
Lettuce seeds.
- 69612 MEHRA, K. L., and MISRA, P. Short note on internode patterns in relation to maturity in potato. *Indian J. Agr. Sci.* 37(4):290-292. Aug.1967. 22 Ag831
- 69613 MOLCHANOV, M. I., and BEZINGER, E. N. A contribution to the study of lamellar proteins of chloroplasts. (Rus) *Akad. Nauk SSSR. Dokl.* 178(2):475-477. Ref. 1968. 511 P444A  
Beans.
- 69614 MORRIS, J. I., CAMPBELL, W. F., and WIEBE, H. H. A refractometric method for testing seed coat permeability. *Agron. J.* 60(1):79-80. Jan./Feb.1968. 4 Am34P  
Beans.

- 69615 MOZHAEVA, K. A. Change of amino acid content in tubers and shoots of potatoes as influenced by vernalization. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 131:27-31. 1967. 20 M857
- 69616 MURPHY, H. J., and GOVEN, M. J. Effect of tetrachloronitrobenzene (Fusarex) on emergence and yield of potatoes. I. Maine. Amer. Potato J. 44(8):272-276. Ref. Aug. 1967. 75.8 P842
- 69617 NIEMANN, G. J. A red-light-dependent compound in *Pisum sativum*. Acta Bot. Neer. 16(5): 180-181. Nov. 1967. 450 Ac822
- 69618 OSTROVSKAYA, L. K., and ZAITSEVA, N. A. Photochemical chloroplast activity in plants, under conditions of iron deficiency. (Rus) Akad. Nauk SSSR. Dokl. 176:1178-1180. 1967. 511 P444A  
Peas.
- 69619 PARENTI, F., and MARGULIES, M. In vitro protein synthesis by plastids of *Phaseolus vulgaris*. I. Localization of activity in the chloroplasts of a chloroplast containing fraction from developing leaves. Plant Physiol. 42(9):1179-1186. Ref. Sept. 1967. 450 P692  
Incorporation of leucine- $^{14}\text{C}$ .
- 69620 PATTERSON, B. D., and TREWAVAS, A. J. Changes in the pattern of protein synthesis induced by 3-indolylacetic acid. Plant Physiol. 42(8):1081-1086. Ref. Aug. 1967. 450 P692  
Peas.
- 69621 PEARSON, G. A. Absorption and translocation of sodium in beans and cotton. Plant Physiol. 42(9):1171-1175. Ref. Sept. 1967. 450 P692  
Includes effects of 2,4-dinitrophenol.
- 69622 PECK, N. H., VITTM, M. T., and GIBBS, G. H. Evapotranspiration rates for irrigated crops at Geneva, New York. Agron. J. 60(1):23-26. Jan./Feb. 1968. 4 Am34P  
Vegetable crops and alfalfa.
- 69623 PILET, P. E. Auxin content and auxin catabolism in relation to the growth polarity. Physiol. Plant. 20(2):285-290. Ref. 1967. 450 P564  
Tests with carrot tissues; chiefly IAA-oxidase activity.
- 69624 POP, E., and others. Absorption and accumulation of  $\text{P}^{32}$  in the pigeon cotyledons. Rev. Roum. Biol. Ser. Bot. 12(4):281-288. Ref. 1967. QK1.R4  
D. Cachita-Cosma, G. Herman, F. Stefanescu, O. Constantinescu, and V. Soran, joint authors.  
During the germination of beans, lupine, and sunflowers.
- 69625 PURITCH, G. S., and BARKER, A. V. Structure and function of tomato leaf chloroplasts during ammonium toxicity. Plant Physiol. 42(9):1229-1238. Ref. Sept. 1967. 450 P692
- 69626 REED, D. J., and CRECELIUS, J. Light-induced inhibition of tryptophan decarboxylation in cell-free extracts of pea epicotyls. Plant Physiol. 42(9):1303-1306. Ref. Sept. 1967. 450 P692
- 69627 REINHARD, E., and KONOPKA, W. A contribution to the analysis of the gibberellins in the seeds of *Pisum sativum* L. (Ge) Planta 77(1): 58-76. Ref. 1967. 450 P693  
English summary.
- 69628 RHOTON, V. D. The relation of zinc and a cell organelle to low temperature tolerance of tomato plants. Diss. Abstr., Sect. B, 28(2):803B. Sept. 1967. Z5055.U49D53
- 69629 RUSSELL, D. W., and CONN, E. E. The chemical acid 4-hydroxylase of pea seedlings. Arch. Biochem. Biophys. 122(1):256-258. Oct. 1967. 381 Ar2
- 69630 SACHER, J. A. Studies of permeability, RNA and protein turnover during ageing of fruit and leaf tissues. Soc. Exp. Biol. Symp. 21:269-303. Ref. 1967. 442.9 So15  
*Phaseolus vulgaris*, *Musa sapientum*, and *Rhoeo discolor*.
- 69631 SAID, H., HEGAZY, T., and IMAM, R. The effect of night temperature on germination, carbohydrate and nitrogen metabolism of bean (*Vicia faba*) seedlings. Acta Biol. [Budapest] 18(4):421-436. Ref. 1967. 475 Ac85
- 69632 SARGENT, J. A. Penetration of chlorinated phenoxyacetic and benzoic acids into leaves. Agrochimica 12(2/3):166-172. Feb./Apr. 1968. 385 Ag84  
Tests with beans.
- 69633 SAVITSKII, M. S., and ZAYATS, V. P. The principles forming high potato yields on soddy-podzolic soils. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 12:97-104. 1967. 20 V633  
Effects of cultural practices on photosynthesis.
- 69634 SCHWARTZ, J. H., and others. Chemical composition of potatoes. VI. Effect of variety and location on acid concentrations. Amer. Potato J. 45(3):81-92. Ref. Mar. 1968. 75.8 P842  
M. I. Fow, R. L. Raskin, and W. L. Porter, joint authors.
- 69635 SCOTT, P. C. Abscission as a cellular senescence. Diss. Abstr., Sect. B, 28(3):803B-804B. Sept. 1967. Z5055.U49D53  
Experiments with beans.
- 69636 SELMAN, I. W., and BORA, P. C. The effects of gibberellic acid and nutrient sprays on growth and yield of brussels sprout. Ann. Appl. Biol. 61(1):131-138. Ref. Feb. 1968. 442.8 An72  
Mineral nutrients.
- 69637 SHARAF, A. Some hormone-like properties of *Allium cepa* L. (onion). Qualitas Plant. Mater. Veg. 14(3):267-275. Ref. Apr. 28, 1967. 64.8 M41
- 69638 SONDERN, J. A. Water mattresses suited to our horticulture. (Du) Groenten Fruit 23(13): 563. Oct. 4, 1967. 80 G89  
Effects of a polyethylene tube filled with hot water on the microclimate of vegetables.
- 69639 SPALDON, E., and GROMOVA, Z. Changes in nutrient uptake of the spice pepper [*Capsicum annuum*] during the ontogenesis. (Hu) Agrar-tud. Kozlem. 26(3/4):251-266. 1967. 19 B855  
German summary.
- 69640 STOESSL, A., and STARRATT, A. N. m-N-ethylaminobenzoic acid: absence of phytotoxic activity. Can. J. Bot. 45(9):1769-1770. Sept. 1967. 470 C16C  
Tested with germinating lettuce seeds.
- 69641 STROUN, M., and others. Translocation of DNA of bacterial origin in *Lycopersicon esculentum* by ultracentrifugation in caesium chloride gradient. Nature 215(5104):975-976. Aug. 26, 1967. 472 N21  
P. Anker, P. Charles, and L. Ledoux, joint authors.
- 69643 TAKEGUCHI, C. A., and YAMAMOTO, H. Y. Light-induced  $^{18}\text{O}_2$  uptake by epoxy xanthophylls in New Zealand spinach leaves (*Tetragonia expansa*). Biochim. Biophys. Acta 153(2): 459-465. Ref. Feb. 12, 1968. 381 B522
- 69642 TAKAHASHI, N. Accumulation and maintenance of light stimulus in so-called light-indifferent seeds, *Lactuca sativa* L. var. Wayahead. (Ja) Tohoku Univ. Inst. Agr. Res. Bull. 19(1):55-63. Ref. Oct. 1967. 107.6 T577  
English summary.
- 69644 TANIMOTO, E., YANAGISHIMA, N., and MASUDA, Y. Effect of gibberellic acid on dwarf and normal pea plants. Physiol. Plant. 20(2):291-298. Ref. 1967. 450 P564  
Includes tests with indoleacetic acid and tryptophan.
- 69645 TOMLINSON, H., and RICH, S. Metabolic changes in free amino acids of bean leaves exposed to ozone. Phytopathology 57(9):972-974. Ref. Sept. 1967. 464.8 P56
- 69646 TORREY, J. G. Morphogenesis in relation to chromosomal constitution in long-term plant tissue cultures. Physiol. Plant. 20(2):265-275. Ref. 1967. 450 P564  
Tests with callus tissues of peas.



- 69647 TREWAVAS, A. J. Effect of IAA on RNA and protein synthesis; effects of 3-indolylacetic acid on the metabolism of ribonucleic acid and protein in etiolated subapical sections of *Pisum sativum*. Arch. Biochem. Biophys. 123(2):324-335. Ref. Feb.1968. 381 Ar2
- 69648 TRIP, P., and GORHAM, P. R. Autoradiographic study of the pathway of translocation. Can. J. Bot. 45(9):1567-1573. Ref. Sept.1967. 470 C16C  
Radioactive carbon and tritium translocation in squash.
- 69649 VAN POTTELSBERGHE DE LA POTTERIE, P. J. Changes in composition of potato tubers following applications of defoliant. Diss. Abstr., Sect. B, 28(3):933B. Sept.1967. Z5055.U49D53
- 69650 VESTERMARK, A. A thin layer electrophoresis method for the concentration and separation of coloured substances from beet juice. Naturwissenschaften 54(17):470-471. Sept.1, 1967. 474 N213
- 69651 VILLEMEZ, C. L., FRANZ, G., and HASSID, W. Z. Biosynthesis of alkali insoluble polysaccharide from UDP-D-glucose with particulate enzyme preparations from *Phaseolus aureus*. Plant Physiol. 42(9):1219-1223. Ref. Sept. 1967. 450 P692
- 69652 VOSE, J. R., and SPENCER, M. Energy sources for photosynthetic carbon dioxide fixation. Biochem. Biophys. Res. Commun. 29(4): 532-537. Ref. Nov.30,1967. 442.8 B5236 Spinach.
- 69653 VOZARI-HAMPE, M. M., and GONZALEZ, N. S. Uridine diphosphate ramnose from *Pisum sativum* seeds. Biochim. Biophys. Acta 148(2): 566-568. Ref. Nov.38,1967. 381 B522
- 69654 VYSKREBENTSEVA, E. I., and SINYUKHIN, A. M. Influence of potassium ions on generation and conduction of action potentials in the vascular bundles of pumpkin (*Cucurbita pepo*) stems. Soviet Plant Physiol. 14(5):692-699. Ref. Sept./Oct.1967, pub.1968. 450 F58Ae  
Translation from Fiziologiya Rastenii.
- 69655 WESSELS, J. S. C. Isolation properties of two digitonin-soluble pigment-protein complexes from spinach. Biochim. Biophys. Acta 153(2):497-500. Ref. Feb.12,1968. 381 B522
- 69656 WILCOX, G. E., HILGER, J., and LAM, S. L. Potassium builds potato quality. Better Crops Plant Food 52(1):24-25. 1968. 6 B46
- 69657 WILLEMONT, C., and STUMPF, P. K. Fat metabolism in higher plants. XXXIII. Development of fatty acid synthetase during the "aging" of storage tissue slices. Can. J. Bot. 45(5): 579-584. Ref. May 1967. 470 C16C  
Potato disks.
- 69658 WILLIAMS, G. R., and NOVELLI, G. D. Ribosome changes following illumination of dark-grown plants. Biochim. Biophys. Acta 155(1): 183-192. Ref. Jan.29,1968. 381 B522  
Tests on corn and bean seedlings.
- 69659 YABUKI, K., and others. The effect of carbon dioxide concentration of atmosphere on growth of leaf beet with various plant densities. (Ja) Soc. Agr. Meteorol. Jap. J. Agr. Meteorol. 23 (1):25-29. Ref. July 1967. 340.9 So1  
J. Tamura, Y. Oda, and T. Imazu, joint authors.  
English summary.
- 69660 YANIV, Z., and MANCINELLI, A. L. Phytochrome and seed germination. II. Changes of "PFR" requirement for germination in tomato seeds. Plant Physiol. 42(8):1147-1148. Aug. 1967. 450 P692  
Infrared rays.
- Physiology and Biochemistry of Miscellaneous Economic Plants (Coffee, Tea, Cacao, Etc.)
- 69661 ANTON, R., and DUQUENOIS, P. Utilization of thin layer chromatography for the characterization of anthracene derivatives in species of the genus *Cassia* L. and their identification. (Fr) Ann. Pharm. Franc. 25(9/10):589-599. Ref. Sept./Oct.1967. 396.8 An7
- 69662 BLANCHI, E., CALDWELL, M. E., and COLE, J. R. Antitumor agents from *Bursera microphylla* (Burseraceae). I. Isolation and characterization of deoxypodophyllotoxin. J. Pharm Sci. 57(4):696-700. Ref. Apr.1968. 396.8 J825
- 69663 BUZINOV, P. A., and EKSUZYAN, A. A. Accumulation of essential oil and eugenol in basil, under irrigation. (Rus) Maslo-Zhir. Prom. 1:30-32. Jan.1968. 307.8 M37
- 69664 CHATTERJEE, A., and GANGULY, M. Alkaloidal constituents of *Peganum harmala* and synthesis of the minor alkaloid deoxyvasconine. Phytochemistry 7(2):307-311. Feb.1968. 450 P5622  
Drug plant; analysis of seeds.
- 69665 CLARK-LEWIS, J. W., and DAINIS, I. Flavan derivatives. XX. A new glycoside and other extractives from *Acacia xiphiophylla*: rhamnitrin (rhamnetin 3 alpha-L-rhamnoside). Australian J. Chem. 21(2):425-437. Ref. Feb.1968 475 Au73
- 69666 COMMONWEALTH BUR. OF SOILS. Bibliography on trace-element nutrition of coffee (1966-1956). Commonwealth Bur. Soils [Annot. Bibliogr.] 1177.8 p. 1967. 241 C734A
- 69667 COMMONWEALTH BUR. OF SOILS. Bibliography on trace elements in soils and in nutrition of tea (1967-1956). Commonwealth Bur. Soils [Annot. Bibliogr.] 1179.8 p. 1967. 241 C734A
- 69668 COOK, W. B., and HOWARD, A. S. The sesquiterpene hydrocarbons of *Illicium anisatum* Linn. Can. J. Chem. 45(17):2002-2005. Ref. Sept.1,1967. 470 C16B
- 69669 DUTTA, S. K., and GHOSAL, S. Indole-3-alkylamines of *Arundo donax* L. Chem. Indus. [London]. 48:2046-2047. Dec.2,1967. 382 M31C
- 69670 EKONG, D. E. U., and OGAN, A. U. Chemistry of the constituents of *Xylopia aethiopica*; the structure of xylopic acid, a new diterpene acid. Chem. Soc. J. C, Org. 3:311-312. 1968. QD241. C5
- 69671 GLADE, P. R., and others. Identification of the pokeweed [*Phytolacca dodecandra*] mitogen in Africa. Nature 216(5117):795-796. Ref. Nov.25,1967. 472 N21  
J. A. Kasel, H. McFarlane, J. Borjeson, P. D. Baker, P. F. Hoffman, S. D. Douglas, R. Reisfeld, and L. N. Chessin, joint authors.
- 69672 GORYAEV, M. I., TIKHONOVA, L. K., and LISHTVANNOVA, L. N. Investigation of substances, present in essential oils. 29. Analysis of Austrian worm-wood essential oil (*Artemisia austriaca* Jacq). (Rus) Akad. Nauk Kaz. SSR. Izv. Ser. Khim. 5:85-88. Sept./Oct.1967. 385 AL82
- 69673 GREENWOOD, D. J. Studies on oxygen transport through mustard seedlings (*Sinapis alba* L.). New Phytol. 66(4):597-606. Oct.1967. 450 N42
- 69674 GUISE, G. B., and others. The chemical constituents of Australian *Zanthoxylum* species. IV. Two new coumarins from *Z. suberosum* C. T. White (syn. *Z. dominianum* Merr. & Perry; *Z. ovalifolium* Wight). Australian J. Chem. 20(11):2429-2439. Ref. Nov.1967. 475 Au73  
E. Ritchie, R. G. Senior, and W. C. Taylor, joint authors.
- 69675 GUSEINOV, K. R., and MIRZOYAN, A. T. Effect of lasting fertilizers application on transformation of agrochemical soil properties, metabolism, yield and quality of tea. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 6:18-23. June 1967. 20 V633  
English summary.
- 69676 HIGGINS, J. J. *Vernonia anthelmintica*: a potential seed oil source of epoxy acid. I-II. Agron. J. 60(1):55-58. Jan./Feb.1968. 4 Am34P
- 69677 JANOT, M. M., and others. Steroid alkaloids. LXVI. New alkaloids from the bark of *Holarhena floribunda* (G. Don) Dur. et Schinz: holarheline, holadienine, holaromine, and holarine. (Fr) Ann. Pharm. Franc. 25(11):733-748. Nov. 1967. 396.8 An7  
P. Devissaguet, Q. Khuong-Huu, and R. Goutarel, joint authors.

- 69678 JIMENEZ SAENZ, E. Relation between genotype, potential productivity, and tolerance of cacao to excess salt. I. Growth studies. (Sp) Turrialba 17(3):249-257. Ref. July/Sept.1967. 8 T86  
English summary.
- 69679 KINET, J. M., BERNIER, G., and BRONCHART, R. Sudden release of the meristematic cells from G<sub>2</sub> as a primary effect of flower induction in *Sinapis alba*. *Naturwissenschaften* 54(13): 351. July 1,1967. 474 N213
- 69680 KUPCHAN, S. M., and others. The isolation, structural elucidation, and synthesis of solapalmitine and solapalmitenine, two novel alkaloid tumor inhibitors from *Solanum tripartitum*. *Amer. Chem. Soc. J.* 89(22):5718-5719. Oct.25,1967. 381 Am33J  
A. P. Davies, S. J. Barboutis, H. K. Schnoes, and A. L. Burlingame, joint authors.
- 69681 LEHMANN, H. Contribution to the optimal yield, standardization, and stabilization of fixed and fluid plant constituents. (Ge) *Southern Dairy Prod. J.* 82(2):120-121. Feb.1968. 44.8 So83  
Drug plants.
- 69682 LOCKARD, R. G., and ASOMANING, E. J. A. Mineral nutrition of cacao (*Theobroma cacao* L.); comparison of plant growth and nutrient content of leaves of six C.R.I. varieties grown in optimum and deficient conditions in sand culture. *Can. J. Bot.* 45(5):681-689. May 1967. 470 C16C
- 69683 MA, T. S., and ROPER, R. Microchemical investigation of medicinal plants. I-II. *Mikrochim. Acta* 1:167-181,212-218. Ref. 1968. 384 M58  
I, The antitubercular principle in *Prunus mume* and *Schizandra chinensis*; II, The antitubercular activity of some plant acids and their hydrazides.
- 69684 MARTINSON, V. A note on pod maturity and seed viability in cocoa. *Trop. Agr. [St. Augustine]* 44(4):325-327. Oct.1967. 26 T754
- 69685 MASOUD, A. N., and others. Effect of gibberellic acid on the growth, alkaloid production, and VLB [vincalculoblastine] content of *Catharanthus roseus*. *J. Pharm. Sci.* 57(4):589-593. Apr.1968. 396.8 J825  
L. A. Sciuchetti, N. R. Farnsworth, R. N. Blomster, and W. A. Meer, joint authors.
- 69686 MYRCHINK, T. G. Production of patulin by a group of fungi *penicillium lapidosum* Raper and Fennel. (Rus) *Antibiotiki* 12(9):762-766. Sept. 1967. 396.8 An84  
English summary.
- 69687 NAKAGAWA, M. Studies on the flavanols in tea. V. Effects of amino acids and other substances on the enzymic oxidation of flavanols. (Ja) *Agr. Chem. Soc. Jap. J.* 41(8):399-405. Ref. 1967. 385 Ag8  
English summary.
- 69688 NEUSS, N., and others. Vinca alkaloids, XXX. *Tetrahedron Lett.* 6:783-787. Ref. Feb.1968. 385 T29  
M. Gorman, N. J. Cone, and L. L. Huckstep, joint authors.
- 69689 PARIS, R., SAINT-FIRMIN, A., and ETCHEPARE, S. On the alkaloids and flavonoids of a leguminous plant of Haiti: *Piptadenia peregrina* Benth.; absence of alkaloids in *Piptadenia africana* Hook. f. (Fr) *Ann. Pharm. Franc.* 25 (7/8):509-515. July/Aug.1967. 396.8 An7
- 69690 PARIS, R. The use of chromatography for the study of constituents (alkaloids, heterosides) of medicinal plants. (Fr) *Soc. Chim. France. Bull.* 10:3998-4001. Ref. Oct.1967. 383 P21B  
English summary, p.XLVII.
- 69691 PEREIRA, M. O. DA S., GOTTLIEB, O. R., and MAGALHAES, M. T. Chemistry of Brazilian *Gutiferae*. XIII. New xanthone in *Calophyllum brasiliense*. (Por) *Acad. Brasil. Cienc. An.* 39(2):255-256. June 30,1967. 516 R473A  
English summary.
- 69692 POISSON, J., and MIET, C. Methoxy-O-ellipticine, alkaloid of the "yellow wood" of Reunion (*Ochrosia borbonica* Gmel.). (Fr) *Ann. Pharm. Franc.* 25(7/8):523-524. Ref. July/Aug.1967. 396.8 An7  
Drug plant.
- 69693 PREUSSER, E. On the biosynthesis of caffeine. (Ge) *Biol. Zentralbl.* 86(4):485-494. Ref. July/Aug.1967. 442.8 B523  
English summary.  
In tea and coffee leaves.
- 69694 PROKOF'EV, A. A., SVESHNIKOVA, I. N., and SOBOLEV, A. M. Change in structure and composition of aleurone grains in ripening castor beans. *Soviet Plant Physiol.* 14(5):746-753. Ref. Sept./Oct.1967, pub.1968. 450 F48Ae  
Translation from *Fiziologiya Rastenii*.
- 69695 REISCH, J., and others. 2-[4'-(3'')-Methylenedioxypheyl]-n-butyl-chinolon-(4) and alkaloid from *Ruta graveolens*. (Ge) *Naturwissenschaften* 54(19):517. Oct.1,1967. 474 N213  
I. Novak, K. Szendrei, and E. Minker, joint authors.
- 69696 RISSLAND, L., and MOHR, H. Phytochrome-induced formation of enzymes (phenylalanine deaminase) as a fast process. (Ge) *Planta* 77(3): 239-249. Ref. 1967. 450 P693  
English summary.  
*Brassica hirta*.
- 69697 SANDERMANN, H., and GRISEBACH, H. Occurrence of UDP-apiose in parsley (*Apium petroselinum* L.). *Biochim. Biophys. Acta* 156 (2):435-436. Ref. Mar.11,1968. 381 B522
- 69698 SCHIPOTSCHLIEV, T. A., and JANKULOV, J. K. Biological activity of *Digitalis purpurea* L. cultivated in Bulgaria. (Ge) *Qualitas Plant. Mater. Veg.* 15(1):65-70. Oct.3,1967. 64.8 M41  
English summary.
- 69699 SCHUPHAN, W., and WEILLER, H. Antibacterial effects of essential oil of carrots (*Daucus carota* L.) and its ingredients. (Ge) *Qualitas Plant. Mater. Veg.* 15(2):81-101. Ref. Oct.15,1967. 64.8 M41  
English summary.
- 69700 SHARAF, A., LOTFY, O., and GENEIDY, A. The effect of a colouring matter separated from *Hibiscus sabdariffa* on *Mycobacterium tuberculosis* as compared to that of its watery extract. *Qualitas Plant. Mater. Veg.* 15(2): 117-122. Oct.15,1967. 64.8 M41
- 69701 SHARAF, A., and ZAHARAN, M. Pharmacological investigation on *Agave sisalana* Perr., with special study of its ecobolic effect. *Qualitas Plant. Mater. Veg.* 14(4):345-351. July 28, 1967. 64.8 M41
- 69702 SHARAF, A., FAYEZ, M. B. E., and NEGM, S. A. R. Pharmacological properties of *Punica granatum* L. *Qualitas Plant. Mater. Veg.* 14(4):331-336. July 28,1967. 64.8 M41
- 69703 SHUMOVA, E. M. Peculiarities of flowering of bigleaf cowparsnip (*Heracleum mantegazzianum* Somm. et Lev.). (Rus) *Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl.* 131:331-335. 1967. 20 M857
- 69704 STABA, E. J., and JINDRA, A. *Datura* tissue cultures: production of minor alkaloids from chlorophyllous and nonchlorophyllous strains. *J. Pharm. Sci.* 57(4):701-704. Ref. Apr.1968 396.8 J825
- 69705 SUGIYAMA, N., and SIMURA, T. Studies on the varietal differentiation of frost resistance of the tea plant. IV. The effects of sugar level combined with protein in chloroplasts on the frost resistance. *Jap. J. Breeding* 17(4):48-52. Ref. Dec.1967. 64.8 J27
- 69706 TAKINO, Y., and others. Spectral evidence for the structure of three flavanotropolones [categallin, pyrogallin, and erycetin]. *Can. J. Chem.* 45(17):1949-1956. Ref. Sept.1,1967. 470 C16B  
A. Ferretti, V. Flanagan, M. A. Gianturco, and M. Vogel, joint authors.
- 69707 TSCHESCHE, R., and others. Alkaloids from *Rhamnaceae*. II. Intergerressin and intergerrenin, two peptide alkaloids from *Ceanothus intergerminus* Hook. et Arn. (Ge) *Chem. Ber.* 100 (12):3924-3936. Ref. 1967. 384 B45  
J. Rheingans, H. W. Fehlahaber, and G. Legler, joint authors.



## Physiology and Biochemistry of Forest Trees

- 69708 BELCHER, E. W., and NEEL, W. W. Effect of selected systemic insecticides on loblolly pine [*Pinus taeda*] seed germination. Ga. Forest Res. Counc. Ga. Forest Res. Pap. 49, 4 p. Oct. 1967. 99.9 G299G
- 69709 BERNTSEN, C. M. Relative low temperature tolerance of lodgepole and ponderosa pine seedlings. Diss. Abstr., Sect. B, 28(3):751B-752B. Sept. 1967. Z5055.U49D53
- 69710 BORSODORF, W. On the relationships between assimilation intensity and yield in young plants of some poplar clones. (Ge) Züchter, Genet. Breed. Res. 37(6):300-306. Ref. Oct. 24, 1967. 442.8 Z8  
English summary.
- 69711 BROERMAN, F. S., and GATHERUM, G. E. Relationship of nitrogen and light intensity to growth, photosynthesis and respiration of green ash [*Fraxinus pennsylvanica*] seedlings. Iowa State J. Sci. 42(2):137-148. Ref. Nov. 1967. 470 Io9
- 69712 CARMAN, R. M., and DEETH, H. C. Diterpenoids. XIV. Australian J. Chem. 20(12): 2789-2793. Ref. Dec. 1967. 475 Au73  
In *Callitris columellaris*.
- 69713 CAVA, M. P., and others. The alkaloids of *Tabernaemontana riedelii* and *T. rigida*. J. Org. Chem. 33(3):1055-1059. Ref. Mar. 1968. 381 J827  
S. S. Tjoa, Q. A. Ahmed, and A. I. Da Rocha, joint authors.
- 69714 CHIRA, E. On the germination of pollen of *Pinus edulis* Engelman with more than haploid number of chromosomes. (Cz) Biologia [Bratislava] 22(4):266-270. 1967. 442.8 B5265  
German summary.
- 69715 CHIRA, E. Speeding up the development of pollen of *Picea excelsa* under laboratory conditions. (Cz) Biologia [Bratislava] 22(4):260-265. 1967. 442.8 B5265  
German summary.
- 69716 CLARK, G. M., and others. Germination and survival of conifers following chronic gamma irradiation of seed. Radiat. Bot. 8(1):59-66. Ref. Feb. 1968. 450 R11  
W. P. Sweaney, W. R. Bunting, and D. G. Baker, joint authors.
- 69717 CLAUSEN, J. J., and KOZLOWSKI, T. T. Seasonal growth characteristics of long and short shoots of tamarack [*Larix laricina*]. Can. J. Bot. 45(9):1643-1651. Ref. Sept. 1967. 470 C16C
- 69718 DURZAN, D. J., and STEWARD, F. C. The nitrogen metabolism of *Picea galuca* (Moench) Voss and *Pinus banksiana* Lamb. influenced by mineral nutrition. Can. J. Bot. 45(5):695-710. Ref. May 1967. 470 C16C
- 69719 FRITTS, H. C. Growth rings of trees: a physiological basis for their correlation with climate. In Shaw, R. H., ed. Ground level climatology, p. 45-65. Ref. 1967. QC981.S5
- 69720 GESTO, M. D. V., and others. Growth substances isolated from woody cuttings of *Quercus robur* L. and *Juglans regia* L. Phytochemistry 6(12):1687-1693. Dec. 1967. 450 P5622  
A. Vazquez, J. Mendez, E. Vieitez, and E. Seoane, joint authors.
- 69721 HANNAH, P. R. Net wood production in main stems of red pine [*Pinus resinosa*] on various soils in Michigan. Diss. Abstr., Sect. B, 28(6): 2207B. Dec. 1967. Z5055.U49D53
- 69722 HORVATH, MRS. P. Changes of nutrient uptake of seedlings during the vegetation period. (Hu) Erdesz. Kutatasok 63(1/3):109-118. 1967. 99.9 Er24  
German summary.  
Trees.
- 69723 IRVING, R. M., and LANPHEAR, F. O. Environmental control of cold hardiness in woody plants. Plant Physiol. 42(9):1191-1196. Sept. 1967. 450 P692  
Photoperiodism and effects of cold and light in *Acer negundo* and *Viburnum tomentosum*.
- 69724 IRVING, R. M. Physiological relationships of dormancy and cold hardiness in woody plants. Diss. Abstr., Sect. B, 28(6):2282B. Dec. 1967. Z5055.U49D53  
*Acer negundo* and *Viburnum plicatum*.
- 69725 JAFFE, M. J., and GALSTON, A. W. Phytochrome control of rapid nyctinastic movements and membrane permeability in *Albizia julibrissin*. Planta 77(2):135-151. Ref. 1967. 450 P693
- 69726 JENSEN, A., STEPHANSEN, K., and LOKEN, A. Seed ripening of Norwegian coniferous trees. II. Variation in the chemical content and germination of seeds of *Picea abies* (L.) Karst. and *Picea sitchensis* (Bong. Carr.). Norway. Vestlandets Forstl. Forsokssta. Medd. 3(44): 189-222. Ref. 1967. 99.9 N832
- 69727 KARACSONYI, S., KUBACKOVA, M., and HRIVNAK, J. The polysaccharides from white willow (*Salix alba* L.): the constitution of 4-O-methylglucuronoxylan. Collects. Czech. Chem. Commun. 32(10):3597-3606. Ref. Oct. 1967. 385 C68
- 69728 KEEFE, T. L. Shoot development in several diverse forms of woody plants. Diss. Abstr., Sect. B, 28(6):2283B-2284B. Dec. 1967. Z5055.U49D53  
Trees.
- 69729 KISS, L. Study of the effect of insecticides on the more important mycorrhiza fungi of *Pinus sylvestris* and *P. nigra* under laboratory conditions. (Hu) Erdesz. Kutatasok 63(1/3):241-247. 1967. 99.9 Er24  
German summary.
- 69730 KOTHEIMER, J. B. Physiological factors in the etiology and alleviation of salt-induced decline of roadside maples and pines. Diss. Abstr., Sect. B, 28(3):760B-761B. Sept. 1967. Z5055.U49D53
- 69731 LEDIG, F. T. Variation in photosynthesis and respiration of loblolly pine (*Pinus taeda* L.) progenies. Diss. Abstr., Sect. B, 28(6):2273B. Dec. 1967. Z5055.U49D53
- 69732 LESTER, D. T. Variation in cone production of red pine [*Pinus resinosa*] in relation to weather. Can. J. Bot. 45(9):1683-1691. Ref. Sept. 1967. 470 C16C  
Physiological study.
- 69733 LOACH, K. Shade tolerance in tree seedlings. I. Leaf photosynthesis and respiration in plants raised under artificial shade. New Phytol. 66(4):607-621. Ref. Oct. 1967. 450 N42
- 69734 LYR, H., and HOFFMANN, G. Growth rates and growth periodicity of tree roots. Int. Rev. Forest. Res. 2:181-236. 1967. 99.8 In84  
Review of the literature.
- 69735 MATERNA, J., and KOHOUT, R. Nitrogen fertilizing and the sulfur dioxide uptake by pine needles. (Ge) Naturwissenschaften 54(13):351. July 1, 1967. 474 N213
- 69736 MATHES, M. C. Test tube trees. Vt. Farm Home Sci. 10(2):3. Winter 1968. 100 V593  
Tissue culture of *Acer saccharum*.
- 69737 MCCLURKIN, I. T., and MCCLURKIN, D. C. Cytochemical demonstration of a sodium-activated and a potassium-activated adenosine Triphosphatase in loblolly pine [*Pinus taeda*] seedling root tips. Plant Physiol. 42(8):1103-1110. Ref. Aug. 1967. 450 P692
- 69738 MEYER, F. H. Fine root distribution of forest trees in relation to substrata. (Ge) Forstarchiv 38(11/12):286-290. Ref. Nov./Dec. 1967. 99.8 F7723  
*Fagus sylvatica* and *Picea abies*.
- 69739 MOREY, P. R. Studies on the control of differentiation of woody plant cells. Diss. Abstr., Sect. B, 28(3):802B. Sept. 1967. Z5055.U49D53  
*Acer rubrum* and *Ulmus americana* auxins.
- 69740 PEACOCK, J. W. An investigation of the chemical constituents of honey locust, *Gleditsia triacanthos* L., as phagostimulants for larvae of the mimosa webworm, *Homadaula albizziae* Clarke. Diss. Abstr., Sect. B, 28(6):2467B. Dec. 1967. Z5055.U49D53

- 69741 PETERSON, T. A. Variation in radial growth patterns and specific gravity of red pine (*Pinus resinosa* Ait.). Diss. Abstr., Sect. B, 28(3):754B. Sept.1967. Z5055.U49D53
- 69742 PHARIS, R. P., and MORF, W. Experiments on the precocious flowering of western red cedar [*Thuja plicata*] and four species of *Cupressus* with gibberellins A3 and A4/A7, mixture. Can. J. Bot. 45(9):1519-1524. Sept.1967. 470 C16C
- 69743 RADECKE, H. R. Contributions to the developmental physiology and biochemistry of seeds. 5. Carbohydrate and oxygen metabolism in *Aesculus hippocastanum* during germination with reference to the fat economy. (Ge) Flora Abt. A, Physiol. Biochem. 158(1):142-152. Ref. 1967. QK710.F5
- 69744 RADWAN, M. A. Translocation and metabolism of  $C^{14}$ -labeled tetramine by Douglas-fir [*Pseudotsuga menziesii*] orchard grass [*Dactylis glomerata*], and blackberry [*Rubus ursinus*]. Forest Sci. 13(3):265-273. Sept.1967. 99.8 F7632
- 69745 RAHMAN, W., and BHATNAGAR, S. P. A new biflavonol AC3 from *Araucaria cunninghamii*. Tetrahedron Lett. 6:675-678. Feb.1968. 385 T29
- 69746 SCOTT, S. J., and HAY, G. W. The carbohydrates of the roots of the sugar maple [*Acer saccharum*]. Can. J. Chem. 45(19):2217-2225. Ref. Oct.1,1967. 470 C16B
- 69747 SHUL'GIN, V. A. Effect of turpentine on some physiological processes of trees. (Rus) Les. Zh. 2:36-39. 1967. 99.8 Iz8  
Chiefly photosynthesis in *Pinus nigra*.
- 69748 SIMANČEK, F. Fluctuation of glycolides during the development of the embryos in some seeds of woods. Biologia [Bratislava] 22(4):271-284. Ref. 1967. 442.8 B5265
- 69749 SPECHT-JURGENSEN, I. Investigations of nitrogen compounds and chlorophyll during yellowing of Ginkgo biloba leaves. II. Isolated leaves. (Ge) Flora Abt. A, Physiol. Biochem. 157(6):471-502. Ref.,p.499-502. 1967. QK710.F5  
English summary.  
Effects of light.
- 69750 SZENDREY, I. The role of chemistry in intensive forestry; stimulation and inhibition of physiological processes. (Hu) Erdo 16(6):246-250. June 1967. 99.8 Er22  
Hormones and other chemicals.
- 69751 TAYLOR, F. G. Some effects of acute gamma radiation in giant Sequoia [*Sequoia gigantea*] seedlings. Radiat. Bot. 8(1):67-70. Ref. Feb. 1968. 450 R11
- 69752 TZSCHACKSCH, O. Some contributions to the problem of  $CO_2$ -metabolism of summer grafts of the species spruce (*Picea abies* (L.) Karst) and pine (*Pinus sylvestris* L.). (Ge) Arch. Forstwesen 16(6/9):719-723. 1967. 99.8 Ar22
- 69753 WEISSMANN, G. The composition of needle-oils of some pine trees. (Ge) Qualitas Plant. Mater. Veg. 14(4):337-344. Ref. July 28,1967. 64.8 M41  
*Abies grandis*, *A. procera* and *A. concolor*.
- 69754 WHITE, D. P., and WRIGHT, J. W. Pigment changes in Scotch pine (*Pinus sylvestris* L.) induced by controlled environment. Mich. Acad. Sci. Arts Lett. Papers 52(1):55-62. 1966, pub. 1967. 500 M582
- 69755 WITHERSPOON, J. P. Effects of internal  $^{137}Cs$  radiation on seeds of *Liriodendron tulipifera*. Radiat. Bot. 8(1):45-48. Ref. Feb.1968. 450 R11
- 69756 YOUNG, H. E., and CARPENTER, P. M. Weight, nutrient element and productivity studies of seedlings and saplings of eight tree species in natural ecosystems. Maine. Agr. Exp. Sta. Tech. Bull. 28,39 p. Ref. Nov.1967. 100 M28B
- AGRONOMY (FIELD CROPS)
- 69757 ALCOCK, M. B. Maximum crop production. 2. Arable Farmer 1(11):42-43,45. Sept.1967. S3.A7  
Estimation of yields of field crops.
- 69758 BAUER, F. Data on the results of six-year experiences of crop rotation on sandy soils of Duna-Tiszakoz. (Hu) Agrartud. Kozlem. 26 (3/4):267-289. Ref. 1967. 19 B855  
German summary.
- 69759 DOANE'S special report: Crop management. Doane's Agr. Rep. 31(8):21-38L. Mar.8,1968. 281.8 D652  
Field crop culture.
- 69760 EBELTOFT, D. C., CARTER, J. F., and JENDRO, M. Biennial report, 1965-67, the Agronomy Seed Farm. N. Dak. Farm Res. 25(2):21-24. Nov./Dec.1967. 100 N813B
- 69761 GORDIENKO, V. A. The first secondary school for selection and seed production. (Rus) Selekt. Semenovodstvo 5:73-75. Sept./Oct.1967. 61.9 Se5  
Agricultural School in the name of K. A. Timiryazev [Sel'skokhozyaistvennyi Tekhnikum imeni K. A. Timiryazeva] at Maslovka.
- 69762 GORIN, A. P., and MITROFANOVA, K. S. The role of Timiryazev Academy [Timiryazevskaya Sel'skokhozyaistvennaya Akademiya] in developing plant breeding, during the period of the Soviet rulership. (Rus) Timiryazevskaya Sel'skokhoz. Akad. Izv. 4:3-11. 1967. 106 P44  
Field crops.
- 69763 GRAVES, C. R. 1967 performance of field crop varieties. Tenn. Agr. Exp. Sta. Bull. 436,87 p., map. Jan.1968. 100 T25S
- 69764 HORNE, F. R. Seed and crop improvement in Britain. New Zeal. J. Agr. 114(3):53,55. Mar. 1967. 23 N48J  
Field crops and vegetable breeding and seed certification.
- 69765 LORINCZ, J. The role of improved plant variety and good quality planting seed in increasing production. (Hu) Magyar Mezogazdasag 22(47):3-4. Nov.22,1967. 19 M27  
Field crops.
- 69766 LOUISIANA. AGRICULTURAL EXPERIMENT STATION. Annual progress report, Red River Valley Agricultural Experiment Station. Bossier City, 1967. 65 p.,map. 100 L9333  
Agronomy.
- 69767 NAG, K. C. Effect of various cropping systems in a crop rotation study on crop performance and weed content. Diss. Abstr., Sect. B, 28(3):746B. Sept.1967. Z5055.U49D53
- 69768 PROKOPOV, P. E. Agrotekhnicheskie osnovy sevooborotov [Agrotechnical fundamentals of crop rotations]. Minsk, Urozhai, 1967. 279 p. S603.P7  
Bibliography, p.272-278.  
Field crops.
- 69769 RAZHAPOV, M., and BABAEV, A. Rotation of crops and the land policies in the Turkmen SSR. (Rus) Khlopkovodstvo 12:8-10. Dec. 1967. 72.8 K522
- 69770 SATO, K., SAKAI, H., and SATO, T. Development of cropping systems. In Tohoku Daigaku. Nogaku-bu. Research on the effective use of upland soils in Japan, 1962-1965, p.163-167. S599.J3T62  
Rotation of field crops with pasture.
- 69771 SHAGADENKO, A. A. Sevooborot vazhnoe sredstvo povysheniya kul'tury zemledeliya [Rotation of crops as important factor in agriculture]. Moskva, Kolos, 1967. 86 p.,map. S603.S45
- 69772 SURINAM. LANDBOUWPROEFSTATION. Jaarverslag 1966 [Yearly report for 1966 of the Agricultural Experiment Station of Surinam]. Paramaribo, 1967. 104 p. 99.9 D95  
English summary.  
Chiefly agronomy.



- 69773 THOMPSON, R. L., and EVANS, S. D. Evaluating soil and crop management systems. *Minn. Sci.* 23(4):13-15. July 1967. 100 M668  
Field crop yields; includes rotation of crops.
- 69774 VAL'SKII, V. Experimentation at the large-scale and the science. (Rus) *Zemledelie* 2:14-15. Feb.1968. 20 Z44  
Activities of the Research Institute of Agronomy and Livestock Husbandry of the Western Districts of the Ukrainian SSR [Nauchno-Issledovatel'skii Institut Zemledeliya i Zhivotnovodstva Zapadnykh Raionov Ukrainskoi SSR].
- Cereals
- 69775 ALBRECHTSEN, R. S., and others. New varieties of small grain. *S. Dak. Farm Home Res.* 19(1):22-24. Winter 1968. 100 So82S  
J. J. Bonnemann, G. W. Buchenau, D. G. Wells, and L. S. Wood, joint authors.  
Wheat, oats and flax.
- 69776 ALCOCK, M. B. Unlocking cereal yields. 3. *Arable Farmer* 1(12):22-23,25,27. Oct.1967. S3.A7  
In Britain.
- 69777 BELYAK, S. On the drained bogs. (Rus) *Zemledelie* 2:30-32. Feb.1968. 20 Z44  
Wheat culture in the Belorussia.
- 69778 BEREZKIN, A. N. To the problem of obtaining the spring form from the winter type wheat. (Rus) *Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl.* 131:203-207. 1967. 20 M857
- 69779 BONNEMANN, J. J. 1967 corn performance trials. *S. Dak. Agr. Exp. Sta. Circ.* 183,20 p., map. Jan.1968. 100 So82
- 69780 BONNEMANN, J. J. 1967 grain sorghum performance trials. *S. Dak. Agr. Exp. Sta. Circ.* 184,24 p.,map. Jan.1968. 100 So82
- 69781 BONNEMANN, J. J. Standard variety small grain trials in South Dakota, 1963-1967. *S. Dak. Agr. Exp. Sta. Circ.* 182,32 p.,map. Jan.1968. 100 So82  
Cereals and flax; includes yields.
- 69782 BONNET, G. Wheat culture in the lake region of Niger (northern part). (Fr) *Agron. Trop. [Paris]* 22(10):942-949. Oct.1967. 26 Ag86
- 69783 BREVEDAN, G. The new splendid situation on corn culture. (It) *G. Agr.* 78(8):89-90. Feb.25, 1968. 16 It1G  
Chiefly on hybrids.
- 69784 BROWN, A. R., and MORRIS, H. D. Estimation of optimum plot size and shape for grain sorghum yield trials. *Agron. J.* 59(6):576-577. Ref. Nov./Dec.1967. 4 Am34P
- 69785 BROWN, C. W., and FITZSIMMONS, R. Oat varieties for 1968. *Agr. Gaz. New S. Wales* 79(1):25-30, map. Jan.1968. 23 N472
- 69786 BROWN, C. W. Wheat varieties for 1967; important amendments to northern recommendations. *Agr. Gaz. New S. Wales* 78(4):200. Apr.1967. 23 N472
- 69787 BROWN, C. W., and FITZSIMMONS, R. W. Wheat varieties for 1968. *Agr. Gaz. New S. Wales* 79(1):2-8, map. Jan.1968. 23 N472
- 69788 CAMPBELL, D. Rice production research in Australia. *Rice J.* 71(2):37-40. Feb.1968. 59.8 R36
- 69789 CANNON, G. On the eve of abundance; India and Pakistan could become self-sufficient in wheat, their second most important grain, by the 1968 harvest. *Farm Quart.* 22(4):65,88-93. Fall 1967. 6 F22995
- 69790 CANNON, G. The providers; the good farmers of India and Pakistan teach their neighbors. *Farm Quart.* 22(4):66-70. Fall 1967. 6 F22995  
Methods applied to the culture of wheat.
- 69791 CLINE, R. A., and SANDERSON, E. E. Field crop varieties recommended in South Dakota for 1968. *S. Dak. Agr. Exp. Sta. Circ.* 182:32, map. Jan.1968. 100 So82  
Cereals and flax.
- 69792 COOPER, G. Verdict on aerial sowing. *Arable Farmer* 3(1):4-7. Jan.1967. S3.A7  
Winter corn in Great Britain.
- 69793 CURTIS, D. L. The relation between yield and date of heading of Nigerian sorghums. *Exp. Agr.* 4(1):93-101. Jan.1968. 10 Ex72  
Varieties.
- 69794 DEBRECZENI, B. Growth area, irrigation and mineral fertilizing of corn. (Hu) *Magyar Mezőgazdaság* 23(10):9. Mar.6,1968. 19 M27
- 69795 DEMKIN, P. P., and LÖSKÜTÖV, N. F. Correlation between wheat varieties in crossings. (Rus) *Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl.* 131:185-192. 1967. 20 M857
- 69796 DENMARK. STATENS FORSOEGSVIRKSOMHED I PLANTEKULTUR. Experiments with planting date for spring wheat 1963-1966. (Da) *Tidsskr. Planteavl* 71(3):413-414. 1967. 11 T439  
Effects on yields.
- 69797 DOBELMANN J. P., and FALAIS, M. Upland rice cultivation in the north-western part of Madagascar in 1966-1967. (Fr) *Agron. Trop. [Paris]* 23(1):13-70. Jan.1968. 26 Ag86  
English summary.
- 69798 DOLING, D. A. Disease resistance in cereal growing. *Great Brit. Min. Agr. Fish. Food. Agr.* 75(1):3-7. Jan.1968. 10 G79J  
Breeding of wheat, oat, and barley.
- 69799 DOWSE, G. A. Cereal rotations on the chalk: the problems in Wiltshire. 1. *Great Brit. Min. Agr. Fish. Food. Agr.* 74(8):368-370. Aug. 1967. 10 G79J  
With pasture.
- 69800 DOWSE, G. A. Cereal rotations on the chalk: The problems in Wiltshire. 2. *Great Brit. Min. Agr. Fish. Food. Agr.* 74(10):485-488. Oct. 1967. 10 G79J
- 69801 DREIER, A. F., and others. Nebraska varietal tests of fall-sown small grains, 1967. *Nebr. Agr. Exp. Sta. Outstate Test. Circ.* 127,24 p., map. Aug.1967. 100 N270  
J. W. Schmidt, P. H. Grabouski, and L. A. Daigger, joint authors.  
Wheat, barley, and rye.
- 69802 DUNCAN, E. R., and HERMAN, J. C. Checklist for top corn yields. *Crops Soils* 20(7):9-10. Apr./May 1968. 6 W55
- 69803 FAJERSSON, F. Variation in the quality of wheat material tested in Sweden from the breeder viewpoint. (Ge) *Arb. Getreideforsch. Ber. Getreidechem.-Tag.* 1967:19-27. 389.9 Ar1
- 69804 FIDDIAN, W. E. H. Choosing a spring cereal. *Arable Farmer* 3(1):10-11. Jan.1967. S3.A7  
Barley varieties.
- 69805 FIDDIAN, W. E. H. The outlook of cereal varieties. *Great Brit. Min. Agr. Fish. Food. Agr.* 74(9):443-447. Sept.1967. 10 G79J  
Breeding barley, oats and wheat for disease resistance.
- 69806 FISHER, H. M. Cereal yield tests in 1966. *West. Australia. Dep. Agr. J. (ser.4)* 8(9):372-374,377-382, map. Sept.1967. 23 W52J  
Cultivation of varieties of barley, oats and wheat by rainfall regions.
- 69807 FISHER, H. M. Varieties and time of sowing. *West. Australia. Dep. Agr. J. (ser.4)* 8(9):384-386. Sept.1967. 23 W52J  
Barley, oats and wheat.
- 69808 FLANDRIN, F. The best alternative and spring varieties of wheat. (Fr) *Agriculture [Paris]* 31(307):21-22. Jan.1968. 14 Ag823
- 69809 FUMAGALLI, V. Relation between sown and harvested grain in the "polittico" of the Monastery of S. Tommaso di Reggio. (It) *Riv. Storia Agr.* 6(4):360-362. Ref. Dec.1966. 30.98 R52  
English summary, p.414.  
A document of the tenth century.
- 69810 GOUJON, C., PAQUET, J., and JONARD, P. Agronomic research and the wheat. (Fr) *Rev. Franc. Agr.* 18:27-48. Autumn 1967. 281.8 R328
- 69811 GRAVES, C. R., and QUALSET, C. O. Comparative performance of Knox and Knox 62 wheats in Tennessee. *Tenn. Farm Home Sci. Progr. Rep.* 64:4-5. Oct./Dec.1967. 100 T25F

- 69812 HALLAUER, A. R., and others. Relation among three maturity measurements and yield of grain in corn. *Iowa State J. Sci.* 42(2):121-136. Nov.1967. 470 I09  
C. D. Hutchcroft, M. T. Hillson and R. L. Higgs, joint authors.
- 69813 HEARD, T. G. Wheat variety recommendations for 1968. *S. Australia J. Agr.* 71(5):145-149. Dec.1967. 23 S084  
Includes culture.
- 69814 HERNANDEZ BARRERA, R. New focus in mass selection of corn and the advantages of its application in the Dominican Republic. (Sp) *Agricultura [Santo Domingo]* 442/443:12-13,23-25. July/Aug.1967. 8 R323
- 69815 HOSKINS, P. H. Hybrid barley: methods of development and potential usage. *Master Brewers Ass. Amer. Tech. Quart.* 5(1):100-102. Jan./Mar.1968. 390.9 M39T
- 69816 HUGHES, R. G., and SÖPER, M. H. R. Intensive cereal growing break crops—field beans. *Great Brit. Min. Agr. Fish. Food. Agr.* 74(9): 410-415. Sept.1967. 10 G79J
- 69817 JENSEN, N. F. Yorkstar, medium height soft white winter wheat, has good milling quality. *Crops Soils* 20(6):21-22. Mar.1968. 6 W55
- 69818 JONES, J. N., and others. The no-tillage system for corn (*Zea mays* L.). *Agron. J.* 60(1): 17-20. Jan./Feb.1968. 4 Am34P  
J. E. Moody, G. M. Shear, W. W. Moschler, and J. H. Lillard, joint authors.
- 69819 KACHALOVA, Z. P., and KOLOSOV, L. I. Role of crop rotations and fertilization in changing resistance of the winter wheat to diseases. (Rus) *Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl.* 131:231-237. 1967. 20 M857
- 69820 KIRICHENKO, F. G., and MAKSIMENKO, YA. K. Creating hard winter wheat variety for Ukrainian steppe. (Rus) *Selek. Semenovod.* 6:5-12. Nov./Dec.1967. 61.9 Se5
- 69821 LAFEVER, H. N. Hybrid wheat. *Ohio Rep. Res. Develop. Biol. Agr. Home Econ.* 53(1):8-10. Jan./Feb.1968. 100 Oh3S  
Breeding.
- 69822 MANTINO, G. The culture of hard wheats. (It) *G. Agr.* 78(8):87. Feb.25,1968. 16 It1G
- 69823 MARKS, J. Early corn planting pays. *Hoard's Dairyman* 113(5):271. Mar.10,1968. 44.8 H65
- 69824 MCEWAN, J. M. Research unit will help boost N.I. [North Island] wheat acreage. *New Zeal. J. Agr.* 115(1):22-23. July 1967. 23 N48J
- 69825 MCKIBBEN, G. E. No-tillage planting is here; suitable equipment is on the market, most practices are little different from what good farmers are already doing, the advantages are many, and it works. *Crops Soil.* 20(7):19-21. Apr./May 1968. 6 W55  
Corn.
- 69826 NEFEDOV, A. V. Selecting wheat, according to characteristic of the root system. (Rus) *Selek. Semenovod.* 6:49. Nov./Dec.1967. 61.9 Se5
- 69827 NETTEVICH, E. D. Methods of creating analogs-rejuvenators of wheat fertility. (Rus) *Selek. Semenovod.* 6:33-38. Nov./Dec.1967. 61.9 Se5
- 69828 NETTEVICH, E. D., and SERGEEV, A. Yachmen' [Barley]. *Moskva, Moskovskii Robochii,* 1967. 112 p. SB191.B2N4  
Culture.
- 69829 NEWCOMER, J. L., and GIENGER, G. W. Corn planter pointers. *Md. Univ. Ext. Bull.* 224,7 p. Jan.1968. 275.29 M36B
- 69830 NIKITENKO, G. F. Scientific fundamentals of data for varietal renovation of cereals. (Rus) *Selek. Semenovod.* 6:50-57. Nov./Dec. 1967. 61.9 Se5
- 69831 NUNEZ-ESCOBAR, R. Plant populations, row width and nitrogen rate as factors influencing yield, leaf area, nitrogen uptake and other characteristics of corn. *Diss. Abstr., Sect. B,* 28(3):766B. Sept.1967. Z5055.U49D53
- 69832 OSBORN, W. L. Cropping upsurge in Manawatu. *New Zeal. J. Agr.* 115(5):77,79. Nov.1967. 23 N48J  
Chiefly cereals and grasses.
- 69833 PADRHONS, J. Draga, a new variety of winter wheat. (Cz) *Prague. Vyzk. Ustav Zemed. Vestn.* 14(5):212-214. 1967. 19.5 C333
- 69834 PENDLETON, J. W. 200 bushel corn. *Agr. Chem.* 22(9):24-26,148. Sept.1967. 381 Ag8  
Culture.
- 69835 PEREKAL'SKII, F. M. Peculiarities of strong and hard wheat varieties and their reaction to agrotechnical practices, under conditions of the northern region of Kazakhstan. (Rus) *Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl.* 131:43-50. 1967. 20 M857
- 69836 PIONKE, H. P., and WALSH, L. M. Should you change to narrow rows? *Hoard's Dairyman* 113(6):359. Mar.25,1968. 44.8 H65  
Corn and soybean planting.
- 69837 QUALSET, C. O., and GRAVES, C. R. Progress in oat breeding: An evaluation of Blount oats. *Tenn. Farm Home Sci. Progr. Rep.* 64:14-16. Oct. Dec.1967. 100 T25F  
Yields.
- 69838 SAMSONOV, M. M. Sil'nye i tverdye pshenitsy SSSR [Strong and hard wheat in the USSR]. *Moskva, Kolos,* 1967. 167 p. Ref. SB191.W5S2  
Includes cultural practices.
- 69839 SAUCHELLI, V. Fertilizer, the rice bowl, and hunger. *Agr. Chem.* 22(9):20-23. Sept.1967. 381 Ag8  
Varieties and research developments included.
- 69840 SHEPEL', N. A. Selecting sorghum varieties considering injuries performed by sparrows. (Rus) *Selek. Semenovodstvo* 4:65-66. July Aug.1967. 61.9 Se5
- 69841 SIMS, H. J. Wheat breeding, the unending search. *J. Agr. [Melbourne]* 66(1):10-15. Jan. 1968. 23 V66J
- 69842 SIPOS, G. The efficiency of some measures for the maize yield increase. (Rum) *Probl. Agr. [Bucharest]* 20(1):17-24. 1968. 21 R862  
English summary.
- 69843 SMITH, R. A. Columbian wheat crop slumps to 20-year low. *Foreign Agr.* 6(15):5. Apr.8, 1968. A281.9 F76Fo
- 69844 SUKUP, R. B. New approach to narrow row planting. *Crops Soils* 20(6):17-18. Mar.1968. 6 W55  
Includes equipment used for corn planting.
- 69845 SULLAM, V. B. Oromais, corn with high pig-menting power. (It) *G. Agr.* 78(4):43. Jan.28, 1968. 16 It1G  
High xanthophyll corn, a hybrid.
- 69846 SWANN, M. E. P. Wheat growing a triumph over climate. *Queensland Agr. J.* 93(12):757-760. Dec.1967. 23 Q33
- 69847 VARADY, C. Ronega, the new variety of spring wheat. (Fr) *Agr. Romande (ser.A)* 7(1):4-5. Jan.1968. 17 Ag8
- 69848 VIGUIER. Wheat culture in the Lake Fagui-bine region. (Fr) *Agron. Trop. [Paris]* 22(10): 949-953. Oct.1967. 26 Ag86
- 69849 VOIGT, R. L., DUNLAP, J. A., and WHITING, W. C. Arizona grain sorghum, forage sorghum, and sudangrass performance tests 1967. *Ariz. Agr. Exp. Sta. Rep.* 247,25 p. Jan.1968. 100 Ar4M  
Hybrids, varieties and yields.
- 69850 WEBEL, O. D. Population improvement through selection among and within half-sib families in maize. *Diss. Abstr., Sect. B,* 28(6):2217B. Dec.1967. Z5055.U49D53
- 69851 WELLHAUSEN, E. J. Opportunities for crop improvement. In *Turk, K. L., and Crowder, L. V., ed. Rural development in tropical Latin America*, p.237-255. Ref.,p.253-255. 1967. HD1857.T8  
Chiefly corn.
- 69852 WENDELL, S. New high lysine corn. *Crops Soils* 20(6):15-17. Mar.1968. 6 W55  
Hybrid.
- 69853 WISE, M. Idaho Wheat Quality Research Laboratory, 1966-67. *Idaho Agr. Res. Progr. Rep.* 122,12 p. 1967. S53.E2  
For breeding purposes.



- 69854 YOUNGMAN, V. E., and others. Sorghum hybrid performance tests in Colorado, 1967. Colo. Agr. Exp. Sta. Gen. Ser. 862, 27 p., map. 1967. 100 C71G  
H. O. Mann, J. Swink, G. O. Hinze, J. C. Hoff, and K. Y. Takeda, joint authors.  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 69855 ZSIBOK, A., and TAKACS, F. Corn culture in the state farms of the Comitát Bekes and Csongrad. (Hu) Magyar Mezogazdasag 23(10):10-12. Mar. 6, 1968. 19 M27

#### Fiber Crops

- 69856 DEMKIN, A. P. Cooperation with science. (Rus) Len Konoplya 11:16-20. 1967. 73.8 L542  
Research programs in the field of hemp growing.
- 69857 HOSKINSON, P. E. The Hancock cotton variety. Tenn. Agr. Exp. Sta. Bull. 431, 14 p. Oct. 1967. 100 T25S
- 69858 MANSUROV, N. I. Using heterosis in cotton breeding. (Rus) Khlopkovodstvo 12:25-28. Dec. 1967. 72.8 K522
- 69859 MULLINS, J. A. Skip-row and high beds for cotton. Tenn. Farm Home Sci. Progr. Rep. 64: 10-11. Oct./Dec. 1967. 100 T25F  
Planting for increased yields.
- 69860 NATIONAL COTTON COUNCIL. Proceedings of the seventeenth annual Cotton Improvement Conference, Atlanta, Georgia, January 12-13, 1965. Memphis, Tennessee, 1965. 164 p. 72.9 C829
- 69861 NEVINNYKH, V. A., and SHCHUKINA, G. N. Breeding and seed growing in the Krasnodar Territory. (Rus) Len Konoplya 11:20-23. 1967. 73.8 L542  
Hemp.
- 69862 PEREVERZEV, G. A. Achievements of breeding. (Rus) Len Konoplya 11:24-25. 1967. 73.8 L542  
Kenaf.
- 69863 SIZOV, A. I. Some results of fibre crop studies. (Rus) Vestnik Sel'skokhoz. Nauk [Moscow] 1:18-24. Ref. 1968. 20 V633  
English summary.
- 69864 VERHALEN, L. M., and others. Oklahoma cotton variety tests results, 1967. Okla. Agr. Exp. Sta. Process. Ser. P-582, 13 p. Feb. 1968. 100 Ok4M  
J. C. Murray, E. S. Oswalt, K. C. Fun, J. W. Simmons, R. Foraker, D. P. Prophet, M. Simmons, and A. Clingenpeel, joint authors.
- 69865 ZAUROV, E. I., and DZHUMAEV, N. The density of cotton stands, after plow down alfalfa. (Rus) Khlopkovodstvo 12:15-16. Dec. 1967. 72.8 K522

#### Forage Crops and Grasses

- 69866 AHRING, R. M., and FRANK, H. Establishment of eastern gamagrass from seed and vegetative propagation. J. Range Manage. 21(1):27-30. Jan. 1968. 60.18 J82
- 69867 ANDREEV, N. G. Experience with creating cultural pastures under conditions of irrigation in the Moscow Region. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 131:279-284. 1967. 20 M857
- 69868 BAJAI, J. Situation of forage Sorghum production in Hungary. (Hu) Agrartud. Kozlem. 26 (3/4):525-539. 1967. 19 B855
- 69869 BALDONI, R., and GIARDINI, A. Forage culture in Italy; directions and prospects. (It) Ital. Agr. 104(9/10):909-926. Sept./Oct. 1967. 16 It1
- 69870 BARABAS, Z. Experiences with hybrid sudan-grass culture. (Hu) Magyar Mezogazdasag 23 (12):10-11. Mar. 20, 1968. 19 M27

- 69871 BAYLOR, J. E. Simple mixtures prove best for pasture, hay, or silage. Hoard's Dairyman 113(7):433, 452. Apr. 10, 1968. 44.8 H65
- 69872 BOCSA, I. Strip method of lucerne seed cultivation at Kompoit. (Hu) Magyar Mezogazdasag 23(12):9-10. Mar. 20, 1968. 19 M27
- 69873 BREVEDAN, G. The improvement of alfalfa. (It) G. Agr. 78(9):101-102. Mar. 3, 1968. 16 It1G
- 69874 BROWN, A. R. Rye varieties proven good forage producers in Piedmont. Ga. Agr. Res. 9 (3):5-7. Winter 1968. 100 G295
- 69875 CASSIDY, G. J. Pastures that help dairymen to succeed. 2. Queensland Agr. J. 93(12):732-742. (Cont.) Dec. 1967. 23 Q33  
Recommended legumes, clover and grass.
- 69876 COOK, C. W. Are you really concerned about your Society [American Society of Range Management]? J. Range Manage. 21(2):63-66. Mar. 1968. 60.18 J82
- 69877 COTTE, A. Present state and improvement of forage production in southern Massif Central. (Fr) Fourrages 31:53-77. Sept. 1967. 60.8 F82  
English summary.
- 69878 COTTIER, K., and WHITE, D. H. Sorghum hybrids. New Zeal. J. Agr. 114(6):30-31. June 1967. 23 N48J  
For forage.
- 69879 CSONTOS, I. Renewal of alkali soil grasslands with new methods. (Hu) Magyar Mezogazdasag 23(9):11. Feb. 28, 1968. 19 M27
- 69880 DAVIES, W. The proceedings of the 9th International Grassland Congress: a review. Herbage Abs. 37(3):153-158. Ref. Sept. 1967. 241 Im733
- 69881 DENMARK. STATENS FORSOGSVIRKSOMHED I PLANTEKULTUR. Culture of horsebeans. (Da) Tidsskr. Planteavl 71(3):402-403. 1967. 11 T439
- 69882 EVANS, T. R. A salinity problem in pasture establishment in the coastal lowlands of southern Queensland. Australian Inst. Agr. Sci. J. 33(3):216-218. Sept. 1967. 23 Au74
- 69883 FREEMAN, J. D. First twenty years of the American Society of Range Management. J. Range Manage. 20(6):400-403. Nov. 1967. 60.18 J82
- 69884 FRIBOURG, H. A., and EDWARDS, N. C. Performance of summer annual grasses for grazing and green-chopping, 1965-1967. Tenn. Agr. Exp. Sta. Bull. 436:80-87. Jan. 1968. 100 T25S
- 69885 FULKERSON, R. S. Blocking increases forage seed yields in Canadian tests. Crops Soils 20 (6):22-23. Mar. 1968. 6 W55
- 69886 GLADSTONES, J. S. Naturalized subterranean clover strains in Western Australia: A preliminary agronomic examination. Australian J. Agr. Res. 18(5):713-731. Ref. Sept. 1967. 23 Au783
- 69887 GLADSTONES, J. S. Selection for economic characters in *Lupinus angustifolius* and *L. digitatus*. 1. Non-shattering pods. Australian J. Exp. Agr. Anim. Husb. 7(27):360-366. Ref. Aug. 1967. 23 Au792
- 69888 GREENWOOD, E. A. N., DAVIES, H. L., and WATSON, E. R. Growth of an annual pasture on virgin land in southwestern Australia, including effects of stocking rate and nitrogen fertilizer. Australian J. Agr. Res. 18(3):447-459. May 1967. 23 Au783  
*Bromus mollis* and *Trifolium subterranean*; sheep grazing.
- 69889 GUEVARA CALDERON, J. Tropical forage plants. In Turk, K. L., and Crowder, L. V., ed. Rural development in tropical Latin America, p. 256-271. Ref., p. 268-271. 1967. HD1857.T8
- 69890 HEYDEL, H. R., and PRUTER, A. Evaluation of a number of *Silene* and *Melandrium* varieties and diagnosis of their seed. (Ge) Int. Seed Testing Ass. Proc. 31(5):751-765. 1966. 61.9 In84P  
English summary.  
In forage plant seed samples.

- 69891 JACKOBS, J. A. No need for strict rules in putting together forage mixtures. *Crops Soils* 20(6):21. Mar.1968. 6 W55
- 69892 JONES, M. B. Forage and protein production by subclover-grass and nitrogen-fertilized California grasslands. *Calif. Agr.* 21(10):4-7. Oct. 1967. 100 C12Cag
- 69893 JUTRAS, M. W. Growing oats in clover-grass seedings. *S. C. Agr. Exp. Sta. Circ.* 151, 10 p. Jan.1968. 100 S08  
Pasture management.
- 69894 KAYLL, A. J. Moor burning in Scotland. *Tall Timbers Fire Ecol. Conf. Proc.*, 6th Annu. Conf.:29-39. Ref. 1967. 99.9 T142  
Ranges.
- 69895 KJAR, M. Lucerne growing in the Burnie-Wynyard district. *Tasmanian J. Agr.* 38(4):301-304. Nov.1967. 23 T182T
- 69896 KLOMP, G. J. The use of woodchips and nitrogen fertilizer in seeding scab ridge. *J. Range Manage.* 21(1):31-36. Jan.1968. 60.18 J82  
Experiments for forage production in Oregon.
- 69897 KLUSMANN, BRACKER, and HADENFELD. Seeding for permanent grassland in Schleswig-Holstein. (Ge) *Betriebswirtsch. Mitt. Wirtschaftsberater* 153:29-30. July 15, 1967. 281.8 B462  
Seed mixtures and planting methods.
- 69898 KOHNLEIN, J. Methods of determining pasture yields in relation to purpose. (Ge) *Wirtschaftseigene Futter* 14(1):51-61. Ref. Jan.1968. 389.79 F98  
English summary.  
Livestock feed and grazing units.
- 69899 KOSTOV, K. Effect of harvesting sainfoin during various phases of development on its growth and yields. (Bu) *Vissh Selskostopanski Inst. "Vasil Kolarov."* *Nauch. Tr.* 15(1):143-149. Ref. 1966. 106.3 P72  
German summary.
- 69900 KRETSCHMER, A. E. *Stylosanthes humilis* a summer-growing, self-regenerating, annual legume for use in Florida pastures. *Fla. Agr. Exp. Sta. Circ.* S-184, 21 p. Feb.1968. 100 F66Ci  
Culture.
- 69901 KYRYCHENKO, I. I. Effect of harvesting date and cutting height on yields of green mass and hay of white sweetclover. (Uk) *Visn. Sil's'ko-hospod. Nauk.* 1:62-66. Jan.1968. 20 V82  
Russian summary.
- 69902 LEMON, P. C. Effects of fire on herbs of the southeastern United States and Central Africa. *Tall Timbers Fire Ecol. Conf. Proc.*, 6th Annu. Conf.:113-127. Ref. 1967. 99.9 T142  
Grassland areas.
- 69903 LOEWENSTEIN, D. E., LEWIS, S. S., and JOHNSON, R. L. A "wee bit" lazy? *Nebr. Univ. Coll. Agr. Home Econ. Quart. Serving Farm Ranch Home* 11,i.e.14(2):6-7. Summer 1967. 100 N27N  
Relation between quality of alfalfa and failure to use known cultivation improvements.
- 69904 MACADAM, R. D. Vetch crops profitable in the Manning District. *Agr. Gaz. New S. Wales* 79(2):101-104. Feb.1968. 23 N472  
Culture.
- 69905 MARINOVA, R. Performance tests with sugar, semi-sugar beet and mangel-wurzel used for forage. (Bu) *Rasteniievudni Nauk.* 4(4):11-18. Ref. 1967. 64.8 R18  
English summary.
- 69906 MCBRIDE, J., and HEADY, H. F. Invasion of grassland by *Baccharis pilularis* DC. *J. Range Manage.* 21(2):106-108. Mar.1968. 60.18 J82  
Includes effects of grazing and range burning; California.
- 69907 MCCAULEY, J. E. What grass produces the best? *Fla. Cattleman Livestock J.* 32(5):28,30. Feb.1968. 43.8 F66  
Varieties and yields.
- 69908 MCLEOD, C. C., and CRAWFORD, W. R. Grazing autumn-sown wheat. *New Zeal. J. Agr.* 115(1):40. July 1967. 23 N48J  
Culture.
- 69909 MOLINE, W. H. What we should know about alfalfa varieties. *Hoard's Dairyman* 113(6):360. Mar.25,1968. 44.8 H65
- 69910 MOWATT, P. J. Lucerne on mallee soils. *S. Australia J. Agr.* 71(5):160-163. Dec.1967. 23 S084
- 69911 MUDD, C. H. Pasture on the Pennines. *Great Brit. Min. Agr. Fish. Food. Agr.* 74(9):440-442. Sept.1967. 10 G79J  
Culture.
- 69912 O'BRIEN, A. D. Run your own pasture trials. *Agr. Gaz. New S. Wales* 79(2):86-89. Feb. 1968. 23 N472
- 69913 ORLETSKII, K. I. Mixed planting of the early and late maturing corn varieties with legumes. (Rus) *Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl.* 131:37-41. 1967. 20 M857  
Forage plants.
- 69914 OWEN, M. A., and BRZOSTOWSKI, H. W. Grass establishment under semi-arid conditions in central Tanganyika. *Trop. Agr. [St. Augustine]* 44(4):275-291. Oct.1967. 26 T754
- 69915 PERMETI, M. Studies concerning most suitable date for the planting of alexandrin clover. (Al) *Bul. Shkencave Bujqesore* 1:48-58. 1967. 21.5 B87  
English summary.
- 69916 PIEPER, R. D. Comparison of vegetation on grazed and ungrazed pinyon-juniper grassland sites in southcentral New Mexico. *J. Range Manage.* 21(1):51-53. Ref. Jan.1968. 60.18 J82
- 69917 REID, R. Studies on the cutting management of grass-clover swards. VI. The effects of different closeness and frequency of cutting treatments on the yield and quality of herbage from a cocksfoot/white clover sward. *J. Agr. Sci. [London]* 70(1):59-64. Feb.1968. 10 J822  
Scotland.
- 69918 REYNOLDS, J. H. Persistence of alfalfa stands under different cutting frequencies. *Tenn. Farm Home Sci. Progr. Rep.* 64:24-27. Oct./Dec.1967. 100 T25F
- 69919 RODEL, M. G. W. Pasture research at Henderson Research Station. II. The management of heavily fertilised, intensively grazed grass pastures. *Mod. Farming Cent. Afr.* 4(7):25,27. Jan.1968. 24 M72
- 69920 RUD, O. E. A study of certain factors affecting the establishment of stands of forage grasses and legumes. *Diss. Abstr.*, Sect. B, 28(6):2230B-2231B. Dec.1967. Z5055.U49D53  
Cultural practices.
- 69921 SARASHIMA, M. Studies on the breeding of artificially synthesized rape (*Brassica napus*). IV. Breeding system of synthesized soiling forage rape. (Ja) *Jap. J. Breeding* 17(4):26-31. Dec.1967. 64.8 J27  
English summary.
- 69922 SATO, K., and NISHIMURA, N. Adaptation and production of grass and legume species and varieties. In *Tohoku Daigaku. Nogaku-bu. Research on the effective use of upland soils in Japan, 1962-1965*, p.5-32. 1967. S599.J3T62
- 69923 SATO, K., NISHIMURA, K., and ITO, M. Culture and fertilizer methods related to pasture and forage crop management. In *Tohoku Daigaku. Nogaku-bu. Research on the effective use of upland soils in Japan, 1962-1965*, p.99-162. 1967. S599.J3T62
- 69924 SCOTT, J. D. Advances in pasture work in South Africa. 2. Cultivated pastures. *Herbage Abs.* 37(3):159-167, map. Sept.1967. 241 Im733  
Review of the literature.
- 69925 SEVERSON, K. E., and GARTNER, F. R. A permanent plot for measurement of vegetation change. *J. Range Manage.* 21(2):111-112. Mar. 1968. 60.18 J82  
For range management.
- 69926 SMITH, D. R. Bias in estimates of herbage utilization derived from plot sampling. *J. Range Manage.* 21(2):109-110. Mar.1968. 60.18 J82



Sugar Crops

- 69927 THORNE, W. Rangelands, challenge to the mind. *J. Range Manage.* 20(6):354-359. Nov. 1967. 60.18 J82  
Resources.
- 69928 UTAH. AGRICULTURAL EXPERIMENT STATION. Recommended pasture planting specifications for Utah. *Utah. Agr. Exp. Sta. Circ.* 149, 16 p. Oct. 1967. 100 Ut1  
U.S. Department of Agriculture, and Utah State University Agricultural Extension Service, cooperating.
- 69929 VAN KEUREN, R. W. Crownvetch for forage? *Ohio Rep. Res. Develop. Biol. Agr. Home Econ.* 53(1):12-14. Jan./Feb. 1968. 100 Oh3S
- 69930 VICENTE-CHANDLER, J. Intensive pasture production. In *Türk, K.-L., and Crowder, L. V., ed. Rural development in tropical Latin America*, p.272-295. Ref., p.293-295. 1967. HD1857.T8
- 69931 WARREN, R. Chemicals for pre-harvest drying of seed crops. *Oreg. Weed Contr. Handbook* 1967:175. 275.28 Or3  
Forage legumes.
- 69932 WEST, N. E. Outline for autoecological studies of range grasses. *J. Range Manage.* 21(2):102-105. Ref. Mar. 1968. 60.18 J82  
For range revegetation and management.
- 69933 YAMANE, I., and others. Grassland improvement. In *Tohoku Daigaku. Nogaku-bu. Research on the effective use of upland soils in Japan, 1962-1965*, p.49-67. Ref. 1967. S599.J3T62  
S. Iizumi, T. Tsuda, K. Sato, Y. Iwanami, and K. Sugawara, joint authors.
- 69934 YAROSHENKO, P. D. Method of determining grass yields by considering height and cover. (Rus) *Moskov. Obsch. Ispytatelei Prirody. Byul. Otd. Biol.* 72(4):120-123. July/Aug. 1967. 511 M85
- 69935 YOUNG, J. A., MCARTHUR, J. A. B., and HEDRICK, D. W. Forage utilization in a mixed-coniferous forest of northeastern Oregon. *J. Forest.* 65(6):391-393. Ref. June 1967. 99.8 F768
- 69936 ZVERKOV, YU. Using peat soils. (Rus) *Zemledelie* 2:9-10. Feb. 1968. 20 Z44  
For cultivation of forage plants.
- Oil Crops
- 69937 BUNTING, E. S. Break crops, oilseed rape. *Great Brit. Min. Agr. Fish. Food. Agr.* 74(10):465-470. Oct. 1967. 10 G79J  
Chiefly culture and varieties.
- 69938 DEERING, R. E. Cutting soybean-harvest losses. *Farm Quart.* 22(4):73,93-94,96-97. Fall 1967. 6 F22995
- 69939 HINSON, K. History and present status of production. *Fla. Agr. Exp. Sta. Bull.* 716:5-12. Aug. 1967. 100 F66S  
Soybeans; general history and Florida cultivation.
- 69940 JASWAL, S. V., and GUPTA, V. P. Selection criteria in improving erect types of groundnut. *Punjab Agr. Univ. J. Res.* 4(2):188-191. June 1967. S19.P8  
Varieties in India.
- 69941 KONONKOV, P. F., and PRATS PEREZ, A. The study of some groundnut varieties in Cuba. (Rus) *Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina. Dokl.* 1:17-20. Jan. 1968. 20 Ak1
- 69942 SAGHY, E. Situation and fundamentals of our sunflower production. (Hu) *Magyar Mezőgazdaság* 23(12):7-8. Mar. 20, 1968. 19 M27
- 69943 SMALL, H. Practices for profit: 7 steps to 50 bushel soybeans. N. C. Univ. Ext. Ext. Folder 248, rev. 8 p.-folder. Dec. 1967. 275.29 N811Ex
- 69944 SUSLOV, V. M. The All-Union Research Institute for Oil Plants [Vsesoyuznyi Nauchno-Issledovatel'skii Institut Maslichnykh Kul'tur]. (Rus) *Vestnik Sel'skokhoz. Nauk. [Moscow]* 11:100-103. Nov. 1967. 20 V633  
Activities.
- 69945 TRIBE, A. J. Sesame. *Field Crop Abs.* 20(3):189-194. Aug. 1967. 241 C73  
Review of the literature.
- 69946 BISOVETS'KYI, T. YA. Rotation of crops—an important agricultural factor in the sugar beet growing zone of the Ukrainian forest-steppe. (Uk) *Visn. Sil's'kohospod. Nauk.* 1:41-49. Jan. 1968. 20 V82  
Russian summary.
- 69947 BUZANOV, I. F. The scientific and technical progress in beet growing. (Rus) *Vestnik Sel'skokhoz. Nauk. [Moscow]* 12:21-26. 1967. 20 V633  
English summary.  
Sugar beets.
- 69948 CHEBOLDA, V. F. Sugar beet varieties, suitable for irrigated cultivation. (Rus) *Sakharn. Svekla* 12:24-26. Dec. 1967. 66.8 Su393
- 69949 FIEDLER, I. Sugar beet culture in Czechoslovakia. (Rus) *Sakharn. Svekla* 12:33-35. Dec. 1967. 66.8 Su393
- 69950 FRESHWATER, I. T. Q.85—some excellent trial results. *Queensland. Bur. Sugar Exp. Sta. Cane Growers' Quart.* 31(3):76-77. Jan. 1, 1968. 65.9 Q3C  
New sugarcane variety.
- 69951 GILL, P. S., and ALAM, M. Effects of seed-rate on plant density and yield of ratoon of pre-winter-planted sugarcane. *Indian Sugar [Calcutta]* 17(6):471-473. Sept. 1967. 65.8 In26
- 69952 HNATYUK, O. M. Differentiated approach to sugar beet sowing. (Uk) *Visn. Sil's'kohospod. Nauk.* 1:49-53. Jan. 1968. 20 V82  
Russian summary.
- 69953 KHANGAN, A. S. Breeding monogerm sugar beets in Moldavia. (Rus) *Sakharn. Svekla* 12:26-28. Dec. 1967. 66.8 Su393
- 69954 KLIMAKHIN, G. I., BALYSHEV, L. N., and FIRSOV, I. P. Some peculiarities of cultivating triploid hybrids of sugar beets. (Rus) *Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl.* 131:61-65. Ref. 1967. 20 M857
- 69955 KOLAGO, P. Some experiences obtained from breeding of the monocarp "AJ"-variety. (Ge) *Deut. Akad. Landwirtschaftswiss. Tagungsber.* 1(89):111-120. 1967. 18 D4825T  
English summary.  
Sugar beets in Poland.
- 69956 MULLER, A. Testing and performance of monocarp sugar beet varieties in the German Federal Republic. (Ge) *Deut. Akad. Landwirtschaftswiss. Tagungsber.* 1(89):49-56. Ref. 1967. 18 D4825T  
English summary.
- 69957 NEGOVSKII, N. A., and POPOV, I. A. Studying productivity of polyhybrids and their parental forms. (Rus) *Sakharn. Svekla* 8:26-28. Aug. 1967. 66.8 Su393  
Sugar beets.
- 69958 SAMOILOV, M. A., GALKIN, V. I., and DYCHENKO, I. I. Working out technology of sugar beet culture after precision-row planting of moist seeds in irrigated soil. (Rus) In *Vsesoyuznyi Nauchno-Issledovatel'skii Institut Sakharnoi Svekly. Za vysokie i ustoiichivye urozhai sakharnoi svekly i drugih sel'skokhozyaistvennykh kul'tur*, p.221-225. 1966. SB220.U4V77
- 69959 TOOHEY, C. L. Germination failures are expensive. *Queensland. Bur. Sugar Exp. Sta. Cane Growers' Quart.* 31(3):102. Jan. 1, 1968. 65.9 Q3C  
Planting date and methods for Queensland.
- 69960 VARSHAVSKII, B. YA. Yields and technological quality of sugar beets, as related to their growing conditions. (Rus) *Sakharn. Svekla* 12:17-20. Dec. 1967. 66.8 Su393  
Chiefly planting density.
- 69961 WILLELY, L. A. Bolting in early-sown sugar beet. *Brit. Sugar Beet Rev.* 36(2):65-66, 70. Dec. 1967. 66.8 B77  
Comparison of varietal differences.
- 69962 YUSUBOV, A. M., and MOSINA, N. R. Methods of increasing planting qualities and productivity of polyploid sugar beets. (Rus) *Sakharn. Svekla* 12:30-32. Dec. 1967. 66.8 Su393  
Breeding.

Tobacco

- 69963 B'YADOVSKII, G. S., and DISSKII, A. I. Experience with gaining high tobacco yields, under unfavorable weather conditions. (Rus) *Tabak* 3:49-50. 1967. 69.8 T112  
Chiefly culture.
- 69964 CLAYTON, E. E. The transfer of blue mold resistance to tobacco from *Nicotiana debneyi*. III. Development of a blue mold resistant cigar wrapper variety. *Tobacco* [New York] 165(7): 27-31. Aug.18,1967. 286.89 T552  
Breeding.
- 69965 GRAHAM, T. W., and others. SC 66, a new multiple-disease-resistant, flue-cured tobacco variety. S. C. Agr. Exp. Sta. Circ. 150,8 p. Dec.1967. 100 So8  
Z. T. Ford, J. F. Chaplin, and R. E. Currin, joint authors.
- 69966 POVILAITIS, B. Agronomic characteristics of Mammoth tobacco. *Lighter* 37(3):9-14. Ref. 1967. 286.89 C16
- 69967 SFYKAS, A. G. Greeks are recognizing value of research more than ever. *Tobacco* [New York] 166(4):35-36. Jan.26,1968. 286.89 T552  
Especially in tobacco breeding.

HORTICULTURAL CROPS

- 69968 BOHNERT, E., and FOERTSCH, J. Gartnergehilfenprüfung [Gardening review for apprentices]. Ed. 9, completely rev. Berlin, Parey, 1967. 116 p. Ref. SB51.B6 1967
- 69969 ERDEI, S. Horticultural Research Institute [Kerteszeti Kutató Intézet]. (Hu) *Magyar Mezőgazdaság* 22(50):12-13. Dec.13,1967. 19 M27
- 69970 GREGORY, E. Dial 946-7771 for horticultural tips in Oklahoma County. Ext. Serv. Rev. 38 (11):3. Nov.1967. 1 Ex892Ex  
Extension program.
- 69971 GROSSMAN, P. The Federal Garden Show in Karlsruhe closes in 1967. (Ge) *Landesverband Gartenbau Landwirt.* Berlin, Mitteilungsbl. 18(11):3-5. Nov.1967. 85 L233
- 69972 SONDERN, J. A. Plastic as soil cover in horticulture. I. (Du) *Groenten Fruit* 23(12):520-522. Sept.27,1967. 80 G89
- 69973 STOKLASOVA, H. Organization of the horticultural research in Holland. (Cz) *Prague. Vyzk. Ustav Zemed. Vestn.* 14(5):193-195. 1967. 19.5 C333

Fruit - General

- 69974 BURMISTROV, A. D. Molodoi plodovyi sad; posadka, formirovanie, ukhod [Young orchard; planting, training, care]. Leningrad, Kolos, 1967. 287 p. SB357.B8
- 69975 NASTOL'NAYA kniga sadovoda [Manual for a fruit farmer]. Leningrad, Lenizdat, 1967. 494 p. Ref. SB357.N25  
Includes berries.
- 69976 WIRTH, A., BRYNER, W., and MELI, T. Report on seven-year trial with rootstocks. (Ge) *Schweiz. Z. Obst- Weinbau* 103(25):733-738. (Concl.) Dec.9,1967. 80 Sch9  
Effect of grafting on yields.
- 69977 ZIKA, J. Fruit culture of British Columbia. (Cz) *Zahradnicke Listy* 61(1):8-10. 1968. 80 Z12
- 69978 ALLEN, R. M., and others. Progress report and citrus foundation budwood release, 1968, through the Arizona Cooperative Citrus Registration-Certification Program. *Ariz. Agr. Exp. Sta. Rep.* 245,12 p. Jan.1968. 100 Ar4M  
H. H. McDonald, J. C. Matejka, and D. R. Rodney, joint authors.  
Arizona Crop Improvement Association, and Arizona Commission of Agriculture and Horticulture, cooperating.
- 69979 ALL ISLAND BANANA GROWERS ASSOCIATION. [Annual general meetings and annual report, 1966]. Kingston, 1967. 87 p. 93.42 AL5  
Includes a notice about the 12th meeting to be held on Dec.13,1967, minutes of the special general meeting held on May 31,1966 and the 11th meeting, Dec.14,1966.
- 69980 BROWN, G. K., and SCHERTZ, C. E. Evaluating shake harvesting of oranges for the fresh fruit market. *Amer. Soc. Agr. Eng. Trans. ASAE* 10(5):577-578,585. 1967. 290.9 Am32T  
Includes damage.
- 69981 BRYDEN, R. N. Coconut improvement campaign in the Gilbert and Ellice Islands (seedling establishment and costs—Tamana Island). *S. Pac. Bull.* 17(4):17-20. Fourth Q.1967. 280.8 So89  
Cultural program.
- 69982 DOUGLAS, J. S. Factors in extending the field culture of limes and bergamot. *Soap, Perfumery Cosmetics* 40(11):814A-814C. Nov.1967. 307.8 So13
- 69983 MARANCA, G. The bases for improving citrus culture in California. (Sp) *Rev. Cafetalera* 74: 35-37. Oct.1967. 68.28 R322
- 69984 MULLIN, J. E. Let's look at future citrus crops objectively. *Citrus Indus.* 48(8):11-13. Aug.1967. 80 C49
- 69985 NAKASONE, H. Y., HIRANO, R., and ITO, P. Preliminary observations on the inheritance of several factors in the passion fruit (*Passiflora edulis* L. and forma *flavicarpa*). *Hawaii. Agr. Exp. Sta. Tech. Progr. Rep.* 161,11 p. Nov. 1967. 100 H313P  
Breeding for resistance to diseases caused by unknown *Fusarium* sp.
- 69986 SHIZUOKA (PROVINCE) KANKITSU SHIKENJO. Gyoseki shuroku [Collection of current work, 1962-66]. Shimizu-shi, 1967. 52 p. SB369.S5  
Citrus research.

Deciduous Fruits

- 69987 FERRAGUTI, M. From outcast to princess: the Decana del Comizio [pear]. (It) *G. Agr.* 77(52): 613-614. Dec.24,1967. 16 It1G
- 69988 FISHER, D. V. High density orcharding. *N. J. State Hort. Soc. Hort. News* 49(1):6-8,11-12, 14-15,20-21. Jan.1968. 81 N46  
Apples.
- 69989 FRY, B. O., and HEATON, E. K. Evaluation of pear varieties for Georgia. *Ga. Agr. Exp. Sta. Circ.* (n.s.) 51,14 p. Dec.1966. 100 G293Ci
- 69990 HANL, I. How and where to plant peaches. (Cz) *Zahradnicke Listy* 61(1):7. 1968. 80 Z12
- 69991 KOCH, V., and others. *Hrusky* [Pears]. *Cesk. Akad. Ved. Sekce Biol.-Lek. Ovocnicka Edice* 15,379 p. Ref. 1967. 86 C332  
C. Blatny, J. Blaha, and J. Katasek, joint authors.
- 69992 LAGAUDE, H. Should French arboriculturists give up or improve pear culture? (Fr) *Pomol. Franc.* 10(1):21-27. Ref. Jan.1968. 80 P77
- 69993 LAPINS, K. O. Some interesting golden delicious [apple] seedling selections. *Fruit Varieties Hort. Dig.* 22(1):7-8. Jan.1968. 80 F9464  
Breeding.
- 69994 LUKES, L. Distance between rows in the belt planting of apples. (Cz) *Zahradnicke Listy* 60(3):70-71. 1967. 80 Z12
- 69995 MAURER, K. J. Compatible and incompatible grafting combinations of apple trees. (Ge) *Klosterneuburg. Hoheren Bundeslehr-Ver-suchsanst. Wein- Obstbau. Mitt.* 17(4):293-300. Ref. July 1967. 105.9 K696  
English summary.
- 69996 MCLAUCHLAN, G. Semi-intensive apple growing could have spectacular results. *New Zeal. J. Agr.* 115(3):113-115. Sept.1967. 23 N48J  
Increased yields.



- 69997 MESHCHERYAKOV, G. I. Statistical processing of data on apple yields. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 1:114-115. 1968. 20 V633  
English summary.
- 69999 MOHACSY, M. Az oszibarack [The peach]. Ed. 3, rev. Budapest, Mezogazdasagi Kiado, 1967. 471 p., map. SB371.M6 1967  
Culture and varieties.
- 69999 MULLINS, M. G. Gravity and the apple tree. Australian Inst. Agr. Sci. J. 33(3):167-171. Ref. Sept. 1967. 23 Au74  
Cultural practice.
- 70000 OLAFSON, G. Raising fruit trees in plastic containers. (No) Gartneryrket 58(1):3-5. Jan. 5, 1968. 80 G1938  
Apples.
- 70001 POPENOE, W. Deciduous fruit varieties for tropical America. Fruit Varieties Hort. Dig. 22(1):8-12. Jan. 1968. 80 F9464  
Central America.
- 70002 TRUSEVICH, G. V., and MOKHNO, Z. S. New rootstocks, propagated by vegetative method. (Rus) Sadovodstvo [Moscow] 11:25-26. 1967. 80 Sa13  
Apples.
- 70003 WILHELMINADORP. PROEFSTATION VOOR DE FRUITTEELT IN DE VOLLE GROND. Jaarverslag [Annual report of the Research Station for Outdoor Fruit Culture], 1966. n.p., 1967. 179 p. 86 W642  
English summary.
- 70013 SAFARYAN, A. M. Barkhatnyi —valuable grape variety for dessert wine. (Rus) Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina. Dokl. 8: 24. Aug. 1967. 20 Akl
- 70014 SCOTT, D. H., and others. Lateblue, a new late-ripening blueberry variety. Fruit Varieties Hort. Dig. 22(1):17. Jan. 1968. 80 F9464  
L. F. Hough, C. Stushnoff, A. D. Draper, joint authors.
- 70015 THORSRUD, J. Planting distances for black currants. (No) Yrkesfrukttyrking 4:35-36. 1967. 80 Y83
- 70016 U. S. AGRICULTURAL RESEARCH SERV. CROPS RESEARCH DIV. Growing American bunch grapes. U. S. D. A. Farmers' Bull. 2123, rev., 22 p., map. Jan. 1968. 1 Ag84F  
Includes varieties.
- 70017 WALDO, G. F. Blackberry breeding involving native Pacific Coast parentage. Fruit Varieties Hort. Dig. 22(1):3. Jan. 1968. 80 F9464  
Oregon varieties and hybrids.

### Nuts

- 70018 MILLIKAN, D. F., HIBBARD, A. D., and GUENGERICH, H. W. Planting problems with pecans. Fruit Varieties Hort. Dig. 22(1):2. Jan. 1968. 80 F9464  
Missouri.

### Shade Trees and Ornamental Plants

- Small Fruits
- 70004 CAHOON, G. A., and GALLANDER, J. F. Grapes for Ohio. Ohio Rep. Res. Develop. Biol. Agr. Home Econ. 53(1):3-5. Jan./Feb. 1968. 100 Oh3S  
Hybrids, varieties and their yields.
- 70005 FANELLI, L. Steel stakes even for espaliered grapes. (It) G. Agr. 78(10):111-112. Mar. 10, 1968. 16 It1G
- 70006 FANELLI, L. The "tendone" under indictment. (It) G. Agr. 78(8):91. Feb. 25, 1968. 16 It1G  
Grape training system.
- 70007 LOOMIS, N. H. New muscadine grape varieties. Fruit Varieties Hort. Dig. 22(1):12. Jan. 1968. 80 F9464
- 70008 OFFICE INTERNATIONAL DE LA VIGNE ET DU VIN. International trade of grape stocks and plants; sanitary and varietal selection; national and international guarantees. (Fr) Office Int. Vigne Vin. Bull. 41(443):37-48. Jan. 1968. 390.8 B37  
Presented at the joint meeting of commissions held at Mainz, September 4-11, 1967; Israeli report by B. Safran and I. Garmi; Tunisian report.
- 70009 OFFICE INTERNATIONAL DE LA VIGNE ET DU VIN. Methods and principles of determination of the viticultural aptitudes of a region and choice of appropriate strains. (Fr) Office Int. Vigne Vin. Bull. 41(443):19-36. Jan. 1968. 390.8 B87  
Presented at the 8th meeting of Commission I held at Mainz, September 4-11, 1967; South African report by E. F. Beukman; Swiss report.
- 70010 POGOSYAN, S. A. Breeding of table and industrial grape varieties. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 12:89-93. Ref. 1967. 20 V633  
English summary.
- 70011 PUFFER, R. E., and others. Effects of alar and top removal on yield of Fresno strawberries at three digging dates. Calif. Agr. 22(2):11-13. Feb. 1968. 100 C12Cag  
V. Voth, and H. J. Bowen, and R. H. Gripp, joint authors.
- 70012 RADU, I. F., IONESCU, P., and BADITESCU, D. Contribution to the characteristics of maturity of scion and stock of grapes. (Rum) Bucharest. Inst. de Cercet. Horti-Vitic. Lucrari Sti. 9:547-575. Ref. 1965, pub. 1966. 86 R862  
French summary.
- 70019 ANDERSON, R. H. The farm home; a place for a tree. Agr. Gaz. New S. Wales 78(4):246. Apr. 1967. 23 N472
- 70020 BRINHART, B. Grow Geranium plants from seed. Org. Gard. Farming 15(3):44-46. Mar. 1968. 57.8 O32
- 70021 CATHEY, H. M. Labor- and time-saving chemicals and techniques. Florists' Rev. 140(3639):20-21, 73-74. Aug. 24, 1967. 80 W41  
In greenhouse culture.
- 70022 CORLEY, W. L. Selected evaluations of ornamental pepper plant [Capsicum spp.] introductions and accessions. Ga. Agr. Exp. Sta. Res. Rep. 8, 12 p. Sept. 1967. S51.E22  
Varieties.
- 70023 DAVIDSON, H. Instructions for planting trees and shrubs. Mich. State Univ. Ext. Ext. Bull. 592, 4 p. Jan. 1968. 275.29 M58B
- 70024 DOWNING, A. J. A treatise on the theory and practice of landscape gardening. Facsim. ed. New York, Funk & Wagnalls, 1967. 576 p. SB471.D6 1967  
Facsimile of 6th ed., 1859.
- 70025 ENGEL, R. E., and ALDERFER, R. B. The effect of cultivation, topdressing, lime, nitrogen and wetting agent on thatch development in 1/4-inch bentgrass turf over a ten-year period. N. J. Agr. Exp. Sta. Bull. 818:32-45. Ref. Jan. 1968. 100 N46S
- 70026 FISCHERSTROM, I. W. Rosor. En sammanställning av vara vanligaste tradgardsrosor for hem och plantering [Roses. A collection of our most common garden roses for home and planting]. Stockholm, Bok och Bild, 1967. 67 p. SB411.F5
- 70027 FOGG, H. G. W. The small greenhouse. London, Barker, 1967. 144 p. (Gardening Handbooks Series) SB415.F6  
Chiefly culture of ornamentals and management.
- 70028 FRANCIS, J. Start lilies in the spring? Org. Gard. Farming 15(3):95. Mar. 1968. 57.8 Or32  
Washington.
- 70029 FUNK, C. R., ENGEL, R. E., and HALISKY, P. M. Clonal evaluation of selections of Kentucky bluegrass, *Poa pratensis* L. N. J. Agr. Exp. Sta. Bull. 818:55-67. Ref. Jan. 1968. 100 N46S
- 70030 FUNK, C. R., and ENGEL, R. E. Performance of Kentucky bluegrass [*Poa pratensis*], perennial ryegrass [*Lolium perenne*] and tall fescue [*Festuca elatior arundinacea*]. N. J. Agr. Exp. Sta. Bull. 818:67-71. Jan. 1968. 100 N46S

- 70031 FUNK, C. R., and HAN, S. J. Recurrent intra-specific hybridization: a proposed method of breeding Kentucky bluegrass, *Poa pratensis*. N. J. Agr. Exp. Sta. Bull. 818:3-14. Ref. Jan. 1968. 100 N46S
- 70032 GENTILE, J. The propagation of Dahlias. Amer. Dahlia Soc. Bull. 40(4):7-9. Dec. 1967. 81 Am322  
By cuttings.
- 70033 GOUIN, F. R. Japanese hollies [*Ilex crenata*]. Md. Univ. Ext. Fact Sheet 199, 2 p. Nov. 1967. 275.29 M36Fa
- 70034 HADFIELD, M. Landscape with trees. London, Country Life, 1967. 199 p. QK488.H3  
Bibliography, p.186-192.
- 70035 HOLLEY, W. D. The outlook for carnation culture. Florists' Rev. 142(3668):16,80-81. Mar.14,1968. 80 W41
- 70036 HORSBURGH, A. S. Alternative Chrysanthemum crops. Scot. Agr. 46(2):56-60. Spring 1967. 10 Sco82So  
Greenhouse culture.
- 70037 HUFFINE, W. W. Turfgrass production and management research progress report, 1967. Okla. Agr. Exp. Sta. Process. Ser. P-580, 24 p. Jan. 1968. 100 Ok4M  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 70038 KILNER, R. B. Daisies tell all. Florists' Rev. 140(3639):13-15. Aug.24,1967. 80 W41
- 70039 LEVDANSKAYA, P. I., and MERLO, A. S. Komnatnye tsvetochnye rasteniya [House plants]. Minsk, Urozhai, 1967. 211 p. Ref. SB419.L45  
Culture.
- 70040 MCDOWELL, T. C., and others. Chemical pruning. Ohio Rep. Res. Develop. Biol. Agr. Home Econ. 53(2):22-23. Mar./Apr. 1968. 100 Oh3S  
J. A. Corso, H. K. Tayama, and D. C. Kiplinger, joint authors.  
Azaleas and Chrysanthemums.
- 70041 MONTREAL BOTANICAL GARDEN. Annales '67; resultats des cultures d'essai de 1966 [Annals '67; results of 1966 trials]. Montreal, 1967? 77 p. 97.41 M76  
Flowers.
- 70042 MULLER-IDZERDA, A. C. 100 indoor plants: their care and cultivation. Ed. 5, rev. London, Blandford Press, 1966. 209 p. SB419.M82 1966  
Translation of 100, i.e. Honderd, Kamerplanten in Kleur.
- 70043 NEW JERSEY AGRICULTURAL EXPERIMENT STATION. 1967 report on turfgrass research at Rutgers University, College of Agriculture and Environmental Science. N. J. Agr. Exp. Sta. Bull. 818, 121 p. Ref. Jan. 1968. 100 N46S
- 70044 NICOLAISEN, A. Bo Bedre's blomsterbog. De bedste blomster til stue og have [Bo Bedre's flower book. The flowers for living room and garden]. Kobenhavn, Fogtdal, 1967. 144 p. (Bo Bedre's Handbog, No. 9) SB406.N5
- 70045 NORGAARD, E. Ten good perennials. (Da) Haven 68(1):4-8. Jan. 1968. 80 H29
- 70046 NOSEI CHOSA IN-KAI. Taikai nogyo hyakka jiten. VII Zoen [Systematic agricultural encyclopedia. VII. Landscape gardening], edited by S. Tohata. Tokyo, 1967. 582 p., map. S411.N6  
Includes ornamental plant varieties and landscape architecture.
- 70047 REHNSTROM, F., and CLAUSEN, G. Trials with seed-raised Freesia strains—1964—66. (Da) Tidsskr. Planteavl 71(3):374-384. 1967. 11 T439  
English summary.
- 70048 SMEAL, P. L. Annual flowers, 1966 variety trials. Va. Agr. Exp. Sta. Res. Rep. 118, 18 p. Jan. 1967. 100 V81R
- 70049 SMITH, D. E., and NELSON, R. L. Gerbera propagation. Calif. Agr. 21(12):7. Dec. 1967. 100 C12Ca9
- 70050 SOERGEL, K., and JOHNSON, C. Home landscaping for beauty and enjoyment. Md. Univ. Ext. Bull. 215, 22 p. May 1967. 275.29 M36B  
Gardening.
- 70051 THOMPSON, W. R., and PALMERTREE, H. D. Mulches improve new turf stands. Weeds Trees Turf 6(12):48,50. Dec. 1967. 79.8 W413
- 70052 U. S. AGRICULTURAL RESEARCH SERV. CROPS RESEARCH DIV. Growing Dahlias. U. S. D. A. Home Gard. Bull. 131, 8 p. Dec. 1967. 1 Ag84Hg  
U. S. Agricultural Research Service, Entomology Research Division, cooperating.
- 70053 U. S. AGRICULTURAL RESEARCH SERV. CROPS RESEARCH DIV. Growing Magnolias. U. S. D. A. Home Gard. Bull. 132, 8 p., map. Jan. 1968. 1 Ag84Hg  
U. S. Agricultural Research Service, Entomology Research Division, cooperating.
- 70054 U. S. AGRICULTURAL RESEARCH SERV. CROPS RESEARCH DIV. Spring flowering bulbs. U. S. D. A. Home Gard. Bull. 136, 14 p. Jan. 1968. 1 Ag84Hg
- 70055 VECERA, L. Evaluation of trials with the outdoor culture of rose rootstocks. (Cz) Zahradnicke Listy 61(1):22-24. 1968. 80 Z12
- 70056 VORISEK, P. Some late varieties of showy Chrysanthemums. (Cz) Zahradnicke Listy 60(4):113. 1967. 80 Z12
- 70057 VYSKOCIL, J. Euphorbia pulcherrima. (Cz) Zahradnicke Listy 61(1):18-19. 1968. 80 Z12  
Culture.
- 70058 WASHINGTON STATE UNIVERSITY. EXTENSION SERV. Roses in your garden. Wash. State Univ. Ext. E. M. 1667, rev., 7 p. Sept. 1967. 275.29 W27Mi
- 70059 WHITE, R. H. The education of ornamental horticultural technicians in Ohio. Diss. Abstr., Sect. A, 28(6):2061A-2062A. Dec. 1967. Z5055.U49D5

## Vegetable and Truck Crops (Including Potatoes)

- 70060 ALEKSASHOV, V. N. Effect of planting density on potato yields. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 131:17-22. 1967. 20 M857
- 70061 ANTANASESCU, R., and others. Measures to assure adequate vegetable harvests—Rumania. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 616:21-26. Dec. 21, 1967. (JPRS 43,783) 173 J663Ste  
F. Ceasescu, R. Apostol, and J. Chiuideia, joint authors.  
Translation from Scinteia 7527:3. Nov. 1967. Issued by CFSTI.
- 70062 ALPAT'EV, A. V. Breeding vegetables and producing their seeds. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 12:27-32. 1967. 20 V633  
English summary.
- 70063 BALLESTER, M. R., and GARCTA, J. L. Response of 4 varieties of eggplants in Fortuna. (Sp) P. R. (Rio Piedras) Agr. Exp. Sta. Misc. Publ. 65:15-17. Mar. 1968. 100 P83Mp
- 70064 BALLESTER, M. R., GARCTA, J. L., and CARO, C. R. Response of 36 varieties of tomatoes in Fortuna, Lajas and Isabela. (Sp) P. R. (Rio Piedras) Agr. Exp. Sta. Misc. Publ. 65:1-8. Mar. 1968. 100 P83Mp  
English summary.
- 70065 BARADA, L. Spring tasks with stored seed potato. (Hu) Magyar Mezogazdasag 23(8):10-11. Feb. 21, 1968. 19 M27
- 70066 BERRY, G. A mathematical model relating plant yield with arrangement for regularly spaced crops. Biometrics 23(3):505-515. Ref. Sept. 1967. 442.8 B5224  
Vegetables.
- 70067 CAMPBELL, J. A., WINDHAM, S. L., and THOMAS, W. O. Once-over harvest and processing studies with certain vegetable crops. Miss. Agr. Exp. Sta. Bull. 750, 10 p. Nov. 1967. 100 M69  
Mechanical harvesting of vegetables for processing.
- 70068 CHEKUNOVA, Z., and SHCHEKOTOVA, E. Effectiveness of installations under plastic covers. (Rus) Kartofel' Ovoshchi 11:34-36. Nov. 1967. 75.3 K147  
Vegetable culture.



- 70069 CHENYKAEVA, E. A., and SPIRIDONOVA, A. I. Sovety ogorodnikam [Suggestions for vegetable growers]. Moskva, Kolos, 1967. 207 p. SB323.C49
- 70070 CHRISTENSEN, S. P. L. Thinning of beets at different stages of growth. (Da) Tidsskr. Planteavl 71(3):359-365. 1967. 11 T439 English summary.
- 70071 COYNE, D. P., and SCHUSTER, M. L. Disease tolerant beans tested. Nebr. Univ. Coll. Agr. Home Econ. Quart. Serving Farm Ranch Home 11,i.e.14(2):10-11. Summer 1967. 100 N27N Breeding for resistance to bacterial diseases.
- 70072 DENMARK. STATENS FORSOEGSVIRKSOMHED I PLANTEKULTUR. Trials with varieties and strains of summer carrots 1965-66. (Da) Tidsskr. Planteavl 71(2):273-276. 1967. 11 T439
- 70073 DENMARK. STATENS FORSOEGSVIRKSOMHED I PLANTEKULTUR. Variety and strain trials with lettuce in coldframes, fall 1963-65. (Da) Tidsskr. Planteavl 71(3):398-399. 1967. 11 T439
- 70074 DORPH-PETERSEN, K., and DALBRO, K. Numerical description of beet cultivars by means of shape indices. (Da) Tidsskr. Planteavl 71(3):385-391. 1967. 11 T439 English summary.
- 70075 DOTSENKO, A. I. Dynamics of yield formation of some potato varieties, as related to the different methods of soil cultivation. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 131: 5-10. 1967. 20 M857
- 70076 DUNCAN, A. A., and BRANDON, J. H. Potato growing in Rangitikei. New Zeal. J. Agr. 115 (1):35,37, map. July 1967. 23 N48J
- 70077 EVDOKIMOV, M., KOMKOVA, M., and KALININA, S. New registered varieties. (Rus) Kartoffel' Ovoshchi 11:10-11. Nov. 1967. 75.8 K147 Potatoes.
- 70078 EVDOKIMOV, M. Soviet selected varieties. (Rus) Kartoffel' Ovoshchi 11:25-27. Nov. 1967. 75.8 K147 Vegetables.
- 70079 FERENCZY, E., and SOMOGYVARI, V. Experiences with large-scale production of peas. I. (Hu) Magyar Mezogazdasag 23(9):4. Feb. 28, 1968. 19 M27
- 70080 FERENCZY, E., and SOMOGYVARI, V. Experiences in large-scale cultivation of pea. II. (Hu) Magyar Mezogazdasag 23(10):19. Mar. 6, 1968. 19 M27
- 70081 FERRALL, G. New onion cross aimed at export markets. New Zeal. J. Agr. 115(1):101. July 1967. 23 N48J Hybrid No. 1.
- 70082 FILIPOV, V. F. Effect of planting depth on yields and quality of potato tubers. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 131:11-17. Ref. 1967. 20 M857
- 70083 FRANCE. INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE. STATION D'AMELIORATION DES PLANTES MARAICHIERES (MONTFAVET). Rapport d'activite [Report on the activities of the Truck Crops Improvement Station], 1966. Montfavet, Centre de Recherches Agronomiques du Sud-Est, 1967? 78 p., map. 86 M76
- 70084 FURNER, B. G. The kitchen garden. Rev. ed. London, Barker, 1967. 144 p. (Gardening Handbooks Series) SB323.F8 1967 Vegetables; culture and varieties.
- 70085 GARRETT, J. T., NETTLES, W. C., and SMITH, F. H. Growing cabbage in South Carolina. Clemson Univ. Ext. Veg. Leaflet 6, rev., 6 p. folder. Nov. 1967. 275.29 C593V
- 70086 GEWT, G. P. New ways with dried peas. Arable Farmer 3(1):14-15, 17. Jan. 1967. S3.A7 Culture.
- 70087 GRUSHKO, M. Patience dock. (Rus) Kartoffel' Ovoshchi 12:25. Dec. 1967. 75.8 K147 Cultivation of Rumex patientia.
- 70088 HALLIG, V. A., and AMSEN, M. G. Yield and quality of cucumbers under glass when the fruits are harvested at 3 sizes. (Da) Tidsskr. Planteavl 71(3):366-373. 1967. 11 T439 English summary.
- 70089 HARDON, J. J. Unilateral incompatibility between *Solanum pennellii* and *Lycopersicon esculentum*. Genetics 57(4):795-808. Ref. Dec. 1967. 442.8 G28 Study of hybrids.
- 70090 HAWK, R. L. Cabbage—chameleon of vegetables. Org. Gard. Farming 15(3):63-65. Mar. 1968. 57.8 Or32 Culture.
- 70091 HENDY, A. F. Efficient vegetable production on the Wirral. Great Brit. Min. Agr. Fish. Food. Agr. 74(7):339-343. July 1967. 10 G79J
- 70092 HNIZDIL, M. The culture of summer cauliflower is a permanent problem. (Cz) Zahradnicke Listy 61(1):14-15. 1968. 80 Z12
- 70093 HOEVEN, A. P. VAN, DER, and SLOBBE, A. Raising of lettuce seedlings. (Du) Groenten Fruit 23(13):575. Oct. 4, 1967. 80 G89
- 70094 HOLMES, J. C., and BOYD, A. E. Sprouting for seed potato crops? Scot. Agr. 47(1):40-43. Winter 1967/68. 10 Sco82So
- 70095 JABLONSKY, E. Carbon dioxide increases production of greenhouse cultures. (Cz) Zahradnicke Listy 61(1):17. 1968. 80 Z12 Chiefly vegetables.
- 70096 JENKINS, C. F. Parsnips and parsley won't grow side-by-side; for plentiful harvests, divide your garden plantings according to their pH factors. Org. Gard. Farming 15(3):41-43. Mar. 1968. 57.8 Or32
- 70097 KAMERAZ, A. YA. Breeding potatoes, resistant to main diseases. (Rus) Selek. Semenovod. 6:39-44. Nov./Dec. 1967. 61.9 Se5
- 70098 KLAPWIJK, D. Better lettuce with ventilators? (Du) Groenten Fruit 23(18):783. Nov. 8, 1967. 80 G89 Greenhouse culture.
- 70099 KNAAP, W. VAN DER, and MELJAARD, D. Early tomatoes on sandy soil. (Du) Groenten Fruit 23(18):784-785. Nov. 8, 1967. 80 G89
- 70100 KNOOP, J. G. Blacktop pop-up. Farm Quart. 22(5):88, 100, 103-104. Fall 1967. 6 F22995 Petroleum mulch in melon and watermelon culture.
- 70101 KURNIK, E. Cultivation of peas in 1967. (Hu) Magyar Mezogazdasag 23(10):20-21. Mar. 6, 1968. 19 M27
- 70102 LAFLIN, T. Vegetable production in the Pacific States of the U.S.A. Great Brit. Min. Agr. Fish. Food. Agr. 74(8):363-367. Aug. 1967. 10 G79J
- 70103 LARSEN, J. E. Greenhouse vegetable operations increasing. Tex. Agr. Progr. 14(1):21-22. Winter 1968. 100 T31Te Chiefly tomatoes.
- 70104 LORENZ, O. A. If you're thinking of growing vegetables on beds here's the information you need. Amer. Veg. Grower 15(12):11-13. Dec. 1967. 80 C733
- 70105 LORKH, A. G. Potato breeding and its prospects. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 12:33-36. 1967. 20 V633 English summary.
- 70106 MELARD, V. Nervia, a new Belgian potato variety with good keeping qualities. (Fr) Rev. Agr. [Brussels] 20(9):1203-1209. Sept. 1967. 13 R322
- 70107 MUNDY, E. J. Cheaper chitting out of doors. Arable Farmer 3(1):24-25. Jan. 1967. S3.A7 Potatoes; in Great Britain.
- 70108 NAALDWIJK. PROEFSTATION VOOR DE GROENTE- EN FRUITTEELT ONDER GLAS. Jaarverslag [Annual report of the Experimental Station for Greenhouse Culture of Vegetables and Fruit], 1966. Rotterdam, 1967. 86 N112J English summaries.
- 70109 NAMAI, H., and HOSODA, T. On the breeding of Brassica napus obtained from artificially induced amphidiploids. III. On the breeding of synthetic rutabaga (*B. napus* var. *rapifera*). (Ja) Jap. J. Breeding 17(3):38-48. Sept. 1967. 64.8 J27 English summary.
- 70110 ODLAND, M. L., CREECH, R. G., and MCARDLE, F. J. Tomatoes evaluated for ability to endure mechanical harvesting. Sci. Farmer [Penn. Sta.] 15(2):6. Winter 1968. 100 P381S By variety.

- 70111 PISAREV, B. Elaborating and improving agricultural practices. (Rus) Kartofel' Ovoshchi 11:5-7. Nov.1967. 75.8 K147  
Potato culture in the USSR.
- 70112 POPOVICI, I. The targets of the Research Institute in potato and sugar beet growing. (Rum) Probl. Agr. [Bucharest] 20(1):78-80. 1968. 21 R862
- 70113 PUERTO RICO. AGRICULTURAL EXPERIMENT STATION. Evaluation of vegetable varieties in the substations of Fortuna, Lajas and Isabela. (Sp) P. R. (Rio Piedras) Agr. Exp. Sta. Misc. Publ. 65:17 p. Mar.1968. 100 P83Mp  
English summary.
- 70114 PUSHKARNATH. Seed potato production in the sub-tropical plains of India. Amer. Potato J. 44(12):429-441, map. Dec.1967. 75.8 P842
- 70115 QUINONES, J. A., and ALMODOVAR, L. A. Response of varieties of cucumbers for slicing tested in Lajas. (Sp) P. R. (Rio Piedras) Agr. Exp. Sta. Misc. Publ. 65:9-14. Mar.1968. 100 P83Mp  
English summary.
- 70116 RIRIE, D., and others. Effects of covering materials and incorporated herbicides on lettuce stands under three irrigation treatments. Calif. Agr. 22(2):13-15. Feb.1968. 100 C12Cag  
H. Agamalian, L. J. Booher, and C. Brooks, joint authors.
- 70117 RONGEN, P. Successful culture of edible mushrooms. (Du) Groenten Fruit 23(15):665. Oct.18,1967. 80 G89
- 70118 SHAUMYAN, I. K. Breeding and producing seeds of vegetables and melons. (Rus) Selek. Semenovod. 6:12-19. Nov./Dec.1967. 61.9 Se5
- 70119 SHI, M. Y. A., and SOITOUT, M. Guyana and vegetable culture. (Fr) Agron. Trop. [Paris] 22(10):992-996. Oct.1967. 26 Ag86
- 70120 SPENCER, R. T. Cucumber growing with special reference to the early crop. Agr. Gaz. New S. Wales 78(4):236-239. Apr.1967. 23 N472
- 70121 STRIJBOOSCH, T. Temperatures for growing early greenhouse tomatoes. (Du) Groenten Fruit 23(17):729. Nov.1,1967. 80 G89
- 70122 UFFELEN, J. A. M. VAN. Culture of early cucumbers. (Du) Groenten Fruit 23(18):769, 771. Nov.8,1967. 80 G89
- 70123 UFFELEN, J. VAN. The last weeks of fall cucumbers. (Du) Groenten Fruit 23(13):547. Oct.4,1967. 80 G89  
Culture.
- 70124 UFFELEN, L. VAN. Make profit from your red peppers in 1968. (Du) Groenten Fruit 23(19):827. Nov.15,1967. 80 G89  
Culture.
- 70125 UFFELEN, L. G. VAN. Paprika culture in 1967. (Du) Groenten Fruit 23(18):777. Nov.8, 1967. 80 G89
- 70126 VERHOEVEN, G. Potato growing in Queensland. 1. Queensland Agr. J. 93(12):714-728. (Cont.) Dec.1967. 23 Q33
- 70127 WALLS, I. G. Irrigation methods in the glass-house. Scot. Agr. 46(2):75-78. Spring 1967. 10 Sco82So  
Tomato culture.
- 70128 WARREN, R. Chemicals for pre-harvest drying of potato vines. Oreg. Weed Contr. Handbook 1967:175-176. 275.28 Or3  
Use of sodium arsenite, dinitro compounds, and paraquat.
- 70129 WINDEN, W. P. VAN. Fall lettuce in a mild fall. (Du) Groenten Fruit 23(14):608. Oct.11, 1967. 80 G89  
Greenhouse culture.
- 70130 WOODS, M. J. Factors influencing the production of autumn tomatoes. Irish J. Agr. Res. 6 (2):213-218. Oct.1967. 10.5 Ir45
- 70131 WORLEY, R. E., and HARMON, S. A. Row and plant spacing affect yield of Marion tomatoes. Ga. Agr. Res. 9(3):12-14. Ref. Winter 1968. 100 G295
- 70132 ZLATKOVSKY, A. Earlier and cheaper tomatoes. (Cz) Zahradnicke Listy 60(4):108-109. 1967. 80 Z12  
Planting date, forcing and costs.

# Miscellaneous Economic Plants (Coffee, Tea, Cacao, Etc.)

- 70133 BROWN, J. F., and others. International hop variety trials—1960—64. Inst. Brewing J. 74 (1):68-73. Jan./Feb.1968. 390.9 In7  
F. C. Thompson, B. Trolle, and F. Zattler, joint authors.
- 70134 CHEN, C. C. The efficacy of deep pruning in the rejuvenation of Assam tea plants. (Ch) Taiwan Agr. Quart. 3(2):47-54. June 1967. S19. T3  
English summary.
- 70135 DENGLER, H. W. Bayberries and bayberry candles. Amer. Forests 73(12):5-7, 46, 48-51. Dec.1967. 99.8 F762  
Myrica cerifera, M. pennsylvanica and M. heterophylla wax producing plants.
- 70136 ENRIQUE FERNANDEZ, C. Adaptation of the Latin American coffee production to the world demand. (Sp) Rev. Cafetalera 74:29-32. Oct. 1967. 68.28 R322
- 70137 FOLDESI, D., and TETENYI, P. Cultivation of poppy without thinning with radiation treated seed mixture. (Hu) Magyar Mezogazdasag 23 (4):10-11. Jan.24,1968. 19 M27
- 70138 HANSSON, A. Honey plants: Charlock [Sinapis arvensis]. (Sw) Bitidningen 66(11):332-333, map. Nov.1967. 424.8 B54
- 70139 JOZSA, L., and PAPP, I. Planting area and yield volume of poppy. (Hu) Magyar Mezogazdasag 23(11):11. Mar.13,1968. 19 M27
- 70140 LEKARSTVENNYE rasteniya SSSR; kul'tiviruemye i dikorastushchie [Drug plants in the USSR; cultivated and wild]. Moskva, Kolos, 1967. 400 p. Ref. SB293.L4
- 70141 OLLAGNIER, M., and MARTIN, G. The oil palm in Latin America. II. Advantages by comparison with other industrial crops; forms of development. (Sp) Oleagineux 22(7):433-440. July 1967. 77.8 OL2  
English summary.
- 70142 OPOKU, A. A., and JORDAN, D. Comparison of ground cover plants during establishment of cocoa on clear-felled land in Ghana. Exp. Agr. 4(1):77-86. Ref. Jan.1968. 10 Ex72
- 70143 ROBINSON, V. E. It's like living, man! Forests People 18(1):10-11, 31-33. First Q.1968. 99.8 F7628  
Food plants of Louisiana.
- 70144 SITTON, B. G. Highlights of 29 years of tung production research. Amer. Tung News 19(1):8-9. Jan.1968. 307.9 Am33  
General tree culture.
- 70145 TOMO, N., and others. Studies on the utility of Assam varieties in tea plant breeding. 3. Quality of black tea. (Ja) Jap. Tea Res. Sta. Stud. Tea 34:11-17. Mar.1967. 68.18 Ok3  
A. Watanabe, M. Mitsui, and K. Masuda, joint authors.  
English summary.

# PLANT PATHOLOGY AND PROTECTION

- 70146 ABRAMOVA, E. A. Forecasting in the Kuibyshev Region. (Rus) Zashch. Rast. 1:43. 1968. 421 Z1  
Plant diseases and pests.
- 70147 ANDREEV, S. V., and MARTENS, B. K. In the Biophysical Laboratory. (Rus) Zashch. Rast. 11:25-27. 1967. 421 Z1  
At the All-Union Institute for Plant Protection [Vsesoyuznyi Institut Zashchity Rastenii, Laboratoriya Biofiziki].
- 70148 BABCHUK, I. V. In the Ukraine. (Rus) Zashch. Rast. 8:1-4. 1967. 421 Z1  
Plant protection.
- 70149 BITANCOURT, A. A. Interrelationships with research on plant diseases and pests. In Turk, K. L., and Crowder, L. V., ed. Rural development in tropical Latin America, p.319-322. 1967. HD1857.T8



- 70150 BOUTWELL, R. K. Phenolic compounds as tumor-promoting agents. In Finkle, B. J., and Runeckles, V. C., ed. Phenolic compounds and metabolic regulation, p.120-141. 1967. QH521.F5  
Review of the literature.  
Includes plant tumors.
- 70151 BROWN, J. Port Agricultural Service gives valuable protection. New Zeal. J. Agr. 114(6): 58-60. June 1967. 23 N48J  
Plant and animal quarantine.
- 70152 CAREFOOT, G. L. Famine on the wind: man's battle against plant diseases. Chicago, Rand McNally, 1967. 231 p. SB731.C3  
Bibliography, p.211-218.  
History and control of diseases of some important economic plants.
- 70153 DAVIS, T. A., and PILLAI, N. G. Effect of magnesium and certain micro-nutrients on root (wilt) affected and healthy coconut palms. Oleagineux 21(11):669-674. Ref. Nov.1966. 77.8 OL2
- 70154 DEÜTSCHER PFLANZENSCHUTZTAGUNG, 36, GODESBERG, 1966. Report of the 36th German Plant Protection Congress. (Fr) Rev. Agr. [Brussels] 20(10):1393-1410. Oct.1967. 13 R322  
Summaries of papers.
- 70155 DYTE, C. E. Helping plants protect themselves. New Sci. 36(571):410-411. Nov.16, 1967. 472 N42
- 70156 ENNIS, W. B., and MILLER, P. R. Pesticides—potential and problem; disease, weed, and nematode control. Int. Agr. Develop. 40:4,6-7. Feb.1968. aS544.A3I6
- 70157 GLAESER, G. The year 1967 from the plant protection standpoint. (Ge) Pflanzenarzt 21(3): 32-33. Mar.1,1968. 464.9 P482
- 70158 GOLOVIN, P. N. Slovar'-spravochnik fitopatologa [A dictionary and handbook of phytopathologist]. Ed. 2, enl. Leningrad, Kolos, 1967. 382 p. SB600.G6 1967
- 70159 GUSEV, V. I. Training specialists. (Rus) Zashch. Rast. 8:14. 1967. 421 Z1  
In plant protection.
- 70160 HAWAIIAN ACADEMY OF SCIENCES. Proceedings of the forty-second annual meeting, 1966-1967. Honolulu, Hawaii, 1967. 42 p. 500 H31A  
Includes plant pathology.
- 70161 HENDERSON, J. Legal thorns in crop spraying. Agrichem. West 10(10):12-13. Oct.1967. 381 Ag85
- 70162 KACSO, A. The economy of plant protection. (Hu) Magyar Mezogazdasag 22(48):14-15. Nov.29,1967. 19 M27
- 70163 KONOVALENKO, P. P., and BILASH, I. S. In the Poltava Region. (Rus) Zashch. Rast. 8: 8-10. 1967. 421 Z1  
Plant protection.
- 70164 KUZNETSOV, M. G. Aircraft in crop protection. (Rus) Zashch. Rast. 8:7-8. 1967. 421 Z1
- 70165 MATTHEWS, D. Detecting seed-borne diseases. New Zeal. J. Agr. 115(3):88-89,91,93. Sept.1967. 23 N48J
- 70166 MCCAIN, A. H., and TRUJILLO, E. E. Plant diseases previously unreported from Hawaii. Plant Dis. Rep. 51(12):1051-1053. Dec.1967. 1.9 P69P
- 70167 MEL'NIKOVA, R. G. In the Crimea. (Rus) Zashch. Rast. 8:50-51. 1967. 421 Z1  
Plant quarantine.
- 70168 NIKULINA, N. K. Treatment with adhesive supplements. (Rus) Zashch. Rast. 4:41-42. 1967. 421 Z1  
Seeds with economic poisons.
- 70169 POLYAKOV, I. M. The All-Union Institute of Plant Protection [Vsesoyuznyi Institut Zashchity Rastenii]. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 11:103-107. Nov.1967. 20 V633  
Activities.
- 70170 PROKOF'EV, O. N. The chemical method and economy. (Rus) Zashch. Rast. 1:4-5. 1968. 421 Z1  
Plant protection.
- 70171 SANDOVICH, S. P. Protecting plant resources. (Rus) Zashch. Rast. 8:48-50. 1967. 421 Z1  
Plant and insect quarantine.
- 70172 SAZONOV, P. V., and NOVOZHILOV, K. V. Results and outlook of chemical methods. (Rus) Zashch. Rast. 11:14-16. 1967. 421 Z1  
Applied in plant protection.
- 70173 SMIRNSKII, A. I. Permanent traveling. (Rus) Zashch. Rast. 8:44. 1967. 421 Z1  
Plant protection in Ukraine.
- 70174 STEPANOV, K. M., and CHUMAKOV, A. E. Prognoz boleznei sel'skokhozyaistvennykh rastenii [Forecasting agricultural plant diseases]. Leningrad, Kolos, 1967. 207 p. SB732.S75  
Bibliography, p.199-207.
- 70175 STREW, S. W. What's ahead in aerial chemicals? Agrichem. West 11(1):5-6. Jan.1968. 381 Ag85  
For plant protection.
- 70176 SUSHCHINSKII, E. N. What you should know about plant quarantine? (Rus) Zashch. Rast. 1: 35-36. 1968. 421 Z1
- 70177 TATURA, V. I. Protecting hops. (Rus) Zashch. Rast. 8:23-24. 1967. 421 Z1  
Against diseases and pests.
- 70178 TESCHE, M. Containers with net bottoms for investigating soil-borne diseases of seedlings. (Ge) Phytopathol. Z. 61(2):197-199. Feb.1968. 464.8 P562  
Made of plastic tubing.
- 70179 UBRIZSY, G. Increasing importance of phytohygienic views. (Hu) Agrartud. Kozlem. 25 (3/4):587-597. Ref. 1967. 19 B855  
Role of plant protection experts.
- 70180 WALLIN, J. R. Ground level climate in relation to forecasting plant diseases. In Shaw, R. H., ed. Ground level climatology, p.149-164., map. Ref. 1967. QC981.S5
- 70181 WELLMAN, F. L. Impact of plant disease on crop production. In Turk, K. L., and Crowder, L. V., ed. Rural development in tropical Latin America, p.296-302. Ref. 1967. HD1857.T8  
Losses.
- 70182 YARWOOD, C. E. Tillage and plant diseases. BioScience 18(1):27-30. Ref. Jan.1968. 500 Am322A

#### Diseases of Field Crops

- 70183 CHANG, T. T. Some suggested procedures and measurements for field experimentation with rice in the tropics. Jap. J. Breeding 17(4):58. Dec.1967. 64.8 J27  
Plant protection.
- 70184 FRANCIS, C. M., MILLINGTON, A. J., and MEHTA, R. K. A chemical test for identification of lucerne (Medicago sativa) seeds. Australian J. Exp. Agr. Anim. Husb. 7(27):357-359. Aug.1967. 23 Au792  
Chromatographic test to prevent introduction of diseases.
- 70185 SMILEY, J. H., and FLOWERS, R. A. Occurrence of tobacco diseases in Kentucky in 1966. Plant Dis. Rep. 51(10):866-867. Oct.1967. 1.9 P69P
- 70186 THOMPSON, L. S., and WILLIS, C. B. Effects of clover root Curculios [Sitona hispidula] and Fusarium species on red clover in the greenhouse. Plant Dis. Rep. 52(3):213-214. Mar. 1968. 1.9 P69P  
Cause of root decay in Canada.
- 70187 THOMPSON, L. S., and WILLIS, C. B. Note on the incidence of Sitona spp. root injury, and root rot [Fusarium] in forage legumes in the Maritime Provinces. J. Econ. Entomol. 60(4):1181-1182. Aug.15,1967. 421 J822
- 70188 WILCOXSON, R. D. How climate affects foliar diseases of forage legumes. Minn. Sci. 23(4): 8-9. July 1967. 100 M668

- 70189 ZUBRYN, E. Henequen [*Agave fourcroydes*] diseased. *Sci. News Lett.* 92(17):403. Oct.2, 1967. 470 Sci24  
Mexico.

#### Diseases of Horticultural Crops

- 70190 BRODIE, B. B., and others. Mixtures of specific pesticides as opposed to board spectrum soil fumigants for multiple pest control. *Plant Dis. Rep.* 52(3):193-197. Mar.1968. 1.9 P69P  
J. M. Good, C. A. Jaworski, and N. C. Glaze, joint authors.  
Control of nematodes, weeds, and fungi on tomatoes in Georgia.
- 70191 CARMAN, G. E. 1968-69 treatment guide for Calif. citrus. *Calif. Citrogr.* 53(5):164,174,176, 179. Mar.1968. 80 C125  
Chemical control of nematodes, weeds, and insect pests.
- 70192 CLAYTON, C. N., and others. 1968 apple spray program for disease and insect control in North Carolina. *N. C. Univ. Ext. Leaflet* 135, 1 p. Jan.1968. 275.29 N811L  
G. C. Rock, G. T. Weekman, and H. R. Garriess, joint authors.
- 70193 COCHRAN, J. H., and others. Peach pest control in South Carolina. *Clemson Univ. Ext. Circ.* 360,rev.,20 p. Dec.1967. 275.29 So8E  
R. J. Ferree, W. C. Nettles, D. H. Petersen, and R. K. Jones, joint authors.  
Chemical control of disease and insects.
- 70194 FLORIDA CITRUS COMMISSION. Florida citrus spray and dust schedule, 1968. Orlando, 1968, 12 p.-folder. 423.8 F66
- 70195 GRAHAM, C., and others. 1968 Maryland spray calendar for commercial apple and peach growers. *Md. Univ. Ext. Bull.* 134,11 p. Jan. 1968. 275.29 M36B  
E. R. Krestensen, T. L. Bissell, L. O. Weaver, and G. J. Stadelbacher, joint authors.  
Diseases and insects.
- 70196 GURLEV, A. S., and SUVOROVA, V. N. Protecting cucumbers in greenhouses. (Rus) *Zashch. Rast.* 8:37. 1967. 421 Z1  
Against diseases and pests.
- 70197 HEJNDORF, F. Diseases and pests of cucumbers and tomatoes in greenhouses. (Da) *Haven* 68(1):13-17. Jan.1968. 80 H29  
Includes chemical control.
- 70198 HERTZ, L. B., LOFGREN, J. A., and JOHNSON, H. G. Home fruit spray guide. *Minn. Univ. Ext. Pam.* 184,8 p.-folder. Dec.1967. 275.29 M66P  
Control of insects and fungus diseases.
- 70199 KNORR, L. C. Citrus growing problems in Venezuela. *Citrus Indus.* 48(8):13,15,18. Aug.1967. 80 C49  
Pests and diseases.
- 70200 NOVAK, M. Helicopters in the protection of vineyards. (Sl) *Soc. Kmetijstvo Gozdarstvo* 18(11):247-249. Aug.31,1967. 21.5 So14  
In spraying of grapes against diseases and pests.
- 70201 SERVISS, G. H. Onions—a not-so-minor market. *Agr. Chem.* 22(12):16-17. Dec.1967. 381 Ag8  
Chemicals needed for pest and disease control.
- 70202 STEINER, H. Integrated plant protection in horticulture. (Ge) *Qualitas Plant. Mater. Veg.* 15(1):71-74. Oct.3,1967. 64.8 M41
- 70203 TELLES DE VASCONCELLOS, M. Biological balance and genetic and physiological resistance of citrus trees in the Dominican Republic. (Sp) *Agricultura [Santo Domingo]* 442/443: 18-19,26. July/Aug.1967. 8 R323  
Pests and diseases.
- 70204 TENNESSEE UNIVERSITY. AGRICULTURAL EXTENSION SERV. 1968 fruit spray schedules. *Tenn. Univ. Ext. Circ.* 438,rev.,25 p. Jan.1968. 275.29 T25C  
Published jointly with Tennessee Agricultural Experiment Station.  
Insects and diseases.

- 70205 VAS'YANOVA, A., and OREKHOVSKAYA, M. Preventive seed disinfection. (Rus) *Kartofel' Ovoshchi* 11:44-45. Nov.1967. 15.8 K147  
Treatment of vegetable seeds against diseases and for better germination.
- 70206 WASHINGTON STATE UNIVERSITY. EXTENSION SERV. 1968 spray recommendations for tree fruits in eastern Washington. *Wash. State Univ. Ext. Bull.* 419,rev.,30 p. Jan.1968. 275.29 W27P  
U.S. Public Health Service, Washington Department of Agriculture, and Fieldmen's Associations of Washington, cooperating.
- 70207 WILLIAMS, G. R., and others. 1968 spray bulletin for tree fruits. *Va. Polytech. Inst. Ext. Bull.* 131,rev.,40 p. Dec.1967. 275.29 V81B  
M. L. Bobb, C. R. Drake, K. D. Hickey, and C. H. Hill, joint authors.  
Disease, weed and insect control.
- 70208 YABLOKOV, YU. N. Decreasing pea seed diseases. (Rus) *Zashch. Rast.* 1:19. 1968. 421 Z1  
By proper planting date.

#### Diseases of Forest Trees

- 70209 HEFFERNAN, T. Advances in tree implantation. 1. *Agrichem. West* 11(1):7-8. Jan.1963. 381 Ag85  
For disease control.
- 70210 TALLOS, P. Forest protection forecast for 1967. (Hu) *Erdesz. Kutatasok* 63(1.3):301-313. 1967. 99.9 Er24  
German summary.  
Insect pests and fungus diseases of forests, chiefly.
- 70211 VORONTSOV, A. I. Mathematics in protection of forests from pests and diseases. (Rus) *Les. Khoz.* 12:31-35. Dec.1967. 99.8 L5622

#### Bacterial Diseases

- 70212 BAGGA, H. S. Effect of different drying temperatures and levels of relative humidity during storage on longevity of dried cultures of pathogenic and industrial microorganisms. *Plant Dis. Rep.* 51(12):1055-1058. Dec.1967. 1.9 P69P  
Bacteria and fungi.
- 70213 BAGGA, H. S. Effect of dry storage versus subculturing on morphology and virulence of microorganisms. *Plant Dis. Rep.* 51(12):1058-1062. Dec.1967. 1.9 P69P  
Bacteria and fungi.
- 70214 BAGGA, H. S. Effect of sealed and unsealed containers on longevity of dried cultures of microorganisms. *Plant Dis. Rep.* 51(9):747-750. Ref. Sept.1967. 1.9 P69P  
Bacteria and fungi.
- 70215 GOTTLIEB, D. Designation of type strains of 47 species of Actinomycetes (Streptomycetes). *Int. J. Syst. Bacteriol.* 18(1):19-20. Jan.1968. 448.3 In8  
Includes plant pathogens.
- 70216 MOSKOVETS, S. N. Research programs of the Institut of Microbiology and Virology. (Rus) *Zashch. Rast.* 8:13-14. 1967. 421 Z1  
At the Ukrainian Academy of Sciences [Akademiya Nauk Ukrainsoi SSR, Institut Mikrobiologii i Virusologii imeni D. K. Zabolotnogo] on bacterial and virus diseases of plants.
- 70217 NAGUIB, A. I. A note on the antagonistic action of extracts of higher plants against microorganisms. *Soil Biol. Int. New Bull.* 7:30-31. July 1967. S590.B5  
Includes plant pathogenic bacteria and fungi.
- 70218 ROUSSAUX, J., KURKDJIAN, A., and BEARDSLEY, R. E. Bacteriophages of *Agrobacterium tumefaciens* (Smith and Town.) Conn. (Fr) *Inst. Pasteur. Ann.* 14(2):237-247. Ref. Feb.1968. 448.3 An75  
English summary.



## Bacterial Diseases - Field Crops

- 70219 DURBIN, R. D., and SINDEN, S. L. The effect of light on the symptomatology of oat halo blight. *Phytopathology* 57(9):1000-1001. Sept. 1967. 464.8 P56  
Caused by *Pseudomonas coronafaciens*.
- 70220 EGAWA, H., YOSHII, K., and UHEYAMA, A. Phenylacetic acid, a metabolite of *Xanthomonas oryzae* (Uyeda et Ishiyama) Dowson in culture affecting the depressive growth of young roots of rice seedlings. (Ja) *Phytopathol. Soc. Jap. Ann.* 34(1):46-50. Jan. 1968. 464.9 P562  
English summary.
- 70221 GEE, M. M., SUN, C. N., and DWYER, J. D. An electron microscope study of sunflower crown gall tumor. *Protoplasma* 64(2):195-200. 1967. 442.8 P94  
Induced by *Agrobacterium tumefaciens*.
- 70222 GYUL'AKHMEDOV, A. N., and RZAEVA, F. Joint application of polymicrofertilizers with disinfectants. (Rus) *Khlopkovodstvo* 12:21. Dec. 1967. 72.8 K522  
Treatment of cotton seeds against bacterial blight with copper trichlorophenolate and minor elements.
- 70223 PEREZ, J. E., and CORTES-MONLLOR, A. Preservation of *Xanthomonas albilineans* isolates in distilled water. *Plant Dis. Rep.* 51(9):739. Sept. 1967. 1.9 P69P  
A pathogen of sugarcane in Puerto Rico.
- 70224 PHELPS, R. H., and SEQUEIRA, L. Synthesis of indoleacetic acid via tryptamine by a cell-free system from tobacco terminal buds. *Plant Physiol.* 42(8):1161-1163. Ref. Aug. 1967. 450 P692  
Using radioactive carbon in bacteria disease research.
- 70225 RANGARAJAN, M., and CHAKRAVARTI, B. P. A strain of *Pseudomonas lapsa* isolated from corn seeds causing bacterial stalk rot in India. *Plant Dis. Rep.* 51(9):764-766. Sept. 1967. 1.9 P69P
- 70226 SCHNATHORST, W. C., and COPLIN, D. Absence of contamination with *Xanthomonas malvacearum* in cotton gins five years after field eradication. *Plant Dis. Rep.* 51(12):1066-1068. Ref. Dec. 1967. 1.9 P69P  
Cause of angular leaf spot in California.
- 70227 SCHNATHORST, W. C. Bacterial blight eliminated from California cotton gins. *Calif. Agr.* 21(12):11. Dec. 1967. 100 C12Cag  
Caused by *Xanthomonas malvacearum*.
- 70228 SINHA, S. K., and NENE, Y. L. Eradication of the seed borne inoculum of *Xanthomonas oryzae* by hot water treatment of paddy seeds. *Plant Dis. Rep.* 51(10):882-883. Oct. 1967. 1.9 P69P  
India.

## Bacterial Diseases - Horticultural Crops

- 70229 BOLAY, A. Bacterial canker of cherries. (Fr) *Agr. Romande (ser.A)* 20(1):8-11. Jan. 1968. 17 Ag8  
*Pseudomonas syringae*.
- 70230 BORECKI, Z., and LYSKANOWSKA, K. *Erwinia amylovora* (Burr.) Winsl. in Poland. *Phytopathol. Z.* 61(2):157-166. Ref. Feb. 1968. 464.8 P562  
On pear trees.
- 70231 DICKENS, L. E., and OSHIMA, N. An evaluation of protective sprays for halo blight control in snap beans. *Plant Dis. Rep.* 52(3):225-226. Mar. 1968. 1.9 P69P  
Colorado.
- 70232 DICKEY, R. S., and NELSON, P. E. *Pseudomonas caryophylli* in carnation. III. Effect of certain environmental factors on development of the pathogen in the host. *Phytopathology* 57(12):1353-1357. Ref. Dec. 1967. 464.8 P56  
Effects of air and soil temperature.
- 70233 GRAHAM, D. C., and HARPER, P. C. Potato blackleg and tuber soft rot. *Scot. Agr.* 46(2):68-74. Spring 1967. 10 Sco82So

- 70234 GRIGORTSEVICH, L. N. Bacterial canker of deciduous fruit. (Rus) *Zashch. Rast.* 8:54. 1967. 421 Z1  
Caused by *Erwinia amylovora* and *Pseudomonas cerasi*; includes control.
- 70235 HORNE, C. W., and JOHNSON, J. D. Attention pear orchardists, look out for fire blight. *Tex. Agr. Progr.* 14(1):15. Winter 1968. 100 T31Te  
Caused by *Erwinia amylovora*.
- 70236 KALIL, M. L. Responses of tomato tissue culture cells to pathogenic strains of *Agrobacterium tumefaciens* and non-pathogenic *Agrobacterium radiobacter*. *Diss. Abstr.*, Sect. B, 28(2):759B-760B. Sept. 1967. Z5055.U49D53
- 70237 KEIL, H. L., and VAN DER ZWET, T. Sodium hypochlorite as a disinfectant of pruning tools for fire blight control. *Plant Dis. Rep.* 51(9):753-755. Sept. 1967. 1.9 P69P  
Caused by *Erwinia amylovora* bacteria on apples and pears.
- 70238 LAYNE, R. E. C. Foliar trichomes and their importance as infection sites for *Corynebacterium michiganense* on tomato. *Phytopathology* 57(9):981-985. Sept. 1967. 464.8 P56
- 70239 MATHEE, F. N. The effects of soil type, nutrition, and substrate aeration and temperature on stomatal activity, water-congestion and susceptibility of peach and pepper plants to bacterial leaf spot infection. *Diss. Abstr.*, Sect. B, 28(6):2220B. Dec. 1967. Z5055.U49D53  
*Xanthomonas pruni* and *X. vesicatoria*, respectively.
- 70240 NEW SOUTH WALES, DEPT. OF AGRICULTURE, BIOLOGY BR. Common scab and Rhizoctonia disease of potato. *Agr. Gaz. New S. Wales* 78(5):3 and 4 of cover. May 1967. 23 N472  
Caused by *Actinomyces scabies* and *Rhizoctonia* sp., respectively; includes control.

## Fungus Diseases

- 70241 AGNIHOTHRUDU, V. Occurrence of *Phymotrichum sylvicolum* Taubenhaus and Watkins in coffee estates in Coorg. *Cur. Sci.* 36(22):618. Nov. 20, 1967. 475 Sci23
- 70242 BALASUBRAMANIAN, A., and RANGASWAMI, G. On the chemical inhibitors of fungal spores from the seedcoats of three plant species. *Cur. Sci.* 36(22):615-616. Nov. 20, 1967. 475 Sci23  
*Helminthosporium oryzae* on tomato, ragimillet, and sorghum.
- 70243 BAXTER, J. W. The species of *Ravenelia* occurring on *Lonchocarpus*. *Mycologia* 60(1):42-48. Jan./Feb. 1968. 450 M99
- 70244 BLACK, A. L., and SUMMERS, L. A. Agricultural fungicides. III. Preparation of 2- and 4-thiocyanato-3,5-dinitrobenzoates. *Australian J. Chem.* 20(10):2293-2296. Ref. Oct. 1967. 475 Au73
- 70245 BLAKEMAN, J. P. Studies on the influence of leaf washings on infection by *Mycosphaerella ligulicola*. *Ann. Appl. Biol.* 61(1):77-88. Ref. Feb. 1968. 442.8 An72
- 70246 CHAVEZ, H. B. Requirements for production and germination of the resting structures of the fungus, *Phymotrichum omnivorum* (Shear) Duggar. *Diss. Abstr.*, Sect. B, 28(6):2217B. Dec. 1967. Z5055.U49D53  
Plant pathogen.
- 70247 CLIFFORD, D. R., and WATKINS, D. A. M. The gas chromatography of dinitroalkyl phenols. *J. Gas Chromatogr.* 6:191-192. Mar. 1968. 381 J8225  
Fungicidal.
- 70248 COOK, R. T. A., and WHEELER, B. E. J. Overwintering of cleistocarps, and infection by ascospores, of *Erysiphe cichoracearum* on *Arctium lappa*. *Brit. Mycol. Soc. Trans.* 50(4):625-630. Dec. 1967. 451 B76
- 70249 EGAWA, H., MASUKO, M., and UHEYAMA, A. Unidentified ninhydrin positive substance found in the culture filtrate of plant pathogenic fungi when cultured on the medium containing authentic amino acids. 1. *Phytopathol. Soc. Jap. Ann.* 34(1):56-60. Jan. 1968. 464.9 P562

- 70250 GEORGOPOULOS, S. G., ZAFIRATOS, C., and GEORGIADIS, E. Membrane functions and tolerance to aromatic hydrocarbon fungitoxinants in conidia of *Fusarium solani*. *Physiol. Plant.* 20(2):373-381. 1967. 450 P564  
Tests with diphenyl and radioactive phosphorus and potassium.
- 70251 GHAFFAR, A., and ZENTMYER, G. A. *Macrophomina phaseoli* on some new weed hosts in California. *Plant Dis. Rep.* 52(3):223. Mar. 1968. 1.9 P69P  
Cause of rot in *Brassica campestris*, *B. geniculata*, and *Malva parviflora*.
- 70252 HERNANDEZ PAZ, M. *Phoma*. (Sp) *Rev. Cafetalera* 74:33-34. Oct.1967. 68,28 R322
- 70253 HOCKING, D. Fungicides for arabica coffee. 15. Brief notice of candidate fungicides (1966) for *Colletotrichum coffeanum* Noack. *Turrialba* 17(3):351-353. July/Sept.1967. 8 T86
- 70254 HORINO, O., and AKAI, S. The fine structure of hyphae of *Helminthosporium oryzae* Ito et Kurib. and *Pyricularia oryzae* Cava. (Ja) *Phytopathol. Soc. Jap. Ann.* 34(1):36-39. Ref. Jan.1968. 464.9 P562  
English summary.
- 70255 ICOCHEA, T. A. DE. A comparative study of isolates of *Sclerotium rolfsii* and *S. coffeicola*. *Diss. Abstr.*, Sect. B, 28(3):758B. Sept.1967. Z5055.U49D53
- 70256 KAMAL, M., and WEINHOLD, A. R. Virulence of *Rhizoctonia solani* as influenced by age of inoculum in soil. *Can. J. Bot.* 45(9):1761-1765. Ref. Sept.1967. 470 C16C
- 70257 KERR, A., and RODRIGO, W. R. F. Epidemiology of tea blister blight (*Exobasidium vexans*). IV. *Brit. Mycol. Soc. Trans.* 50(4):609-614. Dec.1967. 451 B76
- 70258 KONDO, W. T. The responses of *Ustilago avenae* (Pers.) Rostr. to preservation by lyophilization. *Diss. Abstr.*, Sect. B, 28(6):2218B. Dec.1967. Z5055.U49D53
- 70259 LAI, P. Y. Aspects of the saprophytic life of *Cephalosporium gramineum*. *Diss. Abstr.*, Sect. B, 28(6):2219B. Dec.1967. Z5055.U49D53
- 70260 MAHESHWARI, R. The physiology of penetration and infection by urediospores of rust fungi. *Diss. Abstr.*, Sect. B, 28(3):762B. Sept.1967. Z5055.U49D53
- 70261 MASRI, S. S. An improved technique for studying spore germination of *Sclerotinia laxa*. *Phytopathology* 57(9):997. Sept.1967. 464.8 P56
- 70262 MATOLCSY, G., and DOMA, S. Fungistatic activity of some pyrimidine antimetabolites. I. *Acta Phytopathol.* 2(4):361-367. Ref. 1967. SB731.A3  
6-azauracil, 6-azacytosine and 5-aza analogues tested.
- 70263 MCCORKINDALE, N. J., and others. Canadensolide—an antifungal metabolite of *Penicillium canadense*. *Tetrahedron Lett.* 6:727-730. Feb. 1968. 385 T29  
J. L. C. Wright, P. W. Brian, S. M. Clarke, and S. A. Hutchinson, joint authors.
- 70264 MENDIOLA, L. R. Early macromolecular events associated with the stimulation of cytochrome c synthesis by zinc in *Ustilago*. *Diss. Abstr.*, Sect. B, 28(6):2263B. Dec.1967. Z5055.U49D53
- 70265 MUIR, J. A. Occurrence of *Colletotrichum gloeosporioides* on dwarf mistletoe (*Arceuthobium americanum*) in western Canada. *Plant Dis. Rep.* 51(9):798-799. Sept.1967. 1.9 P69P
- 70266 OLD, K. M. Effects of natural soil on survival of *Cochliobolus sativus*. *Brit. Mycol. Soc. Trans.* 50(4):615-624. Ref. Dec.1967. 451 B76  
Plant pathogenic; includes fungistatic soil microorganisms.
- 70267 PRITCHARD, N. J., and BELL, A. A. Relative activity of germination inhibitors from spores of rust and smut fungi. *Phytopathology* 57(9):932-934. Sept.1967. 464.8 P56
- 70268 RAHMAN, M. U., and SUBRAMANIAN, S. A new *Fusarium* wilt of coffee (*Coffea arabica*) in south India. *Plant Dis. Rep.* 51(9):758-759. Sept.1967. 1.9 P69P  
Caused by *Fusarium solani* minus.
- 70269 ROCHA, H. M., and MANCO, G. R. Physiological differences between strains of *Phytophthora palmivora* isolated from fruit, flora cushions, and leaves of cacao. (Sp) *Turrialba* 17(3):350-351. July/Sept.1967. 8 T86  
English summary.
- 70270 SALAS, A., and ECHANDI, E. Zonal leaf spot of coffee (*Coffea arabica* L.) caused by the fungus *Cephalosporium zonatum*. (Sp) *Turrialba* 17(3):292-295. July/Sept.1967. 8 T86  
English summary.
- 70271 THOMAS, C. E., and HALPIN, J. E. Some observations on ascocarp formation and sporulation by species of *Leptosphaerulina*. *Phytopathology* 57(12):1386-1387. Dec.1967. 464.8 P56
- 70272 UBRIZSY, G., and VOROS, J. Antibiotics against cryptogamic diseases of Hungary. (Fr) *Acta Phytopathol.* 2(4):379-387. 1967. SB371.A3  
Fungus diseases.
- 70273 WATERWORTH, H. E., and POVISH, W. R. *Chrysanthemum* [viscidum-hirtum], *Cleonia* [lucitana], *Crambe* [juncea], *Isatis* [tinctoria], and *Saussurea* [candicans] are susceptible to common leafspot fungi. *Plant Dis. Rep.* 52(3):248-249. Mar.1968. 1.9 P69P
- 70274 WEBBER, F. C. Observations on the structure, life history and biology of *Mycosphaerella ascochyli*. *Brit. Mycol. Soc. Trans.* 50(4):583-600. Ref. Dec.1967. 451 B76  
Causing leaf spot and stem spot diseases in plants.
- 70275 WEBSTER, R. K., and BUTLER, E. E. A morphological and biological concept of the species *Ceratocystis fimbriata*. *Can. J. Bot.* 45(9):1457-1468. Ref. Sept.1967. 470 C16C  
Pathogenic to various plants.
- 70276 ZIMMER, D. E., and THOMAS, C. A. *Rhizoctonia* blight of safflower and varietal resistance. *Phytopathology* 57(9):946-949. Sept. 1967. 464.8 P56  
Caused by *Rhizoctonia solani*.

## Fungus Diseases - Field Crops

- 70277 BAGGA, H. S., and RANNEY, C. D. An in vitro method of determining pathogenicity of organisms involved in the cotton boll rot complex. *Phytopathology* 57(12):1398-1399. Dec.1967. 464.8 P56
- 70278 BAGGA, H. S. Storage of boll rot organisms on infected cotton bolls for prolonged periods. *Plant Dis. Rep.* 51(10):855. Oct.1967. 1.9 P69P  
Mississippi.
- 70279 BALDRIDGE, R. S. Stalk rot—corn stalk rot is almost a symptom of high yield management, but there are ways to combat it, here's how. *Crops Soils* 20(7):11. Apr./May 1968. 6 W55
- 70280 BELL, D. K., and CRAWFORD, J. L. A botran-amended medium for isolating *Aspergillus flavus* from peanuts and soil. *Phytopathology* 57(9):939-941. Sept.1967. 464.8 P56
- 70281 BELL, D. K. Relationships of peanut seed treatment fungicides to seed mycoflora and germination and seedling emergence. *Plant Dis. Rep.* 52(3):240-243. Mar.1968. 1.9 P69P  
Georgia.
- 70282 BHATTACHARYA, P. K., and SHAW, M. The physiology of host-parasite relations. XVIII. Distribution of tritium labelled cytidine, uridine, and leucine in wheat leaves infected with the stem rust fungus [*Puccinia graminis tritici*]. *Can. J. Bot.* 45(5):555-563. Ref. May 1967. 470 C16C
- 70283 BOOSALIS, M. G., SUMNER, D. R., and RAO, A. S. Overwintering of conidia of *Helminthosporium turcicum* on corn residue and in soil in Nebraska. *Phytopathology* 57(9):990-996. Ref. Sept.1967. 464.8 P56  
Incitant of northern leaf blight of corn.



- 70284 BRAVERMAN, S. W. Resistance to crown rust in tall oatgrass [*Arrhenatherum*] introductions. *Plant Dis. Rep.* 52(3):235-237. Ref. Mar.1968. 1.9 P69P  
Caused by *Puccinia coronata avenae* in New York.
- 70285 BRILLOVA, D., and CERNAK, J. The effect of minerals leached out of leaves of sugar beets on the germination of conidia of *Cercospora beticola* Sacc. (Ge) *Biologia [Bratislava]* 22(7):481-489. Ref. 1967. 442.8 B5265
- 70286 BRONNIMANN, A. Information on *Septoria nodorum* Berk., the causal organism of "leaf blotch" and "glume blotch" of wheat. (Ge) *Phytopathol. Z.* 61(2):101-146. Ref. Feb.1968. 464.8 P562  
English summary.
- 70287 BROOKS, D. H., and DAWSON, M. G. Influence of direct-drilling of winter wheat on incidence of take-all [*Ophiobolus graminis*] and eyespot [*Cercospora herpeticoides*]. *Ann. Appl. Biol.* 61(1):57-64. Feb.1968. 442.8 An72
- 70288 BRUEHL, G. W. Effect of plant size on resistance to snowmold of winter wheat. *Plant Dis. Rep.* 51(10):815-819. Ref. Oct.1967. 1.9 P69P  
Caused by *Typhula idahoensis* and *Fusarium nivale* in Washington.
- 70289 BRUEHL, G. W. Lack of significant pathogenic specialization within *Fusarium nivale*, *Typhula idahoensis*, and *T. incarnata* and correlation of resistance in winter wheat to these fungi. *Plant Dis. Rep.* 51(10):810-814. Oct.1967. 1.9 P69P  
Cause of snowmold in Washington.
- 70290 BUGBEE, W. M. *Verticillium nigrescens* from cotton. *Plant Dis. Rep.* 51(9):760-761. Sept.1967. 1.9 P69P  
Cause of wilt in Missouri.
- 70291 BUSHNELL, W. R., DUECK, J., and ROWELL, J. B. Living haustoria and hyphae of *Erysiphe graminis* f.sp. *hordei* with intact and partly dissected host cells of *Hordeum vulgare*. *Can. J. Bot.* 45(9):1719-1732. Ref. Sept.1967. 470 C16C
- 70292 BYFORD, W. J. Laboratory experiments on sugarbeet downy mildew (*Peronospora farinosa*). *Ann. Appl. Biol.* 61(1):47-55. Ref. Feb. 1968. 442.8 An72
- 70293 CASTELLO, W. J. Tobacco brown spot (*Aternaria tenuis* var.). *Rev. Invest. Agropecuar. Ser. 5, Patol. Veg.* 4(3):41-54. 1967. 464.8 R322  
English summary.  
Argentina.
- 70294 CHIEN, C. C., and LIN, S. Y. Studies on the physiologic races of the rice blast fungus, *Piricularia oryzae* Cav. Taipei, Department of Plant Pathology, Taiwan Agricultural Research Institute, 1967? 92 p. Ref. SB608.R5C5  
Final report of the cooperative research project, FG-Ta-107, supported by U.S.D.A., July 1, 1964-June 30, 1967.
- 70295 CLAUSSEN, K. A., and PEPPER, E. H. An examination of the brown pigments from barley leaves. *Cereal Chem.* 45(2):124-132. Ref. Mar.1968. 59.8 C33  
Compared to those from leaves infected by *Helminthosporium sativum* and melanins.
- 70296 CORBAZ, R., and GILLIERON, F. Cost of controlling tobacco mildew in Switzerland. (Fr) *Agr. Romande (ser.A)* 7(1):11-12. Jan.1968. 17 Ag8  
*Peronospora tabacina*.
- 70297 CORBETT, N. H. Fungal breakdown of cellulosic plant fibres. *Naturwissenschaften* 54(13):350-351. July 1,1967. 474 N213  
By *Chaetomium globosum*.
- 70298 DEAN, C. E., and HEGGESTAD, H. E. Release of blue mold resistant tobacco breeding line Florida 513. *Coresta Inform. Bull.* 2:13-14. 1967. 241 C78  
Text also in French.
- 70299 DOLING, D. A., and MANN, G. C. Hit rust now when it's vulnerable. *Arable Farmer* 1(11):4-5. Sept.1967. S3.A7  
Yellow rust of wheat in Great Britain.
- 70300 EVANS, G., and PAULL, R. Incidence and distribution of *Verticillium* wilt in cotton crops of the Namoi Valley. *Australian Inst. Agr. Sci. J.* 33(3):210-212. Sept.1967. 23 Au74
- 70301 EVERSMEYER, M. G., and BURLEIGH, J. R. Effect of temperature on the longevity of *Puccinia recondita* f. sp. *tritici* urediospores on dry wheat foliage. *Plant Dis. Rep.* 52(3):186-188. Mar.1968. 1.9 P69P  
Kansas and Oklahoma.
- FLEISCHMANN, G. Virulence of uredial and aecial isolates of *Puccinia coronata* Corda f. sp. *avenae* identified in Canada from 1952 to 1966. *Can. J. Bot.* 45(9):1693-1701. Sept.1967. 470 C16C  
Tested with oat varieties.
- 70303 FLOWERS, R. A., SMILEY, J. H., and STOKES, G. W. Distribution of race 1 of *Phytophthora parasitica* var. *nicotianae* in Kentucky and Tennessee. *Plant Dis. Rep.* 51(9):731-733. Sept.1967. 1.9 P69P  
Cause of black shank of tobacco.
- 70304 GARRETT, S. D. Effect of nitrogen level on survival of *Ophiobolus graminis* in pure culture on cellulose. *Brit. Mycol. Soc. Trans.* 50(4):519-524. Dec.1967. 451 B76  
Pathogenic to wheat.
- 70305 GESHELE, E. E., and DUBININA, L. Susceptibility of plants, infected with stinking smut to stem rust. (Rus) *Vestnik Sel'skokhoz. Nauk. [Moscow]* 1:31-33. 1968. 20 V633  
English summary.  
Wheat.
- 70306 GHAFFAR, A. A new record of *Microxyphella* sp. on cotton. *Plant Dis. Rep.* 51(9):743. Sept.1967. 1.9 P69P  
Pakistan.
- 70307 GROVER, R. K. Effect of some inorganic salts on wheat stem rust [*Puccinia graminis tritici*]. *Naturwissenschaften* 54(13):350. July 1,1967. 474 N213
- 70308 GROZMAN, YA. L., and GROZMAN, N. P. How to clean sunflower seeds from *Sclerotinia*? (Rus) *Zashch. Rast.* 1:28. 1968. 421 Z1
- 70309 HARDISON, J. R. Systemic activity of fungicide 1991 [1-(butylcarbomoyl)-2-benzimidazole carbamic acid, methyl ester], a derivative of benzimidazole, against diverse grass diseases. *Plant Dis. Rep.* 52(3):205. Mar.1968. 1.9 P69P
- 70310 HEWETT, P. D. Chemical treatment for cereal seed. *Great Brit. Min. Agr. Fish. Food. Agr.* 74(12):555-559. Dec.1967. 10 G79J  
Control of seed-borne *Fusarium* and *Helminthosporium* on barley and oats and *Fusarium* and *Septoria* on wheat.
- 70311 HOLLOMON, D. W., FUCHS, A., and ROHRINGER, R. Levels of shikimate and folate in primary leaves of wheat and in urediospores of leaf rust [*Puccinia recondita*]. *Can. J. Bot.* 45(9):1771-1773. Ref. Sept.1967. 470 C16C
- 70312 HOLTON, C. S. Distribution and prevalence of virulence for Victoria oats in *Ustilago avenae*. *Plant Dis. Rep.* 51(10):846-849. Oct.1967. 1.9 P69P  
Cause of smut.
- 70313 HOLTON, C. S. Race population dynamics in *Ustilago avenae* as related to the persistence of loose smut in oats. *Plant Dis. Rep.* 51(10):844-846. Oct.1967. 1.9 P69P  
Washington.
- 70314 HORINO, O., and AKAI, S. Studies on the pathological anatomy of rice plants infected by *Helminthosporium oryzae*. 1. Behavior of the causal fungus on the coleoptile of rice seedlings and its ultrafine structure. (Ja) *Phytopathol. Soc. Jap. Ann.* 34(1):51-55. Ref. Jan.1968. 464.9 P562  
English summary.  
Includes varieties.
- 70315 IIDA, W., KUDO, K., and KIMIGAFUKURO, T. On the damage of *Cercospora* leaf spot of sugar beets caused by *Cercospora beticola* Sacc. (Ja) *Phytopathol. Soc. Jap. Ann.* 34(1):1-6. Jan. 1968. 464.9 P562  
English summary.

- 70316 JESENA, C. C. Inheritance of resistance of the eight standard differential cultivars of wheat to leaf rust, *Puccinia recondita* f. sp. *tritici* Rob. ex Desm. Diss. Abstr., Sect. B, 28(5):1751B-1752B. Nov.1967. Z5055.U49D53
- 70317 KALASHNIKOV, K. YA. Mixed crops and root rot. (Rus) Zashch. Rast. 1:18. 1968. 421 Z1  
Caused by *Fusarium* on broadbeans inter-planted with corn.
- 70318 KALASHNIKOV, K. YA. The new disinfectants. (Rus) Zashch. Rast. 8:29. 1967. 421 Z1  
Tested on wheat and rice against smut.
- 70319 KATSANOS, R. A. Nature of resistance of sorghum stalk tissue to *Colletotrichum graminicola*. Diss. Abstr., Sect. B, 28(6):2283B. Dec. 1967. Z5055.U49D53
- 70320 KILPATRICK, R. A., MOBLEY, C. L., and WILLIGES, G. G. *Curvularia* leaf spot, a new disease of bluestem grasses. *Phytopathology* 57(9):975-977. Sept.1967. 464.8 P56  
*Curvularia robusta* in *Dichanthium annulatum*.
- 70321 KILPATRICK, R. A. Seedling reaction of barley, oats, and wheat to *Pythium* species. *Plant Dis. Rep.* 52(3):209-212. Ref. Mar.1968. 1.9 P69P  
Texas.
- 70322 KINGSLAND, G. C. Seed-borne fungi on barley, oats, and wheat in South Carolina. S. C. Agr. Exp. Sta. Tech. Bull. 1026, 18 p. Ref. July 1967. 100 So8T  
Includes control.
- 70323 KOLOSOV, L. I. Effect of preceding crops and fertilization on susceptibility of winter wheat to root rot. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 131:239-245. 1967. 20 M857  
Caused by fungi.
- 70324 KOVACS, G. Use of the biological method for the determination of fungicides on seed grain. (Da) Tidsskr. Planteavl 71(3):392-395. 1967. 11 T439
- 70325 KOVALENKO, E. D. Differentiation of *Ascochyta sojaecola*. (Rus) Zashch. Rast. 8:46. 1967. 421 Z1  
In artificial infection of other legumes.
- 70326 KNOTT, D. R. Rust-resistant wheat—an unsolved problem. *New Sci.* 36(576):714-717. Dec.21,1967. 472 N42  
*Puccinia recondita* and *P. graminis tritici* as agent.
- 70327 LAMBE, R. C., and DUNLEAVY, J. M. Soybean root and stem rot caused by *Rhizoctonia solani*, 1966. *Plant Dis. Rep.* 51(10):872. Oct.1967. 1.9 P69P  
Iowa.
- 70328 LUKENS, R. J. Infection of inflorescence of *Poa pratensis* by *Helminthosporium vagans*. *Plant Dis. Rep.* 51(9):752. Sept.1967. 1.9 P69P
- 70329 LUNDERSTADT, J., and FUCHS, W. H. Variations in the inactiveness of hexokinase activity in wheat leaves after infection with *Puccinia graminis tritici*. (Ge) *Naturwissenschaften* 54 (13):349-350. July 1,1967. 474 N213
- 70330 MAIER, C. R. Suitability of granular diluents as carriers for pentachloronitrobenzene in *Rhizoctonia solani* control. *Phytopathology* 57 (9):942-945. Sept.1967. 464.8 P56  
Injury to cotton seedlings.
- 70331 MAMADALIEV, A. KH. Effect of minor elements on fungicidal activities of cotton sap. (Rus) *Khlopkovodstvo* 12:41. Dec.1967. 72.8 K522  
Tested on *Verticillium dahliae*.
- 70332 MANOCHA, M. S., and SHAW, M. Electron microscopy of uredospores of *Melampsora lini* and of rust-infected flax. *Can. J. Bot.* 45(9): 1575-1582. Ref. Sept.1967. 470 C16C
- 70333 MARTIN, N. E., and HENDRIX, J. W. Comparison of root systems produced by healthy and stripe rust-inoculated wheat in mist-, water-, and sand-culture. *Plant Dis. Rep.* 51 (12):1074-1076. Dec.1967. 1.9 P69P  
*Puccinia striiformis* as cause of the disease.
- 70334 MCCARTER, S. M., and LITTRELL, R. H. Pathogenicity of *Pythium myriotylum* to several grass and vegetable crops. *Plant Dis. Rep.* 52 (3):179-183. Ref. Mar.1968. 1.9 P69P  
Georgia; includes cereal crops.
- 70335 MEHTA, B. K., and others. Evaluation of physiologic specialization in *Sphacelotheca reiliana*. *Phytopathology* 57(9):925-928. Ref. Sept.1967. 464.8 P56  
R. A. Frederiksen, J. Collier, and M. C. Futrell, joint authors.  
Includes resistance to head smut in sorghum.
- 70336 MICHEL, L. J., and SIMONS, M. D. Comparison of zineb and maneb with a nickel-maneb mixture for control of oat crown rust. *Plant Dis. Rep.* 52(3):205-208. Mar.1968. 1.9 P69P  
Caused by *Puccinia coronata avenae* in Iowa.
- 70337 MILTON, J. M., and ISAAC, I. Studies on a biotin requiring strain of *Verticillium dahliae*. *Brit. Mycol. Soc. Trans.* 50(4):539-545. Ref. Dec.1967. 451 B76  
Isolated from *Hedysarum coronarium*.
- 70338 MOODY, A. R., KILPATRICK, R. A., and RICH, A. E. Effect of cutting height on development of root rot in clover. *Plant Dis. Rep.* 51(10): 826-828. Oct.1967. 1.9 P69P  
Caused by *Fusarium oxysporum* and *F. solani* on red clover and Ladino white clover, in New Hampshire.
- 70339 MOORE, K. G., and LEACH, R. The effect of 6-benzylaminopurine (benzyladenine) on senescence and chocolate spot (*Botrytis fabae*) of winter beans (*Vicia faba*). *Ann. Appl. Biol.* 61(1):65-76. Ref. Feb.1968. 442.8 An72
- 70340 NEW SOUTH WALES. DEPT. OF AGRICULTURE. BIOLOGY BR. Loose smut of wheat. *Agr. Gaz. New S. Wales* 78(4):3/4 of cover. Apr.1967. 23 N472  
Caused by *Ustilago nuda*; includes control.
- 70341 NORDWIG, A., and JAHN, W. F. A collagenolytic enzyme from *Aspergillus oryzae*. *Eur. J. Biochem.* 3(4):519-529. Ref. Feb.12,1968. QP501.E8
- 70342 POLYAKOV, I. M., and POPOV, V. I. Chemical preparations in control of pathogens in cotton soils. (Rus) *Khlopkovodstvo* 12:38-41. Dec.1967. 72.8 K522  
Fungi.
- 70343 PRASADA, R., and others. Occurrence of physiologic races of wheat and barley rusts in India during 1962-64 and their sources of resistance. *Indian J. Agr. Sci.* 37(4):273-281. Aug.1967. 22 Ag831  
L. M. Joshi, S. D. Singh, D. P. Misra, L. B. Goel, K. Kumari, S. K. Sharma, P. C. Joshi, and S. T. Ahmad, joint authors.
- 70344 ROGOZHINA, E. M. Resistance of barley varieties to leaf rust. (Rus) *Selekt. Semenovod.* 6:64. Nov./Dec.1967. 61.9 Se5
- 70345 ROTH, J. N., and SCHAFER, J. F. Response of barley seedlings to some foliage organisms. *Plant Dis. Rep.* 52(3):215-217. Ref. Mar.1968. 1.9 P69P  
Caused by *Pyrenophora teres* in Indiana; includes resistance.
- 70346 SANKHLA, H. C., and others. Occurrence of perithecial stage of *Erysiphe polygoni* on *Brassica campestris* var. *sarson* and *B. juncea*. *Plant Dis. Rep.* 51(9):800. Sept.1967. 1.9 P69P  
H. G. Singh, G. G. Dalela and R. L. Mathur, joint authors.  
Cause of powdery mildew in India.
- 70347 SCHEFFER, R. R., NELSON, R. R., and ULLSTRUP, A. J. Inheritance of toxin production and pathogenicity in *Cochliobolus carbonum* and *Cochliobolus victoriae*. *Phytopathology* 57 (12):1288-1291. Ref. Dec.1967. 464.8 P56  
Pathogenic to corn.
- 70348 SEMENKO, N. I. Susceptibility of wheat from the world collection of the All-Union Institute of Plant Industry to stem rust. (Rus) *Vestnik Sel'skokhoz. Nauk. [Moscow]* 1:34-39. Ref. 1968. 20 V633  
English summary.



- 70349 SHISHIYAMA, J., OGUCHI, T., and AKAI, S. Biochemical properties of the increased proteins in diseased leaves of rice plants in the early stage of infection by *Helminthosporium oryzae*. (Ja) *Phytopathol. Soc. Jap. Ann.* 34(1): 23-27. Ref. Jan.1968. 464.9 P562  
English summary.
- 70350 SHISHIYAMA, J., OGUCHI, T., and AKAI, S. The change of protein fractions in diseased leaves of rice plants in the early stage of infection by *Helminthosporium oryzae*. (Ja) *Phytopathol. Soc. Jap. Ann.* 34(1):16-22. Ref. Jan. 1968. 464.9 P562  
English summary.
- 70351 SINCLAIR, J. B., and others. Systemic fungicides for cotton seedling diseases? *La. Agr.* 11(2):14-15. Winter 1967/68. 100 L939  
I. Darrag, D. Borum, and L. W. Sloane, joint authors.  
Control of *Rhizoctonia solani*.
- 70352 SINGH, R. S., and others. Internally seedborne nature of two downy mildews on corn. *Plant Dis. Rep.* 51(12):1010-1012. Dec.1967. 1.9 P69P  
H. S. Chaube, R. N. Khanna, and M. M. Joshi, joint authors.  
Caused by *Sclerospora sacchari* and a *Sclerophthora* sp. in India.
- 70353 SINGH, R. S., KHANNA, R. N., and CHAUBE, H. S. A method for obtaining quick infection with *Sclerospora* species. *Plant Dis. Rep.* 51(12):1009. Dec.1967. 1.9 P69P  
Cause of downy mildew in corn and sugar-cane in India.
- 70354 SLEETH, B. Comparative fungicidal effectiveness of chemicals on *Phymatotrichum omnivorum* in laboratory soil cultures. *Plant Dis. Rep.* 52(3):232-234. Mar.1968. 1.9 P69P  
Cause of cotton root rot in Texas.
- 70355 STETSENKO, V. A. Diseases of lupine. (Rus) *Zashch. Rast.* 8:53. 1967. 421 Z1  
Fungus and bacterial; includes control.
- 70356 THOMAS, P. L., and ISAAC, P. K. An electron microscope study of intravacuolar bodies in the uredia of wheat stem rust [*Puccinia graminis*] and in hyphae of other fungi. *Can. J. Bot.* 45(9):1473-1478. Ref. Sept.1967. 470 C16C
- 70357 TILAK, K. V. B. R. Studies on the incidence of *Helminthosporium* disease (*Helminthosporium oryzae* Van Breda) on upland rice (*Oryza sativa* Linn.) under varying levels of fertilization and dates of seeding. *Z. Pflanzenkrankh.* (Pflanzenpathol.) *Pflanzenschutz* 74(9):540-545. Sept.1967. 464.8 Z3  
India.
- 70358 WELLS, H. D., and FORBES, I. Effects of temperature on growth of *Glomerella cingulata* in vitro and on its pathogenicity to *Lupinus angustifolius* genotypes an an and An An. *Phytopathology* 57(12):1309-1311. Dec.1967. 464.8 P56
- 70359 WELLS, H. D. Effects of temperature on pathogenicity of *Helminthosporium setariae* on seedlings of pearl millet, *Pennisetum typhoides*. *Phytopathology* 57(9):1002. Sept.1967. 464.8 P56
- 70360 WOLFE, M. S. Physiologic specialization of *Erysiphe graminis* f. sp. *tritici* in the United Kingdom, 1964-5. *Brit. Mycol. Soc. Trans.* 50(4):631-640. Ref. Dec.1967. 451 B76
- 70361 ZWATZ, B. Remarks on the black rust [*Puccinia graminis*] situation in Austria. (Ge) *Pflanzenarzt* 21(3):38-41. Mar.1,1968. 464.9 P482  
Grain.
- 70363 BAUER, M. Changes in nucleic acid content of the leaf of *Phaseolus vulgaris* after infection with *Uromyces phaseoli* var. *typica*. (Ge) *Phytopathol. Z.* 61(2):191-196. Ref. Feb.1968. 464.8 P562  
English summary.
- 70364 BEAN, G. A., COOK, R. N., and RABBITT, A. E. Chemical control of *Fusarium* blight of turfgrass. *Plant Dis. Rep.* 51 10 :639-641. Oct.1967. 1.9 P69P  
Caused by *Fusarium roseum* in Maryland and Washington, D. C.
- 70365 BLACK, L. L., and SLACK, D. A. Dead-arm disease of grapes in Arkansas and West Virginia. *Plant Dis. Rep.* 51(12):1038-1039. Ref. Dec.1967. 1.9 P69P  
Caused by *Cryptosporella viticola*.
- 70366 BOYD, A. E. W. Where does potato blight come from? *Scot. Agr.* 46(2):78-82. Spring 1967. 10 Sco82So  
Control.
- 70367 BYFORD, W. J. Host specialization of *Peronospora farinosa* on Beta, Spinacia [oleracea] and *Chenopodium* [album]. *Brit. Mycol. Soc. Trans.* 50(4):603-607. Ref. Dec.1967. 451 B76
- 70368 BUSCH, L. V., and EDGINGTON, L. V. Correlation of photoperiod with tuberization and susceptibility of potato to *Verticillium albo-atrum*. *Can. J. Bot.* 45(5):691-693. May 1967. 470 C16C
- 70369 DANCS, MRS. K., and others. Radiobiological evaluation of fungicides application used in apple scab [*Venturia inaequalis*] control. (Hu) *Agrartud. Kozlem.* 26(3. 4):313-325. Ref. 1967. 19 B855  
Z. Csorba, V. Ferencz, and B. Pozsar, joint authors.  
German summary.
- 70370 DHANVANTARI, B. N. The leaf scorch disease of strawberry (*Diplocarpon earliana*) and the nature of resistance to it. *Can. J. Bot.* 45(9): 1525-1543. Ref. Sept.1967. 470 C16C
- 70371 FISHER, F. E. *Cladosporium* leaf spot of citrus in Florida. *Plant Dis. Rep.* 51(12):1070. Dec.1967. 1.9 P69P  
Caused by *Cladosporium oxysporum*.
- 70372 FUNK, C. R., ENGEL, R. E., and HALISKY, P. M. Summer survival of turfgrass species as influenced by variety, fertility level and disease incidence. *N. J. Agr. Exp. Sta. Bull.* 818:71-77. Jan.1968. 100 N46S  
*Festuca rubra* and *Poa pratensis*: includes funguses *Helminthosporium vagans* and *Fusarium roseum*.
- 70373 GOLYSHIN, N. M., SANIN, M. A., and ZINOV'EVA, L. A. Testing new preparation against powdery mildew of cucumbers. (Rus) *Khim. Sel'skom Khoz.* 5(10):20-26. Ref. Oct.1967. 385 K524  
Caused by *Erysiphe cichoracearum*.
- 70374 HALISKY, P. M., and PETERSON, J. L. Occurrence of mushrooms and puffballs and their association with fairy rings in turfgrass areas of New Jersey. *N. J. Agr. Exp. Sta. Bull.* 818:15-19. Jan.1968. 100 N46S  
Fungus disease of grass.
- 70375 HEWETT, P. D. Viable *Septoria* spp. [*S. apii* and *S. apii-graveolentis*] in celery seed samples. *Ann. Appl. Biol.* 61(1):89-98. Feb.1968. 442.8 An72
- 70376 HIGNETT, R. C., and KIRKHAM, D. S. The role of extracellular melanoproteins of *Venturia inaequalis* in host susceptibility. *J. Gen. Microbiol.* 48(2):269-275. Ref. Aug.1967. 448.3 An72  
Pathogenic to apple.
- 70377 HOLCOMB, G. E., and MOTSINGER, R. E. *Zoysia* [japonica] rust in Louisiana. *Plant Dis. Rep.* 51(9):726. Sept.1967. 1.9 P69P  
Caused by *Puccinia zoysiae*.
- 70378 JHOOTY, J. S. Identity of powdery mildews of cucurbits in India. *Plant Dis. Rep.* 51(12): 1079-1080. Dec.1967. 1.9 P69P

## Fungus Diseases - Horticultural Crops

- 70362 ARMSTRONG, G. M., and ARMSTRONG, J. K. The celery-wilt fusarium causes wilt of garden pea. *Plant Dis. Rep.* 51(10):888-892. Ref. Oct.1967. 1.9 P69P  
Caused by *Fusarium oxysporum apii* on celery and peas, and *F. oxysporum pisi* on peas, in South Carolina.

- 70379 KABLE, P. F. *Nectria penicillioides* Ranzoni, stat. conid., an aquatic hyphomycete isolated from peach tree roots. *Australian J. Sci.* 30 (3):108. Ref. Sept.1967. 475 Au72
- 70380 KENNEDY, L. L., and STEWART, A. W. Development and taxonomy of *Apiosporina collinsii*. *Can. J. Bot.* 45(9):1597-1604. Ref. Sept. 1967. 470 C16C  
Pathogenic to *Amelanchier alnifolia*.
- 70381 KHALEEVA, Z. N. Potato disease caused by *Oospora pustulans*. (Rus) *Zashch. Rast.* 1:19-20. 1968. 421 Z1
- 70382 KIELY, T. B. The effect of several dithiocarbamate fungicides on black spot control and fruit quality in Valencia oranges. *Agr. Gaz. New S. Wales* 78(5):309-317. May 1967. 23 N472  
Caused by *Guignardia citricarpa*.
- 70383 KLOTZ, L. J., and others. Orchard tests of citrus rootstocks for resistance to *Phytophthora*. *Calif. Citrogr.* 53(2):38,55. Dec.1967. 80 C125  
W. D. Bitters, T. A. DeWolfe, and N. J. Garbar, joint authors.  
*Phytophthora citrophthora* and *P. parasitica*.
- 70384 KOCHENKO, Z. I. Gray mold of grapes. (Rus) *Zashch. Rast.* 8:28. 1967. 421 Z1  
Caused by fungi; includes control.
- 70385 KOOPMANS, W. Tomato varieties susceptible or resistant to mildew. (Du) *Groenten Fruit* 23(16):699. Oct.25,1967. 80 G89
- 70386 KRISTEV, K., and KRISTEVA, M. The effect of dithiocarbamate-containing fungicides (Zineb and Maneb) on the mitochondrial activity in plum leaves. *Acta Phytopathol.* 2(4):369-372. Ref. 1967. SB371.A3
- 70387 KUZLYAKINA, V. M. Welsh onion disease. (Rus) *Zashch. Rast.* 8:58. 1967. 421 Z1  
Caused by *Peronospora schleidenii* on *Allium fistulosum*.
- 70388 LATE blight of potato. *Agr. Gaz. New S. Wales* 79(2):3 and 4 of cover. Feb.1958. 23 N472  
Caused by *Phytophthora infestans*; includes control.
- 70389 LITTRELL, R. H., and HEALD, C. M. Effect of *Meloidogyne hapla* and *Fusarium oxysporum* on severity of *Fusarium wilt* of *Chrysanthemum*. *Plant Dis. Rep.* 51(9):736-738. Sept. 1967. 1.9 P69P  
Georgia.
- 70390 MARCUSSEN, K. H. Verticillium wilt: a menace to carnation growing. *New Zeal. J. Agr.* 114(1):74-75,77. Jan.1967. 23 N48J  
*Verticillium cinerescens* control.
- 70391 MCLEAN, D. M. Interaction of race I and race II of *Colletotrichum orbiculare* on watermelon. *Plant Dis. Rep.* 51(10):885-887. Ref. Oct.1967. 1.9 P69P  
South Carolina.
- 70392 MELENDEZ, P. L. A cercospora leaf spot of acerola [*Malpighia punicifolia*] in Puerto Rico. *P. R. Univ. J. Agr.* 52(1):71-73. Ref. Jan. 1968. 8 P832J
- 70393 MILHOLLAND, R. D., and GALLETTA, G. J. Relative susceptibility of blueberry cultivars to *Phytophthora cinnamomi*. *Plant Dis. Rep.* 51(12):998-1001. Dec.1967. 1.9 P69P  
North Carolina.
- 70394 MORSINK, F. *Pratylenchus penetrans*—its interaction with *Verticillium albo-atrum* in the Verticillium wilt of potatoes and its attraction by various chemicals. *Diss. Abstr.*, Sect. B, 28(3):762B-763B. Sept.1967. Z5055.U49D53
- 70395 MUDICH, A. Effects of trace-elements bound to superphosphate on the resistance of potato tubers to *Phytophthora infestans* (Mont.) de Bary. *Acta Phytopathol.* 2(4):295-302. 1967. SB731.A3
- 70396 MUNNECKE, D. E., and MICKAIL, K. Y. Thiram persistence in soil and control of damping-off caused by *Phythium ultimum*. *Phytopathology* 57(9):969-971. Sept.1967. 464.8 P56  
Peas as test plants.
- 70397 NELSON, G. A., and OLSEN, O. A. Staining reactions of resting sporangia of *Synchytrium endobioticum* with a tetrazolium compound. *Phytopathology* 57(9):965-968. Sept.1967. 464.8 P56  
Cause of wart disease in potatoes.
- 70398 NEW SOUTH WALES DEPT. OF AGRICULTURE DIV. OF SCIENCE SERV. BIOLOGY BR. Anthracnose of French bean. *Agr. Gaz. New S. Wales* 79(1):3 and 4 of cover. Jan.1968. 23 N472  
Control of causal organism, *Colletotrichum lindemuthianum*.
- 70399 NIKITINA, E. V. Dry rot of potatoes. (Rus) *Zashch. Rast.* 1:46. 421 Z1  
Caused by *Phoma tuberosa*.
- 70400 OZERETSKOVSKAYA, O. L., VASYUKOVA, N. I., and METLITSKII, L. V. A study of the antibiotic substances of the potato, formed in the course of necrotic reaction. (Rus) *Akad. Nauk SSSR. Dokl.* 178(1):244-247. 1968. 511 P444A  
Caused by *Phytophthora infestans*.
- 70401 PATHAK, V. N., and SRIVASTAVA, D. N. Mode of infection and prevention of *Diplodia* stem-end rot of mango fruits (*Mangifera indica*). *Plant Dis. Rep.* 51(9):744-746. Ref. Sept. 1967. 1.9 P69P  
Caused by *Diplodia natalensis* in India.
- 70402 PETERSEN, D. H., and MCGLOHON, N. E. Orchard evidence of direct penetration of peach leaf blades by germinating conidia of the brown rot fungus. *Plant Dis. Rep.* 51(9):750-751. Sept.1967. 1.9 P69P  
Caused by *Monilinia fructicola* in Georgia.
- 70403 PETERSON, J. L. Leaf spot of annual Phlox [drummondii] caused by *Stemphylium botryosum*. *Plant Dis. Rep.* 51(9):741-742. Sept. 1967. 1.9 P69P  
New Jersey.
- 70404 PETERSON, R. S., and CRONIN, E. A. Non-rosaceous hosts of *Phragmidium* (Uredinales). *Plant Dis. Rep.* 51(9):766-767. Sept.1967. 1.9 P69P  
On *Viola* and *Agropyron*.
- 70405 PHILIPPINES. DEPT. OF AGRICULTURE AND NATURAL RESOURCES. AGRICULTURAL INFORMATION DIV. Heart rot of pineapple, its control. *Philippines. Dep. Agr. Natur. Resour. Agr. Inform. Div. Leafl.* 200,4 p. 1966. 25 P539L
- 70406 RASMUSSEN, A. N. Treatment of beet seeds against fungus diseases. (Da) *Tidsskr. Plan-teavl* 71(3):345-354. 1967. 11 T439  
English summary.
- 70407 ROHRBACH, K. G. *Cytospora leucostoma* spore germination. I-II. *Diss. Abstr.*, Sect. B, 28(5):1753B. Nov.1967. Z5055.U49D53  
I, Environmental and carbohydrate requirements; II, Carbohydrate availability in peach tree bark.
- 70408 SHERENGOVYI, P. Z. Shot hole of deciduous fruit. (Rus) *Zashch. Rast.* 1:39. 1968. 421 Z1  
Caused by *Clasterosporium carpophilum*.
- 70409 SHORT, J. L. Potato blight control trials at Terrington. *Great Brit. Min. Agr. Fish. Food. Agr.* 74(7):328-331. July 1967. 10 G79J  
Chemical.
- 70410 STAUNTON, W. P. Studies on light leaf spot (*Gloeosporium concentricum*) of Brassicae. *Irish J. Agr. Res.* 6(2):203-211. Ref. Oct.1967. 10.5 Ir45  
Control.
- 70411 SWEEP, A. A. M., and GOVERS, J. A new disease of cucumbers? (Du) *Groenten Fruit* 23 (17):739. Nov.1,1967. 80 G89  
Caused by a fungus.
- 70412 TOGASHI, J., and SAKAMOTO, M. Studies on the outbreak of the soft-rot disease of Chinese cabbage by *Erwinia aroideae* (Townsend) Holl. 3. On the behavior of *Erwinia aroideae* in field soil. (Ja) *Tohoku Univ. Inst. Agr. Res. Bull.* 19(1):65-81. Ref. Oct.1967. 107.6 T577  
English summary.



- 70413 TUCKER, M. C., and DALE, J. L. Rust on *Zoysia japonica* in Arkansas. Plant Dis. Rep. 51(10):893. Oct.1967. 1.9 P69P  
Caused by *Puccinia zoysiae*.
- 70414 UFFELEN, J. A. M. VAN. A frequent fall disease of cucumber: *Mycosphaerella*? (Du) Groenten Fruit 23(14):621. Oct.11,1967. 80 G89
- 70415 WADSWORTH, D. F., and YOUNG, H. C. Chemical control of diseases affecting turf; progress report, 1967. Okla. Agr. Exp. Sta. Process. Ser. P-581,17 p. Jan.1968. 100 Ok4M  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.  
Tests chiefly for fungus control on *Agrostis* and *Cynodon dactylon*.
- 70416 WENZL, H. Experiments in dry treatment of planting potatoes against *Rhizoctonia [solani]* disease. (Ge) Pflanzenarzt 21(3):34-37. Mar.1,1968. 464.9 P482  
Dust formulations.
- 70417 WILLIAMS, P. H., and MCNABOLA, S. S. Fine structure of *Plasmodiophora brassicae* in sporogenesis. Can. J. Bot. 45(9):1665-1669. Ref. Sept.1967. 470 C16C  
Isolated from cabbage.
- 70418 WILLIAMS, R. E., and HELTON, A. W. Prevention and cure of *Cytospora* canker disease of peach trees with systemic chemicals. Plant Dis. Rep. 51(10):834-838. Oct.1967. 1.9 P69P  
Idaho.
- 70419 WILSON, E. E. Control of European canker of apple by eradivative and protective fungicides. Plant Dis. Rep. 52(3):227-231. Ref. Mar.1968. 1.9 P69P  
Caused by *Nectria galligena* in California.
- 70420 ZAKI, A. H. I. Some physiological studies on healthy and rust-infected bean plants. Diss. Abstr., Sect. B, 28(6):2222B-2223B. Dec.1967. Z5055.U49D53
- 70421 ZENTMYER, G. A., PAULUS, A. O., and BURNS, R. M. Avocado root rot. Calif. Univ. Ext. Circ. 511,16 p. Aug.1967. 100 C12S  
Published jointly with California Agricultural Experiment Station.  
Caused by *Phytophthora cinnamomi*; includes control.
- Fungus Diseases - Forest Trees
- 70422 BARANYÁY, J. A. Notes on Hypoxylon canker of aspen in Alberta. Forest. Chron. 43(4):372-380. Ref. Dec.1967. 99.8 F7623  
Hypoxylon pruinatum on *Populus tremuloides*.
- 70423 BARTOLONI, P., and MORIUNDO, F. The cypress threatened by *Coryneum cardinale*. (It) Ital. Agr. 104:1290-1296, map. Dec.1967. 16 It1
- 70424 BARTON, G. M. Differences in phenolic extracts from healthy Douglas-fir [*Pseudotsuga menziesii*] roots and those infected with *Poria weirii*. Can. J. Bot. 45(9):1545-1552. Ref. Sept.1967. 470 C16C
- 70425 BINGHAM, R. T. Economical and reliable estimates of general combining ability for blister rust resistance obtained with mixed-pollen crosses. U. S. Forest. Serv. Res. Note INT-60,4 p. 1967. A99.9 F764Un  
On *Pinus monticola* in Idaho.
- 70426 CARTER, J. C. Dutch elm disease in Illinois. Ill. Natur. Hist. Surv. Circ. 53:5-19. Oct.1967. 410.9 IL6C
- 70427 COBB, F. W., and PLATT, W. D. Pathogenicity of *Verticicladiella wagnerii* to Douglas fir. Phytopathology 57(9):998-999. Sept. 1967. 464.8 P56  
*Pseudotsuga menziesii*, and also includes infection of *Pinus ponderosa*.
- 70428 EPSTEIN, A. H., and KOWALSKI, R. E. Dutch elm disease in Iowa. Iowa Farm Sci. 22(9):11-14. Mar.1968. 275.28 Io94
- 70429 FILER, T. H. Pathogenicity of *Cytospora*, *Phomopsis*, and *Hypomyces* on *Populus deltoides*. Phytopathology 57(9):978-980. Sept. 1967. 464.8 P56  
*Cytospora chrysosperma*, *Phomopsis macrospora*, and *Hypomyces solani*.
- 70430 FROYD, J. D., and FRENCH, D. W. Ejection and dissemination of ascospores of *Hypoxylon pruinatum*. Can. J. Bot. 45(9):1507-1517. Ref. Sept.1967. 470 C16C  
Pathogenic to *Populus tremuloides*.
- 70431 GAGNON, C. Histochemical studies on the alteration of lignin and pectic substances in white elm [*Ulmus americana*] infected by *Ceratocystis ulmi*. Can. J. Bot. 45(9):1619-1623. Ref. Sept.1967. 470 C16C
- 70432 GILBERTSON, R. L., LOMBARD, F. F., and HINDS, T. E. *Veluticeps berkeleyi* and its decay of pine in North America. Mycologia 60(1):29-41. Ref. Jan./Feb.1968. 450 M99  
Heart rot, chiefly of *Pinus ponderosa*.
- 70433 GILMOUR, J. W. Distribution and significance of the needle blight of pines caused by *Dothistroma pini* in New Zealand. Plant Dis. Rep. 51(9):727-730, map. Ref. Sept.1967. 1.9 P69P
- 70434 GROSS, H. L., and WEIDENSAUL, T. C. Phacididopycnis pseudotsugae associated with bleeding cankers on hemlock [*Tsuga canadensis*]. Plant Dis. Rep. 51(10):807-808. Oct. 1967. 1.9 P69P  
Pennsylvania.
- 70435 IVORY, M. H. Spore germination and growth in culture of *Dothistroma pini* var. *keniensis*. Brit. Mycol. Soc. Trans. 50(4):563-572. Ref. Dec.1967. 451 B76
- 70436 JENKINS, A. E. Specimen record of poplar spotted anthracnose (Shaceloma) in Oklahoma. Plant Dis. Rep. 51(9):785. Sept.1967. 1.9 P69P  
On *Populus angustifolia*.
- 70437 KALLIO, T. Observations of *Fomes annosus* in the spring, 1967. (Fi) Metsätaloudellinen Aikakauslehti 84(7/8):228-230,234. Aug.1967. 99.9 F49  
English summary.  
On *Picea abies*.
- 70438 KATO, F. Contribution to evaluate some serious problems of heart rot of fir. (Go) Frostwiss. Centralbl. 86(6):348-369. Dec.1967. 99.8 F775  
*Fomes annosus*.
- 70439 LACASSE, N. L. The role of auxin in double band formation in chestnut oaks [*Quercus montana*] infected with *Ceratocystis fagacearum*. Diss. Abstr., Sect. B, 28(6):2219B. Dec.1967. Z5055.U49D53
- 70440 LACHANCE, D. Maple canker incited by *Eutypella parasitica*. Diss. Abstr., Sect. B, 28(3):761B-762B. Sept.1967. Z5055.U49D53
- 70441 NEELY, D. Bleeding necrosis of sweet gum [*Liquidambar styraciflua*] in Illinois and Indiana. Plant Dis. Rep. 52(3):223-225. Mar.1968. 1.9 P69P  
Caused by *Botryosphaeria ribis*.
- 70442 NEELY, D. The somatic pressure cushion of *Gnomonia platani*. Mycologia 60(1):84-89. Jan./Feb.1968. 450 M99  
Cause of anthracnose of *Platanus*.
- 70443 QUICK, C. R. Screening conventional fungicides: control of blister rust on sugar pine [*Pinus lambertiana*] in California. U. S. Forest Serv. Res. Note PSW-149,7 p. 1967. A99.9 F7652  
Caused by *Cronartium ribicola*.
- 70444 ROBERTS, B. R. A technique for labeling *Ceratocystis ulmi* with radiocarbon. Plant Dis. Rep. 51(10):803-805. Ref. Oct.1967. 1.9 P69P  
Cause of Dutch elm disease.
- 70445 ROWAN, S. J. The physiochemical basis of gall formation infections by *Cronartium fusiforme*. Diss. Abstr., Sect. B, 28(6):2221B. Dec.1967. Z5055.U49D53  
In loblolly pine.
- 70446 SASEK, V., and MUSILEK, V. Antibiotic activity of mycorrhizal Basidiomycetes and their relation to the host-plant parasites. Ceska Mykol. 22(1):50-55. Ref. Jan.1968. 450 C333  
*Pinus sylvestris*.

- 70447 SCHLOSSER, L. A. On rust [*Melampsora larii*] resistance of a population of tetraploid poplars. (Ge) Zuchter. Genet. Breed. Res. 37 (6):298-300. Oct.24,1967. 442.8 Z8  
English summary.  
Germany.
- 70449 SINCLAIR, W. A. Effects of three carboxylic acids on young elm trees and on Dutch elm disease. Plant Dis. Rep. 51(12):1077-1078. Dec.1967. 1.9 P69P  
Use of butanoic, pentanoic, and 3-methyl butanoic acid to control *Ceratocystis ulmi* in New York.
- 70449 SILVERBORG, S. B., and LARSEN, M. J. Rate of decay in *Pinus strobus* following artificial inoculation with *Fomes pini*. Plant Dis. Rep. 51(10):829-831. Oct.1967. 1.9 P69P  
New York.
- 70450 SMITH, R. S. Verticicladiella root disease of pines. Phytopathology 57(9):935-938. Sept. 1967. 464.8 P56  
Hosts *Pinus monophylla* and *P. ponderosa*.
- 70451 STALEY, J. M., and HAWKSWORTH, F. G. *Bifusella crepidiformis* on Engelmann spruce [*Picea engelmannii*]. Plant Dis. Rep. 51(9):791-792. Sept.1967. 1.9 P69P  
Montana.
- 70452 SZILAGYI, L. Investigations in connection with mortality of conifer seedlings. (Hu) Erdesz. Kutatasok 63(1/3):283-290. 1967. 99.9 Er24  
German summary.  
Orthocide and Zineb in control application.
- 70453 VAARTAJA, O. Pythium and Mortierella in soils of Ontario forest nurseries. Can. J. Microbiol. 14(3):265-269. Ref. Mar.1968. 448.8 C162  
Importance in damping off disease of conifers.
- 70454 VERRALL, A. F. A possibly new pine-oak rust. Plant Dis. Rep. 52(3):248. Mar.1968. 1.9 P69P  
Texas.
- 70455 WAGENER, W. W. Red band needle blight of pines; a tentative appraisal for California. U. S. Forest Serv. Res. Note PSW-153, 6 p. Ref. 1967. A99.9 F7652  
Caused by *Scirrhia pini*.
- 70456 WILSON, C. L. Vascular mycosis of oak in Russia. Plant Dis. Rep. 51(9):739-741. Sept. 1967. 1.9 P69P  
Caused by *Ophiostoma (Ceratocystis) roboris*.

#### Nematodes

- 70457 BHATT, B. D. The influence of certain environmental factors on the respiration of some plant-parasitic nematodes. Diss. Abstr., Sect. B, 28(3):1128B. Sept.1967. Z5055.U49D53
- 70458 LORDELLO, L. G. E. A root-lesion nematode [*Pratylenchus brachyurus*] found infesting Eucalyptus trees in Brazil. Plant Dis. Rep. 51(9):791. Sept.1967. 1.9 P69P  
Eucalyptus saligna and E. alba.
- 70459 MAGGENTI, A. R., and HART, W. H. Soil fumigation by injection and irrigation for the control of nematodes on hops. Plant Dis. Rep. 51(9):794-798. Sept.1967. 1.9 P69P  
California.
- 70460 SCHOENEWEISS, D. F., TAYLOR, D. P., and EDWARDS, D. I. Occurrence and reproduction of a stylet-bearing mycophagous nematode in pycnidia of *Cytosporina acharii*. Phytopathology 57(12):1392-1393. Ref. Dec.1967. 464.8 P56
- 70461 TAYLOR, A. L., and O'BANNON, J. H. Experiments with an apparatus for subsurface application of nematocides to nursery plants in containers. Plant Dis. Rep. 52(3):218-222. Mar. 1968. 1.9 P69P  
Florida.
- 70462 WALKER, J. T., SPECHT, C. H., and MAVRODINEAU, S. Reduction of lesion nematodes [*Pratylenchus penetrans*] in soybean meal and oil-amended soils. Plant Dis. Rep. 51(12):1021-1024. Ref. Dec.1967. 1.9 P69P  
New York.
- 70463 WONG, K. Y. Effects of host species on population changes of *Pratylenchus penetrans* (Cobb, 1917) Filipjev and Schuurmans Stekhoven, 1941. Diss. Abstr., Sect. B, 28(3):1294B. Sept.1967. Z5055.U49D53

#### Nematodes - Field Crops

- 70464 ALLOW, J. M., and KATCHO, Z. A. Nematode infestation of sugarcane in Iraq. Plant Dis. Rep. 51(10):809. Oct.1967. 1.9 P69P
- 70465 BIRCHFIELD, W., and MOTSINGER, R. Soybean cyst nematode [*Heterodera glycines*] found in Louisiana. Plant Dis. Rep. 51(10):823. Oct.1967. 1.9 P69P
- 70466 CHAMBERS, A. Y., and EPPS, J. M. Nature of soybean resistance to *Heterodera glycines*. Plant Dis. Rep. 51(9):771-774. Ref. Sept.1967. 1.9 P69P  
Tennessee.
- 70467 CURI, J., and ZMORAY, I. On some problems of bionomics of sugar beet nematode *Heterodera schachtii* Schmidt, 1871. (Ge) Biologia [Bratislava] 22(2):125-131. Ref. 1967. 442.8 B5265
- 70468 ENDO, B. Y., and SCHAEFFER, G. W. Response of *Heterodera trifolii* in red clover roots to [6-] azauracil and other inhibitors. Phytopathology 57(6):576-579. Ref. June 1967. 464.8 P56
- 70469 EPPS, J. M., and HARTWIG, E. E. Dyer, a new nematode-resistant soybean variety. Tenn. Agr. Exp. Sta. Bull. 426, 10 p. July 1967. 100 T25S  
*Heterodera glycines*, *Meloidogyne incognita* and *M. incognita acrita*.
- 70470 EPPS, J. M., and GOLDEN, A. M. Suitability of Kobe Lespedeza [striata] for reproduction of isolates of the soybean cyst nematode [*Heterodera glycines*] from nine locations. Plant Dis. Rep. 51(9):775-776. Sept.1967. 1.9 P69P
- 70471 JERATH, M. L. *Heterodera sacchari*, a cyst nematode pest of sugarcane new to Nigeria. Plant Dis. Rep. 52(3):237-239. Mar.1968. 1.9 P69P
- 70472 JONES, J. E., and BIRCHFIELD, W. Resistance of the experimental cotton variety, Bayou, and related strains to root knot nematode and *Fusarium* wilt. Phytopathology 57(12):1327-1331. Ref. Dec.1967. 464.8 P56  
*Meloidogyne incognita* and *Fusarium oxysporum*.
- 70473 MINTON, N. A., FORBES, I., and WELLS, H. D. Susceptibility of potential forage legumes to *Meloidogyne* species. Plant Dis. Rep. 51(12):1001-1004. Ref. Dec.1967. 1.9 P69P
- 70474 NORTON, D. C., and ISELY, D. Cyst production of *Heterodera trifolii* on some Leguminosae. Plant Dis. Rep. 51(12):1017-1020. Ref. Dec.1967. 1.9 P69P
- 70475 PATEL, K. P. The bionomics of *Tylenchorhynchus martini*. Diss. Abstr., Sect. B, 28(6):2220B-2201B. Dec.1967. Z5055.U49D53  
In grain.
- 70476 PERRY, V. G., SMART, G. C., and MULLIN, R. S. The soybean cyst nematode, *Heterodera glycines*, found in Florida. Plant Dis. Rep. 51(12):1066. Dec.1967. 1.9 P69P
- 70477 SCHUSTER, M. L., and SANDSTEDT, R. Nematode [*Nacobus batatiformis*] on the loose: devastating to beet fields. Nebr. Univ. Coll. Agr. Home Econ. Quart. Serving Farm Ranch Home 11,i.e.14(2):12-13. Summer 1967. 100 N27N  
Sugar beets.

#### Nematodes - Horticultural Crops

- 70478 ARROLD, N. P., and BLAKE, C. D. Some effects of the nematodes *Ditylenchus myceliophagus* and *Apelenchoides composticola* on the yield of the cultivated mushroom. Ann. Appl. Biol. 61(1):161-166. Feb.1968. 442.8 An72



- 70479 CLARKE, A. J., and SHEPHERD, A. M. Hatching agents for the potato cyst-nematode, *Heterodera rostochiensis* Woll. Ann. Appl. Biol. 61(1):139-149. Ref. Feb.1968. 442.8 An72 444 compounds tested.
- 70480 DUCHARME, E. P. Annual population periodicity of *Radopholus similis* in Florida citrus groves. Plant Dis. Rep. 51(12):1031-1034. Dec.1967. 1.9 P69P
- 70481 ELLIS, P. R. Resistance to the potato cyst-nematode, *Heterodera rostochiensis*, in the plant genus *Lycopersicon*. Ann. Appl. Biol. 61(1):151-160. Ref. Feb.1968. 442.8 An72
- 70482 FASSULIOTIS, G. Species of *Cucumis* resistant to the root-knot nematode, *Meloidogyne incognita* acrita. Plant Dis. Rep. 51(9):720-723. Sept.1967. 1.9 P69P
- 70483 HEALD, C. M., and SELF, R. L. Control of root-knot nematodes [*Meloidogyne incognita*] on dwarf Japanese holly [*Ilex crenata*] and Japanese boxwood [*Buxus microphylla japonica*] with phosphorate nematocides. Plant Dis. Rep. 51(12):1035-1038. Dec.1967. 1.9 P69P
- 70484 KHAK, M. M. Influence of some agrotechnical factors upon the total number and formation of ecological groups of phytonematodes on potatoes. (Rus) Timiryazevskaya Sel'skokhoz. Akad. Izv. 6:147-152. Ref. 1967. 106 P44 English summary.  
Rotation of crops and fertilization.
- 70485 KHAK, M. M. The role of crop rotations in regulating population of phytonematodes on potatoes. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 131:247-249. Ref. 1967. 20 M857
- 70486 KHRISTOVA, E., and KOLEVA, N. Influence of biomyxin and extract from malefern [*Dryopteris filixmas*] on *Cyclamen* infected with root knot nematode [*Meloidogyne marioni corni*]. (Bu) Gradinarska Lozarska Nauk. 4(2):105-112. 1967. 87 G75 English summary.
- 70487 O'BANNON, J. H., and TAYLOR, A. L. Control of nematodes on citrus seedlings by chemical bare-root dip. Plant Dis. Rep. 51(12):995-998. Dec.1967. 1.9 P69P  
Control of *Radopholus similis* and *Tylenchulus semipenetrans* in Florida.
- 70488 TARJAN, A. C. Influence of temperature and hydrogen peroxide on the extraction of burrowing nematodes [*Radopholus similis*] from citrus roots. Plant Dis. Rep. 51(12):1024-1028. Dec.1967. 1.9 P69P
- 70489 TARJAN, A. C. Some plant nematode genera associated with citrus and other crops in Costa Rica and Panama. Turrialba 17(3):280-283, map. July/Sept.1967. 8 T86
- 70490 TEMP, M. W., and HAGEDORN, D. J. Plant-parasitic nematodes in soil samples from pea fields with *Aphanomyces* [euteiches] root rot potential. Plant Dis. Rep. 52(3):190-192. Mar. 1968. 1.9 P69P Wisconsin.
- 70491 SINGH, R. S., SINGH, B., and BENIWAL, S. P. S. Observations on the effect of sawdust on incidence of root knot and on yield of okra and tomatoes in nematode [*Meloidogyne javanica*]-infested soil. Plant Dis. Rep. 51(10):861-863. Ref. Oct.1967. 1.9 P69P India.
- 70492 SPEARS, J. F. The golden nematode, *Heterodera rostochiensis*, found in western New York. Plant Dis. Rep. 52(3):184. Mar.1968. 1.9 P69P  
On potatoes.
- 70493 STREU, H. T., and VASVARY, L. M. The nematocidal activity of some insecticides in turfgrass. N. J. Agr. Exp. Sta. Bull. 818:77-92. Ref. Jan.1968. 100 N46S  
*Poa pratensis* and *Festuca rubra*.
- 70495 FRIDLUND, P. R. The relationship of inoculum-receptor contact period to the rate of graft transmission of twelve *Prunus* viruses. Phytopathology 57(12):1296-1299. Dec.1967. 464.8 P56
- 70496 GOLDSTEIN, D. A. Some biological chemical and physical properties of Blue-Green Algal Virus LPP-1. Diss. Abstr., Sect. B, 28(3):797B-798B. Sept.1967. Z5055.U49D53
- 70497 LIPPERT, L. F., and others. New pepper varieties. Calif. Agr. 21(12):10. Dec.1967. 100 C12Cag  
P. G. Smith, B. J. Hall, A. H. Millett, and M. O. Hall, joint authors.  
Resistant to tobacco mosaic virus.
- 70498 KAHN, R. P., and others. Incidence of virus detection in vegetatively propagated plant introductions under quarantine in the United States, 1957-1967. Plant Dis. Rep. 51(9):715-719. Sept.1967. 1.9 P69P  
R. L. Monroe, W. B. Hewitt, A. C. Goheen, J. M. Wallace, C. N. Roistacher, E. M. Nauer, W. L. Ackerman, H. F. Winters, G. A. Seaton, and W. A. Pifer, joint authors.
- 70499 KOMURO, Y., and IWAKI, M. Bean yellow mosaic virus and tobacco ring spot virus isolated from *Crotalaria* (*Crotalaria spectabilis*). (Ja) Phytopathol. Soc. Jap. Ann. 34(1):7-15. Ref. Jan.1968. 464.9 P562 English summary.  
*Crotalaria spectabilis*, beans, and *Chenopodium amaranticolor* as hosts.
- 70500 MENON-NAYAR, R. Chromatographic purification of a single viral protein in sandal spike. Phytopathol. Z. 61(2):167-170. Feb.1968. 464.8 P562  
Disease of *Santalum album*.
- 70501 NAULT, L. R. Aphid feeding and plant virus diseases. Ohio Rep. Res. Develop. Biol. Agr. Home Econ. 53(2):24-25. Mar./Apr.1968. 100 Oh3S
- 70502 PAULSEN, A. Q. Host range, characteristics, and purification of plum line pattern virus. Diss. Abstr., Sect. B, 28(3):763B-764B. Sept.1967. Z5055.U49D53
- 70503 PINE, T. S., and SUTIC, D. Sarka (plum pox) disease in reference to virus diseases of *Prunus* in the United States. Plant Dis. Rep. 52(3):250-252. Ref. Mar.1968. 1.9 P69P
- 70504 RICHARDSON, H. P. Host reactions to three strains of aster yellows virus from Manitoba. Can. J. Bot. 45(5):657-664. Ref. May 1967. 470 C16C  
Tested with various host plants.
- 70505 VALENTA, V. Virus diseases of plants in the United Arab Republic. (Cz) Biologia [Bratislava] 22(7):551-558. 1967. 442.8 B5265
- 70506 VAN DUIN, J., and others. Interaction between plant viral RNA and *Escherichia coli* ribosomes. Biochim. Biophys. Acta 155(2):444-455. Ref. Feb.26,1968. 381 B522  
C. W. Pley, E. M. Bonnet-Smiths, and L. Bosch, joint authors.
- 70507 VERHOEF, N. J., KRAAL, B., and BOSCH, L. The binding of aminoacyl-tRNA to complex of *Escherichia coli* ribosomes and plant viral RNA. Biochim. Biophys. Acta 155(2):456-464. Ref. Feb.26,1968. 381 B522

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- 70494 AFANASIEV, M. M. Separation of Lambert mottle virus from *Prunus* ringspot virus in *Prunus serotina*. Plant Dis. Rep. 52(3):184-185. Mar.1968. 1.9 P69P Montana.

- 70508 BRAKKE, M. K., and RAO, A. S. Maintenance of soilborne wheat mosaic virus cultures by transfer through root washings. Plant Dis. Rep. 51(12):1005-1008. Dec.1967. 1.9 P69P  
*Polymyxa graminis* fungus, as vector, in Nebraska.
- 70509 CULP, T. W., and TROUTMAN, J. L. Reductions in yield and quality of peanuts, *Arachis hypogaea*, by stung virus. Plant Dis. Rep. 51(10):856-860. Oct.1967. 1.9 P69P Virginia.

- 70510 DOYLE, A. D. Control of tobacco mosaic virus in tobacco. *Agr. Gaz. New S. Wales* 79(2):90-94. Feb.1968. 23 N472
- 70511 ENGELBREKTSSON, I. Stunt shoot disease—a threat to oat growing in Varmland. (Sw) *Varmlands Lans Hushallningssalsk. Arsberat.* 1966:139-141. 1967. 11 V43  
A virus disease of oats transmitted by *Calligypona pellucida*.
- 70512 GAY, J. D. Specific infectivity of cowpea chlorotic mottle virus in different hosts. *Diss. Abstr., Sect. B*, 28(6):2218B. Dec.1967. Z5055.U49D53
- 70513 GIBBS, A. J., GIUSSANI-BELLI, G., and SMITH, H. G. Broad-bean stain and true broad-bean mosaic viruses. *Ann. Appl. Biol.* 61(1):99-107. Ref. Feb.1968. 442.8 An72  
Seed-borne.
- 70514 GILLASPIE, A. G. Maize dwarf mosaic virus recovered from commercial varieties of sugarcane. *Plant Dis. Rep.* 51(9):761-673. Sept. 1967. 1.9 P69P  
Louisiana.
- 70515 HINO, T., and YOSHII, H. Movement of tobacco mosaic virus within *Nicotiana glutinosa* plant grafted with tobacco. (Ja) *Phytopathol. Soc. Jap. Ann.* 34(1):61-68. Ref. Jan.1968. 464.9 P562  
English summary.
- 70516 INABA, T., and SAITO, Y. Soil-borne wheat mosaic virus from *Poa annua* L., a new host. (Ja) *Phytopathol. Soc. Jap. Ann.* 34(1):40-45. Jan.1968. 464.9 P562  
English summary.
- 70517 INOUE, T., INOUE, N., and MITSUHASHI, K. Yellow dwarf of pea and broadbean caused by milk vetch dwarf virus. (Ja) *Phytopathol. Soc. Jap. Ann.* 34(1):28-35. Ref. Jan.1968. 464.9 P562  
English summary.
- 70518 KENNEDY, B. W., and COOPER, R. L. Seed coat mottling in Minnesota soybeans. *Minn. Sci.* 23(4):31-32. July 1967. 100 M668  
Effects of virus infection, which is spread by insect feeding.
- 70519 MCNEAL, F. H., and CARROLL, T. W. Wheat streak mosaic in twelve varieties of spring wheat. *Plant Dis. Rep.* 52(3):201-203. Mar. 1968. 1.9 P69P  
Montana.
- 70520 MESSIEHA, M. Aphid transmission of maize dwarf mosaic virus. *Phytopathology* 57(9):956-959. Sept.1967. 464.8 P56
- 70521 MILICIC, D. Cell inclusion of Holmes' ribgrass virus, a relative of tobacco mosaic virus. (Ge) *Naturwissenschaften* 55(2):90-91. Feb.1968. 472 N213  
Isolated from *Plantago media*.
- 70522 NAULT, L. R., and others. Relation of the wheat curl mite to kernel red streak of corn. *Phytopathology* 57(9):986-989. Ref. Sept.1967. 464.8 P56  
M. L. Briones, L. E. Williams, and B. D. Barry, joint authors.
- 70523 PITRE, H. N. Reaction of a dent corn hybrid to the Mississippi isolate of corn stunt virus and to a mechanically transmissible mosaic virus isolate found on Johnson grass [*Sorghum halepense*]; notes on disease epidemiology. *Plant Dis. Rep.* 51(12):1044-1048. Ref. Dec. 1967. 1.9 P69P
- 70524 PRATT, M. J. Clover virus disease problem of West, but may spread. *Crops Soils* 20(6):25-26. Mar.1968. 6 W55  
Yellow mosaic virus.
- 70525 RAYCHAUDHURI, S. P., MISHRA, M. D., and GHOSH, A. Preliminary note on the occurrence and transmission of rice yellow dwarf virus in India. *Plant Dis. Rep.* 51(12):1040-1041. Ref. Dec.1967. 1.9 P69P
- 70526 RENTSCHLER, L. The amino acid sequence and physicochemical behavior of the coat protein of a wild strain of tobacco mosaic virus. I-II. (Ge) *Z. Vererbungslehre* 100(1):84-107. Ref. 1967. 442.8 Z34  
English summary.
- 70527 RIVERA, C. T., and OU, S. H. Transmission studies of the two strains of rice tungro virus. *Plant Dis. Rep.* 51(10):877-881. Ref. Oct.1967. 1.9 P69P
- 70529 \*RUBIN, B. A., BALNOKIN, YU. V., and LADYGINA, M. E. Structural changes in mitochondria of tobacco leaves with virus infection. *Soviet Plant Physiol.* 14(5):739-745. Ref. Sept./Oct.1967, pub.1968. 450 F58Ae  
Testing resistance mechanism to mosaic virus in tobacco and *Nicotiana glutinosa*.  
Translation from *Fiziologiya Rastenii*.
- 70529 SHEPARD, J. F., and CARROLL, T. W. Electron microscopy of wheat streak mosaic virus particles in infected plant cells. *J. Ultrastruct. Res.* 21(1/2):145-152. Ref. Nov.1967. 440.8 J822
- 70530 SUNDERLAND, D. W., and MERRETT, M. J. Respiration rate, adenosine diphosphate and triphosphate concentrations of leaves showing necrotic local lesions following infection by tobacco mosaic virus. *Physiol. Plant.* 20(2):368-372. 1967. 450 P564  
Tobacco.
- 70531 TOLER, R. W., HOBBS, C. D., and BOCKHOLT, A. J. Identification, transmission, and distribution of maize dwarf mosaic in Texas. *Plant Dis. Rep.* 51(9):777-781, map. Sept.1967. 1.9 P69P
- 70532 YOSHII, H. The term "hypersensitive reaction" is inadequate to explain the necrotic lesion formation of *Nicotiana glutinosa* infected with tobacco mosaic virus. (Ja) *Phytopathol. Soc. Jap. Ann.* 34(1):69-72. Ref. Jan.1968. 464.9 P562  
English summary.

## Virus Diseases - Horticultural Crops

- 70533 BAERECKE, M. L. Hypersensitivity to the S-virus of potato in a Bolivian *Andigena* clone. (Ge) *Zuchter. Genet. Breed. Res.* 37(6):281-286. Ref. Oct.24,1967. 442.8 Z8  
English summary.
- 70534 BITTERS, W. P. Valencia orange rootstock trial at South Coast Field Station. *Calif. Citrogr.* 53(5):163,172-174. Mar.1968. 80 C125  
Includes infection with tristeza.
- 70535 BLODGETT, E. C., and GOMEZ, B. Fig mosaic. *Plant Dis. Rep.* 51(10):893-896. Ref. Oct.1967. 1.9 P69P
- 70536 BOBRYSHV, F. I. Using chlorinated hydrocarbon insecticides against potato degenerative diseases. (Rus) *Khim. Sel'skom Khoz.* 5(8):19-23. Ref. Aug.1967. 385 K524  
Caused by viruses; controlled by benzene hexachloride, DDT and tetrachloronitrobenzene.
- 70537 CARPENTER, J. B., and FURR, J. R. Susceptibility of *Citrus macrophylla* to cachexia. *Calif. Citrogr.* 53(1):4. Nov.1967. 80 C125  
Used as rootstock for lemons.
- 70538 CLARK, R. L. Curly top on tomatoes and pumpkins in Iowa in 1967. *Plant Dis. Rep.* 51(12):1069. Ref. Dec.1967. 1.9 P69P
- 70539 DAVIS, R. M., and others. Sunken mottle of honey dew melons. *Calif. Agr.* 21(11):8-10. Nov.1967. 100 C12Cag  
G. E. May, A. R. Spurr, U. G. H. Meinert, G. N. Davis, and D. G. Hunt, joint authors.  
Identified as watermelon mosaic virus, type 2.
- 70540 DEMSKI, J. W. Studies on spread, possible herbaceous plant reservoirs, and serological relationships of some virus isolates from sour cherry (*Prunus cerasus* L.). *Diss. Abstr.*, Sect. B, 28(3):759B. Sept.1967. Z5055.U49D53
- 70541 DIENER, T. O., and RAYMER, W. B. Potato spindle tuber virus: a plant virus with properties of a free nucleic acid. *Science* 158(3799):378-381. Ref. Oct.20,1967. 470 Sci2
- 70542 DORST, H. J. M. VAN. No infection with cucumber virus 2 from seeds anymore! (Du) *Groenten Fruit* 23(13):564-565. Oct.4,1967. 80 G89  
Heat treatment of seeds.



- 70543 DURICA, A. Stolbur on potatoes. (Cz) Za Vy-  
sokou Urodu 15(2):74. Feb.10,1967. 64.8 Z12
- 70544 ENGELBRECHT, D. J. Studies on virus dis-  
eases of strawberries in the Western Cape  
Province. I. Degeneration of locally bred  
strawberry cultivars. S. Afr. J. Agr. Sci. 10  
(2):345-355. Ref. June 1967. 24 Su3
- 70545 FLEISHER, Z., BLODGETT, E. C., and  
PAPPO, S. A virus disease of peach in Israel.  
Plant Dis. Rep. 51(9):733-735. Sept.1967.  
1.9 P69P
- 70546 FLORES, E., and SILBERSCHMIDT, K. Contri-  
bution to the problem of insect [*Bemisia tabaci*]  
and mechanical transmission of infectious chlo-  
rosis of Malvaceae and the disease displayed by  
*Abutilon thompsonii*. Phytopathol. Z. 60(2):181-  
195. Ref. Oct.1967. 464.8 P562  
Virus disease in Brazil named *Abutilon* mo-  
saic virus.
- 70547 FRANCKI, R. I. B., and CROWLEY, N. C. In-  
vestigation of suspected grapevine viruses in  
South Australia. Australian J. Agr. Res. 18(3):  
461-466. Ref. May 1967. 23 Au783  
Yellow mosaic.
- 70548 GILMER, R. M. Apple chlorotic leaf spot and  
tobacco mosaic viruses in cherry. Plant Dis.  
Rep. 51(10):823-825. Oct.1967. 1.9 P69P  
New York.
- 70549 GORDEICHUK, A. I. Description of some vi-  
rus Y strains, spread on potatoes in different  
soil and climatic zones. (Rus) Timiryazev-  
skaya Sel'skokhoz. Akad. Izv. 6:141-146. Ref.  
1967. 106 P44  
English summary.
- 70550 GRIGGS, W. H., and others. Effects of different  
rootstocks, and degree of *Psylla* infestation on  
leaf curl in young pear trees. Calif. Agr. 21  
(10):16-20. Oct.1967. 100 C12Cag  
D. D. Jensen, B. T. Iwakiri, and J. A. Beutel,  
joint authors.  
Virus.
- 70551 HAGER, R. A. An investigation of X-disease  
of the cultivated mushroom *Agaricus bisporus*  
(Lange) Sing. Diss. Abstr., Sect. B, 28(3):  
759B. Sept.1967. Z5055.U49D53  
Possible virus-caused.
- 70552 HAVRANEK, P. Separation of the virus of to-  
bacco necrosis from field cucumbers. (Cz)  
Biologia [Bratislava] 22(6):431-437. Ref.  
1967. 442.8 B5265  
German summary.
- 70553 HORVATH, J. Separation and determination of  
viruses pathogenic to potatoes with special re-  
gard to potato virus Y. Acta Phytopathol. 2(4):  
319-360. 1967. SB731.A3  
Review of literature.
- 70554 KHATRI, H. L., and CHENULU, V. V. Studies  
on a mosaic disease of Phlox. Plant Dis. Rep.  
51(9):768-771. Ref. Sept.1967. 1.9 P69P
- 70555 KIMMINS, W. C. The effect of darkening on the  
susceptibility of french bean to tobacco necro-  
sis virus. Can. J. Bot. 45(5):543-553. Ref.  
May 1967. 470 C16C
- 70556 KIRKPATRICK, H. C., LINDNER, R. C., and  
CHENEY, P. W. A selective host range for  
certain mechanically transmitted stone fruit  
viruses. Plant Dis. Rep. 51(9):786-790. Ref.  
Sept.1967. 1.9 P69P  
Necrotic ringspot virus, prune dwarf virus,  
and plum line pattern virus, transmitted to  
herbaceous hosts and mahaleb cherry seed-  
lings in Washington.
- 70557 LAWSON, R. H. Seed development in tomatoes  
infected with tomato aspermy, aspermy-re-  
lated viruses from *Chrysanthemum*, and cu-  
cumber mosaic virus. Plant Dis. Rep. 51(9):  
723-725. Sept.1967. 1.9 P69P
- 70558 LAZAR, A. C., and FRIDLUND, P. R. The in-  
cidence of latent viruses in Washington peach  
orchards. Plant Dis. Rep. 51(12):1063-1065.  
Ref. Dec.1967. 1.9 P69P  
Prunus ringspot virus and sour cherry yel-  
lows virus.
- 70559 LAZAR, A. C., and FRIDLUND, P. R. Shiro  
plum; a rapid greenhouse indicator for the  
peach wart virus. Plant Dis. Rep. 51(10):831-  
833. Oct.1967. 1.9 P69P  
Washington.
- 70560 LEHOCZKY, J., and SAROSPATAKI, G.  
Phloem and bud transmission of chrome mo-  
saic and fanleaf viruses of grapevine. Acta  
Phytopathol. 2(4):309-318. Ref. 1967.  
SB731.A3
- 70561 LEON, C. DE. The physiology of cucumber  
mosaic virus-resistant and susceptible varie-  
ties of spinach. Diss. Abstr., Sect. B, 28(3):  
758B. Sept.1967. Z5055.U49D53
- 70562 MINK, G. I., HEBERT, T. T., and SILBERNA-  
GEL, M. J. A strain of peanut stunt virus  
isolated from beans in Washington. Phyto-  
pathology 57(12):1400. Dec.1967. 464.8 P56
- 70563 MUELLER, W. C. Tobacco mosaic virus ob-  
tained from diseases *Wisteria* [sinensis] and  
elder [*Sambucus canadensis*]. Plant Dis. Rep.  
51(12):1053-1054. Dec.1967. 1.9 P69P  
Rhode Island.
- 70564 PAULECHOVA-KRALIKOVA, K. Investigation  
on the harmfulness of the ring pattern mosaic  
of pear. Biologia 22(6):414-421. Ref. 1967.  
442.8 B5265  
Virus-diseases; effects on growth.
- 70565 PAULECHOVA-KRALIKOVA, K., and KEGLER,  
H. Investigations on the properties of a virus  
isolate from prune dwarf diseased plum trees.  
Biologia [Bratislava] 22(9):673-677. Ref.  
1967. 442.8 B5265  
Prunus domestica.
- 70566 SAKSENA, K. N. Purification, properties and  
serology of an apple latent virus. Diss. Abstr.  
Sect. B, 28(6):2221B-2222B. Dec.1967.  
Z5055.U49D53
- 70567 SINGH, R. P. Studies on potato spindle tuber  
virus. Diss. Abstr., Sect. B, 28(6):2222B. Dec.  
1967. Z5055.U49D53
- 70568 SONGIN, W. Observation on the seed tubers of  
potato affected with viruses and derived from  
different places on the plantation. (Pol) Stet-  
tin. Wyższa Szkoła Roln. Zeszyty Nauk. 25:97-  
100. 1966, pub.1967. 20.5 St4  
English summary.
- 70569 ŠUTIC, D., and PINE, T. S. Sarka (plum pox)  
disease. Plant Dis. Rep. 52(3):253-256. Ref.  
Mar.1968. 1.9 P69P  
Plums, apricots, and peaches.
- 70570 TELIZ, D., and others. Transmission of peach  
yellow bud mosaic virus to peach, apricot, and  
plum by *Xiphinema americanum*. Plant Dis.  
Rep. 51(10):841-843. Oct.1967. 1.9 P69P  
B. F. Lownsbery, R. G. Grogan, and K. A.  
Kimble, joint authors.  
California.
- 70571 WALLACE, J. M., and MARTINEZ, A. L. Cit-  
rus virus disease in Philippines. Calif. Citro-  
gr. 53(5):184,186,188-191. Mar.1968.  
80 C125
- 70572 WEATHERS, L. G., GREER, F. C., and HAR-  
JUNG, M. K. Transmission of *Exocortis* virus  
of citrus to herbaceous plants. Plant Dis. Rep.  
51(10):868-871. Oct.1967. 1.9 P69P  
California.
- 70573 WENZL, H. Further studies on the utilization  
of cell groups with low starch content as an in-  
dication of the infection of potato with virus Y.  
(Ge) Arch. Pflanzenschutz 3(1):3-9. 1967.  
464.8 Ar2  
English summary.

## Virus Diseases - Forest Trees

- 70574 KOCHMAN, J., and SIKORA, A. Experiments  
with a new virus disease of the pea tree (*Cara-  
gana arborescens* Lam.). Phytopathol. Z.  
61(2):147-156. Feb.1968. 464.8 P562  
Poland.

## Physiological Diseases

- 70575 BALLINGER, W. E., and GOLDSTON, E. F.  
Nutritional survey of Wolcott and Murphy blue-  
berries (*Vaccinium corymbosum* L.) in eastern  
North Carolina. N. C. Agr. Exp. Sta. Tech.  
Bull. 178,29 p. Ref. Oct.1967. 100 N81  
Nutritional deficiencies; includes soil fertility.

- 70576 BERGMAN, E. L. Magnesium deficiency findings described for vegetable crops. *Sci. Farmer* [Penn. Sta.] 15(2):4-5. Winter 1968. 100 P381S  
Beans.
- 70577 BILOUS, Z. P. The nature of physiological disturbances in tomatoes connected with drying of leaves and top rot of fruit. (Rus) *Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina. Dokl.* 1: 14-17. Ref. Jan. 1968. 20 Akl
- 70578 BROWN, A. L., and others. Greenhouse assays diagnose sugar beet problems in Delta soils. *Calif. Agr.* 22(2):4-5. Feb. 1968. 100 C12Cag  
F. J. Hills, B. A. Krantz, T. Lyons, and E. F. Nourse, joint authors.  
Potassium deficiency in soils results in disease.
- 70579 COMMONWEALTH BUR OF SOILS. Bibliography on lime-induced chlorosis (treatment excluded) with addendum on calcicoles and calcifuges (1967-1957). Commonwealth Bur. Soils [Annot. Bibliogr.] 1168, 21 p. 1967. 241 C734A
- 70580 FISHER, F. E. Stylar-end rot of limes reduced by organic spray materials. *Plant Dis. Rep.* 51(12):1071-1074. Ref. Dec. 1967. 1.9 P69P  
A disease considered to be of physiological origin, in Florida.
- 70581 FREMOND, Y., and GONCALVES, A. J. L. Mineral nutrition and nitrogen deficiency in the Mozambique coconut groves. (Fr) *Oleagineux* 22(10):601-606. Oct. 1967. 77.8 OL2  
English summary.
- 70582 HACSKAYLO, J., and VIMMERSTEDT, J. P. Appearance and chemical composition of eastern cottonwood [*Populus deltoides*] grown under nutrient deficient conditions. *Ohio. Agr. Res. Develop. Center. Res. Bull.* 1004, 19 p. Dec. 1967. 100 Oh3S
- 70583 HUTCHINSON, T. C. Lime-chlorosis as a factor in seedling establishment on calcareous soils. I. A comparative study of species from acidic and calcareous soils in their susceptibility to lime-chlorosis. *New Phytol.* 66(4): 697-705. Ref. Oct. 1967. 450 N42
- 70584 LABANAUSKAS, C. K., NAUER, E. M., and ROISTACHER, C. N. Initial soil-mix and post-planting liquid fertilization effects on nutrient concentrations in Valencia orange seedling leaves. *Hilgardia* 38(15):569-577. Ref. Nov. 1967. 100 C12H  
Chiefly nutritional deficiencies.
- 70585 LEBEDEVA, L. N., and YURCHENKO, L. A. Blacking of wheat husk. (Rus) *Zashch. Rast.* 8:47. 1967. 421 Z1  
Caused by drought.
- 70586 OHIRA, K., TSUTSUMI, M., and SATO, Y. Laboratory and greenhouse studies. In *Tohoku Daigaku. Nogaku-bu. Research on the effective use of upland soils in Japan, 1962-1965*, p. 33-47. 1967. S599.J3T62  
Nutritional deficiencies of lettuce, barley and alfalfa grown on volcanic ash soil.
- 70587 OUWERLING, H. An "unknown" disease of lettuce. (Du) *Groenten Fruit* 23(16):677. Oct. 25, 1967. 80 G89  
A physiological disease.
- 70588 PARRIS, G. K. "Needle curl" of loblolly pine [*Pinus taeda*]. *Plant Dis. Rep.* 51(10):805-806. Oct. 1967. 1.9 P69P  
Physiological disease in Mississippi.
- 70589 SCHALLER, C. C., DODGE, F. N., and KEN-KNIGHT, G. E. Increased occurrence of shuck disease of pecan (*Carya pecan*). *Plant Dis. Rep.* 52(3):189-190. Mar. 1968. 1.9 P69P  
Caused by physiological-nutritional imbalance in Louisiana.
- 70590 SPARR, M. C., JORDAN, C. W., and TURNER, J. R. Micronutrients—the "fertilizer shoe-nails." *Fert. Solution* 12(2):22, 24, 26, 28, 32. Mar./Apr. 1968. 57.8 So4  
In relation to boron deficiencies of field crops.
- 70591 TAJIMA, K. Studies on the nutrition of the rice plant with reference to the occurrence of the so-called "Akagare" disease. IX. Extraction from the soil leachate of the substance causing a symptom of leaf discoloration of rice plant. *Crop Sci. Soc. Japan. Proc.* 36(4):339-345. Ref. Dec. 1967. 22.5 C88
- Injuries
- 70592 BATH, V. H. The rabbit clearance society movement [Federation of Rabbit Clearance Societies]—a new look. *Great Brit. Min. Agr. Fish. Food. Agr.* 74(7):307-308. July 1967. 10 G79J  
Plant pest protection.
- 70593 BEER, J. R. The pocket gopher in Minnesota. *Minn. Sci.* 23(4):5. July 1967. 100 M668  
Cause of plant injuries.
- 70594 BLACKETT, G. A., and MARTIN, G. I. M. Grain losses in barley varieties, 1966. *Scot. Agr.* 46(4):189-191. Autumn 1967. 10 Sco82So  
Due to weather injuries.
- 70595 BREDAS, J., STESSELS, L., and GERARD, P. Chemical control of small rodents in young palm grove. (Fr) *Oleagineux* 23(1):15-17. Jan. 1968. 77.8 OL2
- 70596 BRENNAN, E., LEONE, I. A., and DIANES, R. H. Characterization of the plant damage problem by air pollutants in New Jersey. *Plant Dis. Rep.* 51(10):850-854, map. Ref. Oct. 1967. 1.9 P69P
- 70597 CHISHOLM, E. New act [Agricultural Pests Destruction Act of 1967] brings changes in rabbit boards [Pest Destruction Boards] and council [Agricultural Pest Destruction Council]. *New Zeal. J. Agr.* 116(2):26-27. Feb. 1968. 23 N48J  
Pests to plants.
- 70598 COYNE, D. P., and BURNSIDE, O. C. Differential plant injury and yield responses of tomato varieties to 2,4-D. *Nebr. Agr. Exp. Sta. Res. Bull.* 226, 21 p. Feb. 1968. 100 N27
- 70599 FEDER, W. A., CAMPBELL, F. J., and BUTTERFIELD, N. W. Tip burn, an oxidant incited response of carnations. *Plant Dis. Rep.* 51(9):793. Sept. 1967. 1.9 P69P  
Injury apparently caused by airborne toxicant.
- 70600 HAEBERLI, R., and SCHREIBER, K. F. Distribution of damage from late frost in the Canton of Vaud in spring 1967. (Fr) *Agr. Romande (ser. A)* 7(1):13-16, map. Jan. 1968. 17 Ag8  
Fruit and walnut trees.
- 70601 HALBWACHS, G., and HLAWATSCH, H. Photooxydation as origin of plant injuries caused by tar vapor. (Ge) *Naturwissenschaften* 55(2): 90. Feb. 1968. 472 N213
- 70602 HOGG, W. H. Frost. *Great Brit. Min. Agr. Fish. Food. Agr.* 74(10):459-461. Oct. 1967. 10 G79J  
Plant and livestock injuries.
- 70603 HRUSCHKA, H. W., SMITH, W. L., and BAKER, J. E. Chilling-injury syndrome in potato tubers. *Plant Dis. Rep.* 51(12):1014-1016. Ref. Dec. 1967. 1.9 P69P
- 70604 JONES, C. R. M. All must pull their weight in pest control. *New Zeal. J. Agr.* 114(6):61. June 1967. 23 N48J  
Control of rabbit damage to plants.
- 70605 JONES, G. M. Avoiding potato losses. *Great Brit. Min. Agr. Fish. Food. Agr.* 74(10):462-464. Oct. 1967. 10 G79J  
Controlling injuries at harvest and damage and disease during storage.
- 70606 LACASSE, N. L. New evidence on salt injury to maples. *Arborist's News* 32(8):59-62. Aug. 1967. 99.8 Ar14
- 70607 MCMASTER, L. C. A touch of the sun; results of a survey of sunburn in apples. *S. Australia J. Agr.* 71(5):150-151. Dec. 1967. 23 So84  
Includes preventive cultural measures.
- 70608 NOVLYANSKII, N. I. Wind propeller against rodents. (Rus) *Zashch. Rast.* 8:41. 1967. 421 Z1  
As garden pests.



- 70609 PARTYKA, R. E. Lightning damage can be distinguished from disease damage. *Crops Soils* 20(7):28-29. Apr./May 1968. 6 W55  
Chiefly effects on vegetables.
- 70610 PETERSON, H. B., and MONK, R. Vegetation and metal toxicity in relation to mine and mill wastes, an annotated bibliography useful in evaluating available literature. *Utah. Agr. Exp. Sta. Circ.* 148, 75 p. Sept. 1967. 100 U1  
Effects of toxic minerals on plant growth and strip mining reclamation.
- 70611 SMITH, R. W. A new method of rat control in coconuts. *Trop. Agr. [St. Augustine]* 44 (4):315-324. Ref. Oct. 1967. 26 T754  
Use of poison-baited rat blocks in Jamaica.
- 70612 SUCOFF, E., RATSCH, H., and HOOK, D. D. Early development of wound-initiated discoloration in *Populus tremuloides* Michx. *Can. J. Bot.* 45(5):649-656. Ref. May 1967. 470 C16C
- 70613 VOLOSHIN, G. A., and KRAVCHUK, M. T. Using toxaphene against rodents. (Rus) *Zashch. Rast.* 1:23. 1968. 421 Z1  
As pests of agricultural plants.
- 70614 YAMAMOTO, R. Wind injury and its counter-measures. (Ja) *Soc. Agr. Meteorol. Jap. J. Agr. Meteorol.* 23(1):33-35. Ref. July 1967. 340.9 S01  
Plants.
- 70615 YELENOSKY, G., and HEARN, C. J. Cold damage to young mandarin-hybrid trees on different rootstocks in flatwood soil. *Citrus Indus.* 49 (3):14-16. Mar. 1968. 80 C49
- 70616 ZAULIN, B. S., and others. Continuation of campaign against squirrels. (Rus) *Zashch. Rast.* 1:12-15. 1968. 421 Z1  
O. A. Ivanov, T. S. Vorevodin, V. P. Boiko, S. S. Sotnikov, L. A. Ryzhov, and V. G. Endakov, joint authors.
- 70617 ZOLOTOV, YU. F. Controlling water mice. (Rus) *Zashch. Rast.* 1:21-22. 1968. 421 Z1  
As pests of agricultural plants.

## SYSTEMATIC AND GEOGRAPHIC BOTANY

- 70618 ARTYUSHENKO, O. T. Results of studies on history of vegetation in Ukraine of the Quaternary period. (Ukr) *Ukr. Bot. Zh.* 24(5):93-102. Sept./Oct. 1967. 450 J8212J
- 70619 BILYK, H. I. Results of studying vegetation of Ukrainian SSR during 50 years. (Ukr) *Ukr. Bot. Zh.* 24(5):20-28. Sept./Oct. 1967. 450 J8212J
- 70620 BOVIN, B. A handbook to the flora of the provinces of Manitoba, Saskatchewan and Alberta. *Phytologia* 16(1):1-47. Jan. 1968. 450 P563
- 70621 HOEG, H. I. Vascular plants from West Spitsbergen. (No) *Norsk Polarinst. Arbok* 1966:120-124, map. 1968. 502 N812
- 70622 KIMBALL, M. H., and GILBERT, D. E. Plant-climate mapping: the key to conservation of resources. In Shaw, R. H. ed. *Ground level climatology*, p. 67-92, map. Ref. 1967. QC981.S5
- 70623 KOTOV, M. I., and KHARKEVYCH, S. S. Advances in the study of flora, plant resources and systematics of higher plants in the Ukraine. (Ukr) *Ukr. Bot. Zh.* 24(5):6-19. Sept./Oct. 1967. 450 J8212J
- 70624 OOSTSTROOM, S. J. VAN, and MENNEMA, J. De Gortert's Flora Belgica is two hundred years old. (Du) *Gorteria* 3(13):201-203. Nov. 1, 1967. 450 G68  
English summary.
- 70625 SCHANTZ, M. V. The significance of gas chromatography in the chemotaxonomy of terpenes containing plants. (Ge) *Umschau* 68(1):25. Jan. 1, 1968. 474 Um7
- 70626 SCHOU, A. Estuarine research in the Danish moraine archipelago. *Conf. Estuaries. Papers* 1964:129-145, map. 1967. QH91.A3C6 1964  
Includes vegetation.
- 70627 WENDELBO, P. Trekk av Afghanistans plantegeografi [Traits of Afghanistan's plant geography]. *Bot. Gothoburgensia* 5, 20 p., map. Ref. 1966. OK1.B6

## Spermatophytes

- 70628 AGNEW, A. D. Q. Contributions to the flora of Iraq. IV. Notes on the Geraniaceae of Iraq, with a new species of *Pelargonium*. *Kew. Roy. Bot. Gard. Kew Bull.* 21(2):225-227. 1967. 451 K51B  
*Pelargonium quercetorum* n. sp.
- 70629 AHLUWALIA, K. S. A new species of *Tephrosia* Pers. (Leguminosae) from India. *Kew. Roy. Bot. Gard. Kew Bull.* 21(2):311-313. 1967. 451 K51B  
*Tephrosia axillaris*.
- 70630 AKHUNDOV, G. F. A contribution to the knowledge of the flora of the islands in the vicinity of the western Caspian Sea coast. (Rus) *Bot. Zhur. [Moscow]* 52(9):1245-1260. Ref. Sept. 1967. 451 R923  
English summary.  
Spermatophyta.
- 70631 BAJIC, D., and MISIC, L. A contribution to the study of geographic distribution of subterranean clover, its ecology and division into the lower systematic units in Yugoslavia. (Se) *Sarajevo. Univ. Poljoprivredno-Sum. Fak. Rad.* 16 (18):177-184. Ref. 1967. 21.5 Sa7  
German summary.
- 70632 BALLY, P. R. O. Miscellaneous notes on the flora of Tropical East Africa including description of new taxa. 34. (Fr) *Candollea* 22(1):39-45. 1967. 451 C16  
*Euphorbia hadramautica* and its synonymy with *E. napoides*.
- 70633 BASSETT, I. J. Taxonomy of *Plantago* L. in North America: sections *Holopsyllium* Pilger, *Palaeopsyllium* Pilger, and *Lamprosantha* Decne. *Can. J. Bot.* 45(5):565-577, map. Ref. May 1967. 470 C16C
- 70634 BENCAT, F. Seventy five years of the arboretum Mlynani. (Cz) *Biologia [Bratislava]* 22 (4):310-313. 1967. 442.8 B5265
- 70635 BERGLUND-BRUCHER, O. Finding wild beans in South America. (Ge) *Naturwissenschaften* 54(17):466-468, map. Sept. 1, 1967. 474 N213  
*Phaseolus aborigineus*, Venezuela.
- 70636 BLATTNY, C. Are wild grapes (*Vitis vinifera* sylvestris) growing in Czechoslovakia? (Cz) *Ziva* 16(5):169. Sept. 1967. 409.6 Z6
- 70637 BOTTLIKOVA, H. *Amaranthus blitoides* s. Watson in the Zahorska nizina. (Cz) *Biologia [Bratislava]* 22(5):389-390, map. 1967. 442.8 B5265
- 70638 BOWDEN, W. M. Taxonomy of intergeneric hybrids of the tribe Triticeae from North America. *Can. J. Bot.* 45(5):711-724. Ref. May 1967. 470 C16C
- 70639 BRENNAN, J. P. M., and others. Tropical African plants. XXVIII. *Kew. Roy. Bot. Gard. Kew Bull.* 21(2):241-262. 1967. 451 K51B  
B. Verdcourt, R. K. Brummitt, C. E. B. Bremekamp, G. LL. Lucas, D. R. Hunt, and J. B. Gillett, joint authors.  
Includes n. spp., *Oldenlandia manyoniensis*, *Phyllanthus caespitosus* and *P. ceratostemon*.
- 70640 BULLOCK, A. A. Nomenclatural notes. XVII. *Vincetoxicum* again. *Kew. Roy. Bot. Gard. Kew Bull.* 21(2):351-352. 1967. 451 K51B
- 70641 BURK, L. G. Preservation of a *Nicotiana* species collection. *Tobacco [New York]* 165 (11):29. Sept. 15, 1967. 286.89 T552
- 70642 DE WET, J. M. J., and HUCKABAY, J. P. The origin of *Sorghum bicolor*. II. Distribution and domestication. *Evolution* 21(4):787-802, map. Ref. Dec. 1967. 443.8 Ev62
- 70643 DIJKSTRA, S. J. *Dactylorchis traunsteineri*, the small leaved orchid. (Du) *Natuurhist. Genoot. Limburg. Natuurhist. Maandbl.* 57(1):9-13. Jan. 28, 1968. 409.6 N2123N  
Found in the Netherlands.
- 70644 DUNN, R. A. A revision of the genus *Centaureum* of continental United States. *Diss. Abstr.*, Sect. B, 28(6):2280B-2281B. Dec. 1967. Z5055.U49D53

- 70645 EDWIN, G. Preliminary notes on the Scrophulariaceae of Peru. *Fieldiana. Bot.* 31(8/10): 225-231. Apr.24,1967. 500 C432B  
Includes n. spp. in Alonsoa.
- 70646 FOGG, J. M. A list of Bartram trees and shrubs. *Morris Arboretum Bull.* 18(4):75-81. Ref. Dec.1967. 451 P383  
Bartram J A list of trees and shrubs gathered in Pennsylvania, East and West Jersey.
- 70647 FORMAN, L. L., and CUTLER, D. F. Additional notes on *Trigonobalanus* Forman (Fagaceae). I-II. *Kew. Roy. Bot. Gard. Kew Bull.* 21(2):331-334. 1967. 451 K51B  
I, *Trigonobalanus* in Malaya and Sarawak, by L. L. Forman; II, Further notes on the anatomy of the vegetative organs, by D. F. Cutler.
- 70648 GRANT, W. F., and SIDHU, B. S. Basic chromosome number, cyanogenetic glucoside variation, and geographic distribution of *Lotus* species. *Can. J. Bot.* 45(5):639-647. Ref. May 1967. 470 C16C
- 70649 GROSSET, H. E. Ways and time of migration of Crimea-Caucasian forest species on the territory of the Russian plain and subsequent changes of ranges associated with landscape evolution. (Rus) *Moskov. Obshch. Ispytatelei Prirody. Byul. Otd. Biol.* 72(5):47-76, map. Ref. Sept./Oct.1967. 511 M85  
-English summary.
- 70650 HEPPER, F. N. *Culcasia scandens* P. Beauv. (Araceae) and allied species in west Africa. *Kew. Roy. Bot. Gard. Kew Bull.* 21(2):315-326. 1967. 451 K51B  
Includes *Culcasia glandulosa* n. sp.
- 70651 HESS, W. J. A taxonomic study of the subgenus *Pterogonum* in the genus *Eriogonum* (Polygonaceae). *Diss. Abstr., Sect. B*, 28(3): 801B. Sept.1967. Z5055.U49D53
- 70652 HISAUCHI, K. The drawing of *Uncaria rhynchophylla* Miq. in the Kai (Kwa-wi). (Ja) *J. Jap. Bot.* 42(7):18. July 1967. 450 J8223
- 70653 ISSAR, R. K., and UNİYAL, M. R. Orchids of Utrakkhand Himalayas. *Indian Forest.* 93(10): 713-716. Oct.1967. 99.8 In2
- 70654 JOHNSON, A. G., and PAULEY, S. S. Rare native trees of Minnesota. *Minn. Sci.* 23(4):27-31, map. July 1967. 100 M668
- 70655 JUSSI, F. A meeting with *Rhinanthus*. (Es) *Eesti Loodus* 1:17. Jan.1968. 409.6 Ee7
- 70656 KITAGAWA, M. Review on the relatives of *Roegneria ciliaris* (Trinius) Nevski. *J. Jap. Bot.* 42(7):27-31. July 1967. 450 J8223
- 70657 KOZHEVNIKOVA, S. K. Some plant species of the south coast of Crimea, that have run wild. (Rus) *Bot. Zhur. [Moscow]* 52(9):1346-1350. Sept.1967. 451 R923  
Spermatophyta.
- 70658 LONG, R. W. Origin of the "dwarf *Ruellia humilis*" (Acanthaceae) populations in central Florida. *Torrey Bot. Club Bull.* 95(1):16-27. Ref. Jan./Feb.1968. 451 T63B
- 70659 MADAHAR, C. Mediterranean and Asian Taxa of *Anemone* (section *Eriocephalus*) with tuberous rootstocks. *Can. J. Bot.* 45(5):725-735. Ref. May 1967. 470 C16C
- 70660 MAGUIRE, B., and others. The botany of the Guayana Highland. VII. N. Y. Bot. Gard. Mem. 17(1), 439 p. Dec.22,1967. 451 N48  
D. B. Lellinger, T. Koyama, B. Maguire, E. Jablonski, A. Robyns, P. Taylor, C. Epling, C. Jativa, and J. A. Steyermark, joint authors. Spermatophyta and Pteridophyta; includes n. spp. in *Pterozonium*, *Calyptrocarya*, *Mpania*, *Hypolytrum*, *Abolboda*, *Discocarpus*, *Phyllanthus*, *Drypetes*, *Piranhea*, *Plukenetia*, *Mabea*, *Sapium*, *Bombacopsis*, *Pseudobombax*, *Rhodognaphalopsis*, *Genlisea*, *Utricularia*, *Hyptis*, *Remijia*, *Rondeletia*, *Arachnothrix*, *Sipanea*, *Iseritia*, *Coccocypselum*, *Sabicea*, *Bertiera*, *Posoqueria*, *Chomelia*, *Ixora*, *Appunia*, *Coussarea*, *Faramea*, *Rudgea*, *Cephaelis*, *Psychotria*, and *Sipaneopsis* n. g., and *Guaiaca* n. g.
- 70661 MOORE, R. J., and FRANKTON, C. Cytotaxonomy of foliose thistles (*Cirsium* spp. aff. *C. foliosum*) of western North America. *Can. J. Bot.* 45(9):1733-1749, map. Ref. Sept.1967. 470 C16C  
Includes n. spp.
- 70662 MURRAY, D. F. Taxonomy of the southern Rocky Mountain *Atratae*, genus *Carex*, with comments on some related species in North America. *Diss. Abstr., Sect. B*, 28(3):802B. Sept.1967. Z5055.U49D53
- 70663 PACKER, J. G. A note on the taxonomy of *Arc-tostaphylos uva-ursi*. *Can. J. Bot.* 45(9):1767-1769. Sept.1967. 470 C16C
- 70664 PROCHAZKA, F. *Cirsium X tappeineri* (Rchb. fil.) *Treuinfels amplif.* Hayek nm. *tatrense* nm. nova in Czechoslovakia. (Cz) *Biologia [Bratislava]* 22(10):782-790. Ref. 1967. 442.8 B5265  
German summary.  
A hybrid between *Cirsium erisithales* and *C. heterophyllum*.
- 70665 REITALU, M. Native rowan-trees. (Es) *Eesti Loodus* 1:33-35. Jan.1968. 409.6 Ee7  
English summary, p.2 of supplement.  
*Sorbus aucuparia*, *S. scandica* and *S. aria*.
- 70666 RESNER, V. *Gentiana kochiana*. (Cz) *Ziva* 15 (5):178. Sept.1967. 409.6 Z6
- 70667 SHAW, H. K. A. Notes on the genus *Bischofia* Bl. (Bischofiaceae). *Kew. Roy. Bot. Gard. Kew Bull.* 21(2):327-329. 1967. 451 K51B  
Southeast Asia.
- 70668 SMITH, A. R. *Riocreuxia* Decne.; and *asclepiadaceous* genus new to Nepal. *Kew. Roy. Bot. Gard. Kew Bull.* 21(2):295-298. 1967. 451 K51B  
Includes *Riocreuxia nepalensis* n. sp.
- 70669 SOO, R. The varieties and forms of *Dactylorchis* in the flora of Rumania. (Ge) *Rev. Roum. Biol. Ser. Bot.* 12(2/3):225-231. 1967. QK1.R4
- 70670 STROTHER, J. L. Systematics of *Dyssodia* (Compositae: Tageteae). *Diss. Abstr., Sect. B*, 28(6):2287B. Dec.1967. Z5055.U49D53
- 70671 TALBOT DE MALAHIDE, LORD, and BRICKELL, Fremontias. *Roy. Hort. Soc. J.* 92 (11):485-488. Nov.1967. 84 L84J  
*Fremontia californica* and *F. mexicana*.
- 70672 TELLES DE VASCONCELLOS, M. Classification of the genera *Citrus*, *Poncirus*, and *Fortunella*, of the Rutaceae family. (Sp) *Agricultura [Santo Domingo]* 442/443:7-10, 22. July/Aug. 1967. 8 R323
- 70673 TUYAMA, T. Notes on *Gastrodia* of Japan. 4. On *Gastrodia confusa* Honda et Tuyama. *J. Jap. Bot.* 42(8):230-236. Aug.1967. 450 J8223
- 70674 VAN HAVERBEKE, D. F. Taxonomic interrelationships between *Juniperus scopulorum* Sarg. and *J. virginiana* L. in the Missouri River Basin. *Diss. Abstr., Sect. B*, 28(6):2289B-2290B. Dec.1967. Z5055.U49D53
- 70675 VARGHESE, T. M. Studies in Scrophulariaceae. IV. Floral anatomy of *Calceolaria pinnata* L. with a suggestion on the systematic position of the genus. *Elisha Mitchell Sci. Soc. J.* 83(4):189-191. Ref. Winter 1967. 500 EL4
- 70676 VON RUDLOFF, E. Chemosystematic studies in the genus *Picea* (Pinaceae). II. The leaf oil of *Picea glauca* and *P. mariana*. *Can. J. Bot.* 45(9):1703-1715. Ref. Sept.1967. 470 C16C  
Leaf oil terpenes.
- 70677 WALRAVEN, W. C. Taxonomy of the genus *Rhynchosia* (Leguminosae) of the United States. *Diss. Abstr., Sect. B*, 28(6):2290B. Dec.1967. Z5055.U49D53
- 70678 WHITEHEAD, F. H., and SINHA, R. P. Taxonomy and taximetrics of *Stellaria media* (L.) Vill., *S. neglecta* Weihe and *S. pallida* (Dumort.) Pire. *New Phytol.* 66(4):769-784. Ref. Oct. 1967. 450 N42  
Morphological approach to taxonomy.
- 70679 YATES, W. F. Taxonomic studies in the genus *Heliomeris* (Compositae). *Diss. Abstr., Sect. B*, 28(6):2291B. Dec.1967. Z5055.U49D53
- 70680 ZAHRADNIKOVA, K. A contribution to the distribution of *Galium silvaticum* and *Galium schultesii* Vest. (Cz) *Biologia [Bratislava]* 22 (2):132-142, map. Ref. 1967. 442.8 B5265  
German summary.
- 70681 ZUBRYN, E. Mexican cacti in trouble. *Sci. News Lett.* 92(12):280-281. Sept.16,1967. 470 Sci24



Pteridophytes

70682 RESNER, V. The distribution of *Woodsia alpina* Bolton S.F. Gray in High Tatra mountains. (Cz) *Biologia [Bratislava]* 22(5):391-392. 1967. 442.8 B5265

Bryophytes

70683 BACHURYNA, H. F. Development of bryological investigations in Ukraine. (Uk) *Ukr. Bot. Zh.* 24(5):65-73,map. Sept./Oct.1967. 450 J8212J

70684 BOWERS, M. C. A cytotaxonomic study of the genus *Mnium* in Colorado. Diss. Abstr., Sect. B, 28(3):800B. Sept.1967. Z5055.U49D53

70685 LINDSAY, R. M. A biometrical analysis of moss stomate morphology related to phylogeny, taxonomy and ecology. Diss. Abstr., Sect. B, 28(6):2285B. Dec.1967. Z5055.U49D53

70686 SCHUSTER, R. M. North American *Lejeuneaceae*. X. *Harpalejeunea*, *Drepanolejeunea*, and *Leptolejeunea*. *Elisha Mitchell Sci. Soc. J.* 83(4):192-229. Winter 1967. 500 EL4

Includes n. spp. in *Drepanolejeunea*, and *Acantholejeunea* n. g.

Algae

70687 BONEY, A. D., and WHITE, E. B. Observations on *Kylinia rosulata* from S.W. England. *Mar. Biol. ASS. UK. J.* 47(3):591-596. Ref. 1967. 442.9 M331

Taxonomy.

70688 GERLOFF, J. *Pseudobodanella peterfii*, n. g., n. sp., a new Phaeophyceae of the fresh water. (Ge) *Rev. Roum. Biol. Ser. Bot.* 12(1):27-35. Ref. 1967. QK1.R4

70689 KORNEK, V. Primary production of plankton in ponds in the vicinity of Blatna. *Arch. Hydrobiol.* 63(4):520-532. Ref. Sept.1967. 410 Ar28

Includes phytoplankton

70690 MARSHALL, H. G. Plankton in James River estuary, Virginia. II. Phytoplankton in the Elizabeth river. *Va. J. Sci. (n.s.)*18(3):105-109. July 1967. 470 V81

70691 MASYUK, N. P. Results of algological investigations in Ukraine. (Uk) *Ukr. Bot. Zh.* 24(5):55-64,map. Sept./Oct.1967. 450 J8212J

History.

70692 MCLACHLAN, J., and PARKE, M. *Platymonas impellucida* sp.nov. from Puerto Rico. *Mar. Biol. ASS. UK. J.* 47(3):723-733. Ref. 1967. 442.9 M331

Prasinophyceae.

70693 NORRIS, R. W., and WEST, J. A. Notes on marine algae of Washington and southern British Columbia. II. *Madrono* 19(4):111-116. Ref. Oct.1967. 450 M26

OTT, F. D. *Porphyridium sordidum* Geitler in America, with comments on the distribution of other North American freshwater Rhodophytes. *Va. J. Sci. (n.s.)*18(3):110-113. Ref. July 1967. 470 V81

Fungi (Including Lichens)

70695 ANDERSON, J. S., FENNELL, D. K., and RAPER, K. B. *Dictyostelium deminutivum*, a new cellular slime mold. *Mycologia* 60(1):49-64. Ref. Jan./Feb.1968. 450 M99

70696 ASAHINA, Y. *Usnea longissima* Ach. and its chemical ingredients. *J. Jap. Bot.* 42(10):289-294. Oct.1967. 450 J8223

70697 BAKER, G. E. Fungi from the Central Pacific Region. *Mycologia* 60(1):196-201. Ref. Jan./Feb.1968. 450 M99

70698 BENJAMIN, C. R. The changing face of mycology. *Mycologia* 60(1):1-8. Jan./Feb.1968. 450 M99

Chiefly on research organizations in the United States.

70699 BRODIE, E. J. *Cyathus africanus*, a previously undescribed bird's nest fungus. *Can. J. Bot.* 45(9):1653-1655. Sept.1967. 470 C16C

70700 CERNY, A. *Phellinus pilatii* n. sp., a harmful fungus parasitizing on *Populus alba* L. and *Populus canescens* Smith. (Cz) *Ceska Mykol.* 22(1):1-13. Ref. Jan.1968. 450 C333

70701 COOKE, R. C. *Monacrosporium globosporum* sp.nov. and other network-forming nematode-trapping species. *Brit. Mycol. Soc. Trans.* 50(4):515-518. Dec.1967. 451 B76

70702 ERIKSSON, O. On graminicolous *Pyrenomyces* from Fennoscandia. I-III. *Arkiv Bot.* (ser.2)6(4/5):339-466. Ref. 1967. 451 Sv2

Includes *Paraphaeosphaeria* n. g., *Clathrospora tirolensis* n. sp., *C. verruculosa* n. sp., and *Anthostomella arenaria*, n. sp.

70703 GRUND, D. W., and HARRISON, K. A. Nova Scotian fungi, *Geoglossaceae*. *Can. J. Bot.* 45(9):1625-1641. Sept.1967. 470 C16C

Includes *Microglossum olivaceisquamulosum* n. sp.

70704 HATTORI, T. On the maps of distribution of fungi in a field. (Ja) *Tohoku Univ. Inst. Agr. Res. Bull.* 19(1):83-99,map. Oct.1967. 107.6 T577

English summary.

70705 HIRST, J. M., STEDMAN, O. J., and HOGG, W. H. Long-distance spore transport: methods of measurement, vertical spore profiles and the detection of immigrant spores. *J. Gen. Microbiol.* 48(3):329-355. Ref. Sept.1967. 448.3 J823

*Puccinia graminis*.

70706 HIRST, J. M., STEDMAN, O. J., and HURST, G. W. Long-distance spore transport: vertical sections of spore clouds over the sea. *J. Gen. Microbiol.* 48(3):357-377,map. Sept.1967. 448.3 J823

*Cladosporium*.

70707 ING, B. *Myxomycetes* from Sierra Leone. *Brit. Mycol. Soc. Trans.* 50(4):549-553. Dec. 1967. 451 B76

70708 ING, B. Notes on *Myxomycetes*. II. *Brit. Mycol. Soc. Trans.* 50(4):555-562. Dec.1967. 451 B76

Includes n. spp. in *Stemonitis*.

70709 JOHNSON, T. W. The estuarine mycoflora. *Conf. Estuaries, Papers* 1964:303-305. 1967. QH91.A3C6 1964

Distribution.

70710 KOTLABA, F. *Phellinus pouzarii* sp. nov. *Ceska Mykol.* 22(1):24-31. Jan.1968. 450 C333

Text in English.

70711 LUNDQVIST, N. On spore ornamentation in the *Sordariaceae*, exemplified by the new cleistocarpous genus *Copromyces*. *Arkiv Bot.* (ser.2)6(4/5):327-337. Ref. 1967. 451 Sv2

Includes *Copromyces bisporus* n. g., n. sp.

70712 MANIOTIS, J., and STRAIN, J. W. *Wiesneriomyces javanicus* from Panamanian soil. *Mycologia* 60(1):203-208. Jan./Feb.1968. 450 M99

70713 MILANEZ, A. I. A study of the aquatic "Phycomycetes" of the Gull Lake area in Michigan. Diss. Abstr., Sect. B, 28(6):2285B-2286B. Dec. 1967. Z5055.U49D53

70714 MILLER, O. K. A revision of the genus *Xeromphalina*. *Mycologia* 60(1):156-188. Jan./Feb.1968. 450 M99

Includes *X. brunneola* n. sp.

70715 MORAVEC, J. A contribution to the study of operculate *Discomycetes* of the genus *Cheilymenia* Boud. (Cz) *Ceska Mykol.* 22(1):32-41. Ref. Jan.1968. 450 C333

English summary.

Includes n. spp. in *Cheilymenia* and *Scutellinia*.

70716 ORR, D. B. Puffballs and related fungi. *Pacific Discovery* 21(1):10-15. Jan./Feb.1968. 500 P112

*Gasteromycetes*.

70717 PAPENDORF, M. C. *Leptodiscus africanus* sp.nov. *Brit. Mycol. Soc. Trans.* 50(4):687-690. Dec.1967. 451 B76

70718 PAPENDORF, M. C. New species of *Comatricha* and *Paradiachea*. *Brit. Mycol. Soc. Trans.* 50(4):685-690. Dec.1967. 451 B76

*Comatricha reticulospora* and *Paradiachea anglica*.

- 70719 PETERSEN, R. H. Evidence on the interrelationships of the families of clavarioid fungi. Brit. Mycol. Soc. Trans. 50(4):641-648. Ref. Dec.1967. 451 B76
- 70720 PILAT, A., and SVRCEK, M. *Verpa bohemica* var. *pallida* Pil. et Svr. var. nov. Ceska Mykol. 22(1):42. Jan.1968. 450 C333
- 70721 POUZAR, Z. Notes on some of our species of the genus *Lactarius*. II. Ceska Mykol. 22(1):20-23. Jan.1968. 450 C333  
Includes *Lactarius citriolens* n. sp.
- 70722 REID, J., and BOOTH, C. The *Diaporthaceae*. I. *Ditopellopsis* gen. nov., *Ditopellina* gen. nov., *Phragmoportha* and *Ditopella*. Can. J. Bot. 45(9):1479-1487. Ref. Sept.1967. 470 C16C
- 70723 RIETH, A. Contributions to the knowledge of the algal parasites, the *Phycomycetes*. V. A gall causing *Chytridiales*: *Zygorhizidium vaucheria* nov. spec. (Ge) Biol. Zentralbl. 86(4):435-448. July/Aug.1967. 442.8 B523  
English summary.  
Parasitic on *Vaucheria debaryana* and *V. woroniniana*.
- 70724 SCHAEFER, Z. Little known, rare and new species of *Lactarius*. (Cz) Ceska Mykol. 22(1):14-19. Ref. Jan.1968. 450 C333  
Latin summary.  
Includes *Lactarius pilatii* n. sp.
- 70725 SCHIPPER, M. A. A. On *Mucor fuscus* and its synonyms. Antonie van Leeuwenhoek J. Microbiol. Serol. 33(4):473-476. Ref. 1967. 448.8 N28A
- 70726 SMERLIS, E. *Rhizocalyx abietis* Petrak, the perfect state of *Rhizothyrium abietis* Naumoff. Can. J. Bot. 45(9):1715-1717. Sept.1967. 470 C16C
- 70727 SORENSON, W. G. Notes on *Brevilegnia gracilis* and *Brevilegnia macrospora*. Mycologia 60(1):193-196. Jan./Feb.1968. 450 M99  
Chiefly taxonomy.
- 70728 SUTTON, B. C. *Polynema*, an earlier name for *Neobarclaya*. Mycologia 60(1):201-203. Jan./Feb.1968. 450 M99
- 70729 UBRIZSY, G. Review of the mycoflora of Hungary. III. Acta Phytopathol. 2(4):389-411. 1967. SB371.A3
- 70730 WHISLER, H. C. Experimental studies with a new species of *Stigmatomyces* (*Laboulbeniales*). Mycologia 60(1):65-75. Ref. Jan./Feb.1968. 450 M99  
*Stigmatomyces ceratophorus* n. sp., parasite of *Fannia canicularis*.
- 70731 ZEROVA, M. YA. Study of fungi flora in Ukraine. (Uk) Ukr. Bot. Zh. 24(5):87-92. Sept./Oct.1967. 450 J8212J  
History.

## WEEDS AND POISONOUS PLANTS

- 70732 HAWKSWORTH, F. G. Distribution of *ponderosa* pine dwarf mistletoe [*Arceuthobium*] on the south rim of Grand Canyon, Arizona. Plant Dis. Rep. 51(12):1049-1051, map. Dec.1967. 1.9 P69P
- 70733 KOLESSAR, M. A. Aquatic plants in Maryland—a growing menace. Amer. Soc. Civil Eng. J. 93(WW3, proc. paper 5364):1-7. Aug. 1967. 290.9 Am3Ps
- 70734 MULLIGAN, G. A., and FRANKTON, C. Present status of tall wormseed mustard, *Erysimum hieraciifolium*, in Canada. Can. J. Bot. 45(5):755-756. Ref. May 1967. 470 C16C

## Weeds - Biology

- 70735 BEMENT, R. E. Plains pricklypear [*Opuntia polyacantha*]: Relation to grazing intensity and blue gramma [*Bouteloua gracilis*] yield on Central Great Plains. J. Range Manage. 21(2):83-86. Mar.1968. 60.18 J82
- 70736 DORAN, T. J. Some aspects of natural products chemistry; constituents of *Hippomane mancinella*; synthesis of oxygen and sulfur analogs related to the pineal components. Diss. Abstr., Sect. B, 23(6):2337B-2338B. Dec. 1967. Z5055.U49D53
- 70737 DORR, I. The fine structure of hypha of *Cuscuta odorata* and its junction to the sieve tube of the host plants. (Ge) Naturwissenschaften 54(17):474. Sept.1,1967. 474 N213  
*Pelargonium zonale* and *Primula obconica* host plants.
- 70738 GOODFRIEND, L., and PERELMUTTER, L. Properties of two chromatographically distinct reagins in the sera of ragweed atopic individuals. Int. Arch. Allergy Appl. Immunol. 33(1):89-98. Ref. 1968. 448.8 In8
- 70739 LORENZONI, G. G. La vegetazione infestante del mais nel Lazio e in Campania [Vegetation infesting corn in Lazio and Campania]. Bergamo. Sta. Sperim. Maiscoltura. Publ. 207, 24 p. 1967. 105.4 B453  
Ecological.
- 70740 MILLER, H. E. The chemistry and infraspecific variations of sesquiterpene lactones in *Ambrosia psilostachya* DC. (Compositae). Diss. Abstr., Sect. B, 28(5):1831B-1832B. Nov. 1967. Z5055.U49D53
- 70741 PARK, R. J. The occurrence of mustard oil glucosides in *Lepidium hyssopifolium* Desv., *L. bonariense* (L.), and *Capsella bursa pastoris* (L.) Medic. Australian J. Chem. 20(12):2799-2801. Ref. Dec.1967. 475 Au73
- 70742 PARMETER, J. R., and COBB, F. W. Inoculation of monterey pine [*Pinus radiata*] with dwarf mistletoe [*Arceuthobium campylopodum*] from bishop pine [*Pinus muricata*]. Plant Dis. Rep. 51(10):856. Oct.1967. 1.9 P69P
- 70743 WALLACE, A., RHODES, W. A., and FROLICH, E. F. Germination behavior of *Salsola* [kali] as influenced by temperature, moisture, depth of planting, and gamma irradiation. Agron. J. 60(1):76-78. Ref. Jan./Feb.1968. 4 Am34P

## Weed Control

- 70744 BULLEN, E. R. What to do about wild oats. Arable Farmer 1(12):14-15, 17. Oct.1967. S3.A7  
Ways for control.
- 70745 CAMPBELL, D. The fight against weeds. Agr. Chem. 22(9):49-50. Sept.1967. 381 Ag8  
Control in Australia.
- 70746 CRABTREE, G. Weed control in home gardens. Oreg. Weed Contr. Handbook 1967:158. 275.28 Or3  
Mechanical and chemical methods.
- 70747 DEERING, R. E. Stop brush or stop ranching. Farm Quart. 23(2):96-99, 126-127. Spring 1968. 6 F22995  
Need for brush control on Texas ranges.
- 70748 EVANS, S. Weeds; some aspects of their control. Milk Board J. 19(1):15, 17-18. Jan.1968. 44.8 M5934
- 70749 GOW, P. B. Combating *nassella tussock* [*Nassella trichotoma*] in Central Otago. New Zeal. J. Agr. 115(3):28-29, 31-32. Sept.1967. 23 N48J
- 70750 ISTIMIN, M. S., VALIULIN, A. KH., and PONOMAREVA, G. I. Controlling weeds on the irrigated soils in Surkhan-Darya. (Rus) Khlopkovodstvo 11:37-38. 1967. 72.8 K522  
Cotton.
- 70751 KACSO, A. Seasonal character of field plant protection. (Hu) Magyar Mezogazdasag 22(46):14. Nov.15,1967. 19 M27  
Chiefly weed control.
- 70752 MCCARTNEY, W. O. European mistletoe, *Viscum album*, an unusual phanerogamic parasite in California. Plant Dis. Rep. 52(3):198-201. Mar.1968. 1.9 P69P  
Control.



- 70753 SCOTT, J. D. Bush encroachment in South Africa. *S. Afr. J. Sci.* 63(8):311-314. Aug. 1967. 515 So84  
Includes control.
- 70754 SYLWESTER, E. P., and KOWALSKI, R. E. Win the battle with giant foxtail! *Iowa Farm Sci.* 22(10):12-14. Apr. 1968. 275.28 Io94
- 70755 WARREN, R. Weed control methods. *Oreg. Weed Contr. Handbook* 1967:2. 275.28 Or3
- Weed Control - Chemical**
- 70756 AGAMALIAN, H., and others. Pre-emergence herbicides for weed control in lettuce. *Calif. Agr.* 21(10):8-9. Oct. 1967. 100 C12Cag  
A. Lange, J. Lyons, E. Stilwell, H. Ford, H. Kempen, O. McCoy, and F. Robinson, joint authors.
- 70757 AKOL'ZIN, L. Beneficial measures. (Rus) *Kartofel' Ovoshchi* 11:41. Nov. 1967. 75.8 K147  
Application of Dikotex-30 in controlling weed on potato crops.
- 70758 ARKUSHA, V. YU. Aftereffect of symmetric triazines, applied on corn crops, on yields of the following crops. (Uk) *Visn. Sil's'kohospod. Nauk.* 5:64-68. May 1966. 20 V82  
Effect of atrazine and simazine on field crops.
- 70759 BAART, E. A. D., and ZONDERWIJK, P. Bestrijding van windhalm in wintertarve en winterrogge (serie 629); verslag over 1966 en 1967 [Control of bentgrass in winter wheat and winter rye (series 629); report for 1966 and 1967]. Wageningen. Proefsta. Akker-Weidebouw. Gestencilde Verslagen Interprov. Proeven 119, 13 p. 1967. 105.2 W123G  
Control of *Agrostis spica-venti* with herbicides.
- 70760 BACHELARD, E. P., and BOUGHTON, V. H. The effect of weedicides on the growth of radiata pine (*Pinus radiata*) seedlings. *Australian Forest.* 31(3):211-220. Sept. 1967. 99.8 Au74  
Tordon 22K, Tordon 50D and 2,4,5-T.
- 70761 BADEA, I. The efficacy of herbicides applied on straw cereals by means of the agricultural aviation. (Rum) *Probl. Agr. [Bucharest]* 20 (1):42-52. Ref. 1968. 21 R862
- 70762 BELYAEVA, T. V. Results of testing herbicide on tea plantation. (Rus) *Timiryazevskaya Sel'skokhoz. Akad. Izv.* 6:114-125. Ref. 1967. 106 P44  
English summary.
- 70763 BERAN, F. What does it cost to develop a herbicide? (Ge) *Pflanzenarzt* 21(2):28. Feb. 1, 1968. 464.9 P482
- 70764 BEREZOVSKII, M. YA., KISELEV, A. N., and SINYUKHOV, V. P. Toxic effect of 2,4-D and 2-methoxy-3,6-dichlorobenzoic acid on field horsetail (*Equisetum arvense* L.). (Rus) *Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl.* 131:265-271. 1967. 20 M857  
As weed on field crops.
- 70765 BEREZOVSKII, M. YA., and RASKIN, M. S. Uptake of herbicides—derivatives of chlorobenzoic acid by Russian *Centaurea*. (Rus) *Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl.* 131:257-263. 1967. 20 M857  
*Centaurea repens*.
- 70766 BICKFORD, M., and HERMANN, R. K. Herbicide aids survival of Douglas-fir seedlings planted on dry sites in Oregon; root wrapping has little effect. *Tree Planters' Notes* 18(4):5-8. Nov. 1967. 1.962 C5T71  
Application of atrazine.
- 70767 BOND, C., and LANDFORCE, A. Aquatic weed control. *Oreg. Weed Contr. Handbook* 1967:165-174. Ref. 275.28 Or3  
Chemical control.
- 70768 BRYAN, G. G., and MCMURPHY, W. E. Competition and fertilization as influences on grass seedlings. *J. Range Manage.* 21(2):98-101. Mar. 1968. 60.18 J82  
Tests on weed control and nitrogen and phosphorus fertilizers for depleted Great Plains ranges.
- 70769 BUCHHOLTZ, K. P. Minimize herbicide residues. *Hoard's Dairyman* 113(5):307. Mar. 10, 1968. 44.8 H65  
Application and biological assay.
- 70770 CAMPBELL, M. H. Procedure for aerial spraying of serrated tussock [*Nassella trichotoma*]. *Agr. Gaz. New S. Wales* 79(1):16-20. Jan. 1968. 23 N472  
Dalapon.
- 70771 CARTER, G., and FURTICK, W. R. Potatoes. *Oreg. Weed Contr. Handbook* 1967:80-81. 1967. 275.28 Or3  
Chemical control of weeds.
- 70772 CLEMENTS, R. F. The influence of herbicides on horticultural production. *Great Brit. Min. Agr. Fish. Food. Agr.* 74(9):405-409. Sept. 1967. 10 G79J  
Vegetables, fruit and ornamental plants.
- 70773 CRABTREE, G., and BULLOCK, R. M. Small fruits. *Oreg. Weed Contr. Handbook* 1967:106-117. 275.28 Or3  
Chemical weed control in berries.
- 70774 CRABTREE, G., and GOETZE, N. Soil fumigation for weed control in vegetable plant beds, ornamental and nursery stock plantings, greenhouse soils, and turf preparation. *Oreg. Weed Contr. Handbook* 1967:159-160. 275.28 Or3
- 70775 DENMARK. STATENS FORSOGSVIRKSOMHED I PLANTEKULTUR. Chemical control of undesirable vegetation in winbreaks. (Da) *Tidsskr. Planteavl* 71(3):404-405. 1967. 11 T439
- 70776 DENMARK. STATENS FORSOGSVIRKSOMHED I PLANTEKULTUR. Control of weeds in carrots. (Da) *Tidsskr. Planteavl* 71(3):406-408. 1967. 11 T439  
Chemical control.
- 70777 DUNCAN, A., and CRABTREE, G. Vegetable crops. *Oreg. Weed Contr. Handbook* 1967:83-105. 1967. 275.28 Or3  
Chemical weed control.
- 70778 ENGEL, R. E., DUNN, J. H., and ILNICKI, R. D. Preemergence crabgrass herbicide performance as influenced by dry vs. spray treatments and variation of application date of spring treatments on lawn turf. *N. J. Agr. Exp. Sta. Bull.* 818:112-121. Jan. 1968. 100 N465  
Control of *Digitaria* in *Poa pratensis*.
- 70779 ENGEL, R. E., and DUNN, J. H. Preemergence herbicides for control of goosegrass [*Eleusine indica*] in cool-season turfgrasses for a series of tests over seven seasons. *N. J. Agr. Exp. Sta. Bull.* 818:93-112. Jan. 1968. 100 N465
- 70780 EPLEE, R. E., and KLINGMAN, G. C. Effect of corn population and simazine on weed growth. *Agron. J.* 60(1):87-89. Jan./Feb. 1968. 4 Am34P
- 70781 ERDMANN, G. G. Chemical weed control increases survival and growth in hardwood plantings. *U. S. N. Cent. Forest Exp. Sta. U. S. Forest Serv. Res. Note* NC-34, 4 p. Ref. Aug. 1967. ASD11.A33  
Control with simazine, atrazine, and plastic mulch in Iowa.
- 70782 FEDOROVA, L. L. Using herbicides for eradication of weeds on kale crops. (Rus) *Khim. Sel'skom Khoz.* 5(8):36-39. Ref. Aug. 1967. 385 K524
- 70783 FITCH, L., and FURTICK, W. R. Sugar beets. *Oreg. Weed Contr. Handbook* 1967:77-79. 275.28 Or3  
Chemical weed control.
- 70784 FURTICK, W. R. Control of common weeds. *Oreg. Weed Contr. Handbook* 1967:197-213. 275.28 Or3  
Chemical control.
- 70785 FURTICK, W. R. Seed flax. *Oreg. Weed Contr. Handbook* 1967:81-83. 275.28 Or3  
Chemical weed control.
- 70786 FURTICK, W. R. Selective control of weeds in field crops. *Oreg. Weed Contr. Handbook* 1967:54-76. 1967. 275.28 Or3  
Chemical control.
- 70787 FURTICK, W. R., and APPLEBY, A. Soil sterilants. *Oreg. Weed Contr. Handbook* 1967:214-221. 275.28 Or3  
For weed control.

- 70788 FURTICK, W. F., and WARREN, R. Weed and brush control along highways, roadways and fence lines. Oreg. Weed Contr. Handbook 1967: 192-194. 275.28 Or3  
Chemical control.
- 70789 FURTICK, W. R., and WARREN, R. Weed control along irrigation and drainage canals. Oreg. Weed Contr. Handbook 1967:195-196. 275.28 Or3  
Chemical control.
- 70790 GATES, D. H. Weed control on rangelands. Oreg. Weed Contr. Handbook 1967:189-191. 275.28 Or3  
Chemical control.
- 70791 GESELL, S. G. A new farm pest, the garden symphyllan [*Scutigerella immaculata*]. Hoard's Dairyman 113(5):315. Mar.10,1968. 44.8 H65  
Includes chemical control.
- 70792 GIMESI, A. Latest results in dodder control. (Hu) Magyar Mezogazdasag 23(1):14-15. Jan. 3,1968. 19 M27  
Chemical (with Dacthal) and cultural.
- 70793 GOETZE, N. Weed control in turfgrass. Oreg. Weed Contr. Handbook 1967:161-164. 275.28 Or3  
Chemical control.
- 70794 GORTLEVSKII, A. A., and GALITSKAYA, E. P. Aftereffect of herbicides applied on sugar beets. (Rus) Sakharn. Svekla 12(5):32-34. May 1967. 66.8 Su393  
TCA and dichloral urea.
- 70795 GOSSELINK, J. G., and STANDIFER, L. C. Diurnal rhythm of sensitivity of cotton seedlings to herbicides. Science 158(3797):120-121. Oct.6,1967. 470 Sci2
- 70796 GUMANIUC, N. Economic efficiency of chemical weed control in maize crops. (Rum) Bucharest. Inst. Cent. Cercet. Agr. Sect. Econ. Agr. An. 3:205-211. 1966,pub.1967. HD2052.A115 1966  
English summary.
- 70797 HALPERN, E. Treating water on the farm to control algae. Tasmanian J. Agr. 38(4): 266-268. Nov.1967. 23 T182T
- 70798 HERBICIDES application in forest tending. (Ge) Allg. Forstzeitung 79(3):58-59. Mar. 1968. 99.8 AL53
- 70799 ISMONOV, KH. Applying herbicides. (Rus) Zashch. Rast. 1:17. 1968. 421 Z1  
Diuron and IPC to cotton.
- 70800 KAMPE, W. Herbicides in basket willow [*Salix americana*] culture. (Ge) Gesunde Pflanzen 20 (1):18-20. Jan.1968. 464.8 G33
- 70801 KASASIAN, L. Chemical weed control in tropical root and vegetable crops. Exp. Agr. 4(1): 1-16. Jan.1968. 10 Ex72  
Review of the literature.
- 70802 KHRAMTSOV, L. I., GOLOVANEV, P. S., and SUYAROV, YU. M. Weeding corn and sugar beets. (Rus) Zashch. Rast. 1:24-25. 1968. 421 Z1  
2,4-D and PBA applied on corn and murebetol on sugar beets.
- 70803 KISS, L. Study of the effect of herbicides on mycorrhiza fungi under laboratory conditions. (Hu) Erdesz. Kutatasok 63(1/3):249-258. 1967. 99.9 Er24  
German summary.
- 70804 KLOMP, G. J., and HULL, A. C. Effects of 2, 4-D on emergence and seedling growth of range grasses. J. Range Manage. 21(2):67-70. Mar. 1968. 60.18 J82
- 70805 KOLESNIKOV, V. A., and ZHELTAKOVA, Z. S. Inactivation of herbicides and their aftereffect on vegetables. (Rus) Khim. Sel'skom Khoz. 5(8):40-44. Ref. Aug.1967. 385 K524  
Chlorazine and propazine used.
- 70806 KURANCOWA, Z. Effects of dichlorophenoxyacetic acid on *Euglena gracilis* Klebs. (Pol) Lublin. Univ. Marii Curie-Sklodowskiej. Ann. Sect. C, 21:343-352. Ref. 1966,pub.1967. 512 L96Ac
- 70807 LANGE, A. H., and others. Weed control studies in strawberries. Calif. Agr. 21(12):8-9. Dec.1967. 100 C12Cag  
H. Agamalian, W. A. Humphrey, and V. Voth, joint authors.  
Chemical.
- 70808 LANGE, A. H. Weeds in California fruit crops; a summary of problems and herbicide possibilities. Calif. Agr. 22(2):8-10. Feb.1968. 100 C12Cag  
Includes nuts.
- 70809 LAYCOCK, W. A., and PHILLIPS, T. A. Long-term effects of 2,4-D on lanceleaf rabbitbrush [*Chrysothamnus viscidiflorus lanceolatus*] and associated species. J. Range Manage. 21(2): 90-93. Mar.1968. 60.18 J82  
Control on western ranges.
- 70810 LAVY, T. L. Soil sterilants: look before you leap. Nebr. Univ. Coll. Agr. Home Econ. Quart. Serving Farm Ranch Home 11,i.e.14(2):9-10. Summer 1967. 100 N27N  
Toxicity of residues.
- 70811 LEONARD, O. A. Action and effectiveness of certain classes of herbicides. Agrichem. West 10(10):6,8,10. (Concl.) Oct.1967. 38 Ag85
- 70812 LUMB, J. M. Early spraying boosts cereal yield by five bushels an acre. J. Agr. [Melbourne] 65(2):482-486. Nov.1967. 23 V66J  
Use of linuron, prometryne, and bromoxynil.
- 70813 MEARS, A. D. Weed control in wheat. Agr. Gaz. New S. Wales 78(5):301. May 1967. 23 N472  
Chemical control.
- 70814 MEARS, A. D. Weed control in wheat. Agr. Gaz. New S. Wales 79(2):66-71. Feb.1968. 23 N472  
Chemical control.
- 70815 MONTGOMERY, M. L., FREED, V. H., and WITT, J. M. Chemicals and properties. Oreg. Weed Contr. Handbook 1967:11-53. 275.28 Or3  
Herbicides.
- 70816 MONTGOMERY, M. L., FREED, V. H., and WITT, J. M. Physical properties of herbicides. Oreg. Weed Contr. Handbook 1967:3-10. 275.28 Or3
- 70817 NEURURER, H. More experiences in controlling wild oats in sugar beets. (Ge) Pflanzenerzt 21(3):37-38. Mar.1,1968. 464.9 P482
- 70818 NEURURER, H., and STRECHA, A. Possibilities for rational weed control in ditches. (Ge) Pflanzenerzt 21(2):21-23. Feb.1,1968. 464.9 P482  
Chemical control in irrigation ditches.
- 70819 NEWTON, M. Forest weed control. Oreg. Weed Contr. Handbook 1967:177-188. 275.28 Or3  
Chemical control.
- 70820 NOVAKOVA, V. Application of new herbicides in vegetable stands. (Cz) Zahradnicke Listy 60(3):74-75. 1967. 80 Z12
- 70821 OELKE, E. A., and MORSE, M. D. Control of barnyardgrass [*Echinochloa crusgalli*] in continuously flooded rice fields. Rice J. 71(2):16, 18-20. Feb.1968. 59.8 R36  
MCPA, molinate and 3,4-dichloropropionalide.
- 70822 OREGON, STATE UNIVERSITY, FEDERAL COOPERATIVE EXTENSION SERV. A glossary of agricultural chemical terms often used in connection with herbicides. Oreg. Weed Contr. Handbook 1967:226-230. 275.28 Or3
- 70823 PERESLAVTSEVA, G. K. Applying herbicides to vegetable crops. (Rus) Zashch. Rast. 1:25. 1968. 421 Z1  
Onions, beets and carrots.
- 70824 PHILLIPS, D. Corn herbicides for 1968. Farm Quart. 23(2):73-75. Spring 1968. 6 F22995
- 70825 PIANKA, M., and BROWNE, K. M. Structures and pesticidal activities of derivatives of dinitrophenols. VI. Structure and pre-emergence herbicidal activity of certain alkyldinitrophenols and their esters. J. Sci. Food Agr. 18(10):447-456. Ref. Oct.1967. 382 S012  
Chiefly used in truck crops.
- 70826 RIES, S. K., and others. The increase in nitrate reductase activity and protein content of plants treated with simazine. Nat. Acad. Sci. Proc. 58(2):526-532. Ref. Aug.1967. 500 N21P  
H. Chmiel, D. R. Dilley, and P. Filner, joint authors.  
Rye and peas.



- 70827 ROBOCKER, W. C. Control of Dalmatian toad-flax [*Linaria dalmatica*]. *J. Range Manage.* 21 (2):94-98. Mar.1968. 60.18 J82  
Chemical control on ranges.
- 70828 ROMANOV, P., and ASPIDOVA, ZH. Applying herbicides on table beet crops. (Rus) *Kartofel' Ovoshchi* 11:42. Nov.1967. 75.8 K147
- 70829 ROMANOWSKI, R. R., and others. Herbicide selectivity trials with bananas (*Musa* spp.) in Hawaii. *Hawaii. Agr. Exp. Sta. Tech. Progr. Rep.* 162,45 p. Nov.1967. 100 H313P  
J. A. Crozier, J. S. Tanaka, and R. C. Barba, joint authors.
- 70830 RUMSEY, G. 3 chances with blackgrass. *Arable Farmer* 3(1):34-35,37. Jan.1967. S3.A7  
Chemical control of this wheat weed in Great Britain.
- 70831 SABUROVA, P. V., and PETUNOVA, A. A. *Primenenie gerbitsidov v sel'skom khozyaistve* [Applying herbicides on farms]. Ed. 2. Leningrad, Kolos, 1967. 176 p. Ref. SB613.U4S2 1967
- 70832 SANTELMANN, P. W., GREER, H. A. L., and SIX, I. L. Factors influencing the activity of soil incorporated herbicides. *Okla. Agr. Exp. Sta. Tech. Bull.* B-658,20 p. Jan.1968. 100 Ok4  
Includes application.
- 70833 SASAKI, S. Effects of herbicides on physiological functions of red pine, *Pinus resinosa* Ait. *Diss. Abstr.*, Sect. B, 28(3):803B. Sept. 1967. Z5055.U49D53
- 70834 SHIMABUKURO, R. H. Atrazine metabolism and herbicidal selectivity. *Plant Physiol.* 42 (9):1269-1276. Ref. Sept.1967. 450 P692  
Testing effects on susceptible and resistant field crops.
- 70835 SMIRNOV, A. I., and ZAVARZIN, A. I. Applying simazine and atrazine on sorghum crops. (Rus) *Khim. Sel'skom Khoz.* 5(8):34-36. Aug. 1967. 385 K524
- 70836 SOLDATOV, A. B. Pyramin applied on sugar beets. (Rus) *Zashch. Rast.* 7:22. 1967. 421 Z1  
Weed control.
- 70837 STEBBINS, R., and CRABTREE, G. *Orchards.* *Oreg. Weed Contr. Handbook* 1967:118-120. 275.28 Or3  
Chemical weed control.
- 70838 STRYCKERS, J., MAES, E., and HIMME, M. VAN. The possible influence of herbicides on the baking quality of wheat. II. (Ge) *Arb. Getreideforsch. Ber. Getreidechem.-Tag.* 1967: 45-54. 389.9 Ar1
- 70839 SVIRIDOV, I. After-effect of herbicides. (Rus) *Kartofel' Ovoshchi* 11:43-44. Nov.1967. 75.8 K147  
Simazine and atrazine tested on different field crops and weeds during rotation.
- 70840 SYLWESTER, E. P., and KOWALSKI, R. E. Control milkweed. *Iowa Farm Sci.* 22(10):10-11. Apr.1968. 275.28 Io94  
Chemical control of *Asclepias*.
- 70841 SYLWESTER, E. P., and KOWALSKI, R. E. Make war on thistles. *Iowa Farm Sci.* 22(10):7-10. Apr.1968. 275.28 Io94  
Chemical control.
- 70842 TABLER, R. D. Soil moisture response to spraying big sagebrush [*Artemisia tridentata*] with 2,4-D. *J. Range Manage.* 21(1):12-15. Jan.1968. 601.8 J82
- 70843 THOMPSON, F. B. New restrictions on use of DDT. *New Zeal. J. Agr.* 114(6):53. June 1967. 23 N48J  
Pasture weed control.
- 70844 TICKNOR, R. Ornamental and nursery crops. *Oreg. Weed Contr. Handbook* 1967:121-128. 275.28 Or3  
Chemical weed control.
- 70845 TICKNOR, R. L. Tolerance of nursery plants to herbicides. *Oreg. Weed Contr. Handbook* 1967:129-144. 275.28 Or3  
Ornamentals.
- 70846 TILLEY, L. G. W. Weed control investigations at Ingham. *Queensland. Bur. Sugar Exp. Sta. Cane Growers' Quart.* 31(3):103-106. Jan.1, 1968. 65.9 Q3C  
Herbicide tests.
- 70847 TULIKOV, A. M. Resistance of weeds to certain herbicides dependent on developing phase. (Rus) *Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl.* 131:251-256. 1967. 20 M857
- 70848 WHATMAN, A. Tutsan-economic control of a problem weed. *New Zeal. J. Agr.* 115(3): 24-27. Sept.1967. 23 N48J  
Two, 4,5-T used in pastures.

## Weed Control - Cultural, Biological

- 70849 FRISCHKNECHT, N. C. Factors influencing Halogeton [*glomeratus*] invasion of crested wheatgrass range. *J. Range Manage.* 21(1):8-12. Ref. Jan.1968. 60.18 J82  
Biological control.
- 70850 GALKIN, A. V., and YUL'CHIBAEV, M. R. Effectiveness of the "root combing out" method. (Rus) *Khlopkovodstvo* 12:14. Dec.1967. 72.8 K522  
Cultural control of weeds on cotton fields.
- 70851 GOEDEN, R. D., FLESCHNER, C. A., and RICKER, D. W. Biological control of prickly pear cacti on Santa Cruz Island, California. *Hilgardia* 38(16):579-606, map. Ref. Nov.1967. 100 C12H  
Introduction of insects to control *Opuntia littoralis* and *O. oricola*.
- 70852 MOSER, L. Weed control in vineyards without chemicals. (Ge) *Pflanzenarzt* 21(2):19-21. Feb.1,1968. 464.9 P482  
Mechanical weeding and later planting grasses between the rows.





## SOILS AND FERTILIZERS

## SOIL SCIENCE

- 70853 ANDERSON, M. S. Soil science. GW (George Wash.) Univ. Mag. 4(4):23-26. Winter 1968. L9 G30
- 70854 GODUNOV, I. B. Seventy-fifth anniversary of experiment plot in Kamennaya Step. (Rus) Pochvovedenie 1:132-134. 1968. 57.8 P34  
Soil research programs conducted by Dokuchaev Research Institute of Agriculture of the Central Chernozem Zone [Nauchno-Issledovatel'skii Institut Sel'skogo Khozyaistva Tsentral'no-Chernozemnoi Polosy imeni V. V. Dokuchaeva].
- 70855 KWAK, P. J., and NO, S. G. Nongnim t'oyanghak [Soil science in agriculture and forestry]. Seoul, Suhaksa, 1967. 319 p. Ref. S591.K9 1967
- 70856 SIMONSON, R. W. Soil science in the United States of America. (Rum) Stiint. Solului 5(2):155-170. Ref. 1967. 56.8 St5

## Soil Physics

- 70857 ABEDINE, A. Z. EL., ABDALLA, M. M., and MOUSTAFA, A. T. A. Water permeability in the soils of Egypt. II. The relation to salt content to irrigation water. J. Soil Sci. United Arab.Repub. 8(1):1-6. Ref. 1968. 56.8 J825
- 70858 ANDERSSON, S., and WIKLERT, P. Investigations of physical properties of cultivated soil. XVII. On the water retaining properties in pure systems and mixed systems of sand, clay and peat. (Sw) Grundforbattering 20(1):3-27. 1967. 54.8 G92  
English summary.
- 70859 BAKAEV, N. M., and POPKOV, S. N. Quick determination of soil moisture by a gravimetric method. (Rus) Pochvovedenie 1:106-112. 1968. 57.8 P34  
English summary.
- 70860 BUHOCI, L. Some methods employed in Netherlands to determine hydraulic conductivity. (Rum) Stiint. Solului 5(2):188-193. 1967. 56.8 St5
- 70861 CHILDS, F. D., and JENCKS, E. M. Effect of time and depth of sampling upon soil test results. Agron. J. 59(6):537-540. Ref. Nov./Dec.1967. 4 Am34P
- 70862 COMMONWEALTH BUR. OF SOILS. Bibliography on effect of fertilizers on physical properties of soils (1967-1956). Commonwealth Bur. Soils [Annot. Bibliogr.] 1149,16 p. 1967. 241 C734A
- 70863 COMMONWEALTH BUR. OF SOILS. Bibliography on porosity in soils (1967-1957). Commonwealth Bur. Soils [Annot. Bibliogr.] 1143, 36 p. 1967. 241 C734A
- 70864 COMMONWEALTH BUR. OF SOILS. Bibliography on use of synthetic resins (not plastics) with soils and fertilizers: selected references (1967-1957). Commonwealth Bur. Soils [Annot. Bibliogr.] 1145,24 p. 1967. 241 C734A  
Chiefly on resins as soil conditioners.
- 70865 CUNNINGHAM, R. L., and PETERSEN, G. W. Retention of water in soils determined by many factors. Sci. Farmer [Penn. Sta.] 15(2):10-11. Winter 1968. 100 P381S
- 70866 DALTON, F. N., and RAWLINS, S. L. Design criteria for Peltier-effect thermocouple psychrometers. Soil Sci. 105(1):12-17. Jan.1968. 56.8 So3
- 70867 DAVENPORT, D. C. Variations of evaporation in time and space. II. Study of spatial changes using evaporimeters. J. Hydrol. 5(4):329-350. Ref. Oct.1967. 292.8 J82
- 70868 DIMOCK, A. W. A soil-temperature control system employing air as the heat-transfer medium. Plant Dis. Rep. 51(10):873-876. Oct.1967. 1.9 P69P
- 70869 DOWDY, R. H., and MORTLAND, M. M. Alcohol-water interactions on montmorillonite surface. II. Ethylene glycol. Soil Sci. 105(1):36-43. Ref. Jan.1968. 56.8 So3
- 70870 FERDA, J., and PASAK, V. Features of microclimate on drained peat soils. (Cz) Czech. Min. Zemed. Les. Hospod. Ustav. Vedeckotechn. Inform. Les. Cas. 40(7):627-646. Ref. July 1967. 99.9 C334  
English summary.
- 70871 FISHMAN, M. I. Accumulation of moisture in soils of different forest steppe complexes (Kursk Region) as an index for their agricultural grouping. (Rus) Pochvovedenie 1:51-64. Ref. 1968. 57.8 P34  
English summary.
- 70872 FLORESCU, C. I., and CANARACHE, A. Variation of resistance to penetration on the profile of some genetic soil types. (Rum) Bucharest. Inst. Cent. Cercet. Agr. Sect. Pedol. An. 34:91-99. 1966, pub. 1967. 21 R86A  
English summary.
- 70873 GOLOVANOV, A. I., and PALASIOS, O. Determination of soil moisture as related to depth of the ground water. (Rus) Pochvovedenie 1:101-105. 1968. 57.8 P34
- 70874 HARGREAVES, G. H. Consumptive use derived from evaporation pan data. Amer. Soc. Civil Eng. J. 94(IR1,proc.paper 5863):97-105. Mar. 1968. 290.9 Am3Ps  
Includes irrigation requirements.
- 70875 IBRAHIM, H. A. Hysteresis and intermittent vertical infiltration in unsaturated porous media. Diss. Abstr., Sect. B, 28(3):893B. Sept.1967. Z5055.U49D53  
Soils.
- 70876 JEPPSON, R. W. Seepage through dams in the complex potential plane. Amer. Soc. Civil Eng. J. 94(IR1,proc.paper 5835):23-39. Ref. Mar. 1968. 290.9 Am3Ps
- 70877 KELLER, J. The effect of water application on soil tilth. Utah Sci. 28(3):93-96. Sept.1967. 100 U1F
- 70878 KOLOSOV, I. V., MANSFELD, A., and RACHINSKII, V. V. Investigation of water filtration through soil, with the use of the complex compounds of metals, labelled with radioisotopes. (Rus) Timiryazevskaya Sel'skokhoz. Akad. Izv. 6:207-215. 1967. 106 P44  
English summary.
- 70879 KONSTANTYNOV, A. R. Methods of measuring evaporation from soil surface. (Uk) Visn. Sil's'kohospod. Nauk. 1:85-92. Ref. Jan.1968. 20 V82  
Russian summary.
- 70880 LALIBERTE, G. E., BROOKS, R. H., and COREY, A. T. Permeability calculated from desaturation data. Amer. Soc. Civil Eng. J. 94 (IR1,proc.paper 5843):57-71. Ref. Mar.1968. 290.9 Am3Ps  
Soils.
- 70881 LEBEDINOVA, N. S. Moisture regime of dark-Brown soils under different types of Persian walnut forests in Fergana. (Rus) Pochvovedenie 1:32-41. Ref. 1968. 57.8 P34  
English summary.
- 70882 MCCORMICK, J. A. Spring soil temperatures related to drainage problems. Amer. Soc. Civil Eng. J. 94(IR1,proc.paper 5870):107-113. Mar.1968. 290.9 Am3Ps
- 70883 MILOSERDOV, N. M. Soil moisture under winter wheat with different preceding crops between shelter belts in southern Ukraine. (Rus) Pochvovedenie 1:42-51. Ref. 1968. 57.8 P34  
English summary.
- 70884 OBREJANU, G., and others. Physical, chemical and mineralogical characteristics of the sands and sandy soils from the right side of the River Calmatui. (Rum) Bucharest. Inst. Cent. Cercet. Agr. Sect. Pedol. An. 34: 258-269, map. Ref. 1966, pub. 1967. 21 R86A  
T. Trandafirescu, D. Niculescu, G. Sandu, I. Serbanescu, and G. Gata, joint authors.  
English summary.
- 70885 OLGAARD, P. L., and HAAHR, V. On the sensitivity of subsurface neutron moisture gauges to variations in bulk density. Soil Sci. 105(1): 62-64. Jan.1968. 56.8 So3

- 70886 PISZCZEK, J., and others. Water aeration and chemical properties of brown earths of the agricultural research institutions of the Szczecin Agricultural University. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25: 21-26. 1966, pub. 1967. 20.5 St4  
Z. Chudecki, H. Greinert, and E. Niedzwiecki, joint authors.  
English summary.
- 70887 ROSEN, M. J. Modification of the permeability of loess by electrolytes. *Soil Sci.* 105(1):51-56. Jan. 1968. 56.8 So3
- 70888 SALTER, P. J., BERRY, G., and WILLIAMS, J. B. The effects of farmyard manure on matrix suctions prevailing in a sandy loam soil. *J. Soil Sci.* 18(2):318-328. Ref. Sept. 1967. 56.8 J823
- 70889 SCHMIDT, G. N. Correlation between electric and heat conductivity of soils. (Rus) *Vestnik Sel'skokhoz. Nauk.* [Moscow] 12:17-20. Ref. 1967. 20 V633  
English summary.
- 70890 SCHOTHORST, C. J. Determination of the components of subsidence after lowering of ground water level. (Du) *Landbouwkundig Tijdschr.* 79(11):402-411. Ref. Nov. 1967. 105.2 Or3  
English summary.  
In peat soil.
- 70891 SHARMA, M. L. Influence of soil structure on water retention, water movement and thermodynamic properties of adsorbed water. *Diss. Abstr., Sect. B*, 28(5):1760B-1761B. Nov. 1967. Z5055.U49D53
- 70892 SHMIDT, G. N. To the problem of elaborating the methods of determining soil moisture and heat conductivity on the field. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 131:177-180. 1967. 20 M857
- 70893 SHOOP, G. J. The effects of various coarse textured material and peat on the physical properties of Hagerstown soil for turfgrass production. *Diss. Abstr., Sect. B*, 28(6):2223B-2224B. Dec. 1967. Z5055.U49D53
- 70894 STREET, N. Electrokinetic effects in fluid flow. *Soil Sci.* 105(1):65-66. Jan. 1968. 56.8 So3
- 70895 STURGES, D. L. Evapotranspiration at a Wyoming mountain bog. *J. Soil Water Conserv.* 23(1):23-25. Jan./Feb. 1968. 56.8 J822
- 70896 EL-SWAIFY, S. A., and HENDERSON, D. W. Water retention by osmotic swelling of certain colloidal clays with varying ionic composition. *J. Soil Sci.* 18(2):223-232. Ref. Sept. 1967. 56.8 J823
- 70897 THOMASSON, A. J., and ROBSON, J. D. The moisture regimes of soils developed on Keuper Marl. *J. Soil Sci.* 18(2):329-340. Ref. Sept. 1967. 56.8 J823  
England.
- 70898 VERI, G. Evapotranspiration and production in relation to evaporating power and moisture in soil. (It) *Ital. Agr.* 104:1251-1254. Dec. 1967. 16 It1
- 70899 VILAIN, M., and DRUELLE, J. P. Micro-sampling of gases in the soil. (Fr) *Ann. Agron.* 18(5):507-528. Ref. 1967. 14 F8499  
English summary.
- 70900 WATERS, R. H. The effect of porosity on shearing resistance and thermal conductivity for amorphous soils in vacuum. *Diss. Abstr., Sect. B*, 28(3):895B. Sept. 1967. Z5055.U49D53
- 70901 WATTERSTON, K. G. Supply of soil water as influenced by vegetative cover and methods of its management. *Diss. Abstr., Sect. B*, 28(3):754B-755B. Sept. 1967. Z5055.U49D53  
Forest and grassland soils.
- 70902 WIAIT, H. V. Influence of temperature on the rate of soil respiration. *J. Forest.* 65(7):489-490. Ref. July 1967. 99.8 F768  
Carbon dioxide production.
- 70903 WILDING, L. P., MILLER, F. P., and DREES, L. R. Acrylic plastic as a protective coating for easily hydratable and polar-liquid-treated clay minerals. *Soil Sci.* 105(1):2-7. Ref. Jan. 1968. 56.8 So3
- 70904 YEH, W. W. G. Moisture movement in a horizontal soil column under the influence of an applied pressure. *Diss. Abstr., Sect. B*, 28(3):895B. Sept. 1967. Z5055.U49D53

### Soil Chemistry and Mineralogy

- 70905 AGARWAL, A. S. Immobilization and mineralization of nitrogen in Hawaiian soils. *Diss. Abstr., Sect. B*, 28(5):1757B. Nov. 1967. Z5055.U49D53
- 70906 AHENKORAH, Y. Phosphorus-retention capacities of some cocoa-growing soils of Ghana and their relationship with soil properties. *Soil Sci.* 105(1):24-30. Ref. Jan. 1968. 56.8 So3
- 70907 ALESHIN, S. N., and SLOVZOVA, G. A. Determination of water soluble salt concentration in soils according to the coefficient of electric conductivity. (Rus) *Timiryazevskaya Sel'skokhoz. Akad. Izv.* 6:136-140. 1967. 106 P44  
English summary.
- 70908 ARMSTRONG, W. A polarographic technique for the measurement of dissolved sulphide in waterlogged soils. *J. Soil Sci.* 18(2):282-288. Ref. Sept. 1967. 56.8 J823
- 70909 ARNOLD, P. W. Magnesium and potassium supplying power of soils. *Great. Brit. Min. Agr. Fish. Food. Tech. Bull.* 14:39-48. Ref. 1967. 10 G79T
- 70910 BAJESCU, I. Active manganese in the soils from southern Romania. (Rum) Bucharest. *Inst. Cent. Cercet. Agr. Sect. Pedol. An.* 34: 159-170. Ref. 1966, pub. 1967. 21 R86A  
English summary.
- 70911 BALLANTYNE, A. K. Water-soluble salts in the parent material of solonchets and chernozemic soils in Saskatchewan. *Can. J. Soil Sci.* 48(1):43-48. Feb. 1968. 56.8 C162
- 70912 BECKETT, P. H. T., and NAFADY, M. H. M. Potassium-calcium exchange equilibria in soils: The location of non-specific (Gapon) and specific exchange sites. *J. Soil Sci.* 18(2):263-281. Ref. Sept. 1967. 56.8 J823
- 70913 BECKETT, P. H. T. Potassium potentials. *Great Brit. Min. Agr. Fish. Food. Tech. Bull.* 14:32-38. 1967. 10 G79T  
In soils.
- 70914 BECKETT, P. H. T., and NAFADY, M. H. M. Studies on soil potassium. VI. The effect of K-fixation and release on the form of the K: (Ca+Mg) exchange isotherm. *J. Soil Sci.* 18(2): 244-262. Ref. Sept. 1967. 56.8 J823
- 70915 CHRETIEN, J. Investigation, in temperate climate, of ferruginous concretions and materials in Red soils. (Fr) *Ann. Agron.* 18(4):339-360. Ref. 1967. 14 F8499  
English summary.
- 70916 CLARK, J. S., and NICHOL, W. E. Estimation of the inorganic and organic pH-dependent cation exchange capacity of the B horizons of podzolic and brunisolic soils. *Can. J. Soil Sci.* 48(1):53-63. Ref. Feb. 1968. 56.8 C162
- 70917 COMMONWEALTH BUR. OF SOILS. Bibliography on effect of humates, chelates and organic acids on phosphate availability (1967-1956). Commonwealth Bur. Soils [Annot. Bibliogr.] 1144, 10 p. 1967. 241 C734A
- 70918 COMMONWEALTH BUR. OF SOILS. Bibliography on phosphate sorption by Al, Fe and clays (1967-1956). Commonwealth Bur. Soils [Annot. Bibliogr.] 1161, 20 p. 1967. 241 C734A
- 70919 COMMONWEALTH BUR. OF SOILS. Bibliography on soil analysis and fertilizer response in tropical soils (1967-1956). Commonwealth Bur. Soils [Annot. Bibliogr.] 1165, 14 p. 1967. 241 C734A
- 70920 COMMONWEALTH BUR. OF SOILS. Bibliography on some references on the polarographic determination of some trace elements, Na, K and Ca (1967-1956). Commonwealth Bur. Soils [Annot. Bibliogr.] 1176, 6 p. 1967. 241 C734A  
Chiefly in soils.



- 70921 COMMONWEALTH BUR. OF SOILS. Bibliography on urea transformations in soils (1967-1955). Commonwealth Bur. Soils [Annot. Bibliogr.] 1158,30 p. 1967. 241 C734A
- 70922 CZERNEY, P. Analytical assessment of the ion exchange conditions in A<sub>1</sub> horizon and mineral soil of various forest sites. (Ge) Arch. Forstwesen 16(6/9):591-595. 1967. 99.8 Ar22
- 70923 FASSBENDER, H. W., and IGUE, K. Comparison of radiometric and colorimetric methods in soil phosphate retention and transformation studies. (Sp) Turrialba 17(3):284-287. Ref. July/Sept.1967. 8 T86  
English summary.
- 70924 FEIGENBAUM, S., and HAGIN, J. Evaluation of methods for determining available soil potassium based on potassium uptake by plants. J. Soil Sci. 18(2):198-203. Ref. Sept.1967. 56.8 J823
- 70925 GAGLIARDI, E., and WOLF, E. Determination of boron in fertilizers, soils, plants, and mineral waters with Nile blue A. (Ge) Mikrokchim. Acta 1:140-147. 1968. 384 M58  
English summary.
- 70926 GASSER, J. K. R., GREENLAND, D. J., and RAWSON, R. A. G. Measurement of losses from fertilizer nitrogen during incubation in acid sandy soils and during subsequent growth of ryegrass, using 15-N-labelled fertilizers. J. Soil Sci. 18(2):289-300. Ref. Sept.1967. 56.8 J823
- 70927 GEDEONOV, L. I., ROSYANOV, S. P., and VINOGRADOVA, V. K. Effect of grasses on radioactive contamination in soils. (Rus) Pochvovedenie 10:124-126. Oct.1967. 57.8 P34
- 70928 HARLER, C. R. The acidity of tea soils. Planters' Chron. 63(6):92-93,95. Mar.15,1968. 22 P693
- 70929 HISLOP, J., and COOKE, I. J. Anion exchange resin as a means of assessing soil phosphate status: a laboratory technique. Soil Sci. 105(1):8-11. Jan.1968. 56.8 So3
- 70930 JUO, A. S. R. Chemical and physical factors affecting the relative availability of inorganic phosphorus in soils. Diss. Abstr., Sect. B, 28(3):765B. Sept.1967. Z5055.U49D53
- 70931 KOVAL'SKII, V. V., and SOLOV'EV, F. A. Chemical and spectrographic studies of sapropels in fresh water lakes of the North-West Territory. (Rus) Vses. Akad. Sel'skokhoz. Nauk. V. I. Lenina. Dokl. 8:7-10. Aug.1967. 20 Akl
- 70932 MANGAROO, A. S. Influence of organic compounds on the movement of strontium ions in soil. Diss. Abstr., Sect. B, 28(3):768B. Sept.1967. Z5055.U49D53
- 70933 MATAR, A. E. Film replenishment and contact interaction in ion transfer of soil phosphates. Diss. Abstr., Sect. B, 28(3):766B. Sept.1967. Z5055.U49D54
- 70934 MILES, I. E. "Get that lime applied"—the pH scale in the soil. Agr. Nitrogen News 17(6):51-52,56. Nov./Dec.1967. 381 Ag82
- 70935 MOTT, C. J. B., and NYE, P. H. Contribution of adsorbed strontium to its self-diffusion in a moisture-saturated soil. Soil Sci. 105(1):18-23. Ref. Jan.1968. 56.8 So3
- 70936 NOMMIK, H. Distribution of forms of nitrogen in a podzolic soil profile from Garpenberg, Central Sweden. J. Soil Sci. 18(2):301-308. Ref. Sept.1967. 56.8 J823
- 70937 PEREZ-ESCOLAR, R., and LUGO-LOPEZ, M. A. On the possible significance of high free iron oxide content in Mabi clay, a Vertisol from east-central Puerto Rico. P. R. Univ. J. Agr. 52(1):47-52. Jan.1968. 8 P832J
- 70938 QUEVEDO, F. E. Hydrolysis of pyrophosphate in Na-kaolinite suspensions. Diss. Abstr., Sect. B, 28(5):1763B. Nov.1967. Z5055.U49D53
- 70939 RAVIKOVITCH, S., MARGOLIN, M., and NAV-ROT, J. Zinc availability in calcareous soil. I. Comparison of chemical extraction methods for estimation of plant "available" zinc. Soil Sci. 105(1):57-61. Ref. Jan.1968. 56.8 So3
- 70940 RITCHIE, J. C. Natural gamma radiation in northeastern and east-central Georgia. Diss. Abstr., Sect. B, 28(6):2286B-2287B. Dec.1967. Z5055.U49D53  
In soil samples.
- 70941 ROWELL, D. L., MARTIN, M. W., and NYE, P. H. The measurement and mechanism of ion diffusion in soils. III. The effects of moisture content and soil-solution concentration on the self-diffusion of ions in soils. J. Soil Sci. 18(2):204-222. Ref. Sept.1967. 56.8 J823
- 70942 SAVAGE, K. E. Phenylurea herbicide behavior in soil as related to calcium and hydrogen ion activity. Diss. Abstr., Sect. B, 28(4):1309B. Oct.1967. Z5055.U49D53
- 70943 SHIVRINA, A. N., RYDALEVSKAYA, M. D., and TERESHENKOVA, I. A. Aromatic compounds as components of humic acids. (Rus) Pochvovedenie 1:65-70. Ref. 1968. 57.8 P34  
Extracted from soil.
- 70944 SNYDER, G. H. Ionic relationships in clay-water systems. I. The influence of the suspension effect on plant uptake. II. The interrelationship of pH-dependent and permanent charge cation exchange capacity on Ca and Rb bonding by clay clays, activities in clay suspensions and uptake by soybeans. Diss. Abstr., Sect. B, 28(6):2224B. Dec.1967. Z5055.U49D53
- 70945 SPIVA, C. A primer on soil amendments. Agrichem. West 11(3):16,18,20. Mar.1968. 381 Ag85  
For acidity and alkalinity.
- 70946 TAYLOR, R. M., and GRALEY, A. M. The influence of ionic environment on the nature of iron oxides in soils. J. Soil Sci. 18(2):341-348. Ref. Sept.1967. 56.8 J823  
With reference to the Ca plus Mg ions in Tasmanian soils.
- 70947 THENG, B. K. G., WAKE, J. R. H., and POSNER, A. M. The humic acids extracted by various reagents from a soil. II. J. Soil Sci. 18(2):349-363. Ref. Sept.1967. 56.8 J823
- 70948 THORNE, J. P. 10 years of soil testing in Utah. Utah Sci. 28(3):104-107. Sept.1967. 100 Ut1F
- 70949 VOZNYUK, S. T., TRUSKAVETS'KYI, R. S., and HORIN, M. O. Losses of minerals in the peat soils with drainage water. (Uk) Visn. Sil's'kohospod. Nauk. 1:92-96. Jan.1968. 20 V82  
Russian summary.
- 70950 WALDREP, T. W. Nitrogen loss from surface-applied urea solutions and influence of herbicides on the loss. Diss. Abstr., Sect. B, 28(6):2232B. Dec.1967. Z5055.U49D53
- 70951 YAKOBENCHUK, V. F. Content of some radioactive elements in soils of the Ukrainian west Polesye. (Uk) Visn. Sil's'kohospod. Nauk. 1:57-61. Ref. Jan.1968. 20 V82  
Russian summary.  
Thorium and uranium.
- 70952 ZMIJEWSKA, W., and MINCZEWSKI, J. Determination of some components of the soil solution by ion-exchange chromatography-neutron activation method. Chem. Anal. 12(4):675-681. 1967. 385 C4233

#### Soil Biology

- 70953 COMMONWEALTH BUR. OF SOILS. Bibliography on cowpea and some other tropical legumes: nutrition, N fixation, soils (1967-1957). Commonwealth Bur. Soils [Annot. Bibliogr.] 1175,26 p. 1967. 241 C734A
- 70954 COMMONWEALTH BUR. OF SOILS. Bibliography on effect of trace-element nutrition on nitrogen fixation (1967-1956). Commonwealth Bur. Soils [Annot. Bibliogr.] 1164,16 p. 1967. 241 C734A

- 70955 FOURNELLE, H. J. Soil and water bacteria in the Alaskan subarctic tundra. *Arctic* 20(2): 104-113. Ref. June 1967. 470 Ar22
- 70956 FUSTEC-MATHON, E., and others. Characteristics of seven strain of *Azotobacter* isolated from Atlantic littoral soils in central western France. (Fr) *Acad. Sci. Compt. Rend. Ser. D*, 264(15):1945-1948. Apr.10,1967. 505 P21  
D. Neuville, M. Raynaud, F. Grossin, and P. Daste, joint authors.
- 70957 KELEBERDA, T. N. Biological activity in the rhizosphere of forest stands in Ukrainian steppe area. (Rus) *Les. Zh.* 2:40-43. 1967. 99.8 Iz8
- 70958 KHAN, M. F. A., and MOORE, A. W. Denitrifying capacity of some Alberta soils. *Can. J. Soil Sci.* 48(1):89-91. Feb.1968. 56.8 C162
- 70959 LASKOWSKI, D., and MORGAHAN, J. T. The effect of nitrate and nitrous oxide on hydrogen and methane accumulation in anaerobically-incubated soils. *Plant Soil* 27(3):357-368. Ref. Dec.1967. 450 P696
- 70960 MARKS, G. C., and FOSTER, R. C. Succession of mycorrhizal associations on individual roots of radiata pine [*Pinus radiata*]. *Australian Forest.* 31(3):193-201. Ref. Sept.1967. 99.8 Au74
- 70961 MCGARITY, J. W., and MYERS, M. G. A survey of urease activity in soils of northern New South Wales. *Plant Soil* 27(2):217-238, map. Ref. Oct.1967. 450 P696
- 70962 MILLS, J. T., and VLITOS, A. J. Studies on the rhizosphere of sugar-cane in Trinidad. *Trop. Agr. [St. Augustine]* 44(2):151-157. Apr.1967. 26 T754  
Fungi.
- 70963 MISHUSTIN, E. N. Phosphorobacterin and its effectiveness. (Rus) *Timiryazevskaya Sel'skokhoz. Akad. Izv.* 4:65-83. Ref. 1967. 106 P44  
English summary.
- 70964 MULLER, G. Biological cycle of soil materials with special emphasis on humus management and mineral fertilizing. (Hu) *Agrartud. Kozlem.* 26(3/4):553-570. Ref. 1967. 19 B855  
East Germany.
- 70965 POGLAZOVA, M. N., and others. Destruction of benzo(a) pyrene by soil bacteria. *Life Sci.* 6(10,pt.2):1053-1062. Ref. May 15,1967. 442.8 L62  
G. E. Fedoseeva, A. J. Khesina, M. N. Meissel, and L. M. Shabad, joint authors.
- 70966 ROBERT-GERO, M., and others. Bigenetic study of humic polymers; relationship between natural and bacterial humic polymers and lignin. (Fr) *Inst. Pasteur. Ann.* 113(6):911-921. Ref. Dec.1967. 448.3 An75  
G. Vidal, C. Hardisson, L. Le Borgne, and J. Pochon, joint authors.  
English summary.
- 70967 SHTINA, E. A. Algae as producers of soil organic matter. (Rus) *Pochvovedenie* 1:71-74. Ref. 1968. 57.8 P34  
English summary.
- 70968 SOREANU, I., and others. Effects of plant density in a corn stand on saccharase activity in soil. (Rum) *Stiint. Solului* 5(2):133-139. Ref. 1967. 56.8 St5  
M. Boaru, I. Chioreanu, and S. Hornung, joint authors.  
English summary.
- 70969 TOROPKINA, A. L. Effects of soil tillage on the vital activities of microflora. (Rus) *Khlopkovodstvo* 12:17-20. Dec.1967. 72.8 K522
- 70970 VELIKANOV, L. L., and ZVYAGINTSEV, D. G. Development of microorganisms of media with adsorbents at different pH values. (Rus) *Pochvovedenie* 1:75-79. Ref. 1968. 57.8 P34  
English summary.
- 70971 WEN, H. P. A study on 2-amino-4-chloro-6-methyl pyrimidine as a nitrification inhibitor in paddy. (Ch) *Taiwan Agr. Res. J.* 16(1):76-83. Mar.1967. 22.5 Ag823  
English summary.
- Soil Genesis, Formation, Classification, and Mapping**
- 70972 BARISS, N. Geomorphological characteristics of loess terrain: a comparative study of five sample areas in the Midwestern United States. *Diss. Abstr., Sect. B*, 28(5):1981B. Nov.1967. Z5055.U49D53
- 70973 BECKETT, P. Lateral changes in soil variability. *Australian Inst. Agr. Sci. J.* 33(3): 172-179. Ref. Sept.1967. 23 Au74  
Surveys.
- 70974 BELAK, S. Problems of research and utilization of marshlands. (Hu) *Agrartud. Kozlem.* 26(3/4):541-551. Ref. 1967. 19 B855  
Utilization of soil.
- 70975 BENNEMA, J. Nature and potential of tropical soils. In Turk, K. L., and Crowder, L. V., ed. *Rural development in tropical Latin America*, p.211-217. 1967. HD1857.T8
- 70976 BERDANIER, C. R. Genesis of some calimorphic soils in the New Jersey Coastal Plain. *Diss. Abstr., Sect. B*, 28(5):1757B-1758B. Nov. 1967. Z5055.U49D53
- 70977 BURT, M., TEACI, D., and PREDEL, F. Pedoclimatic zonation of the Dobrogea Region. (Rum) *Bucharest. Inst. Cent. Cercet. Agr. Sect. Pedol. An.* 34:199-216. Ref. 1966, pub. 1967. 21 R86A  
English summary.
- 70978 COMMONWEALTH BUR. OF SOILS. Bibliography on soils and agriculture in Borneo (1967-1932). *Commonwealth Bur. Soils [Annot. Bibliogr.]* 1160,5 p. 1967. 241 C734A
- 70979 COMMONWEALTH BUR. OF SOILS. Some references relating to the genesis of spodic, cambic and oxic horizons (1966-1957). *Commonwealth Bur. Soils [Annot. Bibliogr.]* 1181, 11 p. 1967. 241 C734A
- 70980 CONEA, A. Buried fossil soils, with special reference to south Dobruja. (Rum) *Rumania. Comitetul Geol. Dari Seama Sedintelor* 52 (pt.3A):259-280. Ref. 1964/65, pub.1967. 403 R86  
English summary.
- 70981 COPPENET, M., and RAMPON, A. Contribution to the survey of the granite and schistose soils of Brittany (the Blavet Catchment Basin). (Fr) *Ann. Agron.* 18(5):455-484. 1967. 14 F8499  
English summary.
- 70982 COUTINET, S. Contribution to the study of allophanic soils. (Fr) *Agron. Trop. Paris* 22(12): 1157-1175. Ref. Dec.1967. 26 Ag86  
English summary.  
From Madagascar, Nicaragua, and Guadeloupe.
- 70983 DOLMAN, J. D. Genesis, morphology, and classification of organic soils in the Tidewater region of North Carolina. *Diss. Abstr., Sect. B*, 28(3):764B-765B. Sept.1967. Z5055.U49D53
- 70984 DURAND, J. H. The soils of the paralic basins on the Western Coast of Madagascar. (Fr) *Agron. Trop. Paris* 22(12):1176-1186. Dec. 1967. 26 Ag86  
English summary.
- 70985 GREENLEE, G. M., PAWLUK, S., and BOWSER, W. E. Occurrence of soil salinity in the dry lands of southwestern Alberta. *Can. J. Soil Sci.* 48(1):65-75, map. Ref. Feb.1968. 56.8 C162
- 70986 GUILLAUME, M. Like soil, like climate, or like climate, like soil? (Fr) *Agr. Prat.* 131 (8):15-18. Aug./Sept.1967. 14 J82
- 70987 HANSEN, R. O., and STOUT, P. R. Isotopic distributions of uranium and thorium in soils. *Soil Sci.* 105(1):44-50. Ref. Jan.1968. 56.8 So3  
In connection with soil formation.
- 70988 HUSSAIN, M. S. A genetic study of the gray hydromorphic soils on the Hawaiian Islands. *Diss. Abstr., Sect. B*, 28(5):1759B. Nov.1967. Z5055.U49D53
- 70989 IONESCU, I. Sandy soils on the Danube terraces from between the Jiu and the Olt. (Rum) *Stiint. Solului* 5(2):140-154. 1967. 56.8 St5  
English summary.



- 70990 JASSO, F. Use of genetic soils maps in increasing fertility of mountain and hill soils. (Hu) Agrartud. Kozlem. 26(3/4):499-503. 1967. 19 B855
- 70991 KARPACHEVSKII, L. O., KISELEVA, N. K., and POPOVA, S. I. Mixed character of soil cover under a broad-leaved-spruce forest. (Rus) Pochvovedenie 1:10-24. Ref. 1968. 57.8 P34  
English summary.  
Refers to soil genesis.
- 70992 KOTIN, N. I. Rochvy Ural'skoi oblasti [Soils of the Ural Region]. Pochvy Kas. SSR Ata Nauka 9,347 p.,map. 1967. 56.26 P753
- 70993 KOVAL'SKII, L. I. Photography of soil profiles. (Rus) Pochvovedenie 1:115-117. 1968. 57.8 P34  
English summary.
- 70994 LOSCHE, C. K. Soil genesis and forest growth on steeply sloping landscapes of the southern Appalachians. Diss. Abstr., Sect. B, 28(3): 765B-766B. Sept.1967. Z5055.U49D53
- 70995 MANAKOV, K. M. Mineral elements and nitrogen cycles in brushwood tundras in the north-east of the Kola Peninsula. (Rus) Pochvovedenie 1:93-98. Ref. 1968. 57.8 P34  
English summary.  
Study of genetic horizons.
- 70996 MCKEAGUE, J. A. Humic-fulvic acid ratio, A1, Fe and C in pyrophosphate extracts as criteria of A and B horizons. Can. J. Soil Sci. 48(1):27-35. Ref. Feb.1968. 56.8 C162
- 70997 NEMECEK, J., and DAMASKA, J. Mapping soils in the German Democratic Republic. (Cz) Prague. Vyzk. Ustav Zemed. Vestn. 14 (5):196-200. 1967. 19.5 C333
- 70998 NG, S. K., and SELVADURAI, K. Scope of using detailed soil maps in the planting industry in Malaya. Malaysian Agr. J. 46(2):158-163. July 1967. 22.5 F312  
Guide to African oilpalm fertilization.
- 70999 PAHLKE, K. Investigations for improvement of methodic and the evaluation of agricultural land research. (Ge) Z. Kulturtech. Flurbereinigung 8(4):202-222, map. July/Aug.1967. S605.A1Z4  
English summary.  
Chiefly soil classification.
- 71000 PAWLUK, S., PETERS, T. W., and CARSON, J. Soils of the Porcupine Hills region of Alberta. Can. J. Soil Sci. 48(1):77-88, map. Ref. Feb. 1968. 56.8 C162
- 71001 POSPELOWA, G. Recent advances in soil evaluation in the Soviet Union. (Ge) Z. Acker-Planzenbau 126(3):277-292. Ref., p.290-292. Oct.1967. 18 J825  
English summary.
- 71002 PROTZ, R., PRESANT, E. W., and ARNOLD, R. W. Establishment of the modal profile and measurement of variability within a soil land-form unit. Can. J. Soil Sci. 48(1):7-19. Ref. Feb.1968. 56.8 C162
- 71003 REDFIELD, A. C. The ontogeny of a salt marsh estuary. Conf. Estuaries. Papers 1964: 108-114, map. 1967. QH91.A3C6 1964  
Includes high marsh peat formation in Massachusetts.
- 71004 SOUTHARD, A. R., and WILSON, L. A new soil classification system. Utah Sci. 28(4):130-131. Dec.1967. 100 UtlF
- 71005 STOROZHENKO, D. M. Pochvy Karagandinskoi oblasti. [Soils of the Karaganda Region]. Pochvy Kaz. SSR. 8:330. 1967. 56.26 P753  
Bibliography, p.320-330.
- 71006 TSENG, C. H. Tropical regions of China. U. S. Joint Publ. Res. Serv. Transl. Communist China's Sci. Technol. 394:1-16, map. Nov.14,1967. (JPRS 43,321; TT 67-33945) 173 J663Teco  
Includes types of soils and vegetation.  
Translation from Ti Li 1:12-15. Jan.1962.  
Issued by CFSTI.
- 71007 VAL'KOV, V. F. Characteristics of compact soils in Cuba. (Rus) Pochvovedenie 1:25-31. Ref. 1968. 41.8 P34  
English summary.
- 71008 WHITE, L. P. Ash soils in Western Sudan. J. Soil Sci. 18(2):309-317, map. Sept.1967. 56.8 J823
- 71009 WILDMAN, W. E. Serpentinite weathering and clay mineral formation in some California soils. Diss. Abstr., Sect. B, 28(5):2056B. Nov.1967. Z5055.U49D53

## SOIL MANAGEMENT

- 71010 COLLINSON, L. E. Land restoration in North-umberland after opencast coal. Great Brit. Min. Agr. Fish. Food. Agr. 74(10):489-494. Oct.1967. 10 G79J  
Policy.
- 71011 DREGNE, KH., VOLOBUEV, V. R., and PEN-MAN, F. Methods of soil improvement. (Rus) In Pochvennyi Institut imeni V. V. Dokuchaeva. Melioratsiya zasolennykh i solontsubykh pochv, p.3-8. 1967. S595.P6  
Soil management.
- 71012 DROSDOFF, M. Soil management. In Turk, K. L., and Crowder, L. V., ed. Rural development in tropical Latin America, p.224-226. 1967. HD1857.T8
- 71013 KISS, A. Situation and tasks in planning soil protection. (Hu) Agrartud. Kozlem. 26(3/4): 483-489. 1967. 19 B855
- 71014 KOLLER, L. Tasks and possibilities in soil protection and improvement. (Hu) Magyar Mezogazdasag 22(47):12-13. Nov.22,1967. 19 M27
- 71015 MONTEITH, N. H. The relationship between soil classes, soil properties, plant growth and soil management treatments in the Goondi Mill area of North Queensland, Australia. Diss. Abstr., Sect. B, 28(5):1759B-1760B. Nov.1967. Z5055.U49D53
- 71016 PAULI, F. W. Soil fertility: a biodynamical approach. London, Hilger, 1967. 204 p. S633.P32  
Bibliography, p.177-196.
- 71017 STEVENS, H. K. Physical and cultural characteristics of an urbanizing watershed. Diss. Abstr., Sect. B, 28(5):2016B. Nov.1967. Z5055.U49D53  
Water resources of a Michigan watershed.
- 71018 TRIPP, V. Can we return to organic ways? Org. Gard. Farming 15(3):98-101. Mar.1968. 57.8 Or32
- 71019 VOLOBUEV, V. R., and others. Soil management after melioration. (Rus) In Pochvennyi Institut imeni V. V. Dokuchaeva. Melioratsiya zasolennykh i solontsovykh pochv, p.91-97. 1967. S595.P6  
Kh. Drezn, V. A. Koeba, and F. Lenman, joint authors.

## Soil Fertility

- 71020 ALIEV, S., and PALILOV, N. Fertilizing winter cabbage in Lenkoran. (Rus) Kartofel' Ovoshchi 11:40. Nov.1967. 75.8 K147
- 71021 ANTIPOV-KARATAEV, I. N., SABOL'CH, I. and DREGNE, KH. Improving unsalted Solonetz soils and Solonchak soils. (Rus) In Pochvennyi Institut imeni V. V. Dokuchaeva. Melioratsiya zasolennykh i solontsovykh pochv, p.14-30. 1967. S595.P6  
Fertilization.
- 71022 BACHY, A. Principal results obtained by the Institute of Oils and Oilseeds Research [Institut de Recherches pour les Huiles et Oleagineux] in the fertilizing of oil palm. (Fr) Oleagineux 23(1):9-14. Jan.1968. 77.8 OL2  
English summary, p. XXXVII.
- 71023 BEKMURATOV, S. B. Minor elements applied on salty soils in the Kara-Kalpak ASSR. (Rus) Khlopkovodstvo 12:22. Dec.1967. 72.8 K522  
Cotton soils.
- 71024 BELONozhko, M. A., LITVIN, V. G., and ZBARAG, V. I. Using mineral fertilizers more effectively. (Rus) Sakharn. Svekla 12:12-13. Dec.1967. 66.8 Su393  
Sugar beets.

- 71025 BENNETT, W. F. Sulphur, a "new" element for the Texas High Plains. *Agr. Nitrogen News* 17(6):65. Nov./Dec.1967. 381 Ag82
- 71026 BHUMBLA, D. R., DAS, B., and MAKKAR, S. L. Soil testing pays dividends. *Fert. News* 12(10):17-19. Oct.1967. 57.8 F4123  
With reference to wheat fertilizing.
- 71027 BOTTAZZI, A. The "hards" in northern Italy. (It) *G. Agr.* 77(51):602. Dec.17,1967. 16 It1G  
Nitrogen fertilizing of wheat.
- 71028 BOYD, D. A., and FRATER, A. Analytical methods for potassium and their correlations with crop response. *Great Brit. Min. Agr. Fish. Food. Tech. Bull.* 14:55-62. 1967. 10 G79T  
Value of methods of soil analysis in predicting field crop and potato response to fertilizer in Great Britain.
- 71029 BRETAN, I., and SIMIONESCU, I. Long term effect of liming on soils with different acidity. (Rum) *Stiint. Solului* 5(2):117-132. 1967. 56.8 St5  
English summary.
- 71030 CHINNASWAMI, K. N., KANNAN, S., and RAJA-RATHNAM, S. Response of ragi [Eleusine coracana] to calcium ammonium nitrate. *Fert. News* 12(9):31-34. Sept.1967. 57.8 F4123
- 71031 COMMONWEALTH BUR. OF SOILS. Bibliography on ammonium nitrate as fertilizer (1967-1956). *Commonwealth Bur. Soils [Annot. Bibliogr.]* 1148,25 p. 1967. 241 C734A
- 71032 COMMONWEALTH BUR. OF SOILS. Bibliography on effect of soil conservation measures on soil fertility and soil physico-chemical properties (1967-1957). *Commonwealth Bur. Soils [Annot. Bibliogr.]* 1157,20 p. 1967. 241 C734A
- 71033 COMMONWEALTH BUR. OF SOILS. Bibliography on groundnut fertilizing, nutrition and soils (1967-1962). *Commonwealth Bur. Soils [Annot. Bibliogr.]* 1166,19 p. 1967. 241 C734A
- 71034 COMMONWEALTH BUR. OF SOILS. Bibliography on mass and nutrient content of forest litter (1966-1957). *Commonwealth Bur. Soils [Annot. Bibliogr.]* 1162,17 p. 1967. 241 C734A
- 71035 COMMONWEALTH BUR. OF SOILS. Bibliography on residual effects of fertilizers and manures, applied to one crop, on subsequent crops (1967-1957). *Commonwealth Bur. Soils [Annot. Bibliogr.]* 1159,26 p. 1967. 241 C734A
- 71036 DALTON, J. D., and JACOB, K. D. Maximum yields require close attention to fertilizers. *Agrichem. West* 11(3):10,14. Mar.1968. 381 Ag85
- 71037 DELBOSC, G. A study on the regeneration of soil fertility in the groundnut zone of Senegal. (Fr) *Oleagineux* 23(1):27-33. Jan.1968. 77.8 OL2  
English summary, p.XXXVII.
- 71038 DELL'AMBROGIO, DI A. Newest studies on fertilizers for alpine pasture in Italy. (It) *Arb. Geb. Futterbaues* 9:10-14. Oct.1967. 60.8 Ar1  
French and German summaries.
- 71039 DENMARK. STATENS FORSOEGSVIRKSOMHED I PLANTEKULTUR. Experiments with increasing amounts of calcium nitrate applied fall and spring to Kentucky bluegrass for seed, 1960-1965. (Da) *Tidsskr. Planteavl* 71(3):415-416. 1967. 11 T439
- 71040 DENMARK. STATENS FORSOEGSVIRKSOMHED I PLANTEKULTUR. Experiments with increasing amounts of calcium nitrate to brown mustard 1963-1966. (Da) *Tidsskr. Planteavl* 71(3):420-421. 1967. 11 T439
- 71041 DENMARK. STATENS FORSOEGSVIRKSOMHED I PLANTEKULTUR. Experiments with lime and fertilizing of peat soil in Skjerna Valley 1963-66. (Da) *Tidsskr. Planteavl* 71(3):425-428. 1967. 11 T439  
Effects on yields of grain and forage plants.
- 71042 DENMARK. STATENS FORSOEGSVIRKSOMHED I PLANTEKULTUR. Increasing amounts of calcium nitrate for tulips 1959-1965. (Da) *Tidsskr. Planteavl* 71(3):422-424. 1967. 11 T439
- 71043 DENMARK. STATENS FORSOEGSVIRKSOMHED I PLANTEKULTUR. Nitrogen fertilizing of grasslands with optimal water supply. (Da) *Tidsskr. Planteavl* 71(3):409-412. 1967. 11 T439
- 71044 DEO, R., and PALIWAL, K. V. Phosphate requirement of wheat grown on some important Rajasthan soils. *Fert. News* 12(10):24-28. Ref. Oct.1967. 57.8 F4123
- 71045 DONALD, L. Commercial agronomists speak. *Agr. Nitrogen News* 17(6):90. Nov./Dec.1967. 381 Ag82  
Statements on fall application of nitrogen fertilizer.
- 71046 DREIER, A. F., HEUERMANN, D., and OLSON, R. A. Fertilizers, what kind do you use. *Nebr. Univ. Coll. Agr. Home Econ. Quart. Serving Farm Ranch Home* 11,1.e.14(2):25-28. Summer 1967. 100 N27N  
Fertility of soils and local fertilizer needs of grains.
- 71047 DUNTON, E. M. Fertilization and irrigation of potatoes in Virginia. *Amer. Potato J.* 44(12):419-424. Ref. Dec.1967. 75.8 P842  
With nitrogen, potassium oxide, and phosphorus oxide.
- 71048 EDWARDS, G. H. A. An evaluation of crop response to magnesium in the West Midlands, 1952-58. *Great Brit. Min. Agr. Fish. Food. Tech. Bull.* 14:147-159. 1967. 10 G79T  
Foliar diagnosis in vegetables and lucerne.
- 71049 EL'SAED, R. M. Effectiveness of phosphorus and potassium fertilizers applied to alfalfa under irrigation. (Rus) *Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl.* 131:297-299. 1967. 20 M857
- 71050 FILATOV, V. I. Effect of soil fertility on corn yields. (Rus) *Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl.* 131:33-36. 1967. 20 M857
- 71051 FISCHETTI, B. Are you familiar with urea? It is time for top-dressing wheat; old and new fertilizers in the limelight. (It) *G. Agr.* 78(2):19. Jan.14,1968. 16 It1G
- 71052 FRAME, J. Anhydrous ammonia fertiliser. *Scot. Agr.* 46(4):186-188. Autumn 1967. 10 Sco82So  
Application equipment; includes effects on grass.
- 71053 GALLAGHER, P. A. Fertilizer experiments on sugar beet in Eire. *Nitrate Corp. Chile. Chilean Nitrate Agr. Serv. Inform.* 98,17p. Nov.1967. 57.9 N63
- 71054 GATELY, T. F. Residual effects of sugar beet manuring on yield and nitrogen content of malting barley (var. Proctor). *Irish J. Agr. Res.* 6(2):247-253. Ref. Oct.1967. 10.5 Ir45  
Nitrogen, phosphorus and potassium fertilizers applied to sugar beets and residual effects on barley.
- 71055 GEUS, J. G. DE. Fertilizer guide for tropical farming and subtropical farming. *Zurich, Centre d'Etude de l'Azote*, 1967. 727 p. Ref. S633.5.T7G4
- 71056 HANSEN, C. M. Researcher reviews NH<sub>3</sub> tools. *Agr. Nitrogen News* 17(6):18-19,22. Nov./Dec.1967. 381 Ag82  
Application and equipment.
- 71057 HARROD, M. F., and CALDWELL, T. H. The magnesium manuring of sugar beet on light sandy soils of East Anglia. *Great Brit. Min. Agr. Fish. Food. Tech. Bull.* 14:127-142. Ref. 1967. 10 G79T
- 71058 JARO, Z. The role of needle and leaf analysis in determining nutrient deficiency or insufficiency. (Hu) *Erdesz. Kutatasok* 63(1/3):119-127. 1967. 99.9 Er24  
German summary.  
Forest trees.
- 71059 KATKOV, A., and SAVINSKII, K. Fertilization and yields. (Rus) *Zemledelie* (11):28. Nov. 1967. 20 Z44  
Grain.
- 71060 KORITSKAYA, T. D. Effectiveness of phosphate rock of Kingicepp origin as related to its fine milling. (Rus) *Khim. Sel'skom Khoz.* 7:19-23. July 1967. 385 K524  
Tested on wheat.



- 71061 KOROTKOV, B. I. Effect of urea on pasture yield under irrigation. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 131:291-295. 1967. 20 M857
- 71062 KOVAL'CHUK, S. I. Effect of liming on yields of seed sugar beets, grown on acid soils in the Chernovtsy Region. (Uk) Visn. Sil's'kohospod. Nauk. 1:53-55. Jan.1968. 20 V82  
Russian summary.
- 71063 KOZAK, M. Problems of effectiveness of nitrogen fertilizers on sandy, highly calcareous soils. (Hu) Agrartud. Kozlem. 26(3/4):291-300. 1967. 19 B855  
German summary.  
Effects on rye.
- 71064 KUDROV, A. P. Methods of applying mineral fertilizers. (Rus) Sakharn. Svekla 12:9-11. Dec.1967. 66.8 Su393  
Sugar beets.
- 71065 LAMBRACHT, H., and JOST, W. Increased yields through planned micronutrient fertilizing. (Ge) Chem. Tech. Landwirt. 19(2):54-57. Feb.1968. 384 C4292  
Grain.
- 71066 LAZURSKII, A. V., and NATYAGA, M. I. Effects of mineral fertilizers on yield and quality of sugar beets grown on soddy-podzolic soils. (Rus) Khim. Sel'skom-Khoz. 7:4-7. July 1967. 385 K524
- 71067 LEHMAN, O. R., BOND, J. J., and ECK, H. V. Forage potential of irrigated blue gramma [*Boutelous gracilis*] with nitrogen fertilization. J. Range Manage. 21(2):71-73. Ref. Mar.1968. 60.18 J82  
Effects on yields; includes irrigation.
- 71068 MARTINI, J. A., and PINCHINAT, A. M. Fertilizer trials on beans (*Phaseolus vulgaris* L.) in greenhouse with three soils from bean producing areas in Costa Rica. (Sp) Turrialba 17(4):411-418. Ref., p.416-418. Oct./Dec. 1967. 8 T86  
English summary.
- 71069 MCALLISTER, J. S. V. A study of the response to alternative sources of nitrogen in Northern Ireland. 3-4. Northern Ireland Rec. Agr. Res. 16(1):29-38, 41-55. Ref. Aug.1967. 10 N81R
- 71070 MCVICKAR, M. H. Fall application makes \$ and ¢. Agr. Nitrogen News 17(6):102-104. Nov./Dec.1967. 381 Ag82  
Nitrogen.
- 71071 MEHTA, S. S. Financial implications of private sector fertiliser programme in the Fourth Plan. Seminar Cost Finan. Fert. Proj. India. Proc. 1966:303-315. 1967. HD9483.S4 1966  
Investments.
- 71072 MESZAROS, F. Mineral fertilizing experiments with hop. (Hu) Magyar Mezogazdasag 22(48):9-10. Nov.29,1967. 19 M27
- 71073 MEZ, E. The ABC of fertilizers. (It) G. Agr. 78(2):19-20. Jan.14,1968. 16 It1G  
For fruit.
- 71074 MIKHAILICHENKO, B. P. Effects of minor elements on yields and botanical composition of cultivated pasture. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 131:285-290. 1967. 20 M857
- 71075 MILES, I. E. There's a solution—look both ways. Agr. Nitrogen News 17(6):105. Nov./Dec.1967. 381 Ag82  
Fertilizer application.
- 71076 MILLER, E. V. The need for fertilizers. In Turk, K. L., and Crowder, L. V., ed. Rural development in tropical Latin America, p.218-223. 1967. HD1857.T8
- 71077 NIELSEN, G. R. What's in it for me? Agr. Nitrogen News 17(6):86. Nov./Dec.1967. 381 Ag82  
Fall application of anhydrous ammonia.
- 71078 NOVOBYTOV, A. A. Use of aircraft in fertilizing of forests. (Rus) Les. Khoz. 12:78. Dec. 1967. 99.8 L5622  
In Scandinavia.
- 71079 NYBORG, M. Sulfur deficiency in cereal grains. Can. J. Soil Sci. 48(1):37-41. Ref. Feb.1968. 56.8 C162  
Effects of fertilizing on grain yields.
- 71080 PETERBURSKII, A. V. Proper application of fertilizers. (Rus) Sakharn. Svekla 12:14-17. Dec.1967. 66.8 Su393  
Sugar beets.
- 71081 POWER, J. F. What happens to fertilizer nitrogen in the soil? J. Soil Water Conserv. 23(1):10-12. Jan./Feb.1968. 56.8 J822
- 71082 QURESHI, I. M., KAUL, O. N., and SRIVASTAVA, P. B. L. Nutrient requirements of some *Casuarina equisetifolia* plantations in Maharashtra and Gujarat. Indian Forest. 93 (10):687-690. Ref. Oct.1967. 99.8 In2  
Leaf analysis and mineral fertilizing effect.
- 71083 RANDHAWA, A. S., ANAND, S. C., and MINHAS, A. S. Effect of time of application of nitrogen on wheat yield in the submontane region of Punjab. Punjab Agr. Univ. J. Res. 4(2): 185-187. Ref. June 1967. S19.P8
- 71084 RASMUSSEN, E. Increasing quantities of calcium nitrate for tulips 1959 to 1965. (Da) Tidsskr. Planteavl 71(3):338-344. 1967. 11 T439  
English summary.
- 71085 RASULOV, A. R., and KARIMOVA, M. K. Characteristics of the soils in the Karshi Steppe [Karshinskaya Step']. (Rus) Khlopkovodstvo 11:35-37. 1967. 72.8 K522  
Fertility of the cotton soils.
- 71086 REITH, J. W. S. Effects of soil magnesium levels and of magnesium dressings on crop yield and composition. Great Brit. Min. Agr. Fish. Food. Tech. Bull. 14:97-109. Ref. 1967. 10 G79T  
Field crops and vegetables in Scotland.
- 71087 RUBIN, S. S. Applying fertilizers in the Ukraine. (Rus) Sadovodstvo [Moscow] 11:20-22. 1967. 80 Sa13  
Research programs on fruit fertilization.
- 71088 RUDOLPH, W. On calcium nitrogen. (Ge) Chem. Tech. Landwirt. 19(2):46. Feb.1968. 384 C4292  
Fertilizer.
- 71089 RUSSELL, J. Cereals and soil fertility. Tasmanian J. Agr. 38(4):305-308. Nov.1967. 23 T182T  
Fertilizer requirements.
- 71090 SAOLAPURKAR, V. K. Fertilisers; the major way to successful farming in West Germany. Fert. News 12(10):31-35. Oct.1967. 57.8 F4123
- 71091 SAVITSKAYA, V. A. Applying nitrogen fertilizers to the pastures in some foreign countries. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 131:301-305. 1967. 20 M857  
European.
- 71092 SHAIMUKHAMETOV, M. SH., and SHAIMUKHAMETOVA, A. A. Effect of prolonged application of fertilizers on composition of mineral phosphates in soddy-podzolic soils. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 131:155-161. 1967. 20 M857
- 71093 SHCHERBAKOV, V. Important practices of increasing yields. (Rus) Kartofel' Ovoshchi 12: 31. Dec.1967. 75.8 K147  
Fertilization and irrigation of watermelons.
- 71094 SIMPSON, D. Midwest trend: more N in the fall. Agr. Nitrogen News 17(6):100. Nov./Dec. 1967. 381 Ag82  
Nitrogen application.
- 71095 SINGH, A. Long-term effects of green manures in subtropics. Indian J. Agr. Sci. 37(4): 226-233. Ref. Aug.1967. 22 Ag83I
- 71096 SINGH, H. N., GARG, D. N., and SHUKLA, V. P. Response of improved Indian wheats to nitrogen. Fert. News 12(10):11-13. Oct.1967. 57.8 F4123
- 71097 SKOGLEY, C. R., and LEDEBOER, F. B. Evaluation of several Kentucky bluegrass [*Poa pratensis* L.] and red fescue strains [*Festuca rubra* L.] maintained as lawn turf under three levels of fertility. Agron. J. 60(1):47-49. Jan./Feb.1968. 4 Am34P

- 71098 SLABONSKI, A., PIECH, M., and MALCHE-REK, M. The effect of nitrogen fertiliser application and seeding rates on yield and grain quality of five winter wheat varieties and of tetraploid rye. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:213-216. 1966, pub. 1967. 20.5 St4  
English summary.
- 71099 STAHLIN, A., and SKIRDE, W. The effect of Floranid on grassland and fodder grasses. I-II. (Ge) Z. Acker-Pflanzenbau 126(4):301-328. Ref. Dec. 1967. 18 J825  
English summary.  
I, Experiments on grassland; II, Experiments on fodder grasses.  
Nitrogen fertilizer.
- 71100 STAHLIN, A. The effect of various forms of phosphate on permanent grassland. (Ge) Z. Acker-Pflanzenbau 127(1):69-84. Ref. Jan. 1968. 18 J825  
English summary.
- 71101 STROEHLEIN, J. L., OGDEN, P. R., and BILLY, B. Time of fertilizer application on desert grasslands. J. Range Manage. 21(2):86-89. Ref. Mar. 1968. 60.18 J82  
Includes relation to soil moisture.
- 71102 SULLIVAN, L. J. There's profit in fall application. Agr. Nitrogen News 17(6):102. Nov./Dec. 1967. 381 Ag82  
Nitrogen.
- 71103 TAG, P. Foliar application of nutrients. Kenya Coffee 32(381):367,369,371,373. Ref. Oct. 1967. 68.29 C652
- 71104 TAKAHASHI, D. T. Fate of applied fertilizer nitrogen as determined by the use of  $N^{15}$ . I. Summer and fall plant and ratoon crops on the Hamakua Coast of Hawaii. Hawaii. Planters' Rec. 57(3):237-266. Ref. July 1967. 25 H311  
Sugarcane.
- 71105 THOMAS, G. W. Cotton fertilization: present and future yields. Com. Fert. Plant Food Indus. 115(4):43. Oct. 1967. 57.8 C73
- 71106 TOLOKONNIKOV, V. B. From foreign experience on application of mineral fertilizers in forests. (Rus) Les. Khoz. 12:75-77. Dec. 1967. 99.8 L5622
- 71107 TONKAL', E. A., and others. Fertilization system in sugar beet crop rotation. (Rus) Sakhar. Svekla 1:37-39. Jan. 1968. 66.8 Su393  
E. N. Alekseeva, S. T. Ligum, T. S. Zubchenko, and E. N. Tregub, joint authors.
- 71108 TSENG, Y. L., and WANG, C. H. Study on the behavior of urea in soils. (Ch) Taiwan Agr. Res. J. 16(1):58-68. Ref. Mar. 1967. 22.5 Ag823  
English summary.
- 71109 TYAPKIN, V. A. Contribution to the study of soil fertility. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 128:193-199. 1967. 20 M857
- 71110 USMANOV, YU. A. Ashin phosphate rock and its effectiveness in rotation of crops. (Rus) Khim. Sel'skom Khoz. 7:16-19. July 1967. 385 K524  
Field crops.
- 71111 WAGNER, R. E. Make things happen with NPK. Hoard's Dairymen 113(5):274,329. Mar. 10, 1968. 44.8 H65  
Forage plants.
- 71112 WALTERS, E. Analysis of partially confounded mixed factorial designs. Malaysian Agr. J. 46(2):217-229. July 1967. 22.5 F312  
In fertilizer research.
- 71113 WHITLOCK, R. The price of high yields. Agr. Merchant 48(2):7,11,15. Feb. 1968. 10 Ag89  
Fertilizers for grain, peas, and beans in Great Britain.
- 71114 YAMANE, I., SATO, K., and SHOJI, T. Pasture establishment by the topdressing and oversowing method in the mountain grassland. 4. Lime-phosphorus relationships with and without plowing. (Ja) Tohoku Univ. Inst. Agr. Res. Bull. 19(1):1-16. Ref. Oct. 1967. 107.6 T577  
English summary.
- 71115 YUSHKEVICH, I. A. Organic matter of lupine as nutritive source for plants. (Rus) Vses. Bot. Obshch. Belorussk. Otd. Sb. Bot. Rabot 9:139-144. 1967. 451 V967  
As green manure in forest plantations.
- 71116 ZALYALOV, F. K. Effect of different fertilization methods on the field crops cultivated without rotation. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 131:163-169. 1967. 20 M857

### Soil Tilth and Tillage

- 71117 BARAEV, A. New methods of soil cultivation in the eastern districts. (Rus) Zemledelie (11):16-21. Nov. 1967. 20 Z44  
Grain culture.
- 71118 BOHLE, H. Chemical renewal of grassland-grassland improvement without breaking up of the soil. (Ge) Ubersicht 19(3):188-192. Mar. 9, 1968. 18 Ub3  
Minimum tillage with herbicides compared with other methods.
- 71119 BOWERS, W. Minimum tillage has many advantages. Hoard's Dairymen 113(4):195,202. Feb. 25, 1968. 44.8 H65
- 71120 DALLEINNE, E. Interest of the plowing championships. (Fr) Coop. Agr. [Paris] 14(165):29-31. Oct. 1967. 280.28 C78972
- 71121 DEW, D. A. Effect of summerfallow tillage on soil physical properties and yield of wheat. Can. J. Soil Sci. 48(1):21-26. Ref. Feb. 1968. 56.8 C162
- 71122 DZHURAEV, N. Cultivating soil in Bukhara, before planting. (Rus) Khlopkovodstvo 12:11-13. Dec. 1967. 72.8 K522  
Plowing of cotton soils.
- 71123 FRANSSSEN, C. A. M. Use of crop residues. (Du) Landbouwkundig Tijdschr. 79(11):385. Nov. 1967. 105.2 Or3  
Stubble-mulch tillage.
- 71124 HERMANN, R. K. Paper mulch helps ponderosa pine seedlings get started on dry sites in Oregon. Tree Planters' Notes 18(4):14-15. Nov. 1967. 1.962 C5T71
- 71125 IRIZARRY, H., AZZAM, H., and WOODBURY, R. Evaluation of black polyethylene plastic mulch for tomato production in Puerto Rico. P. R. Univ. J. Agr. 52(1):53-63. Jan. 1968. 8 P832J
- 71126 KAISER, G. Effect of soil cultivation on rooting of grape. (Hu) Kertes. Szolesz. 16(19):8-9. Oct. 1967. 80 K474  
Subsoiling.
- 71127 KUZUYUTIN, A. V. Accumulation of organic matter under perennial grasses as affected by different methods of soil tillage. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 131:171-174. 1967. 20 M857
- 71128 MADAMINOV, R. The plowing depth and its effect on yields. (Rus) Khlopkovodstvo 11:30-31. 1967. 72.8 K522  
Cotton.
- 71129 PIPER, C. D. The influence of deep mixing a Kalamazoo sandy loam on several physical soil factors and corn root development and yield. Diss. Abstr., Sect. B, 28(6):2223B. Dec. 1967. Z5055.U49D53
- 71130 ROBISON, L. R., and FENSTER, C. R. Influence of tillage practices on safflower (*Carthamus tinctorius* L.) yields. Agron. J. 60(1):53-55. Jan./Feb. 1968. 4 Am34P
- 71131 SOKOLOV, V. N. Rolling—An important practice in soil preparation. (Rus) Khlopkovodstvo 11:32. 1967. 72.8 K522
- 71132 WALKER, R. D., and BOWERS, W. Higher yields, better conservation through Illinois Extension minimum tillage program. Ext. Serv. Rev. 38(11):4-5. Nov. 1967. 1 Ex892Ex
- 71133 YAROVENKO, V. Soil tillage in the flood plain. (Rus) Zemledelie 2:11-13. Feb. 1968. 20 Z44
- 71134 ZAITSEV, V. S., and KADYMOV, O. M. To the problem of using cotton stems as stubble-mulch for cotton. (Rus) Khlopkovodstvo 11:33-34. 1967. 72.8 K522



Drainage, Irrigation, Water Supply, and Flood Control

- 71135 ABDUEV, M. R. Meliorative reclamation of the salty soils in the Mili Steppe. (Rus) *Khlopkovodstvo* 11:46-47. 1967. 72.8 K522 Includes drainage.
- 71136 BORCHENKO, V. I., and SID'KO, A. A. Problems of the soil desalinization in the Golodnaya Step. (Rus) *Khlopkovodstvo* 11:41-43. 1967. 72.8 K522 Cotton soils.
- 71137 BOTZAN, M. Notes on irrigation in Israel and Greece. (Rum) *Stiint. Solului* 5(2):183-188. 1967. 56.8 St5
- 71138 BRIGGS, G. F. What the design engineer should know about ground water terminology. *Air Cond. Heating Ventilating* 64(8):41-47, map. Aug. 1967. 291.8 H35
- 71139 BROUER, B. Automatic depth regulation on drainage machinery. (Ge) *Lohnunternehmen Land- Forstwirtschaft*. 22(11):258, 260-262. Nov. 15, 1967. 58.8 D81
- 71140 CROSS, P. E. Fen peats, their future. *Great Brit. Min. Agr. Fish. Food. Agr.* 74(10):471-475, map. Oct. 1967. 10 G79J Reclamation.
- 71141 DESMAREST, J. Irrigation trial in a young industrial palm grove. (Fr) *Oleagineux* 22(7):441-447. July 1967. 77.7 OL2 English summary. Spraying, Ivory Coast.
- 71142 DE'STEFANI, A. Integral land reclamation placed among the functions of the state. (It) *G. Agr.* 78(5):49-50. Feb. 4, 1968. 16 It1G
- 71143 DYNOWSKA, I. Certain hydrographic problems of Hungary. (Pol) *Czasopismo Geogr.* 38(2):161-174, map. Ref. 1967. 331.8 C99 English summary.
- 71144 DZHAFAROV, KH. F. Leaching salty soils under combinative drainage conditions. (Rus) *Khlopkovodstvo* 12:35-38. Dec. 1967. 72.8 K522
- 71145 FRASIER, G. W., and MYERS, L. E. Stable alkanol dispersion to reduce evaporation. *Amer. Soc. Civil Eng. J.* 94(IR1, proc. paper 5849):79-89. Ref. Mar. 1968. 290.9 Am3Ps From water surfaces.
- 71146 FRITSCHEN, L. J., and NIXON, P. R. Microclimate before and after irrigation. In Shaw, R. H., ed. *Ground level climatology*, p.351-366. Ref. 1967. QC981.S5
- 71147 GOPALAKRISHNAN, C. The economics of water transfer: an institutional appraisal (With special reference to Montana). *Diss. Abstr.*, Sect. A, 28(5):1586A. Nov. 1967. Z5055.U49D5
- 71148 GUSEINOV, G. M. The laboratory study of the desalinization effect of the horizontal drainage. (Rus) *Vestnik Sel'skokhoz. Nauk.* [Moscow] 12:105-109. Ref. 1967. 20 V633 English summary.
- 71149 HAMDI, H., METWALLY, S. EL DIN, and GUINDI, B. Hydraulic conductivity and certain soil characteristics of subsoils with special reference to drainage design in the alluvial soils of U.A.R. *J. Soil Sci. United Arab Republ.* 8(1):51-72. Ref. 1968. 56.8 J825
- 71150 HART, R. A. DE J. The waters of Wales. *Mother Earth* 14(8):509-513. Oct. 1967. 56.8 M85
- 71151 HARTMAN, M. A. Upstream flood control effects on river basin hydrology. (Condensed) *Agr. Eng.* 49(2):80-81. Feb. 1968. 58.8 Ag83
- 71152 HAY, R. Is watering necessary? *Amateur Gard. Annu.* 1968:77, 79, 81. 80 Am12 Irrigation for lawns and ornamentals.
- 71153 HURLEY, P. A. Predicting return flows from irrigation. *Amer. Soc. Civil Eng. J.* 94(IR1, proc. paper 5838):41-48. Mar. 1968. 290.9 Am3Ps
- 71154 JACKSON, E. B., and TILT, P. A. Effects of irrigation intensity and nitrogen level on the performance of eight varieties of upland cotton, *Gossypium hirsutum* L. *Agron. J.* 60(1):13-17. Ref. Jan./Feb. 1968. 4 Am34P Yields.
- 71155 KLAPOWIE, M., and KLAPOWIE, M. Preliminary results on the evaporation and melting of snow in the Tatras. (Pol) *Czasopismo Geogr.* 38(2):183-192. Ref. 1967. 331.8 C99 English summary.
- 71156 KOVACS, J. Preparation of irrigation installations for winter storage. (Hu) *Magyar Mezőgazdaság* 22(48):11. Nov. 29, 1967. 19 M27
- 71157 LAURITZEN, C. W. Rain traps of steel. *Utah Sci.* 28(3):79-81. Sept. 1967. 100 Ut1F
- 71158 LEWTHWAITE, J. R. Overhead sprinklers irrigate, spray and fertilise raspberries. *New Zeal. J. Agr.* 115(3):121, 123. Sept. 1967. 23 N48J
- 71159 MANSON, P. W. Major floods and agriculture. *Minn. Sci.* 23(4):26. July 1967. 100 M668
- 71160 MATTHEWS, C. D. The irrigation of orchards. *Tasmanian J. Agr.* 38(4):246-254. Nov. 1967. 23 T182T Apples and pears.
- 71161 MEIER, W. L. Optimal planning of nonserial multistage water resource systems. *Diss. Abstr.*, Sect. B, 28(5):1900B. Nov. 1967. Z5055.U49D53
- 71162 MIGUNOVA, E. S. Possible use of salinized soil in southern Ukraine for afforestation. (Rus) *Pochvovedenie* 12:113-124. Ref. Dec. 1967. 57.8 P34 English summary.
- 71163 MOROZOV, V. Reclamation of the peat bogs covered with brush. (Rus) *Zemledelie* 2:6-8. Feb. 1968. 20 Z44
- 71164 NEW SOUTH WALES. WATER CONSERVATION AND IRRIGATION COMMISSION. Water resources of the Shoalhaven Valley. n.p., 1967. 179 p., map. (Report No. 8) HD1698.N4N4
- 71165 NIKOL'SKII, YU. N. Study of the dynamics of moisture in soil as a result of the flood irrigation. (Rus) *Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina. Dokl.* 8:38-41. Aug. 1967. 20 Ak1
- 71166 PANOV, N. P., KOKURINA, E. I., and AZNABEKOV, T. A. Solonetz soils and their reclamation in Irtysh region. (Rus) *Timiryazevskaya Sel'skokhoz. Akad. Izv.* 6:126-135. Ref. 1967. 106 P44 English summary.
- 71167 PAPADOPOULOS, G. T., and LAGUROS, J. G. Programming for Pavlovsky's ground-water problem. *Amer. Soc. Civil Eng. J.* 94(IR1, proc. paper 5840):49-56. Mar. 1968. 290.9 Am3Ps
- 71168 PECKHAM, R. C. Role of ground water in Texas water plan. *Amer. Soc. Civil Eng. J.* 94 (IR1, proc. paper 5874):137-152, map. Mar. 1968. 290.9 Am3Ps
- 71169 PEREZ ESPINOSA, M. A step further of C. W. Thornthwaite towards a rational classification of climate. (Sp) *Ingenieria Hidraul. Mex. Rev.* 21(3):174-196. 1967. 290.8 In43 English summary, p.161-162. Includes evapotranspiration.
- 71170 PRASAD, R., and GUPTA, R. N. Quality of irrigation waters of Unnao district of Uttar Pradesh. *Indian J. Agr. Sci.* 37(4):234-241. Ref. Aug. 1967. 22 Ag83I
- 71171 PRESNYAKOV, P. V. More attention to the irrigated sugar beet growing. (Rus) *Sakharn. Svekla* 12:1-3. Dec. 1967. 66.8 Su393
- 71172 REDKIN, V. K., DUKOR, N. E., and KERZUM, P. P. Resources for the irrigated farming in the Tadzhikistan. (Rus) *Khlopkovodstvo* 11:39-40. 1967. 72.8 K522
- 71173 ROGERS, C. Thoughts on land drainage. *Mother Earth* 14(8):531-535. Oct. 1967. 56.8 M85
- 71174 SAKKAS, J. G., and HART, W. E. Irrigating with cut-back furrow streams. *Amer. Soc. Civil Eng. J.* 94(IR1, proc. paper 5852):91-96. Mar. 1968. 290.9 Am3Ps

- 71175 SALLAM, A. W. M. H. Leaching and reclamation equations for saline soils. Diss. Abstr., Sect. B, 28(3):882B-883B. Sept. 1967. Z5055.U49D53
- 71176 SANDU, G., and RUDZIC, N. Mineralization of ground water in the Danube flood plain, in the sector between Mostistea and Ialomita. (Rum) Stiint. Solului 5(2):107-116. Ref. 1967. 56.8 St5  
English summary.
- 71177 SCHIE, J. J. VAN. What is wrong with greenhouse irrigation installations? (Du) Groenten Fruit 23(17):741. Nov. 1, 1967. 80 G89
- 71178 SEARS, G., ELLIOT, K., and BESTER, J. Groundnuts irrigation scheme may initiate bumper crop. Rhodesian Tobacco J. 19(11):41, 43. Nov. 1967. 69.8 R34
- 71179 SHAHI, H. N. A look at border irrigation. World Farming 10(3):14-15. Mar. 1968. 30.08 W89
- 71180 SINGH, U. S., and SINGH, L. Enhancing cane yield under late plantings by adjustment in irrigation practices. Indian Sugar [Calcutta] 17(6):475-476, 479-481. Sept. 1967. 65.8 In26
- 71181 SJOBERG, S. Deformation of plastic pipes in drainage ditches. (Sw) Grundforbättring 20(1):41-47. 1967. 54.8 G92
- 71182 SKOROPANOV, S. G. Some results of peat bog soil reclamation. (Rus) Pochvovedenie 1:3-9. 1968. 57.8 P34  
English summary.
- 71183 SOKOLOSki, A. A. Welfare and institutional economics as tools in the analysis of an area water resource management problem. Diss. Abstr., Sect. A, 28(3):856A. Sept. 1967. Z5055.U49D5
- 71184 SOKOLOVSKAYA, T. F. Determination of the most proper regime for irrigation of cotton, on leached soils with the shallow drainage system in the Golodnaya Step. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 131:181-184. 1967. 20 M857
- 71185 STEWART, B. A., VIETS, F. G., and HUTCHINSON, G. L. Agriculture's effect on nitrate pollution of groundwater. J. Soil Water Conserv. 23(1):13-15. Jan./Feb. 1968. 56.8 J822
- 71186 SUNKEL, R. The effects of ground-water withdrawal in the area of the source of the Ems River. (Ge) Z. Kulturtech. Flurbereinigung 8(4):223-234, map. July/Aug. 1967. S605.A1Z4  
English summary.
- 71187 SURIKOVA, T. I. Application of vertical drainage on irrigated soils. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 12:63-71. 1967. 20 V633  
Desalination.
- 71188 TAIGANIDES, E. P. Farm-waste management in Europe and India. Agr. Eng. 48(12):710-713. Dec. 1967. 58.8 Ag83  
Includes use of waste water for irrigation and composting of manure and garbage.
- 71189 TILL, M. R. The relation between application and penetration of water into sandy soils. Australian J. Exp. Agr. Anim. Husb. 7(27):383-384. Aug. 1967. 23 Au792  
Irrigation.
- 71190 TRAPEZNIKOV, F. F., and KRASNOV, F. G. Effectiveness of soil leaching in the Murgab oasis. (Rus) Khlopkovodstvo 11:43-45. 1967. 72.8 K522  
Cotton soils.
- 71191 TWINCH, R. H., and ORRETT, R. J. M. The story of Bagots Park. Great Brit. Min. Agr. Fish. Food. Agr. 74(8):358-362. Aug. 1967. 10 G79J  
Reclamation project.
- 71192 UMAROV, KH. Improving effectiveness of soil drainage in the virgin land of the Central Fergana. (Rus) Khlopkovodstvo 12:32-35. Dec. 1967. 72.8 K522
- 71193 VALENTINI, L. A., and AVERBUKH, R. M. Underground irrigation system with plastic pipes. (Rus) Khlopkovodstvo 12:30-32. Dec. 1967. 72.8 K522
- 71194 VARLAMOV, N. E. Leveling soils for irrigation. (Rus) Pochvovedenie 1:98-101. 1968. 57.8 P34
- 71195 VYNCHRADOV, V. M. Reclamation of sand dunes in the lower part of the Dnieper River. (Uk) Visn. Sil's'kohospod. Nauk. 1:74-80. Jan. 1968. 20 V82  
Russian summary.
- 71196 WOLKEWITZ, H., and FESTER, J. Agricultural problems in Tunisia. (Ge) Z. Kulturtech. Flurbereinigung 8(4):235-243, map. July/Aug. 1967. S605.A1Z4  
English summary.  
Chiefly irrigation and water supply.
- 71197 YANG, T. S. Effects of time of irrigation on yield and quality of Turkish tobacco. (Ch) Formosa. Tob. Res. Inst. Taiwan Tob. Wine Monop. Bur. Annu. Rep. 1967:108-110. 69.9 F76  
English summary.

### Erosion and Erosion Control

- 71198 BISAL, F. Influence of plant residue on sand flow in a wind tunnel. Can. J. Soil Sci. 48(1):49-52. Feb. 1968. 56.8 C162
- 71199 BURWELL, R. E., and HOLT, R. F. Soil and water losses from Barnes soil in west-central Minnesota. Minn. Sci. 23(4):10-12. July 1967. 100 M668
- 71200 DESTLER, I. M. Ecological imbalance; man's pressure on the land. Int. Agr. Develop. 40:17-20. Feb. 1968. aS544.A316  
Chiefly soil erosion.
- 71201 DOUGLAS, I. Man, vegetation and the sediment yields of rivers. Nature 215(5104):925-928. Ref. Aug. 26, 1967. 472 N21  
With reference to the determination of erosion rates in Australia.
- 71202 DUCK, T. Damaging effect of soil erosion in Brown Forest soil. (Hu) Agrartud. Kozlem. 26(3/4):505-512. 1967. 19 B855
- 71203 FEKETE, Z. Soil protection in horticulture. (Hu) Agrartud. Kozlem. 26(3/4):475-482. 1967. 19 B855  
Erosion control and terracing in fruit and grape culture.
- 71204 GUPTA, S. K., and BABU, R. Rainfall erosion index of Dehra Dun. Indian Forest. 93(10):734-738. Ref. Oct. 1967. 99.8 In2
- 71205 HEDE, B. H. Gully development and control in the Rocky Mountains of Colorado. Diss. Abstr., Sect. B, 28(5):1746B-1747B. Nov. 1967. Z5055.U49D53
- 71206 MOOREFIELD, J. G. Conservation in Tunisia a better way of life. Soil Conserv. 33(8):192. Mar. 1968. 1.6 So3S  
Soil conservation.
- 71207 PATRIC, J. H., and SWANSTON, D. N. Hydrology of a slide-prone glacial till soil in southeast Asia. J. Forest. 66(1):62-66. Jan. 1968. 99.8 F768
- 71208 POLUBEN, G. Grass planting as factor in soil erosion control. (Rus) Zemledelie 1:45. Jan. 1968. 20 Z44
- 71209 RADLEY, J. Wind erosion in east Yorkshire. Nature 216(5110):20-22. Oct. 7, 1967. 472 N21
- 71210 STEFANOVITS, P. Situation in soil erosion and soil protection research. (Hu) Agrartud. Kozlem. 26(3/4):471-474. 1967. 19 B855
- 71211 UJVARI, F. The effect of forest on soil erosion. (Hu) Agrartud. Kozlem. 26(3/4):301-305. 1967. 19 B855  
German summary.  
Controlling effect.

### Sanitation

- 71212 JOHNSON, D. E., and LEAR, B. Evaluating the movement of 1,2-dibromo-3-chloropropane through soil. Soil Sci. 105(1):31-35. Jan. 1968. 56.8 So3
- 71213 KNIGHT, B. A. G., and TOMLINSON, T. E. The interaction of paraquat (1:1'dimethyl 4:4-dipyridylum dichloride) with mineral soils. J. Soil Sci. 18(2):233-243. Ref. Sept. 1967. 56.8 J823  
Includes phytotoxicity to wheat.



## MATERIALS FOR SOIL IMPROVEMENT

## Chemical Fertilizers

- 71214 GEURTS, J. J., VAN STELLE, J. E., and BRINKMAN, E. G. Determination of biuret in urea and mixed fertilizers. *Anal. Chim. Acta* 41(1):113-120. Apr. 1968. 381 Anl
- 71215 KARS, F. A. Some technological advances in nitrogenous fertiliser production leading to reduced costs—urea plant. *Seminar Cost Finan. Fert. Proj. India. Proc.* 1966:145-155. 1967. HD9483.S4 1966
- 71216 MORARJI, D. R. Complex fertiliser production based on imported liquid ammonia. *Seminar Cost Finan. Fert. Proj. India. Proc.* 1966:231-237. 1967. HD9483.S4 1966
- 71217 QUINN, J. Research workers look to Christmas Island for future fertiliser. *New Zeal. J. Agr.* 115(6):34-35,37,39. Dec. 1967. 23 N48J  
Phosphate.
- 71218 VIJAYARAGHAVAN, M. D. Phosphoric acid and phosphatic fertiliser plants from maximum Indian engineering and manufacture. *Seminar Cost Finan. Fert. Proj. India. Proc.* 1966:195-207. 1967. HD9483.S4 1966
- Fertilizer Technology and Statistics**
- 71219 AGRICULTURAL NITROGEN NEWS. Things are on the up and up; some interesting fertilizer statistics; 1966-67 compared with 1965-66. *Agr. Nitrogen News* 18(1):65-72, map. Jan./Feb. 1968. 381 Ag82  
Chiefly consumption.
- 71220 BANTHIEN, H. Rationalisation of NP- and NPK- fertiliser manufacture in India. *Seminar Cost Finan. Fert. Proj. India. Proc.* 1966:188-194. 1967. HD9483.S4 1966
- 71221 CHAKRABARTY, M. K. A study of the problems of financing fertiliser projects in India. *Seminar Cost Finan. Fert. Proj. India. Proc.* 1966:285-292. 1967. HD9483.S4 1966  
Costs, capital, and credit.
- 71222 COMMONWEALTH BUR. OF SOILS. Bibliography on fertilizer granulation: effect on efficiency and application (1967-1957). *Commonwealth Bur. Soils [Annot. Bibliogr.]* 1171, 11 p. 1967. 241 C734A
- 71223 DALAL, B. C. Logistics management. *Seminar Cost Finan. Fert. Proj. India. Proc.* 1966:273-281. 1967. HD9483.S4 1966  
Fertilizer marketing in India.
- 71224 DIJKSMAN, D. J., and YOUNG, R. J. Cost reduction of ammonia through the steam reforming process. *Seminar Cost Finan. Fert. Proj. India. Proc.* 1966:111-126. 1967. HD9483.S4 1966
- 71225 ENGEL, R. Maintenance: what, when, where, & how. *Agr. Nitrogen News* 17(6):14-15. Nov./Dec. 1967. 381 Ag82  
Ammonia containers.
- 71226 FISHER, C. C. Capital sources for fertiliser plant construction. *Seminar Cost Finan. Fert. Proj. India. Proc.* 1966:324-334. 1967. HD9483.S4 1966
- 71227 GHOSH, O. K. Problems of financing fertiliser projects in the public sector. *Seminar Cost Finan. Fert. Proj. India. Proc.* 1966:293-302. 1967. HD9483.S4 1966  
Investments and credit; includes discussion of the industry as a whole.
- 71228 HARMANIAK, I. Trends in the development of the manufacture of mineral fertilizers in Czechoslovakia. (Cz) *Agrochemia [Bratislava]* 7(10):289-292. Oct. 1967. 385 Ag33  
English summary.
- 71229 HEKMAN, E. E. Some technological advances in nitrogenous fertiliser production leading to reduced costs. *Seminar Cost Finan. Fert. Proj. India. Proc.* 1966:105-110. 1967. HD9483.S4 1966

- 71230 HELLER, J. R. The riskless investment: the A.I.D. extended risk guarantee. *Seminar Cost Fert. Proj. India. Proc.* 1966:335-337. 1967. HD9483.S4 1966  
For fertilizer industry development.
- 71231 JAPAN CONSULTING INSTITUTE, TOKYO. Recent situation of the chemical fertiliser industry of Japan. *Seminar Cost Finan. Fert. Proj. India. Proc.* 1966:350-358. 1967. HD9483.S4 1966
- 71232 KASTURIRANGAN, V. N. A review of the fertiliser situation in India. *Seminar Cost Finan. Fert. Proj. India. Proc.* 1966:359-362. 1967. HD9483.S4 1966
- 71233 KELSO, T. M., STUMPE, J. J., and WILLIAMSON, P. C. Production of ammonium polyphosphate from superphosphoric acid. *Com. Fert. Plant Food Indus.* 116(3):10-12, 14-16. Mar. 1968. 57.8 C73
- 71234 KHARBANDA, O. P. Indigenous fabrication of fertiliser plants. *Seminar Cost Finan. Fert. Proj. India. Proc.* 1966:169-177. 1967. HD9483.S4 1966  
India.
- 71235 KIMURA, S. Cost reduction in urea production. *Seminar Cost Finan. Fert. Proj. India. Proc.* 1966:127-135. 1967. HD9483.S4 1966
- 71236 KREKELS, J. T. C. Some technological advances in production nitric acid. *Seminar Cost Finan. Fert. Proj. India. Proc.* 1966:156-159. 1967. HD9483.S4 1966  
Fertilizer.
- 71237 LARSON, A. L. Some considerations in fertiliser marketing. *Seminar Cost Finan. Fert. Proj. India. Proc.* 1966:259-266. 1967. HD9483.S4 1966
- 71238 LE DINH, P. H. Gas scrubbers and their use in the fertilizer industry. (Fr) *Chim. Indus. [Paris]* 98(3):349-360. Sept. 1967. 383 C42  
English summary.
- 71239 LYSTER, N. P. Fertiliser and distribution concepts. *Seminar Cost Finan. Fert. Proj. India. Proc.* 1966:241-250. 1967. HD9483.S4 1966  
In the United States.
- 71240 LYSTER, N. P. World fertiliser trends. *Seminar Cost Finan. Fert. Proj. India. Proc.* 1966:341-349. 1967. HD9483.S4 1966
- 71241 MANNE, A. S. Size location and time-phasing for the nitrogenous fertiliser industry. *Seminar Cost Finan. Fert. Proj. India. Proc.* 1966:94-104, map. 1967. HD9483.S4 1966
- 71242 MEXICO, DIRECCION GENERAL DE DISTRICTOS DE RIEGO. El uso de fertilizantes en los Distritos de Riego en el ciclo agrícola 1965-1966 [The use of fertilizers in the Irrigation Districts in the agricultural year 1965-1966]. Mexico, 1967. 186 p. (Its Informe Estadístico No. 34) S633.M4  
Chiefly statistical tables.
- 71243 MITCHELL, W. H. Cost on fertiliser distribution. *Seminar Cost Finan. Fert. Proj. India. Proc.* 1966:251-258. 1967. HD9483.S4 1966  
In the United States.
- 71244 MORARJI, P. R. Certain aspects of cost reduction and financing with respect to manufacture of triple superphosphate. *Seminar Cost Finan. Fert. Proj. India. Proc.* 1966:183-187. 1967. HD9483.S4 1966
- 71245 MUKHERJEE, S. K. Cost reduction in engineering and field costs. *Seminar Cost Finan. Fert. Proj. India. Proc.* 1966:71-76. 1967. HD9483.S4 1966  
Fertilizer technology.
- 71246 PARIKH, H. B. Aspects of foreign assistance. *Seminar Cost Finan. Fert. Proj. India. Proc.* 1966:316-323. 1967. HD9483.S4 1966  
In developing the fertilizer industry; includes investments and credit.
- 71247 POTHEN, P. Reducing costs through increased productivity. *Seminar Cost Finan. Fert. Proj. India. Proc.* 1966:77-83. 1967. HD9483.S4 1966

- 71249 ROBINSON, L. F., and ORR, G. W. M. Cost reduction through technical collaboration on fertiliser plant design. Seminar Cost Finan. Fert. Proj. India. Proc. 1966:84-93. 1967. HD9483.S4 1966
- 71249 ROSE, K. E., and HARDY, R. G. Recovery of phosphate from the Cabaniss and Pleasanton shales of Kansas. Kans. State. Geol. Surv. Bull. 187(4), 12 p., map. Sept. 1967. 406 K13B
- 71250 SAHAI, C. Developments in fertiliser production in India. Fert. News 12(10):36-40. Oct. 1967. 57.8 F4123
- 71251 SAUCHELLI, V. Some recent advances in fertiliser technology. Seminar Cost Finan. Fert. Proj. India. Proc. 1966:24-39. 1967. HD9483.S4 1966
- 71252 SEMINAR ON COST AND FINANCING OF FERTILISER PROJECTS IN INDIA, NEW DELHI, 1966. Proceedings. New Delhi, Fertiliser Association of India, 1967. 412 p., map. Ref. HD9483.S4 1966
- 71253 SMITH, A. M. Outline for fertilizer market analysis. Com. Fert. Plant Food Indus. 115(4):30,32. Oct. 1967. 57.8 C73
- 71254 STEPAN, M. Concept of the material technical basis in the application of mineral fertilizers. (Cz) Ekon. Zemedelstvi 6(10):297-299. 1967. 281.8 Ek7
- 71255 SUBRAMANIAN, M. Some aspects of fertiliser distribution. Seminar Cost Finan. Fert. Proj. India. Proc. 1966:267-272. 1967. HD9483.S4 1966
- 71256 TRUETT, D. B. Sulfur and the development of a chemical fertilizer industry in Mexico. Diss. Abstr., Sect. A. 28(6):1962A. Dec. 1967. Z5C55.U49D5
- 71257 VENKATARAMAN, S. Cost reduction in a developing economy role of indigenous process design. Seminar Cost Finan. Fert. Proj. India. Proc. 1966:160-168. 1967. HD9483.S4 1966
- 71258 VERGHESE, M. C. Cost reduction through improved technology in fertiliser production. Seminar Cost Finan. Fert. Proj. India. Proc. 1966:52-70. Ref. 1967. HD9483.S4 1966
- 71259 VISWANATHAN, T. R. Reducing costs in urea manufacture. Seminar Cost Finan. Fert. Proj. India. Proc. 1966:136-144. 1967. HD9483.S4 1966
- 71260 WALSH, T., and MCDONNELL, P. M. Factors which influence optimum economic use of fertilizers. United Nations. ST/ECE/AGRI/26 (v.1):43-91, map. Ref. 1967? 281.9 Un39 Ireland.
- 71261 YOUNG, R. D. Implications of sulphur shortages and price to India's fertiliser programme. Seminar Cost Finan. Fert. Proj. India. Proc. 1966:208-228. Ref. 1967. HD9483.S4 1966
- 71262 ZAHEER, S. H., CHARI, K. S., and VENKATESHAM, Y. Possibilities of cost reduction in fertiliser industry. Seminar Cost Finan. Fert. Proj. India. Proc. 1966:43-51. Ref. 1967. HD9483.S4 1966

#### Manures and Composts

- 71263 MCCONNELL, E. R. How Bangkok handles its garbage. Org. Gard. Farming 15(3):84-89. Mar. 1968. 57.8 Or32  
Composting.
- 71264 NIKULIN, S., ZAITSEVA, A., and BAZUNOV, G. Peat-composts. (Rus) Kartofel' Ovoshchi 11:16-18. Nov. 1967. 75.8 K147  
Preparation.
- 71265 PINHO, A. F. S., and PEREIRA, C. P. Fertilizing effect of cacao cake. (Por) Turrialba 17(3):288-291. July/Sept. 1967. 8 T86  
English summary.
- 71266 THE SOLUTION to the poultry manure problem. 1-2. (It) G. Pollicoltori 17(6):60-64, 66-70, 72-93, 98, 100, 103, 105. June 1967. 47.8 G43  
Conversion to methane and use as fertilizer; includes reports by T. Favali, C. Soprani, A. Rigoni, G. De Stanchina, and V. Tranquillini.
- 71267 TRANINA, N. F., and VERESOVA, I. M. Study of microbiological processes during composting of sawdust. (Rus) Les. Zh. 2:18-21. 1967. 99.8 Iz8
- 71268 YANEV, D. More attention to utilization of manure. (Bu) Zhivotnovudstvo 21(11):39-44. Nov. 1967. 49 Z62



## MISCELLANEOUS

Publications of the U. S. Department of Agriculture, State Agricultural Experiment Stations, and State Agricultural Extension Services on home management, personnel, and other subjects not ordinarily covered in the Bibliography of Agriculture will be included in this list.

## GENERAL

- 71269 ADVANCES in applied microbiology. Volume 9, edited by W. W. Umbreit. New York, Academic Press, 1967. 300 p. 448.2 Uml
- 71270 AGRICULTURAL CHEMICALS. Ag Chem's 1967-68 buyer's guide. Agr. Chem. 22(9):85-116B. Sept.1967. 381 Ag8
- 71271 AMERICAN CHEMICAL SOCIETY. Abstracts of papers, 155th national meeting, San Francisco, California, March 31-April 5, 1968. Washington, D. C., 1968. various paging. 381 Am33Pa  
Includes papers dealing with agricultural and food chemistry.
- 71272 BAYERISCHES landwirtschaftliches Taschenbuch [Bavarian agricultural manual] 1968. Munchen, Bayerischer Landwirtschaftsverlag, 1967. 280 p. 18 B344
- 71273 CALENDARIO del payes [Almanac of the Catalan peasant], 1968. Barcelona, Instituto Agrícola Catalan de San Isidro, 1967. 107 p. 15 C12
- 71274 CHEMICAL WEEK. Buyers' guide issue, chemicals, 1966. 101(16, pt.2), 552 p. Oct.14, 1967. 381 C426  
Agricultural chemicals included.
- 71275 COMMONWEALTH AGRICULTURAL BUR. EXECUTIVE COUNCIL. Thirty-eighth annual report, 1966-67; including reviews of progress in the agricultural sciences. London, 1968. 93 p. 10 Im72
- 71276 CRONIN, L. E. The role of man in estuarine processes. Conf. Estuaries. Papers 1964:667-689, map. 1967. QH91.A3C6 1964  
Includes residues of economic poisons.
- 71277 DECKER, B. Good information helps you manage your manpower. Feed Farm Supplier 41(9):56,57. Sept.1967. 47.8 H28  
In farm supply business.
- 71278 DIMOND, J. B. Pesticides and stream insects. Maine. Forest Serv. Bull. 23,21 p. Ref. 1967. 99.9 M282B
- 71279 DREW, J. Over two-thirds of dealers sell/service ag chemicals. Feed Farm Supplier 42(2): 46-48. Feb.1968. 47.8 H28  
Pesticides.
- 71280 DUNN, E. A current review of the use of insecticides in agriculture. Scot. Agr. 46(4):181-183. Autumn 1967. 10 Soc82So  
Determination of toxicity in Great Britain.
- 71281 EDWARDS, J. P. Coordination in wildlife conservation: Wildlife gets a break in watershed project. Soil Conserv. 33(8):171-172. Mar. 1968. 1.6 So3S  
North Carolina.
- 71282 FASMAN, G. D. Poly-alpha-amino acids, protein models for conformational studies. Biol. Macromol. 1,764 p. Ref. 1967. QH506.B5
- 71283 FINEAN, J. B., and ENGSTROM, A. Engstrom-Finean biological ultrastructure. Ed. 2. New York, Academic Press, 1967. 384 p. Ref. QH611.E5 1967
- 71284 GALLAGHER, P. J. Storage and retrieval of chemical structure data. Aslib Proc. 20(2): 107-117. Feb.1968. 243.8 As5  
Agricultural chemicals.
- 71285 GARDEN CLUB OF AMERICA. CONSERVATION COMMITTEE. Annual report, 1966-1967. New York, 1967? 39 p. 90.32 G1626
- 71286 GOUCK, H. K., TAYLOR, J. D., and BARNHART, C. S. Screening of repellents and rearing methods for water leeches. J. Econ. Entomol. 60(4):959-961. Aug.15,1967. 421 J822  
For the Armed Forces.
- 71287 HAGERS-Town town and country almanack. For the year of our Lord 1968. Hagerstown, Md., 1967. 56 p. 30.3 H12
- 71288 HAYDEN, J. F. Satellite tracking station makes bombing range into wildlife area. Soil Conserv. 33(8):176-177. Mar.1968. 1.6 So3S  
New Hampshire.
- 71289 HEEREN, E. The index of purchasing prices of agricultural supplies. (Ge) Statist. Monh. Schleswig-Holstein 20(1):14-19. Jan.1968. 265 Sch32Sm
- 71290 HILLABY, J. Pesticide progress. New Sci. 36 (572):494-495. Nov.23,1967. 472 N42  
Safety of economic poisons.
- 71291 ILTIS, J. H. To the taxonomist and ecologist whose fight is the preservation of nature. Bio-Science 17(12):886-890. Dec.1967. 500 Am322A
- 71292 JONES, F. T. Fusion techniques in chemical microscopy. Microscope 16(1st Qtr.):37-43. Jan.1968. 440.8 M584
- 71293 KORCHAGIN, V. N. Preparations used in plant protection. (Rus) Zashch. Rast. 1:40-42. 1968. 421 Z1  
Economic poisons.
- 71294 KOWALSKI, R. E. New route for safety messages. Ext. Serv. Rev. 39(2):3. Feb.1968. 1 Ex892Ex  
Iowa program for economic poisons.
- 71295 KRISTER, C. J. Chemistry's role in feeding the rapidly growing world population. Amer. Miller Processor 95(7):6-7. July 1967. 298.8 Am32  
Chemistry in agriculture.
- 71296 KUPA, J. J. Natural resource issues in urban Rhode Island: Legislators and professors try the workshop approach. R. I. Agr. 14(1):6-7. Feb.1968. 100 R342  
Program of Rhode Island University, College of Agriculture.
- 71297 LEBHERZ, H. G., and RUTTER, W. J. Glycer-aldehyde-3-phosphate dehydrogenase variants in phylogenetically diverse organisms. Science 157 (3793):1198-1200. Ref. Sept.8,1967. 470 Sci2  
Includes plants, animals and insects.
- 71298 MCCRONE, W. C., DRAFTZ, R. G., and DELLY, J. G. The particle atlas: a photomicrographic reference for the microscopical identification of particulate substances. Ann Arbor, Ann Arbor Science Publishers, 1967. 406 p. QH205.M3  
Bibliography, p.366-396.  
Includes plants, animals, and soils, and literature on particulate air pollution.
- 71299 MCEWEN, W. C. Northern Montana College and the grain, feed, seed, and farm supply business. Mont. Nutr. Conf. Proc., 19th Annu. Conf.:11-14. 1968. 389.79 M76  
Training program.
- 71300 MITCHELL, E. Where, when and how to sell pesticides. Feed Farm Supplier 42(2):12-13. (Cont.) Feb.1968. 47.8 H28
- 71301 MITCHELL, E. W. Where, when and how to sell pesticides. Feed Farm Supplier 42(3):36-38. (Cont.) Mar.1968. 47.8 H28
- 71302 NEBBIA, G. Modern study of utilization of natural resources. (It) Riv. Polit. Econ. (ser.3)57(10):1453-1469. Oct.1967. 280.8 R52
- 71303 NICHOLSON, H. P. Pesticide pollution control. Science 158(3803):871-876. Ref. Nov.17,1967. 470 Sci2  
Water pollution
- 71304 NIGERIA, NORTHERN REGION, MINISTRY OF AGRICULTURE. Annual report, 1965-66. Kaduna, 1967. 41 p. 24 N562
- 71305 ONTARIO, DEPT. OF ENERGY AND RESOURCES MANAGEMENT. Napanee region conservation report, 1967; Salmon River section. Toronto, 1968? 137 p., map. 279.9 On82  
Includes land use, forest cover, and soil conservation, drainage, flood control, and wildlife management.
- 71306 PALOTAS, G. New method for gopher control. (Hu) Magyar Mezőgazdaság 23(8):14-15. Feb.21,1968. 19 M27  
With gas cartridge.

- 71307 PEARCY, L. Z., and others. Gas-liquid chromatographic measurement of the kinetics of the transesterification of diethyl malonate. *J. Gas Chromatogr.* 6:173-176. Ref. 381 J8225  
S. P. Rowland, C. H. Mack, and E. E. Coll, joint authors.
- 71308 RISEBROUGH, R. W., and others. Pesticides: transatlantic movements in the northeast trades. *Science* 159(3820):1233-1236. Ref. Mar.15,1968. 470 Sci2  
R. J. Huggett, J. J. Griffin, E. D. Goldberg, joint authors.
- 71309 SCOTTER, G. W. Range resources and big game management. *Utah Sci.* 28(3):82-83,96. Sept.1967. 100 U11F
- 71310 SITTIG, M. Pesticide production processes. Park Ridge, New Jersey, Noyes Development Corporation, 1967. 200 p. (Chemical Process Review No. 5) TP248.P47S5
- 71311 SKLYAROV, N. Plastics on the farm. (Rus) *Tekh. Sel'skom Khoz.* 2:89-91. 1968. 58.8 M11  
General agricultural use.
- 71312 SMITH, G. W., and others. Rats, mice and their control. N. C. Univ. Ext. Ext. Folder 269,8 p.-folder. Nov.1967. 275.29 N811Ex  
H. E. Scott, J. C. Wells, A. B. Rogerson, and W. E. Gulley, joint authors.  
U.S. Fish and Wildlife Service, cooperating.
- 71313 SOUTHERN RHODESIA. MINISTRY OF AGRICULTURE. Report of the Secretary of Agriculture for the period 1st October 1965 to 30th September 1966. Salisbury, 1967. 75 p.,map. 24 R3463
- 71314 STOL, P. T. The computer, an indefatigable aid to research and action. (Du) *Landbouwkundig Tijdschr.* 79(11):415-419. Ref.,p.418-419. Nov.1967. 105.2 Or3
- 71315 SUDTIROLER Bauern-Kalender fur das Jahre 1968, 22. Jahrgang [South Tirolean Farmer's Calendar for the year 1968, volume 22]. Bozen, 1967. 218 p. 16 Su2
- 71316 SUROVIK, J. T. Conservation plan for Att-water prairie chicken. *Soil Conserv.* 33(8):179. Mar.1968. 1.6 So3S  
Texas.
- 71317 SVOBODOVA, J. The current state of agricultural microbiology in Poland. (Cz) Prague. *Vyzk. Ustav Zemed. Vestn.* 14(5):200-201. 1967. 19.5 C333
- 71318 SWEDEN. STATENS LANTBRUKSKEMISKA KONTROLLANSTALT. Activities of the State Agricultural Chemical Testing Station, 1965/66. (Sw) Stockholm. Stat. Lantbrukskem. Kontrollanstalt. Medd. 29:3-7. 1967. 385 St6
- 71319 TAYLOR, J. H., ed. Molecular genetics. II. New York, Academic Press, 1967. 517 p. (Molecular Biology: An International Series of Monographs and Textbooks). 443 T21  
Contributors: N. Sueoka, A. K. Kleinschmidt, J. H. Taylor, J. F. Speyer, P. Lengyel, E. F. K. Bautz, E. McFall, W. K. Mass, A. Campbell, H. C. Pitot, B. H. Hoyer, and R. B. Roberts.  
Review of the literature.  
Includes agricultural application.
- 71320 THORNE, G. Nematodes of Puerto Rico: Actinolaemoidea new superfamily with a revision of its genera and species with addenda to Belondiroidea (Nemata, Adenophorea, Dorylaemida). P. R. (Rio Piedras) Agr. Exp. Sta. Tech. Pap. 43,48 p. Ref. Oct.1967. 100 P83T
- 71321 TSA PKO, V. G. Air pollution caused by application of economic poisons. (Rus) *Zashch. Rast. Hazards.* 1:22-23. 1968. 421 Z1
- 71322 U. S. AGRICULTURAL RESEARCH SERV. PESTICIDES REGULATION DIV. Pesticides Regulation Division inspectors' manual. Washington, 1967. 154 p.,map. aS951.A5U52
- 71323 U. S. CONGRESS. HOUSE. COMMITTEE ON APPROPRIATIONS. Department of Agriculture appropriations for 1969. Hearings, 90th Cong., 2d sess. Pt.1-3. Washington, 1968. 3 v. 1 Ag81Hes
- 71324 U. S. DEPT. OF AGRICULTURE. 1966 progress report on pesticides and related activities. Washington, 1967. 156 p. aSB951.A5U5
- 71325 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. United States Department of Agriculture: How it serves people on the farm and in the community, nation, world. U. S. D. A. PA-824,11 p. Dec.1967. 1 Ag84Pro
- 71326 U. S. DEPT. OF THE INTERIOR. 1967 annual report: Guam, for the fiscal year ended June 30. Washington, 1968. 114 p. 153.1 G93  
Includes work of the Departments of Agriculture and Land Management.
- 71327 VIRGINIA ACADEMY OF SCIENCE. Forty-fifth annual meeting May 3-6, 1967. Abstracts of papers. Va. J. Sci. (n.s.)18(4):139-215. Sept.1967. 470 V81
- 71328 VIRGINIA. DEPT. OF AGRICULTURE AND COMMERCE. Economic poisons (pesticides) for the year 1967. Richmond, 1967. 35 p. 381.9 V81
- 71329 WADLEIGH, C. H. Wastes in relation to agriculture and forestry. U. S. D. A. Misc. Publ. 1065,112 p. Mar.1968. 1 Ag84M  
Bibliography, p.108-112.
- 71330 WOLFE, M. A., and HERNER, S. SDI system for the U.S. Public Health Service, Office of Pesticides. *J. Chem. Doc.* 7(3):138-141. Aug. 1967. 241.64 J82
- 71331 WOLFF, S. Radiation genetics. *Annu. Rev. Genet.* 1:221-244. 1967. QH431.A1A5  
Studies with mice, *Drosophila*, and *Tradescantia*.
- 71332 ZIELINSKI, W. L., FISHBEIN, L., and MARTIN, L. Relationship of structure to sensitivity in the electron capture analysis of pesticides. *J. Gas Chromatogr.* 5(11):552-555. Ref. Nov.1967. 381 J8225

## BIOGRAPHY

- 71333 AINSWORTH, G. C. Dr. S. P. Wiltshire, 1891-1967. *Brit. Mycol. Soc. Trans.* 50(4):513-514. Dec.1967. 451 B76  
Includes list of publications.
- 71334 ALBERTSEN, V. E. Th. Nissen. \*2.12.1903-+12.4.1967. (Da) *Danske Dyrægefor Medlemsbl.* 51(3):83-84. Feb.1,1968. 41.9 D23
- 71335 ALFRED Sakshaug is dead. (No) *Meieriposten* 57(1):17-18. Jan.6,1968. 44.8 M47
- 71336 ALTROGGE, L. Address on the bestowal of the Neumann Medal on June 1, 1967 to Professor John A. Shellenberger, Manhattan, Kansas, U.S.A. (Ge) *Arb. Getreideforsch. Ber. Getreidechem.-Tag.* 1967:VII-X. 389.9 Ar1
- 71337 AMMANN, G. Jakob Zogg died. (Ge) *Traktor Landmasch.* 30(3):154-155. Feb.2,1968. 58.8 T678Ag
- 71338 ARTHUR W. Sampson—pioneer range scientist. *J. Range Manage.* 20(6):346-352. Nov.1967. 60.18 J82  
Includes list of publications.
- 71339 AUKEN, J. Poul Olesen. "4.6.1924-+1.11.1968. (Da) *Danske Dyrægefor Medlemsbl.* 51(4):138. Feb.15,1968. 41.9 D23
- 71340 AXELIA Kallberg. (Sw) *Bitidningen* 66(11):361-362. Nov.1967. 424.8 B54
- 71341 BARTH, J. The 65th birthday of Professor Hermann Mattern. (Ge) *Landesverband Gartenbau Landwirt. Berlin. Mitteilungsbl.* 18(11):12-14. Nov.1967. 85 L233
- 71342 BEIJERS, J. A. In memoriam D. W. J. de Vor. (Du) *Tijdschr. Diergeneesk.* 93(2):106-108. Jan.15,1968. 41.8 T431  
English summary.
- 71343 BERTIL Goransson. (Sw) *Bitidningen* 66(11):361. Nov.1967. 424.8 B54
- 71344 BIRMINGHAM Practitioner gets Michigan V.M.A. Service Award. *Amer. Vet. Med. Ass. J.* 152(4):419-420. Feb.15,1968. 41.8 Am3  
R. W. Huff.
- 71345 BOCKSTROM, A. Albin Lennart Backman. 19.2.1967. (Sw) *Suo* 18(1):1-3. Jan.8,1967. 54.8 Su7
- 71346 BORDEN Award. *Poultry Sci.* 46(6):1612-1613. Nov.1967. 47.8 Am33P  
Presented to A. M. Guhl for his contributions to poultry science.



- 71347 BOSS, and LAIER, H. Max Breitenoder in memoriam. (Ge) Z. Kulturtech. Flurbereinig. 8(4):245-247. July/Aug. 1967. S605.A1Z4
- 71348 BREZHNEV, D. D. Eightieth anniversary of P. M. Zhukovskii. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 1:131-133. 1968. 20 V633
- 71349 BRUNEHAG, F. Karl Karlsson will be 60 years old. (Sw) Bitidningar 66(11):360. Nov. 1967. 424.8 B54
- 71350 BUSSART memorial award. Entomol. Soc. Amer. Bull. 14(1):68. Mar. 1968. 423.9 En8  
Bestowed upon Perry Lee Adkisson by the Velsicol Chemical Corporation, sponsor of this award.
- 71351 CARL Raswan. (Du) Tijdschr. Diergeneesk. 92(15):1016. Aug. 1, 1967. 41.8 T431
- 71352 CHIEF agricultural councilor Franz Heimann is 60 years old. (Ge) Tierzuchter 20(2):59. Jan. 20, 1968. 49 T445
- 71353 CITATION for Dr. Peter J. Van Soest, recipient of the American Feed Manufacturers Award for 1967. J. Dairy Sci. 50(9):1532. Sept. 1967. 44.8 J822
- 71354 CITATION for Professor James D. Burke, recipient of the DeLaval Award in dairy extension for 1967. J. Dairy Sci. 50(9):1531. Sept. 1967. 44.8 J822
- 71355 CITATION for Professor James Edward Le-gates, recipient of the Borden Award in Dairy Production for 1967. J. Dairy Sci. 50(9):1533. Sept. 1967. 44.8 J822
- 71356 CITATION for Professor K. L. Turk, recipient of the American Dairy Science Association Award of Honor for 1967. J. Dairy Sci. 50(9):1534-1535. Sept. 1967. 44.8 J822
- 71357 CITATION for Professor Marvin Luther Speck, recipient of the Pfizer-Paul Lewis Award for 1967. J. Dairy Sci. 50(9):1530. Sept. 1967. 44.8 J822
- 71358 CITATION for Professor Max E. Morgan, recipient of the Borden Award in Dairy Manufacturing for 1967. J. Dairy Sci. 50(9):1532-1533. Sept. 1967. 44.8 J822
- 71359 CITATION for Professor William Charles Winder, recipient of the Milk Industry Foundation Teaching Award for 1967. J. Dairy Sci. 50(9):1530-1531. Sept. 1967. 44.8 J822
- 71360 CITATION for T. Kline Hamilton, recipient of the American Dairy Science Association Distinguished Service Award for 1967. J. Dairy Sci. 50(9):1534. Sept. 1967. 44.8 J822
- 71361 CLYDE H. Bailey. Cereal Chem. 45(2):iii-iv. Mar. 1968. 59.8 C33
- 71362 CORRECTION in 1967 award announcements. American Society of Animal Science Extension Award. J. Anim. Sci. 568-569. Mar. 1968. 49 J82  
Presented to H. T. Strong.
- 71363 DANILYAVICHUS, V. M. Eightieth anniversary of Academician I. V. Krishchyunas. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 1:133-134. 1968. 20 V633
- 71364 DIRECTOR Bernhard Bruning in retirement. (Ge) Tierzuchter 20(3):92. Feb. 5, 1968. 49 T445
- 71365 DVORAK, J., and JAMBOR, V. Prof. Dr. Jaroslav Kabrt is 65 years old. (Cz) Veterinarstvi 18(1):7-8. 1968. 41.8 V6439
- 71366 THE FACES of forestry. Forests People 18(1):24-26. First Q. 1968. 99.8 F7628  
H. R. Johnston, W. F. Mann, J. S. McKnight, and R. R. Reynolds.
- 71367 FRANK G. Louthan, 1888-1967. Va. Forests 22(2):16-17. Summer 1967. 99.8 V81
- 71368 FRANK, N. Meyer Memorial Medal; William Hartley receives award. J. Hered. 58(6):283-284. Nov./Dec. 1967. 442.8 Am3  
In behalf of the American Genetic Association and the U. S. Department of Agriculture in the field of plant introduction.  
FRANK Raw 1920-1967. Ann. Appl. Biol. 61(1):168. Feb. 1968. 442.8 An72
- 71370 FREIMUTH, U. Prof. Dr. Laszlo Telegdy-Kovats on his 65th birthday, December 5, 1967. (Ge) Nahrung 12(1):1-2. 1968. 389.8 N142
- 71371 FROHLICH, H. J. State forester Richard Kleinschmit died. (Ge) Forstarchiv 38(11/12):292-293. Nov./Dec. 1967. 99.8 F7723  
Includes list of publications.
- 71372 FROST, S. W. Erich Martin Hering, 1893-1967. Entomol. Soc. Amer. Ann. 61(2):555. Mar. 1968. 420 En82
- 71373 GUIMOND, A. A. The Honorable and Very Revered William Herbert, Amaryllis hybridizer and amateur biologist. Diss. Abstr., Sect. A, 28(3):1022A. Sept. 1967. Z5055.U49D5
- 71374 GULYAEV, G. V., and others. A senior plant breeder. (Rus) Selekt. Semenovod. 6:74-75. Nov./Dec. 1967. 61.9 Se5  
A. P. Gorin, M. P. Samsonov, A. A. Ukolov, and M. K. Selavri, joint authors.  
Professor P. N. Konstantinov.
- 71375 HANSSON, A. Fritz Bengtsson will be 60 years old. (Sw) Bitidningar 66(11):334. Nov. 1967. 424.8 B54
- 71376 HERMAN Prestegaard is dead. (No) Meieri-posten 57(1):19-20. Jan. 6, 1968. 44.8 M47
- 71377 HILF, H. H. Anastasios Oekonomopoulos, nestor of Greek forestry is 75 years old. (Ge) Forstarchiv 38(11/12):291. Nov./Dec. 1967. 99.8 F7723  
Includes list of publications.
- 71378 I. I. SUS. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 12:146-147. 1967. 20 V633
- 71379 IANOVICI, V. Nicolae C. Cernescu, 1904-1967. (Rum) Stiint. Solului 5(2):97-100. 1967. 56.8 St5
- 71380 IMBERCIADORI, I. In memory of Gianfranco Torcellan. (It) Riv. Storia Agr. 6(4):341. Dec. 1966. 30.98 R52
- 71381 IN MEMORIAM: A. G. (Guy) Curtis: 1905-1968. Forests People 18(1):4. First Q. 1968. 99.8 F7628
- 71382 IN MEMORIAM Joh. A. Jousstra. (Du) Bijenteelt 70(2):19-20. Feb. 1968. 424.9 V58
- 71383 IN MEMORIUM: John S. Lehmann, January 18, 1886-October 26, 1967. Mo. Bot. Gard. Bull. 56(1):3. Jan./Feb. 1968. 451 M69B
- 71384 IN MEMORIAM [Louis Brenta]. (Ge) Int. Holzmarkt 58(19):11. Sept. 21, 1967. 99.81 In82
- 71385 IN MEMORY of N. A. Maisuryan. (Rus) Zemledelie 2:21. Feb. 1968. 20 Z44
- 71386 IN MEMORY of N. I. Selivanov. (Rus) Moloch. Prom. 2:45. Feb. 1968. 44.8 M734
- 71387 IN MEMORY of V. V. Yapaskurt. (Rus) Sa-kharn. Prom. 2:74-75. Feb. 1968. 65.8 Sa2
- 71388 IVANOV, G. V. P. Goryachkin. (Rus) Zemledelie 1:40-41. Jan. 1968. 20 Z44  
His role in mechanization.
- 71389 JUBILEE of scientist and forester. (Rus) Les. Zh. 2:175. 1967. 99.8 Iz8  
V. I. Levin.
- 71390 JUBILEES: Raisa Stepanovna Polkovnikova, Fedor Aleksandrovich Petunin, Evsei Samuilovich Cherkasskii, and Aleksei Viktorovich Kopyrin. (Rus) Veterinaria 10:124-125. Oct. 1967. 41.8 V6426
- 71391 JUNGO, J. Alfred Kuster, federal forestry and hunting inspector died. (Ge) Schweiz. Z. Forstwesen 118(12):835-837. Dec. 1967. 99.8 J82
- 71392 KOLYAKOV, YA. E. M. G. Tartakovskii as prominent pathologist and epizootologist (100th birthday anniversary). (Rus) Veterinaria 10:116-117. Oct. 1967. 41.8 V6426
- 71393 KONIG, H. Professor Dr. Hans Hauser died. (Ge) Deut. Tierarztl. Wochenschr. 74(18):473-474. Sept. 15, 1967. 41.8 D482
- 71394 KRISTENSEN, S. P. In memoriam A. E. Madsen 7.4. 1901- +12.3. 1967. (Da) Danske Dyr-laegefor. Medlemsbl. 51(2):49-50. Jan. 15, 1968. 41.9 D23
- 71395 KROGH, P. Erik Langhorn. \*3.8.1880- +12.23. 1967. (Da) Danske Dyr-laegefor. Medlemsbl. 51(4):136-137. Feb. 15, 1968. 41.9 D23

- 71396 LABIK, K., VAREJCKO, J., and BRAUNER, P. Prof. Dr. Miroslav Parizek is 70 years old. (Cz) Veterinarstvi 18(1):15-16. 1968. 41.8 V6439
- 71397 LECHNER, W. Ludwig Scotti (1728-1806); the first Viennese veterinary drug teacher and founder of native horse breeding. (Ge) Wien. Tierarztl. Monatsschr. 55(1):31-44. Ref. 1968. 41.8 T345  
Includes list of publications.
- 71398 LEIBFRIED, M. Government veterinary councilor Franz Furst of Mosbach is 90 years old. (Ge) Deut. Tierarztl. 16(1):29. Jan. 15, 1968. 41.8 D484
- 71399 LUCHINSKII, N. D. In memory of an educator. (Rus) Traktory Sel'khoz mashiny 1:1-2. Jan. 1968. 58.8 T68  
V. P. Goryachkin.
- 71400 M. A. LISAVENKO. (Rus) Vestnik Sel'skikh. Nauk. [Moscow] 12:146. 1967. 20 V633
- 71401 MALIANI, C. A farmer prince: Clemente Aldobrandini. (It) G. Agr. 78(11):134. Mar. 17, 1968. 16 It1G
- 71402 MEMORIAL: Ralph P. Tittsler 1899-1967. J. Dairy Sci. 51(2):316. Feb. 1968. 44.8 J822
- 71403 MORETTI, B., VENTURI, L., and SCIPIONI, V. A. Professor Albino Messieri. (It) Nuova Vet. 43(4):241-245. July/Aug. 1967. 41.8 N922
- 71404 MUNCHBERG, F. Prof. Dr. med. vet. Rudolf Schmidt, in memoriam. (Ge) Wien. Tierarztl. Monatsschr. 54(11):693-695. Nov. 1967. 41.8 T345
- 71405 N. W. JOLLY Medal-1967. Australian Forest 31(3):173. Sept. 1967. 99.8 Au74  
Given by the Institute of Foresters of Australia to A. C. Harris.
- 71406 NECHAEV, P. A. To the memory of S. I. Drachinskii 100th birthday anniversary. (Rus) Veterinaria 10:118. Oct. 1967. 41.8 V6426
- 71407 NELLEMAN, B. Johann Berg, Flensburg. (Da) Haven 68(1):30. Jan. 1968. 80 H29  
Necrology.
- 71408 NEW DEPUTY Director-General of Agriculture [B. Owen French]. Agr. Gaz. New S Wales 78(4):201. Apr. 1967. 23 N472
- 71409 NIELSEN, E. J. In memoriam Kristen Dahl. \*11/6 1909-†12/22 1967. (Da) Danske Dyr-laegerfor. Medlemsbl. 51(3):82-83. Feb. 1, 1968. 41.9 D23
- 71410 1968 AACC [American Association of Cereal Chemists] awards; the Geddes Memorial Award: Paul E. Ramstad. Cereal Sci. Today 13(4):160-161. Apr. 1968. 59.8 C333
- 71411 NOESLUND, A. Necrology. (No) Maelkeritidende 81(6):108. Feb. 9, 1968. 44.8 M26  
N. Tholstrup-Pedersen.
- 71412 OBITUARY, J. O. Alberts. Ill. Vet. 10(4):17. 1967. 41.8 IL62
- 71413 PHILLIPS, M. E. Rudolf Gustav Schmieder, 1898-1967. Entomol. News [Philadelphia] 79(3):66-70. Mar. 1968. 421 En88  
Includes list of his publications.
- 71414 PLANT scientist retires: Delmar C. Tingey. Utah Sci. 28(4):120. Dec. 1967. 100 Ut1F
- 71415 PRESENTATION of the Barrington Moore Memorial Award to Donald M. Fuquay. J. Forest. 66(1):50. Jan. 1968. 99.8 F768
- 71416 PRESENTATION of the Gifford Pinchot Medal to George Lincoln Drake. J. Forest. 66(1):51. Jan. 1968. 99.8 F768  
By the Society of American Foresters.
- 71417 PRODAN, M. Yrjo Ilvessalo is 75 years old. (Ge) Allg. Forst- Jagdzeitung 138(12):279-280. Dec. 1967. 99.8 AL3
- 71418 PROFESSOR [Carl Heinrich] Dencker died. (Ge) Lohnunternehmen Land- Forstwirtschaft. 22(11):260. Nov. 15, 1967. 58.8 D81
- 71419 PROFESSOR M. Z. Khelemskii 70-year old. (Rus) Sakharn. Prom. 2:28. Feb. 1968. 65.8 Sa2
- 71420 A PROMINENT biologist. (Rus) Selek. Semenovod. 6:71-73. Nov./Dec. 1967. 61.5 Se5  
N. I. Vavilov.
- 71421 R. E. LOTHROP retires at Eastern Laboratory. J. Dairy Sci. 51(1):2. Jan. 1968. 44.8 J822
- 71422 RASMUSSEN, O., and STENSTROM, R. A. Mortensen. \*11.26.1896-†1.16.1968. (Da) Danske Dyr-laegerfor. Medlemsbl. 51(4):137-138. Feb. 15, 1968. 41.9 D23
- 71423 RAUTENSHTEIN, YA. In memory of academician I. Emanuelov. (Rus) Akad. Nauk SSSR. Izv. Ser. Biol. 6:922-923. Nov./Dec. 1967. 511 Sa2B
- 71424 REDKOZUBOV, M. A prominent Russian vegetable breeder-E. A. Grachev. (Rus) Kartofel' Ovoshchi 11:46-48. Nov. 1967. 75.8 K147
- 71425 REIDAR Bjornstad will be 50 years old. (No) Meieriposten 57(6):115. Feb. 10, 1968. 44.8 M47
- 71426 ROBINSON, H. F. George Fredrick Sprague. Zuchter. Genet. Breed. Res. 37(4):149-150. July 17, 1967. 442.8 Z8
- 71427 SCHREITER. In memoriam of Dr. med. vet. Walter Vodel. (Ge) Tierarztl. Umsch. 22(7):382. July 1, 1967. 41.8 T445
- 71428 SCHUTZ, Fritz Weinrich in memoriam. (Ge) Z. Kulturtech. Flurbereinigung 8(4):247-248. July/Aug. 1967. S605.A1Z4
- 71429 SCOTT, W. J. James Richard Vickery; a career in food science and scientific administration. Food Preserv. Quart. 27(3):51-58. Ref. Sept. 1967. 389.9 Au7F
- 71430 SEMEVSKII, B. M. Eightieth birth anniversary of N. I. Vavilov. (Rus) Vses. Geogr. Obshchest. Izv. 99(6):449-457. 1967. 511 L546
- 71431 SEVENTIETH anniversary of N. D. Dedyulin. (Rus) Moloch. Prom. 2:36. Feb. 1968. 44.8 M734
- 71432 75 YEARS old. (No) Norsk Skogindus. 21(8):296. Aug. 1967. 99.82 N81  
Niels Odegaard.
- 71433 SIR MANILAL B. Nanavati (1877-1967). Indian J. Agr. Econ. 22(3):v-ix. July/Sept. 1967. 281.8 In2
- 71434 60 YEARS old. (Da) Maelkeritidende 81(6):113. Feb. 9, 1968. 44.8 M26  
C. A. Christiansen.
- 71435 SMALL, J. A. Lela Viola Barton, November 14, 1901-July 31, 1967. Torrey Bot. Club Bull. 95(1):103-108. Jan./Feb. 1968. 451 T63B  
Includes list of publications.
- 71436 SOKOLOVA, L. Jubilee of Professor V. N. Smirnov. (Rus) Les. Zh. 2:174. 1967. 99.8 Iz8
- 71437 SOLBERG, P. Professor Per Swartling is dead. (No) Meieriposten 57(1):18-19. Jan. 6, 1968. 44.8 M47
- 71438 SQUIRES, M. F. Ellis W. Cumby. Forest. Chron. 43(4):397. Dec. 1967. 99.8 F7623  
Obituary.
- 71439 STENBERG, H. L. J. W. Fabritius, \*1854, †1933. (Fi) Suomen Elainlaakarilehti 74(1):3-10. Jan. 1968. 41.8 F49  
English summary.
- 71440 STENCL, F. Vaclav Kysela is dead. (Cz) Veterinarstvi 18(1):41-42. 1968. 41.8 V6439
- 71441 TAMBERG, T. G., and BARANOVA, M. Nikolai Aleksandrovich Avrorin (his 60th birthday and 40 years of scientific work). (Rus) Bot. Zhur. [Moscow] 52(11):1678-1681. Nov. 1967. 451 R923  
Includes list of publications.
- 71442 THORBJORN Sten Iley. (No) Gartneryrket 58(1):13. Jan. 5, 1968. 80 G1938  
V. N. SHEVCHENKO. (Rus) Zashch. Rast. 8:60. 1967. 421 Z1
- 71444 VASILCZENKO, I. T. Kadyr Zakirovich Zakirov. (Rus) Bot. Zhur. [Moscow] 52(9):1371-1375. Sept. 1967. 451 R923  
Includes list of publications.
- 71445 VUKOV, K. Pavel M. Silin, 1887-1967. (Hu) Cukoripar 21(1):1-2. Jan./Feb. 1968. 65.8 C89  
Includes list of publications.
- 71446 WALTER Cecil Moore 1900-1967. Ann. Appl. Biol. 61(1):167. Feb. 1968. 442.8 An72
- 71447 WETTUM, P. VAN. In memoriam C. A. Kok. (Du) Tijdschr. Diergeneesk. 92(15):1050-1051. Aug. 1, 1967. 41.8 T431



- 71448 WHO'S Who in agricultural engineering. 92. Mr. K. S. Asford. Farm Impl. Mach. Rev. 94 (1114):125-126. Feb.1,1968. 58.8 Im72
- 71449 WINNIGSTEDT, R. Joachim von Wulfing is 60 years old. (Ge) Tierzuchter 20(3):92-93. Feb.5,1968. 49 T445
- 71450 ZHELIGOVSKII, V. A. Agricultural mechanics and its development. (On the occasion of 100th anniversary of V. P. Goryachkin). (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 12:115-121. 1967. 20 V633  
English summary.
- 71451 ZHELIGOVSKII, V. A. V. P. Goryachkin. (Rus) Mekh. Elek. Sots. Sel. Khoz. 1:1-9. 1968. 58.8 M46  
Includes its role in agricultural mechanization.

## HISTORY

- 71452 MARTI, D. B. Agrarian thought and agricultural progress: the endeavor for agricultural improvement in New England and New York, 1815-1840. Diss. Abstr., Sect. A, 28(3):1033A. Sept.1967. Z5055.U49D5  
Includes improvement through societies and education.
- 71453 NANDRIS, J. Lepenski Vir. Sci. J. 4(1):64-70, map. Jan.1968. Q1.S34  
Includes agriculture in this Neolithic settlement in Yugoslavia.

## HOME MANAGEMENT

- 71454 BAIERL, T. Shoes for children; buymanship series. Minn. Univ. Ext. Pam. 218,4 p. Feb.1967. 275.29 M66P
- 71455 BAIERL, T. Underwear for children; buymanship series. Minn. Univ. Ext. Pam. 221, 4 p. Feb.1967. 275.29 M66P
- 71456 HUSS, J., and ARTHAUD, A. L. Homemaking unlimited. Ext. Serv. Rev. 38(11):14-15. Nov.1967. 1 Ex892Ex  
Extension program in Nebraska.
- 71457 LANDON, MRS. R., and SHEARIN, M. Drawnwork. N. C. Univ. Ext. Home Econ. Ser. 66,2 p. Dec.1967. 275.29 N811Hom  
Sewing.
- 71458 SCHMUCKER, H. The studies of home economics and nutrition at German universities. (Ge) Germany. Bundesmin. Ernahr. Landwirt. Forsten. Ber. Landwirt. (n.s.)45(4):687-700. 1967. 18 G31
- 71459 SMITH, W. M. Changing emphasis reflected in home economics extension. Sci. Farmer [Penn. Sta.] 15(2):13. Winter 1968. 100 P381S
- 71460 WASHINGTON, STATE UNIVERSITY. EXTENSION SERV. 4-H bachelor project. Wash. State Univ. Ext. E. M. 601,rev.,12 p. 1967. 275.29 W27Mi  
Chiefly home management teaching.
- 71461 WASHINGTON, STATE UNIVERSITY. EXTENSION SERV. Re-upholster? have upholstered? or a new purchase? Wash. State Univ. Ext. E. M. 2027,rev.,4 p. Oct.1967. 275.29 W27Mi  
Chiefly upholstering.

## INTERNATIONAL RELATIONS

- 71462 ATEN, A. International organizations and the development of agricultural industries. Int. Agr. Develop. 39:8-10. Jan.1968. aS544.A316  
Chiefly developing areas.
- 71463 DEAK, I. The Food and Agricultural Organization of the United Nations. (Hu) Statist. Szemle 45(7):731-733. July 1967. 266.5 St2M
- 71464 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. List of FAO depository libraries. Food Agr. Organ. U. N. Quart. List. Publ. Doc. QL 67(1),9 p. Jan. 1967. 241 F733
- 71465 JACOBSON, D. H. The 1967 FAO conference, a world forum for agriculture. Int. Agr. Develop. 39:1-4. Jan.1968. aS544.A316

- 71466 PHILLIPS, R. W. Interfaces of international action. Int. Agr. Develop. 39:26-28. Jan.1968. aS544.A316
- 71467 PHILLIPS, R. W. The role of international organizations in improving agricultural production and food use. Int. Agr. Develop. 39:1,27. Jan.1968. aS544.A316
- 71468 ROJKO, A. S. The FAO Indicative World Plan, an overview of agricultural development needs and prospects. Int. Agr. Develop. 39:10-11. Jan.1968. aS544.A316
- 71469 UNITED STATES-JAPAN COMMITTEE ON SCIENTIFIC COOPERATION. The first five years, 1961-1966. Washington, U. S. Government Printing Office, 1967. 70 p. (U. S. Department of State. Publication 8210. East Asian and Pacific Series 158) Z690.U5  
Includes research in agricultural fields, including pesticides.

## METEOROLOGY

- 71470 HAINES, D. A., and BAKER, D. G. Wet-dry day probabilities in Minnesota. Minn. Sci. 23 (4):6-8, map. July 1967. 100 M668
- 71471 HANNAY, A. K. Why it didn't rain in 1967. J. Agr. [Melbourne] 66(1):6-7. Jan.1968. 23 V66J
- 71472 HAYNES, B. C. Meteorological data logger for use in study of agricultural spray deposition. U. S. Agr. Res. Serv. ARS-42-128,27 p. Jan. 1968. A58.9 R31
- 71473 MCLAUCHLAN, G. Climate is the hinge in Hawke's Bay farming. New Zeal. J. Agr. 116(2):34-35,37,39,41. Feb.1968. 23 N48J
- 71474 PHILIPPS, E. L. Washington precipitation patterns. Wash. Agr. Exp. Sta. Circ. 471:11-29, map. Oct.1967. 100 W27S
- 71475 RANTZ, S. E. Mean annual precipitation-runoff relations in north coastal California. U. S. Geol. Surv. Prof. Pap. 575-D:D281-D283, map. 1967. 407 G29Pr
- 71476 SMITH, C. V. Weather and agriculture. Great Brit. Min. Agr. Fish. Food. Agr. 74(12):559-562. Dec.1967. 10 G79J
- 71477 SMITH, N. P. An eye on the weather; forecast facilities for farmers. Power Farming 40(2):36, map. Feb.1968. 58.8 P872
- 71478 SYMPOSIUM: GROUND LEVEL CLIMATOLOGY, BERKELEY, 1965. [Papers], edited by R. H. Shaw. Washington, 1967. 395 p., map. Ref. QC981.S5  
In relation to agriculture.
- 71479 VITKEVICH, V. I. To the problem of developing meteorological studies on the experimental farm "Mikhailovskoe." (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 131:137-142. 1967. 20 M857
- 71480 WAITE, P. J. Iowa blizzards. Iowa Farm Sci. 22(8):22-23. Feb.1968. 275.28 I094
- 71481 WEEDFALL, R. O., and others. The climate of Berkeley County, West Virginia; including a climatological summary of Martinsburg. W. Va. Agr. Exp. Sta. Curr. Rep. 49,24 p. Ref. Jan.1967. 100 W52Cu  
W. H. Dickerson, H. C. Dwell, and W. L. Stirm, joint authors.
- 71482 WINN, P. N., HARRIS, W. L., and WACTLAR, H. D. A system for temperature data logging, recording and processing. Md. Agr. Exp. Sta. Bull. A-152,16 p. July 1967. 100 M36S  
Data processing.

## PERSONNEL

- 71483 U. S. DEPT. OF AGRICULTURE, OFF. OF PERSONNEL. Leave year 1966; sick leave use analysis by carryover and agency organizational level. Staff report. Washington, 1967. 15 p. aS21.D3

## RESEARCH

- 71484 AGRICULTURAL RESEARCH INSTITUTE OF NORTHERN IRELAND. Fortieth annual report, 1966-1967. Hillsborough, County Down, 1967. 32 p. 103 N813

- 71485 BARNÁ, MRS. B., ed. Tanulmányutak a mezőgazdasági tudományok területén; utijelentésekivonat gyűjtemény, [Study tours in the field of agricultural sciences; collection of tour report abstracts] 1966. Budapest, 1967. 218 p. S16.H8M4  
World-wide.
- 71486 BODA, K. On the mission of the Center for Agricultural and Food Research [Ústředí Zemědělského a Potravinářského Vyzkumu]. (Cz) Prague. Vyzk. Ústav Zemed. Vestn. 14 (9):374-377. 1967. 19.5 C333
- 71487 BOOZ-ALLEN APPLIED RESEARCH, INC. Development of the Agricultural Research Service master automatic data processing plan. Bethesda, 1967. various paging. HF5548.2.B6  
Final report submitted to U. S. Department of Agriculture, Agricultural Research Service, Administrative Services Division. Contract No. 12-14-160-8985.
- 71488 CARNEGIE INSTITUTION OF WASHINGTON. Year book 1966-1967. Baltimore, 1967. 719 p. Ref. 500 C21  
Includes agricultural research.
- 71489 EDINBURGH SCHOOL OF AGRICULTURE. Guide to farms, gardens and research projects, 1967. Edinburgh, 1967. 76 p. 103 Ed4G
- 71490 ERDEI, S. The Agricultural Experimental Institute of Duna-Tisza köz [Duna-Tisza Közi Mezőgazdasági Kísérleti Intézet] at Kecskemét. (Hu) Magyar Mezőgazdaság 22(46):12-13. Nov.15, 1967. 19 M27
- 71491 ERDEI, S. Laboratory work in service of agriculture. (Hu) Magyar Mezőgazdaság 22(46):12-13. Nov.29, 1967. 19 M27
- 71492 EVENSON, R. The contribution of agricultural research to production. J. Farm Econ. 49(5): 1415-1425. Ref. Dec.1967. 280.8 J822  
Estimation of research output by the U. S. Department of Agriculture and the State experiment stations.
- 71493 FEDKIW, J., and HJORT, H. W. The PPB [planning, programming, and budgeting] approach to research evaluation. J. Farm Econ. 49(5):1426-1436. Dec.1967. 280.8 J822  
Includes discussion by W. L. Peterson.
- 71494 GRIGALYUNAS, M. YU. Contribution of the Lithuanian SSR scientists to the agriculture. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 11:28-30. Nov.1967. 20 V633
- 71495 GYORI, B. The Agricultural Experimental Institute of Delkeletdunantul [Delkeletdunantuli Mezőgazdasági Kísérleti Intézet]. (Hu) Magyar Mezőgazdaság 22(51):12-13. Dec.20, 1967. 19 M27  
At Iregszemcse.
- 71496 HAMDY, M. Y., and STEWART, R. E. A tool for agricultural research, the analog computer. Ohio Rep. Res. Develop. Biol. Agr. Home Econ. 53(2):28-29. Mar./Apr. 1968. 100 Oh3S
- 71497 MAKUMOV, A. N. Development of the agricultural research in the Tadzhikistan. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 11:24-27. Nov.1967. 20 V633
- 71498 MICHIGAN, AGRICULTURAL EXPERIMENT STATION. Scientific achievements in Michigan's agriculture, edited by J. J. Marks. East Lansing, 1967? 95 p. S75.E2  
Research accomplishments from the establishment of the Michigan Agricultural Experiment Station, Feb.28, 1888, to the present.
- 71499 NEBRASKA, AGRICULTURAL EXPERIMENT STATION. 81st annual report. Lincoln, 1967. 38 p. 100 N27
- 71500 NOGYO SOGO KENKYUJO KENYU-SHO. The National Research Institute of Agriculture. Tokyo, 1967. 14 p. S303.A2
- 71501 RUINARD, J. The Center for Agricultural Research in Surinam [Centrum voor Landbouwkundig Onderzoek in Suriname]. (Du) Landbouwkundig Tijdschr. 79(11):386-390. Nov. 1967. 105.2 Or3  
English summary.  
A branch of the Wageningen Landbouwhogeschool in Paramaribo.
- 71502 SINYAGIN, I. I. The Lenin Academy [Vsesoyuznaya Akademiya Sel'skokhozyaystvennykh Nauk imeni V. I. Lenina]. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 11:8-14. Nov.1967. 20 V633  
General agricultural research.
- 71503 SKACHKOV, I. A. The Stony steppe [Kamennaya Step']; the past, present and the future. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 11:49-55. Nov.1967. 20 V633  
English summary.  
Activities of the V. V. Dokuchaev Agricultural Research Institute of the Central-Chernozem Zone [Nauchno-Issledovatel'skii Institut Sel'skogo Khozyaistva Tsentral'no-Chernozemnoi Polosy imeni V. V. Dokuchaeva].
- 71504 U. S. COOPERATIVE STATE RESEARCH SERV. Funds for research at State agricultural experiment stations and other State institutions, 1966. U. S. Coop. State Res. Serv. CSRS-15-2,24 p. Jan.1967. A31.3 R31Ae
- 71505 VOLODARSKII, N. I. Achievements and prospects of the Soviet agricultural science. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 11:15-19. Nov.1967. 20 V633
- 71506 WASHINGTON, AGRICULTURAL EXPERIMENT STATION. Seventy-seventh annual report, Washington Agricultural Experiment Station. Wash. Agr. Exp. Sta. Bull. 692,16 p. Feb.1968. 100 W27E
- 71507 WORRALL, G. A. Agricultural research in Liberia; a review and summary of publications. Rome, 1967. 85 p. (Food and Agriculture Organization of the United Nations. RU:SF/67/4) Z5071.L5W6

## STATISTICS

- 71508 BOOZ-ALLEN APPLIED RESEARCH, INC. Computer concepts baseline: Agricultural Research Service. Bethesda, 1967. 54 p. HF5548.2.B63  
Submitted to U.S. Department of Agriculture, Agricultural Research Service, Administrative Services Division on contract No. 12-14-100-8985.
- 71509 BOOZ-ALLEN APPLIED RESEARCH, INC. Development of the Agricultural Research Service master automatic data processing plan; interim organization. Bethesda, 1966. 30 p. HF5548.2.B64  
Report submitted to U. S. Department of Agriculture, Agricultural Research Service, Administrative Services Division on contract No. 12-14-100-8985.
- 71510 GOZULOV, A. I., GRANKOV, V. P., and MERZHANOV, G. S. Statistika sel'skogo khozyaistva [Agricultural statistics]. Ed. 2, rev. and enl. Moskva, Statistika, 1967. 359 p. HD1425.G65 1967  
Methods.
- 71511 MATHER, K. The elements of biometry. London, Methuen, 1967. 193 p. QH405.M32  
Applicable to agriculture.
- 71512 SNEDECOR, G. W., and COCHRAN, W. G. Statistical methods. Ed. 6. Ames, Iowa State University Press, 1967. 593 p. Ref. HA29.S6 1967  
Includes agricultural statistics.
- 71513 WAUGH, F. V., and ABEL, M. E. On fractional powers of a matrix. Amer. Statist. Ass. J. 62 (319):1018-1021. Sept.1967. 251 Am3



## NEW PERIODICALS AND SERIALS

AGRONOMIA. v.1, No.1. Jan./Apr.1966. Guatemala. S539.G95A3

AUSTRALIAN WOOL TESTING AUTHORITY. Progress. Melbourne, 1965. HD9908.A8A84

CANADA. EXPERIMENTAL FARM, BEAVER-LODGE. Research report. 1958/61. Ottawa, 1964. S135.E2

CANADA. RESEARCH INSTITUTE, BELLEVILLE. Research report. 1956/59. Ottawa, 1960. S155.E25

CANADA. RESEARCH STATION, AGASSIZ. Research report. 1958/60. Ottawa, 1962. S141.E2

CANADA. RESEARCH STATION, FREDERICTON. Research report. 1958/60. Ottawa, 1964. S149.E2

CANADA. RESEARCH STATION, KAMLOOPS. Research report. 1962/64. Ottawa, 1967. S141.E24

CANADA. RESEARCH STATION. KENTVILLE. Research report. 1957/62. Ottawa, 1964. S153.E2

CANADA. RESEARCH STATION, LACOMBE. Research report. 1958/61. Ottawa, 1963. S135.E24

C.S.C. NEWS. v.1. Dec.1965. Rhodesia. HD9427.R52C6

DATA PROCESSOR. v.10, No.4. Nov.1967. White Plains, New York, International Business Machines Corporation. QA76.D3

EHIME-KEN SEIKA NOGYO KYODO KUMI-AI RENGOKAI. Ehime mikan osha no sonae. Matsuyamashi, 1967. 54 p. HD9259.C54E4

ENTOMOLOGY LABORATORY, CHATHAM, ONTARIO. Research report, 1951/61. Ottawa, 1963. S155.E2

GRAIN. v.1, No.1. May 1967. Toowoomba, Australia. SB192.A8A1

HAN'GUK KYONGJE YON'GAM. Seoul, Hanguk Kyongjein Hyophoe, 1966. HC466.A1H32

INSTITUTO DE PESQUISAS E EXPERIMENTACAO AGROPECUARIA DO CENTRO-SUL. Boletim tecnico. No.1. Rio de Janeiro, 1966. S15.I595

INTERNATIONAL COOPERATIVE TRAINING. Journal. v.1, No.3. Madison, Wisconsin University, International Cooperative Training Center, 1965. HD1491.A1152

JUGOSLOVENSKA POLJOPRIVREDNA BANKA. Annual report. Beograd, 1966. HG1505.J8

MADHYA PRADESH. DIRECTORATE OF LAND RECORDS. Season and crop report of Madhya Pradesh. Gwalior, 1965. SB187.I4M3

NATIONAL FARMERS' UNION (GREAT BRITAIN). Annual report, 1964. London, 1965. S3.N3

NONGOP SAENGSAK KISUL MUNGGO. No.8. Seoul, Pumin Munhwasa, 1965. S19.N65

PLANT PROTECTION ABSTRACTS. Acarin abstracts. No.1. Aug.1965. Beer-Sheva, Israel, Makhteshim Chemical Works, 1967. Z5074.P4P5

PROGRESSIVE FARMING. v.3, No.3. Jan.1967. Ludhiana, Punjab Agricultural University. S19.P7

QUEENSLAND. DEPT. OF PRIMARY INDUSTRIES, ECONOMICS RESEARCH BR. Farm management accounting groups. Report. No.1. Aug.1965. Brisbane. S560.Q8

QUEENSLAND. DEPT. OF PRIMARY INDUSTRIES, ECONOMICS RESEARCH BR. Technical bulletin. No.1. Feb.1964. Brisbane. S562.A85A3

SEHI KOZA. No.3. June 1967. Tokyo, Nosan Gyoson Bunka Kyokai. S631.S4

SHINSHU DAIGAKU. KYOYOBU. Kiyo. Dai nibu. Shizen kagaku. Journal. II. Natural science. No.1. Feb.1967. Matsumoto. Q4.S5

SOGO SAIENSU RAIBURARI. SOGO SCIENCE LIBRARY. No.5. Tokyo, 1967. Q4.S3

STAUB; REINHALTUNG DER LUFT. v.26, No.12. Dec.1966. Jerusalem; Israel Program for Scientific Translations. (English edition) HD7264.A1S73

TECHNICUR. v.1, No.2. Feb.1967. Paris. HD9780.F8T4

ZASSHI KIJU SAKUIN: KAGAKU GJUTSU HEN. Japanese periodicals index: Science and Technology. v.18, No.6. June 1967. Tokyo, Kokuritsu Kokkai Toshokan. Z7403.Z3

## TRANSLATIONS

Includes translations received in the Library during the preceding month. Except for articles in journals translated in full and received on subscription (starred items), the translations are included also in the classified section and indexed in the personal and subject indexes.

No copies are available for distribution. Photocopies may be ordered from the Library.

- ANTANASESCU, R., and others. Measures to assure adequate vegetable harvests-Rumania. U. S. Joint Publ. Res. Serv. Transl. East Europe, Agr. Forest. Food Indus. 616:21-26. Dec.21,1967. (JPRS 43,783) 173 J663Ste  
F. Ceasescu, R. Apostol, and J. Chiujea, joint authors.  
Translation from Scinteia 7527:3. Nov.1967. Issued by CFSTL.
- \*BELL, L. N., and others. Photoenergetics of a synchronous *Chlorella* [pyrenoidosa] culture. Soviet Plant Physiol. 14(5):726-730. Ref. Sept./Oct.1967, pub.1968. 450 F58Ae  
E. A. Lin'kova, G. A. Slobodskaya, K. S. Spec-torov, E. P. Federko, and G. S. Bukina, joint authors.  
Translation from Fiziologiya Rastenii.
- BOOK, P. H., and RESSANG, A. A. The diagnosis of hog cholera by means of the ETV-, ETN-, and fluorescent antibody methods. 1. The methods using the exaltation of the Teschen virus and of the Newcastle disease virus. 10 p. Ref. Transl. 16610  
Translation from Tijdschrift voor Dierge-neeskunde 91(18). 1966.
- \*CHAILAKHYAN, M. KH., and KOCHANKOV, V. G. Influence of retardants on the growth and flowering of plants. Soviet Plant Physiol. 14(5):652-660. Ref. Sept./Oct.1967, pub.1968. 450 F58Ae  
Translation from Fiziologiya Rastenii.
- \*FIFTY years of Soviet plant physiology (1917-1967). Soviet Plant Physiol. 14(5):645-651. Sept./Oct.1967, pub.1968. 450 F58Ae  
Translation from Fiziologiya Rastenii.
- \*GENKEL', P. A., SATAROVA, N. A., and TVO-RUS, E. K. Effect of drought on protein synthe-sis and the state of ribosomes in plants. Soviet Plant Physiol. 14(5):754-762. Ref. Sept./Oct. 1967, pub.1968. 450 F58Ae  
Translation from Fiziologiya Rastenii.
- \*GITLITS, R. V., and SHISHKIN, E. A. Absorp-tion of radioactive phosphorus in trunks and branches of fruit trees during winter dormancy. Soviet Plant Physiol. 14(5):785-788. Sept./Oct. 1967, pub.1968. 450 F58Ae  
Translation from Fiziologiya Rastenii.
- \*IVANOV, V. B., OBRUCHEVA, N. V., and LI-TINSKAYA, T. K. Analysis of the effect of chloramphenicol on corn-root growth. Soviet Plant Physiol. 14(5):661-669. Sept./Oct.1967, pub.1968. 450 F58Ae  
Translation from Fiziologiya Rastenii.
- \*KAZARYAN, V. O., and KAVTYAN, V. A. Changes in the rate of photosynthesis due to factors affecting the root system. Soviet Plant Physiol. 14(5):721-725. Ref. Sept./Oct.1967, pub.1968. 450 F58Ae  
Translation from Fiziologiya Rastenii.
- \*KEFELI, V. I., and TURETSKAYA, R. KH. Comparative effect of natural growth inhibitors, narcotics, and antibiotics on plant growth. So-viet Plant Physiol. 14(5):670-675. Ref. Sept./Oct.1967, pub.1968. 450 F58Ae  
Translation from Fiziologiya Rastenii.
- \*KRAFT, V. A., and BOKAREV, K. S. Translo-cation and transformation of the defoliant BEXT in plants. Soviet Plant Physiol. 14(5):781-784. Ref. Sept./Oct.1967, pub.1968. 450 F58Ae  
Tests with S<sup>35</sup>-labeled bis-ethyloxanthogen tri-sulfide used on cotton and bean plants.  
Translation from Fiziologiya Rastenii.
- \*KRETOVICH, V. L., KARYAKINA, T. I., and LYUBIMOVA, N. V. Metabolism of succinic semialdehyde and gamma-aminobutyric acid in plants. Soviet Plant Physiol. 14(5):771-777. Ref. Sept./Oct.1967, pub.1968. 450 F58Ae  
Translation from Fiziologiya Rastenii.
- \*KULAEVA, O. N., and KLYACHKO, H. L. Ef-fect of chloramphenicol on protein synthesis in leaf disc. Soviet Plant Physiol. 14(5):778-780. Ref. Sept./Oct.1967, pub.1968. 450 F58Ae  
Translation from Fiziologiya Rastenii.
- \*KURSANOV, A. L., BROVCHENKO, M. I., and BUTENKO, E. P. Transformation of sugars by the leaf tissues of sugar beets. Soviet Plant Physiol. 14(5):684-691. Ref. Sept./Oct.1967, pub.1968. 450 F58Ae  
Translation from Fiziologiya Rastenii.
- \*KUZNETSOVA, V. I., and NOVOTEL'NOV, N. V. Influence of L-lysine on the growth of *Aspergillus terricola*. Microbiology 36(4):495-497. July/Aug.1967. 448.3 M582Ae
- \*LEVCHUK, T. P., KOLESNIK, L. V., and LOZI-NOV, A. B. Isolation, purification, and certain properties of cytochrome c from *Pichia poly-morpha*. Microbiology 36(2):192-196. Ref. Mar./Apr.1967. 448.3 M582Ae
- MICULESCU, A. Improving agricultural man-agement. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 611:37-41. Dec.5,1967. (JPRS 43,572) 173 J663Ste  
Translation from Scinteia, November 14,1967: 1-3.  
Issued by CFSTL.
- MULLER-IDZERDA, A. C. 100 indoor plants: their care and cultivation. Ed. 5, rev. London, Blandford Press, 1966. 209 p.  
SB419.M82 1966  
Translation of 100, i.e. Honderd, Kamerplan-ten in Kleur.
- \*NICHIPOROVICH, A. A., and others. Activity of the photosynthetic apparatus and nitrogen metabolism in plants. Soviet Plant Physiol. 14(5):713-720. Ref. Sept./Oct.1967, pub.1968. 450 F58Ae  
O. P. Osipova, M. K. Nikolaeva, E. G. Roman-ko, Kh. Ya. Khein, G. A. Slobodskaya, and Yu. V. Krylov, joint authors.  
Translation from Fiziologiya Rastenii.
- \*PROKOF'EV, A. A., SVESHNIKOVA, I. N., and SOBOLEV, A. M. Change in structure and composition of aleurone grains in ripening cas-tor beans. Soviet Plant Physiol. 14(5):746-753. Ref. Sept./Oct.1967, pub.1968. 450 F48Ae  
Translation from Fiziologiya Rastenii.
- \*RAKITIN, YU. V. Ethylene as a highly effective defoliant. Soviet Plant Physiol. 14(5):789-799. Ref. Sept./Oct.1967, pub.1968. 450 F58Ae  
Translation from Fiziologiya Rastenii.
- \*RUBIN, B. A., BALNOKIN, YU. V., and LADY-GINA, M. E. Structural changes in mitochon-dria of tobacco leaves with virus infection. So-viet Plant Physiol. 14(5):739-745. Ref. Sept./Oct.1967, pub.1968. 450 F58Ae  
Translation from Fiziologiya Rastenii.
- SCHREIBER, K. The glyco-alkaloids of the Solanaceae. 44 p. Ref. Transl. 16555  
Translation from Chemische Technik 6(12): 649-658. Dec.1954.
- \*SHAKOV, A. A., BALAUR, N. S., and KONDU-RUSKKHIN, I. A. Formation of the membrane system of chloroplasts illuminated by various parts of the spectrum. Soviet Plant Physiol. 14(5):731-738. Ref. Sept./Oct.1967, pub.1968. 450 F58Ae  
Translation from Fiziologiya Rastenii.
- STEIN, H. Spinning seen with high-speed mov-ies. Textile Indus. 132(2):68-75. Feb.1968. 304.8 C823  
Translation from Melliand Textilberichte.



- \*TIKHONOVSKAYA, N. G., and VOLODARSKY, A. D. Isolation of monospecific gamma-globulin from exhausted sera for investigation of proteins from plant cells. *Soviet Plant Physiol.* 14(5):800-802. Ref. Sept./Oct.1967, pub.1968. 450 F58Ae  
Translation from *Fiziologiya Rastenii*.
- TINBERGEN, N. *Tiere untereinander; Formen sozialen Verhaltens* [Social behavior in animals]. Ed. 2. Berlin, Parey, 1967. 150 p. QL751.T52 1967  
Translation of *Social behavior in Animals*.
- TSENG, C. H. Tropical regions of China. U. S. Joint Publ. Res. Serv. Transl. Communist China's Sci. Technol. 394:1-16, map. Nov.14,1967. (JPRS 43,321; TT 67-33945) 173 J663Tcco  
Translation from *Ti Li* 1:12-15. Jan.1962. Issued by CFSTI.
- \*TUMANOV, I. I., and KHALIN, N. N. Causes of poor cold-resistance in roots of fruit trees. *Soviet Plant Physiol.* 14(5):763-770. Ref. Sept./Oct.1967, pub.1968. 450 F58Ae  
Translation from *Fiziologiya Rastenii*.
- \*VAKHMISTROV, D. B., and LISTOVA, M. P. Direct action of ATP on the absorptive apparatus of barley roots. *Soviet Plant Physiol.* 14(5):700-707. Ref. Sept./Oct.1967, pub.1968. 450 F58Ae  
Translation from *Fiziologiya Rastenii*.
- \*VORONKOVA, V. V., and others. From the field of organic insectofungicides. CXI-CXII. *Chem. Listy* 37(5):961-967. May 1967. 385 Z6Ae  
N. N. Tuturina, B. A. Khaskin, N. N. Mel'nikov, and N. B. Petruchenko, joint authors.
- \*VYSKREBENTSEVA, E. I., and SINYUKHIN, A. M. Influence of potassium ions on generation and conduction of action potentials in the vascular bundles of pumpkin (*Cucurbita pepo*) stems. *Soviet Plant Physiol.* 14(5):692-699. Ref. Sept./Oct.1967, pub.1968. 450 F58Ae  
Translation from *Fiziologiya Rastenii*.
- \*ZAPROMETOV, M. N., and BUKHLAEVA, V. YA. Transformation of  $C^{14}$ -catechins after introduction into plants. *Soviet Plant Physiol.* 14(5):676-683. Ref. Sept./Oct.1967, pub.1968. 450 F58Ae  
Translation from *Fiziologiya Rastenii*.
- \*ZARIN, V. E., and BOICHENKO, E. A. Iron-containing coenzyme A in the photosynthetic carbon dioxide acceptor. *Soviet Plant Physiol.* 14(5):708-712. Ref. Sept./Oct.1967, pub.1968. 450 F58Ae  
Translation from *Fiziologiya Rastenii*.
- ZBIKOWSKI, A. Tree-planting on the off-slope of Otmuchowo Dam and its working conditions. *Water Econ. [Selec. Articles]* 20(2/12):197-200. 1966. (TT 63-11363) HD1697.P7S4  
Translation from *Gospodarka Wodna* 20(6):287-288. 1960.  
Issued by CFSTI.
- \*ZHDANOV, V. M., and others. Induction of the "stripping enzyme" by various pox viruses. *Acad. Sci. USSR. Dokl. Biol. Sci.* 170(1/6):747-748. Sept./Oct.1966. 511 P444A3b  
O. P. Peterson, L. A. Mel'nikova, and I. A. Kozlova, joint authors.

## CHECKLISTS

Checklists of publications of the U. S. D. A., State Agricultural Experiment Stations, and State Agricultural Extension Services are prepared for the convenience of those who wish to follow the literature from these sources. All such publications are included also in the classified section and indexed in the author and subject indexes.

U. S. D. A. PUBLICATIONS

Publications in the various United States Department of Agriculture series are listed first, followed by publications issued by the various agencies within the Department, arranged alphabetically by name of agency.

Domestic requests for publications in the various Department series will be filled free to libraries and other qualified agencies and organizations upon application to the United States Department of Agriculture, Office of Information, Washington, D.C., 20250, as long as the supply lasts. They may also be purchased from the Superintendent of Documents, Washington, D.C., 20250.

Domestic requests for most publications issued by the Department will be filled free by the issuing agency, as long as the supply lasts. Requests should be addressed to the United States Department of Agriculture, name of the specific issuing agency, Washington, D.C., 20250.

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For further information about the availability of United States Department of Agriculture publications, consult U.S.D.A. List Number 11, List of Available Publications of the United States Department of Agriculture, obtainable from the United States Department of Agriculture, Office of Information, Washington, D.C., 20250, and for sale by the Superintendent of Documents, Washington, D.C., 20402.

Agricultural Economic Reports

ANTHONY, W. E. Structural changes in the federally inspected meat processing industry, 1961-64. U. S. D. A. Agr. Econ. Rep. 129, 20 p., map. Feb. 1968. A281.9 Ag8A

TAYLOR, R. D., and others. Alfalfa meal in poultry feeds; an economic evaluation using parametric linear programming. U. S. D. A. Agr. Econ. Rep. 130, 19 p. Jan. 1968. A281.9 Ag8A

G. O. Kohler, K. H. Maddy, and R. V. Enochian, joint authors.

Agriculture Handbooks

HEDDEN, O. K. Equipment for applying soil pesticides. U. S. D. A. Agr. Handbook 297, slightly rev., 37 p. Ref., p. 33-36. July 1967. 1 Ag84Ah

Ohio Agricultural Research and Development Center, cooperating.

WALRATH, A. J., and GIBSON, W. L. The evaluation of investment opportunities; tools for decision making in farming and other businesses. U. S. D. A. Agr. Handbook 349, 58 p. Feb. 1968. 1 Ag84Ah

Virginia Polytechnic Institute, Division of Research, Agricultural and Life Sciences, cooperating.

Farmers' Bulletins

U. S. AGRICULTURAL RESEARCH SERV. CROPS RESEARCH DIV. Growing American bunch grapes. U. S. D. A. Farmers' Bull. 2123, rev., 22 p., map. Jan. 1968. 1 Ag84F

WARWICK, E. J., and PUTNAM, P. A. The farm beef herd. U. S. D. A. Farmers' Bull. 2126, rev., 16 p. Jan. 1968. 1 Ag84F

TIMMINS, M. S. Lightning protection for the farm. U. S. D. A. Farmers' Bull. 2136, rev., 18 p. Jan. 1968. 1 Ag84F

Foreign Agricultural Economic Reports

U. S. DEPT. OF AGRICULTURE. ECONOMIC RESEARCH SERV. FOREIGN REGIONAL ANALYSIS DIV. Agricultural policies in the Far East and Oceania. U. S. D. A. Foreign Agr. Econ. Rep. 37, 38 p. Nov. 1967. A281.9 Ag8F

Home and Garden Bulletins

U. S. AGRICULTURAL RESEARCH SERV. HUMAN NUTRITION RESEARCH DIV. Fruits in family meals; a guide for consumers. U. S. D. A. Home Gard. Bull. 125, 30 p. Jan. 1968. 1 Ag84Hg

U. S. AGRICULTURAL RESEARCH SERV. CROPS RESEARCH DIV. Growing Dahlias. U. S. D. A. Home Gard. Bull. 131, 8 p. Dec. 1967. 1 Ag84Hg

U. S. Agricultural Research Service, Entomology Research Division, cooperating.

U. S. AGRICULTURAL RESEARCH SERV. CROPS RESEARCH DIV. Growing Magnolias. U. S. D. A. Home Gard. Bull. 132, 8 p., map. Jan. 1968. 1 Ag84Hg

U. S. Agricultural Research Service, Entomology Research Division, cooperating.

U. S. AGRICULTURAL RESEARCH SERV. ENTOMOLOGY RESEARCH DIV. Controlling clover mites [Bryobia praetiosa complex] around the home. U. S. D. A. Home Gard. Bull. 134, 4 p. Dec. 1967. 1 Ag84Hg

U. S. AGRICULTURAL RESEARCH SERV. CROPS RESEARCH DIV. Spring flowering bulbs. U. S. D. A. Home Gard. Bull. 136, 14 p. Jan. 1968. 1 Ag84Hg

SMITH, M. E. How to buy fresh fruits. U. S. D. A. Home Gard. Bull. 141, 24 p. Oct. 1967. 1 Ag84Hg

SMITH, M. E. How to buy fresh vegetables. U. S. D. A. Home Gard. Bull. 143, 24 p. 1967. 1 Ag84Hg

U. S. CONSUMER AND MARKETING SERV. How to buy beef steaks. U. S. D. A. Home Gard. Bull. 145, 15 p. Feb. 1968. 1 Ag84Hg

U. S. CONSUMER AND MARKETING SERV. How to buy beef roasts. U. S. D. A. Home Gard. Bull. 146, 16 p. Jan. 1968. 1 Ag84Hg

Home Economics Research Reports

HOLMES, E. G. Job-related expenditures and management practices of gainfully employed wives in North Carolina. U. S. D. A. Home Econ. Res. Rep. 34, 39 p. Nov. 1967. A321.9 Ag8

Marketing Research Reports

EDEN, W. G. Insect damage to corn in three Southeastern States at time of harvest and in farm storage. U. S. D. A. Marketing Res. Rep. 792, 9 p. Aug. 1967. 1 Ag84Mr

STOUT, B. A., and others. Handling tomatoes in pallet boxes. U. S. D. A. Marketing Res. Rep. 802, 14 p. Jan. 1968. 1 Ag84Mr

S. K. Ries, F. W. Bakker-Arkema, and J. F. Herrick, joint authors. Michigan Agricultural Experiment Station, cooperating.



SMITH, W. L., and REDIT, W. H. Postharvest decay of peaches as affected by hot-water treatments, cooling methods, and sanitation. U. S. D. A. Marketing Res. Rep. 807,9 p. Mar. 1968. 1 Ag84Mr

HUTCHINSON, T. Q. Heavy grain exports in voyage-chartered ships: Rates and volume. U. S. D. A. Marketing Res. Rep. 812,34 p. Jan. 1968. 1 Ag84Mr

GALLIMORE, W. W., and VERTREES, J. G. A comparison of returns to poultry growers; under contract operating independently. U. S. D. A. Marketing Res. Rep. 814,42 p. Ref. Feb. 1968. 1 Ag84Mr

#### Miscellaneous Publications

WADLEIGH, C. H. Wastes in relation to agriculture and forestry. U. S. D. A. Misc. Publ. 1065,112 p. Mar. 1968. 1 Ag84M  
Bibliography, p.108-112.

U. S. AGRICULTURAL RESEARCH SERV. Tilting squeeze for sheep; cooperative farm building plan No. 6006. U. S. D. A. Misc. Publ. 1067,2 p. Feb. 1968. 1 Ag84M

U. S. AGRICULTURAL RESEARCH SERV. Dairy housing equipment, permanent-type construction; cooperative farm building plan No. 5977. U. S. D. A. Misc. Publ. 1068,2 p. Feb. 1968. 1 Ag84M

#### Program Aid

U. S. INTERDEPARTMENTAL COMMITTEE ON CHILDREN AND YOUTH. SUBCOMMITTEE ON TRANSITION FROM SCHOOL TO WORK. From school to work; Federal services to help communities plan with youth. U. S. D. A. PA-602,rev.,44 p. Nov. 1967. 1 Ag84Pro

U. S. FARMERS' HOME ADMIN. Self-help housing for low income rural families. U. S. D. A. PA-822,8 p. -folder. Nov. 1967. 1 Ag84Pro

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. United States Department of Agriculture: How it serves people on the farm and in the community, nation, world. U. S. D. A. PA-824,11 p. Dec. 1967. 1 Ag84Pro

U. S. AGRICULTURAL STABILIZATION AND CONSERVATION SERV. The Feed Grain Program, 1968. U. S. D. A. PA-855,4 p. Jan. 1968. 1 Ag84Pro

U. S. AGRICULTURAL STABILIZATION AND CONSERVATION SERV. 1968 wheat program. U. S. D. A. PA-856,3 p. Jan. 1968. 1 Ag84Pro

#### Statistical Bulletins

STRICKLER, P. E., SMITH, H. V., and KENDALL, J. R. Silos, silage handling practices, and minor feed products. U. S. D. A. Statist. Bull. 415,16 p. Jan. 1968. 1 Ag84St

U. S. CONSUMER AND MARKETING SERV. Poultry market statistics, 1967; annual summary. U. S. D. A. Statist. Bull. 421,54 p. Mar. 1968. 1 Ag84St

#### Technical Bulletins

KNIPLING, E. F., and MCGUIRE, J. U. Population models to appraise the limitations and potentialities of Trichogramma in managing host insect populations. U. S. D. A. Tech. Bull. 1387,44 p. Mar. 1968. 1 Ag84Te

#### Unnumbered Publications

U. S. DEPT. OF AGRICULTURE. 1966 progress report on pesticides and related activities. Washington, 1967. 156 p. aS951.A5U5

### AGRICULTURAL RESEARCH SERVICE

HAYNES, B. C. Meteorological data logger for use in study of agricultural spray deposition. U. S. Agr. Res. Serv. ARS-42-128,27 p. Jan. 1968. A58.9 R31

U. S. AGRICULTURAL RESEARCH SERV. ANIMAL HUSBANDRY RESEARCH DIV. Hatcheries and dealers participating in the National Poultry Improvement Plan. U. S. Agr. Res. Serv. ARS 44-6,rev.,56 p. Feb. 1968. A49.9 R31A

U. S. AGRICULTURAL RESEARCH SERV. CONSUMER AND FOOD ECONOMICS RESEARCH DIV. Dietary levels of households in the United States, spring 1965; a preliminary report. U. S. Agr. Res. Serv. ARS-62-17,34 p. Jan. 1968. A321.9 R31

U. S. AGRICULTURAL RESEARCH SERV. PESTICIDES REGULATION DIV. Pesticides Regulation Division inspectors' manual. Washington, 1967. 154 p.,map. aS951.A5U52

U. S. AGRICULTURAL RESEARCH SERV. PLANT PEST CONTROL DIV. Cooperative plant pest control programs, fiscal year 1967. Hyattsville, Maryland, 1968. 39 p. A423.9 R313Co

### AGRICULTURAL STABILIZATION AND CONSERVATION COMMITTEES

U. S. AGRICULTURAL STABILIZATION AND CONSERVATION COMMITTEE, IDAHO. Annual statistical report, 1966. Boise, 1968. 145 p. 1.956 F451d13

U. S. AGRICULTURAL STABILIZATION AND CONSERVATION COMMITTEE, WYOMING. Annual report, 1967. [Casper], 1968. 101 p., map. A281.9 St15

### COMMODITY CREDIT CORPORATION

U. S. COMMODITY CREDIT CORPORATION. Charts providing a graphic summary of operations, June 30, 1967. Washington, 1968. 67 p. 1.957 C38

### CONSUMER AND MARKETING SERVICE

U. S. CONSUMER AND MARKETING SERV. Federal meat inspection; a statistical summary for 1967. U. S. Consum. Marketing Serv. C&MS-54,16 p. Feb. 1968. A280.39 C762

U. S. CONSUMER AND MARKETING SERV. 1968 acreage-marketing guides, vegetables for commercial processing. U. S. Consum. Marketing Serv. AMG 60,40 p. Feb. 1968. A281.3919 M34

U. S. CONSUMER AND MARKETING SERV. Raisins, a good choice for the thrifty family. U. S. Consum. Marketing Serv. C&MS-60,4 p. Feb. 1968. A280.39 C762

U. S. Agricultural Research Service, cooperating.

U. S. CONSUMER AND MARKETING SERV. DAIRY DIV. Packaged fluid milk sales in Federal milk order markets by size and type of containers, and distribution method, during November 1966. U. S. Consum. Marketing Serv. C&MS-11,41 p.,map. Jan. 1968. A280.39 C762

U. S. CONSUMER AND MARKETING SERV. TOBACCO DIV. Flue-cured tobacco market review, 1967 crop. Washington, 1968. 55 p., map. 1.9 Ec714T

## COOPERATIVE STATE RESEARCH SERVICE

U. S. COOPERATIVE STATE RESEARCH SERV. Funds for research at State agricultural experiment stations and other State institutions, 1966. U. S. Coop. State Res. Serv. CSRS-15-2,24 p. Jan.1967. A31.3 R31Ac

## ECONOMIC RESEARCH SERVICE

LARSEN, J. T., and RIZEK, R. L. The costs of feeding to heavier weights. U. S. D. A. Econ. Res. Serv. ERS-371,10 p. Feb.1968. A281.9 Ag83E

Includes heavy lamb carcasses; their retail value, by R. Crom.

VERMEER, J. Profitability of participation in the 1962 Feed Grain Program in the Corn Belt. U. S. D. A. Econ. Res. Serv. ERS-362,20 p., map. 1967. A281.9 Ag83E

U. S. DEPT. OF AGRICULTURE. ECONOMIC RESEARCH SERV. The farm cost situation; 1968 outlook issue. U. S. D. A. Econ. Res. Serv. FCS-39,52 p.,map. Nov.22,1967. 1,941 F8F222

U. S. DEPT. OF AGRICULTURE. ECONOMIC RESEARCH SERV. U.S. foreign agricultural trade by commodities, fiscal year 1966/67. Foreign Agr. Trade U. S. Suppl., Jan.1968,38 p. A286.9 Ag8Fc

LITTLETON, I. T. The bibliographic organization and use of the literature of agricultural economics. Raleigh, North Carolina, 1967. 223 p. Z5074.E3L5

Final report submitted in fulfillment of contract #12-17-01-1-208, Economic Research Service and Statistical Reporting Service, U. S. Department of Agriculture.

Thesis (Ph. D.)—University of Illinois. Bibliography, p.196-200.

## FARMER COOPERATIVE SERVICE

MATHER, J. W. Cooperative procurement of containers for fruit and vegetable processing. U. S. Farmer Coop. Serv. Gen. Rep. 146,40 p., map. Nov.1967. A280.29 F22G

## FEDERAL EXTENSION SERVICE

BLOCK, W. J. Rural zoning: People, property, and public policy. U. S. Fed. Ext. Serv. Ext. Serv. Circ. ESC-563,32 p. 1967. 1.9 Ex892Esc

## FOREIGN AGRICULTURAL SERVICE

U. S. FOREIGN AGRICULTURAL SERV. International Grains Arrangement, 1967. U. S. Foreign Agr. Serv. FAS-M-195,46 p. Nov.1967. A281.9 F76Fm

## FOREST SERVICE

ALDRICH, R. C. Stratifying photo plots into volume classes by crown closure comparator. U. S. Forest Serv. Res. Note PSW-151,2 p. 1967. A99.9 F7652

AXELTON, E. A. Ponderosa pine [*Pinus ponderosa*] bibliography through 1965. U. S. Forest Serv. Res. Paper INT-40,150 p.,map. 1967. A99.9 F764U

BASSETT, J. R., and BEENE, J. T. Loblolly pine [*Pinus taeda*] site quality of four loess soils. U. S. Forest Serv. Res. Note SO-68,6 p.-folder ,map. Ref. 1967. A99.9 F7628U

BATZER, H. O. Spruce budworm defoliation is reduced most by commercial clear cutting. U. S. N. Cent. Forest Exp. Sta. U. S. Forest Serv. Res. Note NC-36,4 p. Aug.1967. aSD11.A33

BLYTH, J. E. Pulpwood production and consumption in the North Central region by county, 1966. U. S. N. Cent. Forest Exp. Sta. U. S. Forest Serv. Resour. Bull. NC-3,27 p.,map. Sept.1967. aSD11.A35

BOONE, R. S. Moisture content of wood for interior use, Douglas-fir [*Pseudotsuga menziesii menziesii*] and robusta eucalyptus [*Eucalyptus robusta*] samples studied. U. S. Forest Serv. Res. Note PSW-152,5 p. 1967. A99.9 F7652

DELL, J. D., and WARD, F. R. Remote ignition of logging slash; napalm grenades successfully tested. U. S. Forest Serv. Res. Note PSW-154,4 p. 1967. A99.9 F7652

DEMPSEY, G. P. Forest cooperatives; a bibliography. U. S. Forest Serv. Res. Paper NE-82,53 p. 1967. A99.9 F7622Un

ERDMANN, G. G. Chemical weed control increases survival and growth in hardwood plantings. U. S. N. Cent. Forest Exp. Sta. U. S. Forest Serv. Res. Note NC-34,4 p. Ref. Aug.1967. aSD11.A33

FAHEY, D. J., and LAUNDRIE, J. F. Kraft pulps, papers, and linerboard from southern pine thinnings. U. S. Forest Serv. Res. Note FPL-0182,8 p. Jan.1968. A99.9 F7634Un

GARY, H. L., and COLTHARP, G. B. Snow accumulation and disappearance by aspect and vegetation type in the Santa Fe Basin, New Mexico. U. S. Forest Serv. Res. Note RM-93, 11 p.,map. 1967. A99.9 F7632Us

HALL, D. O. Slash disposal burns in pine [*Pinus ponderosa*] patch-cuttings; a dialogue. U. S. Forest Serv. Res. Note PSW-148,6 p. 1967. A99.9 F7652

JOHANSEN, R. W., and SHIMMEL, J. W. Thickening retardants improves adhesion to tree crowns. U. S. Forest Serv. Res. Note SE-84,3 p. Aug.1967. A99.9 F7623Un

JOHNSON, R. L. Improving germination of Nuttall oak [*Quercus nuttallii*] acorns. U. S. Forest Serv. Res. Note SO-66,3 p. 1967. A99.9 F7628U

LOTAN, J. E. Eleven-year results of strip-thinning by bulldozer in thirty-year-old lodgepole pine [*Pinus contorta*]. U. S. Forest Serv. Res. Note INT-69,6 p. 1967. A99.9 F764Un

MACALONEY, H. J. White-pine weevil [*Pissodes strobi*]. U. S. Forest Serv. Forest Pest Leaflet 21,rev.,7 p. Aug.1967. A423.9 F764

MCCAULEY, O. D., and WHITTAKER, J. C. Sawmill practices and problems in the Appalachian hill country of Ohio and Kentucky. U. S. Forest Serv. Res. Paper NE-80,15 p.,map. 1967. A99.9 F7622Un

OSTROM, A. J. Forest cover types by counties, Michigan, 1966. U. S. N. Cent. Forest Exp. Sta. U. S. Forest Serv. Res. Note NC-41, 4 p. Oct.1967. aSD11.A33

QUICK, C. R. Screening conventional fungicides; control of blister rust on sugar pine [*Pinus lambertiana*] in California. U. S. Forest Serv. Res. Note PSW-149,7 p. 1967. A99.9 F7652

QUIRK, J. T., KOZLOWSKI, T. T., and BLOMQUIST, R. F. Contributions of end-wall and lumen bonding to strength of butt joints. U. S. Forest Serv. Res. Note FPL-0179,13 p. Jan. 1968. A99.9 F7634Un

SCHWEITZER, D. L. A computer program for preliminary data analysis. U. S. N. Cent. Forest Exp. Sta. U. S. Forest Serv. Res. Note NC-33,4 p. Aug.1967. aSD11.A33

STOECKELER, J. H. Size and placement of metal culverts critical on peatland woods roads. U. S. N. Cent. Forest Exp. Sta. U. S. Forest Serv. Res. Note NC-37,3 p. Ref. Aug.1967. aSD11.A33



STONE, R. N. Forest stand-size trends in Upper Michigan, 1955-1966. U. S. N. Cent. Forest Exp. Sta. U. S. Forest Serv. Res. Note NC-39,2 p. Aug. 1967. aSD11.A33

U. S. FOREST SERV. Report of the chief, 1967. Washington, 1968. 56 p. 1 F76

U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. Surface flammability of various wood-base building materials. U. S. Forest Serv. Res. Note FPL-0186,13 p. Feb. 1968. A99.9 F7634Un

U. S. FOREST SERV. PACIFIC NORTHWEST FOREST AND RANGE EXPERIMENT STATION. An abridged glossary of terms used in invertebrate pathology, by E. A. Steinhilber and M. E. Martignoni. Portland, Oregon, 1967. 22 p. Ref. aRB115.S7

U. S. FOREST SERV. PACIFIC NORTHWEST REGION. Gifford Pinchot National Forest; progress in multiple use, 1967. Vancouver, Washington, 1967. 23 p.,map. A99.9 G36

U. S. FOREST SERV. ROCKY MOUNTAIN FOREST AND RANGE EXPERIMENT STATION. Forestry research highlight, 1967; annual report. Fort Collins, Colorado, 1968. 55 p., map. 1.9 F7627A

VAN SICKLE, C. C. East Oklahoma's timber harvest, 1965. U. S. Forest Serv. Res. Note SO-57,6 p.-folder,map. 1967. A99.9 F7628U

WAGENER, W. W. Red band needle blight of pines; a tentative appraisal for California. U. S. Forest Serv. Res. Note PSW-153,6 p. Ref. 1967. A99.9 F7652

WALNUT WORKSHOP, CARBONDALE, ILLINOIS, 1966. Black walnut [*Juglans nigra*] culture; papers presented, August 2 and 3, 1966. Conducted by Forest Service, U. S. Department of Agriculture, the American Walnut Manufacturers' Association [and] Forestry Department, the Southern Illinois University. St. Paul, 1966. 94 p.,map. Ref. aSD397.W3W3

At head of title: North Central Forest Experiment Station, Forest Service, U. S. Department of Agriculture.

WILLISTON, H. L. Growth of pine planted for erosion control in north Mississippi. U. S. Forest Serv. Res. Note SO-67,4 p. 1967. A99.9 F7628U

## GRADUATE SCHOOL

WADLEY, F. M. Experimental statistics in entomology. Washington, Graduate School Press, U. S. Dept. of Agriculture, 1967. 133 p. Ref. aQL463.W3

## INTERNATIONAL AGRICULTURAL DEVELOPMENT SERVICE

KUTISH, F. A., and SITLER, H. G. A study of the economics of land use and livestock production in Greece. U. S. Int. Agr. Develop. Serv. IADS-S-16,57 p. June 1967. aHD1407.A3  
U. S. Foreign Agricultural Service, cooperating.

## NATIONAL AGRICULTURAL LIBRARY

U. S. FEDERAL COUNCIL FOR SCIENCE AND TECHNOLOGY. COMMITTEE ON SCIENTIFIC AND TECHNICAL INFORMATION. Report. Washington, Program Coordination Services, U. S. National Agricultural Library. 1967. 31 p. aQ223.A2C62

Original report prepared by M. E. Corning; revised by C. W. Mehring.

U. S. NATIONAL AGRICULTURAL LIBRARY. The National Agricultural Library in the next decade; changing needs and concepts, by A. J. Carabelli. Washington, 1966. 2 v. aZ733.N3C3  
Bibliography, v.2:29-38.

## PERSONNEL, OFFICE OF

U. S. DEPT. OF AGRICULTURE. OFF. OF PERSONNEL. Leave year 1966; sick leave use analysis by carryover and agency organizational level. Staff report. Washington, 1967. 15 p. aS21.D3

## STATISTICAL REPORTING SERVICE

U. S. CROP REPORTING BOARD. Crop values; season average prices received by farmers and value of production, 1966 and 1967, by States. Washington, 1967. 35 p. 1.941 F8Se1

# STATE AGRICULTURAL EXPERIMENT STATION PUBLICATIONS

Publications issued by the State Agricultural Experiment Stations are usually available from the issuing experiment station, except where noted, and as long as the supply lasts. The National Agricultural Library does not distribute them.

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## Arizona Agricultural Experiment Station, Tucson

- ALLEN, R. M., and others. Progress report and citrus foundation budwood release, 1968, through the Arizona Cooperative Citrus Registration-Certification Program. *Ariz. Agr. Exp. Sta. Rep.* 245, 12 p. Jan. 1968. 100 Ar4M
- H. H. McDonald, J. C. Matejka, and D. R. Rodney, joint authors.
- Arizona Crop Improvement Association, and Arizona Commission of Agriculture and Horticulture, cooperating.
- VOIGT, R. L., DUNLAP, J. A., and WHITING, W. C. Arizona grain sorghum, forage sorghum, and sudangrass performance tests 1967. *Ariz. Agr. Exp. Sta. Rep.* 247, 25 p. Jan. 1968. 100 Ar4M

## California Agricultural Experiment Station, Berkeley

- RESCH, H., and HUANG, S. M. Variation in wood quality of incense cedar trees [*Libocedrus decurrens*]. *Calif. Agr. Exp. Sta. Bull.* 833, 20 p., map. Ref., p. 15-17. Sept. 1967. 100 C12S
- BROWN, L. R., and EADS, C. O. Insects affecting ornamental conifers in southern California. *Calif. Agr. Exp. Sta. Bull.* 834, 72 p. Ref., p. 69-72. Oct. 1967. 100 C12S
- HULL, J. L., and MEYER, J. H. Irrigated pasture for steers and lambs. *Calif. Agr. Exp. Sta. Bull.* 835, 41 p. Ref. Dec. 1967. 100 C12S
- MILLER, D. R., and MCKENZIE, H. L. A systematic study of *Ovaticoccus* Kloet and its relatives, with a key to North American genera of Eriococcidae (Homoptera: Coccoidea: Eriococcidae). *Hilgardia* 38(13):471-539. Ref., p. 537-539. Oct. 1967. 100 C12H
- LABANAUSKAS, C. K., NAUER, E. M., and ROISTACHER, C. N. Initial soil-mix and post-planting liquid fertilization effects on nutrient concentrations in Valencia orange seedling leaves. *Hilgardia* 38(15):569-577. Ref. Nov. 1967. 100 C12H
- GOEDEN, R. D., FLESCNER, C. A., and RICKER, D. W. Biological control of prickly pear cacti on Santa Cruz Island, California. *Hilgardia* 38(16):579-606, map. Ref. Nov. 1967. 100 C12H
- EL-SHAFIE, M. W., and DAVIS, G. N. Inheritance of bulb color in the onion (*Allium cepa* L.). *Hilgardia* 38(17):607-622. Ref. Dec. 1967. 100 C12H
- CALIFORNIA agriculture 21(10), 20 p. Oct. 1967. 100 C12Cag
- CALIFORNIA agriculture 21(11), 16 p. Nov. 1967. 100 C12Cag
- CALIFORNIA agriculture 21(12), 16 p. Dec. 1967. 100 C12Cag
- CALIFORNIA agriculture 22(2), 16 p. Feb. 1968. 100 C12Cag

## Colorado Agricultural Experiment Station, Fort Collins

- CREEK, C. R. Changes in sugar beet production in Colorado. *Colo. Agr. Exp. Sta. Bull.* 530-S, 30 p., map. Jan. 1968. 100 C71S
- NOBE, K. C., and TURNER, J. M. Colorado agricultural trends, 1954-1964. *Colo. Agr. Exp. Sta. Bull.* 531-S, 78 p., map. Jan. 1968. 100 C71S

YOUNGMAN, V. E., and others. Sorghum hybrid performance tests in Colorado, 1967. *Colo. Agr. Exp. Sta. Gen. Ser.* 862, 27 p., map. 1967. 100 C71G

H. O. Mann, J. Swink, G. O. Hinze, J. C. Hoff, and K. Y. Takeda, joint authors.

Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.

COLORADO farm and home research 18(2), 12 p. Jan./Mar. 1968. 100 C712Co

## Connecticut Agricultural Experiment Station, New Haven

HANNA, J. G. Commercial feeding stuffs, report for 1966. *Conn. Agr. Exp. Sta. Bull.* 685, 13 p. Mar. 1968. 100 C76St

## Florida Agricultural Experiment Station, Gainesville

- MCPHERSON, W. K., and WITT, H. G. Live-stock product transportation cost-feed cost relationships between the Midwest and Florida. *Fla. Agr. Exp. Sta. Bull.* 722, 55 p., map. Dec. 1967. 100 F66S
- KRETSCHMER, A. E. *Stylosanthes humilis* a summer-growing, self-regenerating, annual legume for use in Florida pastures. *Fla. Agr. Exp. Sta. Circ.* S-184, 21 p. Feb. 1968. 100 F66Ci

## Georgia Agricultural Experiment Stations, Athens

- FRY, B. O., and HEATON, E. K. Evaluation of pear varieties for Georgia. *Ga. Agr. Exp. Sta. Circ. (n.s.)* 51, 14 p. Dec. 1966. 100 G293Ci
- CORLEY, W. L. Selected evaluations of ornamental pepper plant [*Capsicum* spp.] introductions and accessions. *Ga. Agr. Exp. Sta. Res. Rep.* 8, 12 p. Sept. 1967. S51.E22
- WISE, J. O., and CARLIN, T. A. Selected horticultural crop budgets for north Georgia. *Ga. Agr. Exp. Sta. Res. Rep.* 15, 34 p. Oct. 1967. S51.E22
- JACKSON, C. R. Development of fungi in peanuts during artificial drying. *Ga. Agr. Exp. Sta. Res. Rep.* 19, 10 p. Nov. 1967. S51.E22
- GEORGIA agricultural research 9(3), 16 p. Winter 1968. 100 G295

## Hawaii Agricultural Experiment Station, Honolulu

- COLLIER, W. L., and DAVIDSON, J. R. An economic analysis of head cabbage and dry onion production in the State of Hawaii. *Hawaii. Agr. Exp. Sta. Agr. Econ. Rep.* 77, 52 p. Dec. 1967. 275.29 H312Ae
- NAKASONE, H. Y., HIRANO, R., and ITO, P. Preliminary observations on the inheritance of several factors in the passion fruit (*Passiflora edulis* L. and *forma flavicarpa*). *Hawaii. Agr. Exp. Sta. Tech. Progr. Rep.* 161, 11 p. Nov. 1967. 100 H313P
- ROMANOWSKI, R. R., and others. Herbicide selectivity trials with bananas (*Musa* spp.) in Hawaii. *Hawaii. Agr. Exp. Sta. Tech. Progr. Rep.* 162, 45 p. Nov. 1967. 100 H313P
- J. A. Crozier, J. S. Tanaka, and R. C. Barba, joint authors.

## Idaho Agricultural Experiment Station, Moscow

- WISE, M. Idaho Wheat Quality Research Laboratory, 1966-67. *Idaho Agr. Res. Progr. Rep.* 122, 12 p. 1967. S53.E2
- STEINER, M. P., and DRURY, C. A. The marketing of Idaho-eastern Oregon sweet Spanish onions, 1960-1966. *Idaho Agr. Res. Progr. Rep.* 124, 31 p. 1967. S53.E2
- MAROUSEK, G. E. Production and distribution of south Idaho wheat, 1965-66. *Idaho Agr. Res. Progr. Rep.* 125, 29 p. June 1967. S53.E2
- DAHMEN, J. J., and BELL, T. D. Steers fed two different non-roughage rations processed by three methods. *Idaho Agr. Res. Progr. Rep.* 133, 18 p., map. 1967? S53.E2



DAHMEN, J. J., BAKER, J. P., and BELL, T. D. Feed lot performance of steers and heifers fed different sources of supplement protein. Idaho Agr. Res. Progr. Rep. 134,8 p. June 1967. S53.E2

#### Indiana Agricultural Experiment Station, Lafayette

INDIANA. AGRICULTURAL EXPERIMENT STATION. Assessors' enumeration of 1965 crops. Ind. Crops Livestock 498,15 p. Nov. 1966. 252.25 Ag8  
U. S. Department of Agriculture, cooperating.

#### Iowa Agricultural and Home Economics Experiment Station, Ames

SHARPLES, J. A., MILLER, T. A., and DAY, L. M. Evaluation of a firm model in estimating aggregate supply response. Iowa Agr. Home Econ. Exp. Sta. Res. Bull. 558,61 p. Ref. Jan. 1968. 100 Io9

Agricultural Experiment Stations of Alaska, Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin; and U.S. Department of Agriculture, cooperating.

SPARKS, A. N., and others. Some factors influencing populations of the European corn borer, *Ostrinia nubilalis* (Hubner), in the North Central States: Resistance of corn, time of planting and weather conditions. II. 1958-1962. Iowa Agr. Home Econ. Exp. Sta. Res. Bull. 559:65-103, map. Ref. Dec. 1967. 100 Io9

H. C. Chiang, C. A. Triplehorn, W. D. Guthrie, and T. A. Brindley, joint authors.

Agricultural Experiment Stations of Alaska, Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin; and U.S. Department of Agriculture, cooperating.

PRESTEMON, D. R. Least-cost wall and floor constructions for limiting transmission of noise. Iowa Agr. Home Econ. Exp. Sta. Spec. Rep. 55,16 p. Feb. 1968. 100 Io9Sp

IOWA farm science 22(8),28 p. Feb. 1968. 275.28 Io94

#### Louisiana Agricultural Experiment Station, University Station, Baton Rouge

WOOLF, W. F., and HINTON, C. E. An economic analysis of cotton production practices on cotton yields in the Ouachita Valley Area of Louisiana. La. Agr. Exp. Sta. DAE Res. Rep. 356,62 p., map. Sept. 1966. 100 L935

VAN HORN, T., and HUDSON, J. F. Procurement patterns of Louisiana packers and buyer practices at Louisiana auctions. La. Agr. Exp. Sta. DAE Res. Rep. 358,59 p., map. Dec. 1966. 100 L935

LOUISIANA. AGRICULTURAL EXPERIMENT STATION. Annual progress report, Red River Valley Agricultural Experiment Station. Bossier City, 1967. 65 p., map. 100 L9333

#### Maine Agricultural Experiment Station, Orono

DELOGU, O. E., and GREGORY, D. D. Planning and law in Maine. 1. Private property and public regulation in Maine. Maine Agr. Exp. Sta. Bull. 653,19 p. Ref. Nov. 1967. 100 M28S

DELOGU, O. E., and GREGORY, D. D. Planning and law in Maine. 2. Powers and devices for controlling land use. Maine Agr. Exp. Sta. Bull. 654,36 p. Ref. 1967? 100 M28S

YOUNG, H. E., and CARPENTER, P. M. Weight, nutrient element and productivity studies of seedlings and saplings of eight tree species in natural ecosystems. Maine Agr. Exp. Sta. Tech. Bull. 28,39 p. Ref. Nov. 1967. 100 M28B

#### Maryland Agricultural Experiment Station, College Park

MCKEE, C. G. Root growth in relation to top growth in Catterton and Wilson varieties of Maryland tobacco. Md. Agr. Exp. Sta. Bull. 478,25 p. June 1968. 100 M36S

WYSONG, J. W. The agricultural industry in the urban-rural fringe: A case study of Harford County, Maryland. Md. Agr. Exp. Sta. Bull. 479,28 p. June 1967. 100 M36S

WINN, P. N., HARRIS, W. L., and WACTLAR, H. D. A system for temperature data logging, recording and processing. Md. Agr. Exp. Sta. Bull. A-152,16 p. July 1967. 100 M36S

WINN, P. N., and GODFREY, E. F. The effect of temperature and moisture on broiler performance. Md. Agr. Exp. Sta. Bull. A-153,26 p. July 1967. 100 M36S

DEPASS, R. E., and BENDER, F. E. Growth patterns of counties in Maryland since 1940. Md. Agr. Exp. Sta. Misc. Publ. 614,59 p. 1967. 100 M36M

YEGANIANTZ, L., and MOORE, J. Agriculture and trade of the European Economic Community: A selected, annotated bibliography. Md. Agr. Exp. Sta. Misc. Publ. 616,84 p., map. Oct. 1967. 100 M36M

WALKER, W. P. Farm ownership valuation and taxation in rural-urban Maryland. Md. Agr. Exp. Sta. Misc. Publ. 639,27 p. Dec. 1967. 100 M36M

TUTHILL, D. F., SOBERS, D., and MARSHALL, J. P. The effects of sediment pollution on water recreation in the upper Potomac estuary. Md. Agr. Exp. Sta. Misc. Publ. 653,62 p., map. Ref. Dec. 1967. 100 M36M

PREISS, F. J., and DAVIDSON, J. A. The effects of temperature and humidity on egg hatch of the lesser mealworm, *Alphitobius diaperinus* (Panzer) (Coleoptera: Tenebrionidae). Md. Agr. Exp. Sta. Misc. Publ. 660,7 p. Ref. Jan. 1968. 100 M36M

#### Michigan Agricultural Experiment Station, East Lansing

GREIG, W. S., and HEIFNER, R. G. Locational effects of raw product prices, labor costs, length of processing season and transportation costs in fruit and vegetable processing. Mich. Agr. Exp. Sta. Res. Bull. 19,97 p., map. 1968. 100 M58R

MICHIGAN. AGRICULTURAL EXPERIMENT STATION. Scientific achievements in Michigan's agriculture, edited by J. J. Marks. East Lansing, 1967? 95 p. S75.E2

#### Minnesota Agricultural Experiment Station, St. Paul Campus, St. Paul 1

HOUCK, J. P., and MANN, J. S. An analysis of domestic and foreign demand for U.S. soybeans and soybean products. Minn. Agr. Exp. Sta. Tech. Bull. 256,59 p. Ref. 1968. 100 M66

MINNESOTA science 23(4),32 p. July 1967. 100 M668

#### Mississippi Agricultural Experiment Station, State College

THOMAS, C. H., and ALBRITTON, R. C. The effect of restricted feeding on the performance of different strains of commercial layers. Miss. Agr. Exp. Sta. Bull. 749,8 p. Nov. 1967. 100 M69

CAMPBELL, J. A., WINDHAM, S. L., and THOMAS, W. O. Once-over harvest and processing studies with certain vegetable crops. Miss. Agr. Exp. Sta. Bull. 750,10 p. Nov. 1967. 100 M69

DAY, E. J., DILWORTH, B. C., and CHARLES, O. W. Factors affecting the incidence of blood spots in eggs. Miss. Agr. Exp. Sta. Bull. 751,7 p. Nov. 1967. 100 M69

BRYANT, E. S., and LEUNG, K. M. Mississippi farm trends, 1950-1964. Miss. Agr. Exp. Sta. Bull. 754,8 p., map. Dec. 1967. 100 M69  
MISSISSIPPI farm research 31(2),8 p. Feb. 1968. 100 M69Mi

#### Missouri Agricultural Experiment Station, Columbia

CAMPBELL, R. R., and MULVEY, S. A. Perception of job opportunities among low-income groups in Missouri. Mo. Agr. Exp. Sta. Bull. B 867,11 p. Feb. 1968. 100 M693

COLYER, D., and IRWIN, G. D. Beef, pork, and feed grains in the Cornbelt: Supply response and resource adjustments. Mo. Agr. Exp. Sta. Bull. 921,113 p. Ref. Aug. 1967. 100 M693

Agricultural Experiment Stations of Alaska, Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Mississippi, Nebraska, North Dakota, South Dakota, Ohio, and Wisconsin; and U. S. Department of Agriculture, cooperating.

- BROWN, J. R., and SMITH, G. E. Nitrate accumulation in vegetable crops as influenced by soil fertility practices. Mo. Agr. Exp. Sta. Res. Bull. 920,43 p. Ref. Apr.1967. 100 M693
- ROSS, C. V., RILEY, J. G., and SHELTON, G. C. Practical tests with anthelmintics for grazing lambs. Mo. Agr. Exp. Sta. Res. Bull. 927,36 p. Sept.1967. 100 M693

Nebraska Agricultural Experiment Station, Lincoln

- DREIER, A. F., and others. Nebraska varietal tests of fall-sown small grains, 1967. Nebr. Agr. Exp. Sta. Outstate Test. Circ. 127,24 p., map. Aug.1967. 100 N270
- J. W. Schmidt, P. H. Grabouski, and L. A. Daigger, joint authors.
- COYNE, D. P., and BURNSIDE, O. C. Differential plant injury and yield responses of tomato varieties to 2,4-D. Nebr. Agr. Exp. Sta. Res. Bull. 226,21 p. Feb.1968. 100 N27
- NEBRASKA AGRICULTURAL EXPERIMENT STATION. 81st annual report. Lincoln, 1967. 38 p. 100 N27

Nevada Agricultural Experiment Station, Reno

- MALONE, J. W., and HUGHES, W. C. Some socio-economic factors affecting household expenditures for meat, poultry, and fish at the retail level. Nev. Agr. Exp. Sta. B 19,35 p. Jan. 1968. 100 N41B

New Jersey Agricultural Experiment Station, New Brunswick

- NEW JERSEY AGRICULTURAL EXPERIMENT STATION. 1967 report on turfgrass research at Rutgers University, College of Agriculture and Environmental Science. N. J. Agr. Exp. Sta. Bull. 818,121 p. Ref. Jan.1968. 100 N46S
- FISHER, H., BRUSH, M. K., and GRIMINGER, P. Effect of defatted egg powder and whole eggs on serum cholesterol levels of healthy students. N. J. Agr. Exp. Sta. Bull. 819,7 p. Feb. 1968. 100 N46S

New York (Cornell) Agricultural Experiment Station, Ithaca

- ODE, P. E., and MATTHYSSE, J. G. Bionomics of the face fly, *Musca autumnalis* DeGeer. N. Y. (Cornell) Agr. Exp. Sta. Mem. 402,91 p. Ref. Dec.1967. 100 N48C

North Carolina Agricultural Experiment Station, State College Station, Raleigh

- BALLINGER, W. E., and GOLDSTON, E. F. Nutritional survey of Wolcott and Murphy blueberries (*Vaccinium corymbosum* L.) in eastern North Carolina. N. C. Agr. Exp. Sta. Tech. Bull. 178,29 p. Ref. Oct.1967. 100 N81
- LARSON, R. A. Chemical growth regulators and their effects on poinsettia [*Euphorbia pulcherrima*] height control. N. C. Agr. Exp. Sta. Tech. Bull. 180,27 p. Ref.,p.24-28. Dec.1967. 100 N81
- TOBACCO abstracts 12(3):104-169. Mar.1968. 241 T55

North Dakota Agricultural Experiment Station, State College Station, Fargo

- NORTH Dakota farm research 25(2),24 p. Nov./Dec.1967. 100 N813B

Ohio Agricultural Research and Development Center, Wooster

- HACSKAYLO, J., and VIMMERSTEDT, J. P. Appearance and chemical composition of eastern cottonwood [*Populus deltoides*] grown under nutrient deficient conditions. Ohio. Agr. Res. Develop. Center. Res. Bull. 1004,19 p. Dec. 1967. 100 Oh3S
- CONNOLLY, C., and CRAVENS, M. E. Ohio and competing processing tomato supply states. Ohio. Agr. Res. Develop. Center. Res. Bull. 1007,24 p.,map. Jan.1968. 100 Oh3S
- OHIO report on research and development in biology, agriculture, and home economics 53 (1),16 p. Jan./Feb.1967. 100 Oh3S

Oklahoma Agricultural Experiment Station, Stillwater

- HUFFINE, W. W. Turfgrass production and management research progress report, 1967. Okla. Agr. Exp. Sta. Process. Ser P-580,24 p. Jan.1968. 100 Ok4M
- Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- WADSWORTH, D. F., and YOUNG, H. C. Chemical control of diseases affecting turf; progress report, 1967. Okla. Agr. Exp. Sta. Process. Ser. P-581,17 p. Jan.1968. 100 Ok4M
- Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- VERHALEN, L. M., and others. Oklahoma cotton variety tests results, 1967. Okla. Agr. Exp. Sta. Process. Ser. P-582,13 p. Feb.1968. 100 Ok4M
- J. C. Murray, E. S. Oswalt, K. C. Fun, J. W. Simmons, R. Foraker, D. P. Prophet, M. Simmons, and A. Clingenpeel, joint authors.
- SANTELMANN, P. W., GREER, H. A. L., and SIX, I. L. Factors influencing the activity of soil incorporated herbicides. Okla. Agr. Exp. Sta. Tech. Bull. B-658,20 p. Jan.1968. 100 Ok4
- LITTLE, C. H., and DOEKSEN, G. A. An input-output analysis of Oklahoma's economy. Okla. Agr. Exp. Sta. Tech. Bull. T-124,31 p. Feb. 1968. 100 Ok4
- SCHNAKE, L. D., FRANZMANN, J. R., and HAMMONS, D. R. Economies of size in non-slaughtering meat processing plants. Okla. Agr. Exp. Sta. Tech. Bull. T-125,38 p. Feb. 1968. 100 Ok4

Oregon Agricultural Experiment Station, Corvallis

- ADAIR, J., STOUT, F. M., and COSTLEY, G. E. Mink nutrition research 1967 progress report. Oreg. Agr. Exp. Sta. Spec. Rep. 249,40 p. Feb. 1968. 100 Or3M
- Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- KORZAN, G. E. Economics of beef cattle feeding in Oregon. Oreg. Agr. Exp. Sta. Spec. Rep. 250,10 p. Feb.1968. 100 Or3M
- Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- LANDERS, J. H., WHEAT, J. D., and BOGART, R. Some factors affecting feed efficiency in beef cattle. Oreg. Agr. Exp. Sta. Tech. Bull. 102,32 p. Ref. Dec.1967. 100 Or3S

Pennsylvania Agricultural Experiment Station, University Park

- SCIENCE for the farmer 15(2),15 p. Winter 1968. 100 P381S

Puerto Rico. Federal Experiment Station, Mayaguez

- RODRIGUEZ DE ZAPATA, L. Food purchasing patterns of Puerto Rican families. (Sp) P. R. (Rio Piedras) Agr. Exp. Sta. E. & S. R. 73,93 p. Feb.1968. 100 P83Es
- English summary.
- THORNE, G. Nematodes of Puerto Rico: Actinolaimoidea new superfamily with a revision of its genera and species with addenda to Belonidiroidea (Nemata, Adenophorea, Dorylaimida). P. R. (Rio Piedras) Agr. Exp. Sta. Tech. Pap. 43,48 p. Ref. Oct.1967. 100 P83T
- JOURNAL of agriculture of the University of Puerto Rico 52(1),75 p. Jan.1968. 8 P832J

Rhode Island Agricultural Experiment Station, Kingston

- RHODE Island agriculture 14(1),9 p. Feb.1968. 100 R342

South Carolina Agricultural Experiment Station, Clemson

- JANZEN, J. J. Flavor and bacteriological quality of market milk obtained in retail outlets. S. C. Agr. Exp. Sta. Circ. 149,15 p. Dec.1967. 100 So8



GRAHAM, T. W., and others. SC 66, a new multiple-disease-resistant, flue-cured tobacco variety. S. C. Agr. Exp. Sta. Circ. 150,8 p. Dec.1967. 100 So8  
Z. T. Ford, J. F. Chaplin, and R. E. Currin, joint authors.

JUTRAS, M. W. Growing oats in clover-grass seedings. S. C. Agr. Exp. Sta. Circ. 151,10 p. Jan.1968. 100 So8

KINGSLAND, G. C. Seed-borne fungi on barley, oats, and wheat in South Carolina. S. C. Agr. Exp. Sta. Tech. Bull. 1026,18 p. Ref. July 1967. 100 So8T

#### South Dakota Agricultural Experiment Station, Brookings

BONNEMANN, J. J. Standard variety small grain trials in South Dakota, 1963-1967. S. Dak. Agr. Exp. Sta. Circ. 182,32 p.,map. Jan. 1968. 100 So82

BONNEMANN, J. J. 1967 corn performance trials. S. Dak. Agr. Exp. Sta. Circ. 183,20 p., map. Jan.1968. 100 So82

BONNEMANN, J. J. 1967 grain sorghum performance trials. S. Dak. Agr. Exp. Sta. Circ. 184,24 p.,map. Jan.1968. 100 So82

#### Tennessee Agricultural Experiment Station, Knoxville

CLARK, J. H., HALL, O. G., and FELTS, J. H. Performance of beef steers fed different protein supplements and hays in the feedlot. Tenn. Agr. Exp. Sta. Bull. 417,19 p. Apr.1967. 100 T25S

CLELAND, C. L. Selected population and agricultural statistics for Tennessee counties. Tenn. Agr. Exp. Sta. Bull. 419,77 p.,map. Ref. June 1967. 100 T25S

RAMSEY, C. B., COLE, J. W., and SLIGER, R. L. Effect of age of beef females on carcass composition, meat characteristics, and palatability. Tenn. Agr. Exp. Sta. Bull. 420,25 p. Ref. June 1967. 100 T25S

ANDERSON, J. M., and SAFLEY, L. M. Orchardgrass-ladino clover and fescue-ladino clover pasture for beef cows and calves with and without creep feeding. Tenn. Agr. Exp. Sta. Bull. 422,22 p. June 1967. 100 T25S

RAMSEY, C. B., COLE, J. W., and TENDICK, E. W. Effect of breed of steer on muscle fiber diameter and its relation to palatability. Tenn. Agr. Exp. Sta. Bull. 424,19 p. Ref. July 1967. 100 T25S

EPPE, J. M., and HARTWIG, E. E. Dyer, a new nematode-resistant soybean variety. Tenn. Agr. Exp. Sta. Bull. 426,10 p. July 1967. 100 T25S

BADENHOP, M. B. An economic survey of the Upper Cumberland Area with special reference to agriculture. Tenn. Agr. Exp. Sta. Bull. 428, 79 p.,map. Ref. July 1967. 100 T25S

HOSKINSON, P. E. The Hancock cotton variety. Tenn. Agr. Exp. Sta. Bull. 431,14 p. Oct.1967. 100 T25S

GRAVES, C. R. 1967 performance of field crop varieties. Tenn. Agr. Exp. Sta. Bull. 436,87 p., map. Jan.1968. 100 T25S

TENNESSEE farm and home science progress report 64,28 p. Oct./Dec.1967. 100 T25F

#### Texas Agricultural Experiment Station, College Station

TEXAS agricultural progress 14(1),23 p. Winter 1968. 100 T31Te

#### Utah Agricultural Experiment Station, Logan

PETERSON, H. B., and MONK, R. Vegetation and metal toxicity in relation to mine and mill wastes, an annotated bibliography useful in evaluating available literature. Utah. Agr. Exp. Sta. Circ. 148,75 p. Sept.1967. 100 Ut1

UTAH. AGRICULTURAL EXPERIMENT STATION. Recommended pasture planting specifications for Utah. Utah. Agr. Exp. Sta. Circ. 149,16 p. Oct.1967. 100 Ut1

U.S. Department of Agriculture, and Utah State University Agricultural Extension Service, cooperating.

UTAH science 28(1),32 p. Mar.1967. 100 Ut1F

UTAH science 28(2),44 p. June 1967. 100 Ut1F

UTAH science 28(3),77-108. Sept.1967. 100 Ut1F

#### Vermont Agricultural Experiment Station, Burlington

SINCLAIR, R. O., and CRAIG, B. L. Property tax burden in Vermont. Vt. Agr. Exp. Sta. Bull. 652,23 p.,map. Ref. Feb.1968. 100 V59

#### Virginia Agricultural Experiment Station, Blacksburg

SMEAL, P. L. Annual flowers, 1966 variety trials. Va. Agr. Exp. Sta. Res. Rep. 118,18 p. Jan.1967. 100 V81R

#### Washington Agricultural Experiment Stations, Pullman

WASHINGTON. AGRICULTURAL EXPERIMENT STATION. Seventy-seventh annual report, Washington Agricultural Experiment Station. Wash. Agr. Exp. Sta. Bull. 692,16 p. Feb.1968. 100 W27E

#### West Virginia Agricultural Experiment Station, Morgantown

DORSEY, C. K. Experimental use of apholate to control face flies [*Musca autumnalis*] in pastures and house flies [*Musca domestica*] in barns. W. Va. Agr. Exp. Sta. Bull. 555T,16 p. Ref. Oct.1967. 100 W52

HAMILTON, J. R., and WENDEL, G. W. Specific gravity and fiber length of some hybrid poplars [*Populus*] growing in West Virginia. W. Va. Agr. Exp. Sta. Bull. 556T,6 p. Ref. Nov.1967. 100 W52

WEEDFALL, R. O., and others. The climate of Berkeley County, West Virginia; including a climatological summary of Martinsburg. W. Va. Agr. Exp. Sta. Curr. Rep. 49,24 p. Ref. Jan.1967. 100 W52Cu

W. H. Dickerson, H. C. Dwelle, and W. L. Stirm, joint authors.

#### **REGIONAL PUBLICATIONS**

##### North Central Region

SHARPLES, J. A., MILLER, T. A., and DAY, L. M. Evaluation of a firm model in estimating aggregate supply response. Iowa. Agr. Home Econ. Exp. Sta. Res. Bull. 558,61 p. Ref. Jan. 1968. 100 Io9

Agricultural Experiment Stations of Alaska, Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin; and U.S. Department of Agriculture, cooperating.

Also North Central Regional Research Publication No 179.

SPARKS, A. N., and others. Some factors influencing populations of the European corn borer, *Ostrinia nubilalis* (Hubner), in the North Central States: Resistance of corn, time of planting and weather conditions. II. 1958-1962. Iowa. Agr. Home Econ. Exp. Sta. Res. Bull. 559:65-103, map. Ref. Dec.1967. 100 Io9

H. C. Chiang, C. A. Triplehorn, W. D. Guthrie and T. A. Brindley, joint authors.

Agricultural Experiment Stations of Alaska, Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin; and U.S. Department of Agriculture, cooperating.

Also North Central Regional Research Publication No. 180.

COLYER, D., and IRWIN, G. D. Beef, pork, and feed grains in the Cornbelt: Supply response and resource adjustments. Mo. Agr. Exp. Sta. Bull. 921,113 p. Ref. Aug.1967. 100 M693

Agricultural Experiment Stations of Alaska, Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Mississippi, Nebraska, North Dakota, South Dakota, Ohio, and Wisconsin; and U.S. Department of Agriculture, cooperating.

Also North Central Regional Research Publication No. 178.

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## CALIFORNIA University, Agricultural Extension Service, Berkeley

ZENTMYER, G. A., PAULUS, A. O., and BURNS, R. M. Avocado root rot. Calif. Univ. Ext. Circ. 511,16 p. Aug.1967. 100 C12S  
Published jointly with California Agricultural Experiment Station.

## IOWA State University of Science and Technology, Cooperative Extension Service, Ames

IOWA. STATE UNIVERSITY OF SCIENCE AND TECHNOLOGY. COOPERATIVE EXTENSION SERV. Iowa Dairy Herd Improvement Association annual summary, May 1966-April 1967, by D. E. Voelker, H. H. Van Horn, R. E. Whitmore, and B. R. Eastwood. Ames, 1968. 49 p., map. 275.29 I09I

## MARYLAND University, Cooperative Extension Service, College Park

CAIN, J. L., BENDER, F. E., and O'MARA, C. J. Electronic data processing in inventory control and sales analysis for the food processing industry. Md. Univ. Ext. Agr. Econ. Inform. Ser. 45,24 p. Feb.1968. 275.29 M36Agr

GRAHAM, C., and others. 1968 Maryland spray calendar for commercial apple and peach growers. Md. Univ. Ext. Ext. Bull. 134,11 p. Jan.1968. 275.29 M36B

E. R. Krestensen, T. L. Bissell, L. O. Weaver, and G. J. Stadelbacher, joint authors.

SOERGEL, K., and JOHNSON, C. Home landscaping for beauty and enjoyment. Md. Univ. Ext. Ext. Bull. 215,22 p. May 1967. 275.29 M36B

CASON, J. L., FELTON, K. E., and STEWART, L. E. Planning an efficient dairy farmstead. Md. Univ. Ext. Ext. Bull. 222,10 p. Sept.1967. 275.29 M36B

NEWCOMER, J. L., and GIENGER, G. W. Corn planter pointers. Md. Univ. Ext. Ext. Bull. 224,7 p. Jan.1968. 275.29 M36B

BISSELL, T. L., and others. Control of insects on alfalfa & red clover. Md. Univ. Ext. Fact Sheet 149,rev.,4 p. Jan.1968. 275.29 M36Fa  
W. C. Harding, J. W. Neal, and D. Shriver, joint authors.

FELTON, K. E., and CASON, J. L. Housing for dairy herd replacements. Md. Univ. Ext. Fact Sheet 192,4 p. June 1967. 275.29 M36Fa

GOUN, F. R. Japanese hollies [Ilex crenata]. Md. Univ. Ext. Fact Sheet 199,2 p. Nov.1967. 275.29 M36Fa

## MICHIGAN State University of Agriculture and Applied Science, Cooperative Extension Service, East Lansing

BERRY, J. Color in your home. Mich. State Univ. Ext. Ext. Bull. 591,22 p. Oct.1967. 275.29 M58B

DAVIDSON, H. Instructions for planting trees and shrubs. Mich. State Univ. Ext. Ext. Bull. 592,4 p. Jan.1968. 275.29 M58B

## MINNESOTA University, Agricultural Extension Service, St. Paul

ZABEL, M. Living with wood. Minn. Univ. Ext. Ext. Bull. 347,10 p. Feb.1968. 275.29 M66S

HERTZ, L. B., LOFGREN, J. A., and JOHNSON, H. G. Home fruit spray guide. Minn. Univ. Ext. Ext. Pam. 184,8 p.-folder. Dec.1967. 275.29 M66P

BAIERL, T. Shoes for children; buymanship series. Minn. Univ. Ext. Ext. Pam. 218,4 p. Feb.1967. 275.29 M66P

CONLIN, B. J. Extra money by improving reproductive performance. Minn. Univ. Ext. Ext. Pam. 219,6 p.-folder. Apr.1967. 275.29 M66P

BAIERL, T. Underwear for children; buymanship series. Minn. Univ. Ext. Ext. Pam. 221,4 p. Feb.1967. 275.29 M66P

## NORTH CAROLINA University, Extension Service, State College Station, Raleigh

MCNEILL, H. M. Migration in North Carolina, 1955-1960. N. C. State Coll. Agr. Eng. Dep. Agr. Econ. Misc. Publ. 27,8 p. Dec.1967. 281.9 N816M

SMALL, H. Practices for profit: 7 steps to 50 bushel soybeans. N. C. Univ. Ext. Ext. Folder 248,rev.,8 p.-folder. Dec.1967. 275.29 N811Ex

SMITH, G. W., and others. Rats, mice and their control. N. C. Univ. Ext. Ext. Folder 269,8 p.-folder. Nov.1967. 275.29 N811Ex  
H. E. Scott, J. C. Wells, A. B. Rogerson, and W. E. Guley, joint authors.

U.S. Fish and Wildlife Service, cooperating.

LONDON, MRS. R., and SHEARIN, M. Drawn-work. N. C. Univ. Ext. Home Econ. Ser. 66,2 p. Dec.1967. 275.29 N811Hom

NORTH CAROLINA. UNIVERSITY. EXTENSION SERV. Arts and crafts for boys and girls. N. C. Univ. Ext. Home Econ. Ser. 77,15 p. Dec.1967. 275.29 N811Hom

CLAYTON, C. N., and others. 1968 apple spray program for disease and insect control in North Carolina. N. C. Univ. Ext. Leaflet 135,1 p. Jan.1968. 275.29 N811L

G. C. Rock, G. T. Weekman, and H. R. Garriess, joint authors.

NORTH CAROLINA. UNIVERSITY. EXTENSION SERV. North Carolina forest tree planting guide. N. C. Univ. Ext. Leaflet 140,2 p. Feb. 1968. 275.29 N811L

## OHIO State University, Cooperative Extension Service, Columbus

LYON, W. F., and TREECE, R. E. Insect and mite pests of livestock, poultry, and farm buildings. Ohio. State Univ. Ext. Bull. 473,12 p. Jan.1968. 275.29 Oh32

BLAIR, B. D., and others. Suggested guide for the use of insecticides to control insects affecting field corn, small grains, and soybeans. Ohio. State Univ. Ext. Bull. 495,8 p. Jan.1968. 275.29 Oh32

W. F. Lyon, J. B. Polivka, R. E. Treece, and R. W. Rings, joint authors.

## OREGON State University, Federal Cooperative Extension Service, Corvallis

OREGON. STATE UNIVERSITY. FEDERAL CO-OPERATIVE EXTENSION SERV. The growing world of packaging. Oreg. State Univ. Ext. Ext. Circ. 735,6 p.-folder. Feb.1968. 275.29 Or32C

TRIBBLE, M. Bulgur in family meals. Oreg. State Univ. Ext. FS 130,2 p. Feb.1968. 275.29 Or36

STEBBINS, R. L. Mechanical harvesting of prunes in Oregon. Oreg. State Univ. Ext. FS 132,2 p. Feb.1968. 275.29 Or36

## SOUTH CAROLINA - Clemson University, Extension Service, Clemson

COCHRAN, J. H., and others. Peach pest control in South Carolina. Clemson Univ. Ext. Circ. 360,rev.,20 p. Dec.1967. 275.29 S08E  
R. J. Ferree, W. C. Nettles, D. H. Petersen, and R. K. Jones, joint authors.



HAMM, D. Effective poultry house sanitation. Clemson Univ. Ext. Circ. 507, 18 p. Nov. 1967. 275.29 So8E

NETTLES, W. C., THOMAS, C. A., and BEN-TON, D. A. Tobacco insect control recommendations for 1968. Clemson Univ. Ext. Inform. Card 82, rev., 15 p. Feb. 1968. 275.29 So8I

NETTLES, W. C., and THOMAS, C. A. Insect control on forage and pasture crops. Clemson Univ. Ext. Inform. Card 114, chart. Dec. 1967. 275.29 So8I

GARRETT, J. T., NETTLES, W. C., and SMITH, F. H. Growing cabbage in South Carolina. Clemson Univ. Ext. Veg. Leaflet 6, rev., 6 p.-folder. Nov. 1967. 275.29 C593V

CLEMSON UNIVERSITY. EXTENSION SERV. 1966 annual report. Clemson, 1967? 27 p. 275.29 So8A

TENNESSEE University, Agricultural Extension Service, Knoxville

TENNESSEE. UNIVERSITY. AGRICULTURAL EXTENSION SERV. 1968 fruit spray schedules. Tenn. Univ. Ext. Circ. 438, rev., 25 p. Jan. 1968. 275.29 T25C

Published jointly with Tennessee Agricultural Experiment Station.

TEXAS Agricultural and Mechanical University, Agricultural Extension Service, College Station

THOMPSON, U. D. Rations for growing and finishing cattle. Tex. Agr. Mech. Univ. Ext. L-697, 8 p.-folder. Jan. 1967. 275.29 T313

MCFADDEN, F., and SCHEAFFER, B. The voice of clothing. Tex. Agr. Mech. Univ. Ext. L-711, 10 p.-folder. May 1967. 275.29 T313

MADDOX, L. A. BET [Build East Texas] Beef Cattle Improvement Program. Tex. Agr. Mech. Univ. Ext. L-712, 6 p.-folder. May 1967. 275.29 T313

VIRGINIA Polytechnic Institute, Agricultural Extension Service, Blacksburg

WILLIAMS, G. R., and others. 1968 spray bulletin for tree fruits. Va. Polytech. Inst. Ext. Bull. 131, rev., 40 p. Dec. 1967. 275.29 V81B  
M. L. Bobb, C. R. Drake, K. D. Hickey, and C. H. Hill, joint authors.

WASHINGTON State University, Extension Service, Pullman

WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. 4-H bachelor project. Wash. State Univ. Ext. E. M. 601, rev., 12 p. 1967. 275.29 W27Mi

WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. 1968 4-H member guide to application information. Wash. State Univ. Ext. E. M. 1486, rev., 17 p. Dec. 1967. 275.29 W27Mi

WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Roses in your garden. Wash. State Univ. Ext. E. M. 1667, rev., 7 p. Sept. 1967. 275.29 W27Mi

WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Re-upholster? have upholstered? or a new purchase? Wash. State Univ. Ext. E. M. 2027, rev., 4 p. Oct. 1967. 275.29 W27Mi

JOHANSEN, C. Encouraging the bumble bee [Bombus mixtus] pollinator of cranberries. Wash. State Univ. Ext. E. M. 2262, rev., 3 p. Nov. 1967. 275.29 W27Mi

WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet: Barley. Wash. State Univ. Ext. E. M. 2303, rev., 2 p. Dec. 1967. 275.29 W27Mi

WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet: Late summer potatoes. Wash. State Univ. Ext. E. M. 2312, rev., 2 p. Nov. 1967. 275.29 W27Mi

WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet: Turkeys, U.S. Wash. State Univ. Ext. E. M. 2314, rev., 2 p. Nov. 1967. 275.29 W27Mi

WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet: Washington turkeys. Wash. State Univ. Ext. E. M. 2315, rev., 2 p. Nov. 1967. 275.29 W27Mi

WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet: Chicken meat, U.S. Wash. State Univ. Ext. E. M. 2323, rev., 2 p. Oct. 1967. 275.29 W27Mi

WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet: Chicken meat, Washington. Wash. State Univ. Ext. E. M. 2324, rev., 2 p. Oct. 1967. 275.29 W27Mi

WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet: Chicken eggs, Washington. Wash. State Univ. Ext. E. M. 2330, rev., 2 p. Oct. 1967. 275.29 W27Mi

WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet: Chicken eggs, U.S. Wash. State Univ. Ext. E. M. 2331, rev., 2 p. Oct. 1967. 275.29 W27Mi

HOBSON, K. Wheat, world production and use. Wash. State Univ. Ext. E. M. 2341, rev. 6 p. Nov. 1967. 275.29 W27Mi

WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet: Fall potatoes. Wash. State Univ. Ext. E. M. 2343, rev., 2 p. Nov. 1967. 275.29 W27Mi

WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet: Wheat. Wash. State Univ. Ext. E. M. 2357, rev., 2 p. Nov. 1967. 275.29 W27Mi

LIGGETT, E. P. Family spending record. Wash. State Univ. Ext. E. M. 2714, rev., 27 p. Dec. 1967. 275.29 W27Mi

DORAN, S. M., and others. Christmas tree plantation costs and returns for western Washington. Wash. State Univ. Ext. E. M. 2781, rev., 33 p. Oct. 1967. 275.29 W27Mi

J. Buhaly, H. J. VanDeRiet, R. W. McKay, D. R. Sivo, and L. Curry, joint authors.

WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. 1968 spray recommendations for tree fruits in eastern Washington. Wash. State Univ. Ext. Bull. 419, rev., 30 p. Jan. 1968. 275.29 W27P

U.S. Public Health Service, Washington Department of Agriculture, and Fieldmen's Associations of Washington, cooperating.

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS

Includes publications received in the Library during the preceding month.

FAO LIBRARY list of recent accessions, 67 (7/9), 47 p. July/Sept. 1967. 241 F7322  
FAO LIBRARY list of selected articles 4(6), 17 p. June 1967. Z5074.E3F6  
FAO LIBRARY list of selected articles 5(1), 17 p. Jan. 1968. Z5074.E3F6

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Forestry newsletter of the Asia-Pacific region (period ended 30 September, 1966). Bangkok, 1966. 21 p. SD1.F6

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Legislative Report, 16(5):179-232. Sept./Oct. 1967. 241 F7323

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. List of FAO depository libraries. Food Agr. Organ. U. N. Quart. List. Publ. Doc. QL 67(1),9 p. Jan. 1967. 241 F733

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Prices of agricultural products and fertilizers in Europe 1966/67. Geneva, 1968. 174 p. (ST/ECE/AGRI/27) 281.9 Un39

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Timber trends and prospects in Africa. Rome, 1967. 90 p. SD528.F6

United Nations Economic Commission for Africa, cooperating.

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. FORESTRY AND FOREST PRODUCTS DIV. International directory of manufacturers of forestry instruments and hand tools, 1967. Rome, 1967. 174 p. SD388.F6

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. NATIONAL ITALIAN COMMITTEE. Notiziario 17(10),32 p. Oct. 1967. 280.9 F7323

FORESTRY equipment notes D.45.67,2 p.; E.46.67,1 p. Feb., May 1967. 99.9 F73Ed

FORESTRY equipment notes E.47.67,2 p.; E.48.67,1 p.; E.49.67,1 p. May-June 1967. 99.9 F73Ee

QUARTERLY list of publications and main documents QL/66/3,9 p. Sept. 1966. 241 F733

WORLD Review of Animal Production—FAO special issue: More animal protein for tomorrow's world. Vol.III, No.13, 1967. 120 p. 49 W89

WÖRRALL, G. A. Agricultural research in Liberia; a review and summary of publications. Rome, 1967. 85 p. (Food and Agriculture Organization of the United Nations. RU:SF/67/4) Z5071.L5W6





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August 1968

No. 8

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- Soils and Fertilizers
- Miscellaneous

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- Translations
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References on farm structures and rural housing are classified with Agricultural Engineering.

**GENERAL**

- 71514 ALLEN, G. C., and others. Structure of six farm input industries: Petroleum, farm machinery and equipment, fertilizers, chemical pesticides, livestock feeds [and] farm credit. U. S. D. A. Econ. Res. Serv. ERS-357,75 p. Ref. Jan. 1968. A281.9 Ag83E  
T. R. Eichers, P. E. Strickler, J. F. Gale, A. Fox, E. F. Hodges, and P. T. Allen, joint authors.
- 71515 ATKINSON, T. E., WILLIAMS, J. B., and RYKER, D. E. Arkansas, a growing State. Ark. Univ. Ext. Misc. Publ. MP 101,8 p.-folder. June 1967. 275.29 Ar4Mi  
Economic growth, educational situation, and occupational needs.
- 71516 BAHL, R. W., and SAUNDERS, R. J. The rôle of State and local government in the economic development of Appalachia. Land Econ. 44(1): 50-58. Feb. 1968. 282.8 J82
- 71517 BAUGHMAN, E. T. The economic environment 1968 and 2000. II. Seed World 102(4):1-3. Feb. 23, 1968. 61.8 Se52  
Includes the agricultural economy.
- 71518 FRANCE. DIRECTION DE LA DOCUMENTATION. Les economies des Lander de la Republique Federale d'Allemagne: L'economie du Baden-Wurtemberg [The economies of the states of the Federal Republic of Germany: the economy of Baden-Wurtemberg]. France. Dir. Doc. Notes Etudes Doc. 3470,39 p.,map. Mar. 8, 1968. 280.9 F843  
Agriculture included.
- 71519 HOSKINS, W. G. Harvest fluctuations and English economic history, 1620-1759. Agr. Hist. Rev. 16(1):15-31. 1968. 30.98 Ag82  
Chiefly wheat harvests.
- 71520 IVANOV, A. S. The problems of commodity out-put in the socialistic regime. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 129: 23-31. 1967. 20 M857  
Under the economic reform.
- 71521 KROHN, H. The trades unions and us. (Ge) Ubersicht 19(4):259-261. Apr. 13, 1968. 18 Ub3
- 71522 MAHARASHTRA. BUR. OF ECONOMICS AND STATISTICS. Maharashtra—an economic review, 1967-68. Bombay, 1968. 71 p.,map. 269.54 M27M  
Contains a chapter on agriculture.
- 71523 OHIO. STATE UNIVERSITY. 1966 outlook guide, Ohio; handbook of economic information. Ohio. State Univ. Dep. Agr. Econ. Rural Sociol. A.E.410/MM-281,38 p. 1968. 281.9 Oh32  
Cooperative Extension Service, U. S. Department of Agriculture, cooperating.
- 71524 P'YANKOV, V. Our theories. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 1:44. 1968. 30.69 Uc4  
Teaching of economics in the Kazakh SSR.
- 71525 SINGLETON, C. B. Uganda's agricultural economy in brief. U. S. D. A. Econ. Res. Serv. ERS-Foreign 210,14 p.,map. Jan. 1968. A281.9 Ag83
- 71526 SULTANOV, T. Increasing reputation of the profession. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 1:42-43. 1968. 30.69 Uc4  
Economists and bookkeepers on the farms.
- SZENT-IVANY, G. Selected list of recent publications on agricultural economics and policy in Hungary, compiled from the holdings of the U. S. National Agricultural Library. Washington, 1968. 3 p. Z5074.E3S8
- 71529 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Miscellaneous. Hearings—Eighty-ninth Congress, second session. Washington, 1966. 162 p. PREP 1111  
Includes permit planting of soybeans in lieu of cotton in disaster areas, expedition of wheat certificate in 1966, filing date for lease and transfer of tobacco allotments, payment of installments on Farmers Home Administration insured loans, establishment of a minimum price-support level for peanuts, farm real estate loans on leased land in Hawaii, conveyance of lands and improvements to the University of Alaska, reimbursement to State of Wyoming for improvements to lands in Sweetwater County, Wyoming, provision of uniform provisions for crop liens, provision for annual meetings of National Advisory Committee, endorsement of a World Farm Center, soil conservation on small family-type farms, security servicing under Consolidated Farmers Home Administration Act, and simplification of requirements with respect to assignments executed to secure loans.
- 71529 U. S. NATIONAL ADVISORY COMMISSION ON RURAL POVERTY. Rural poverty. Washington, 1967. 403 p. PREP 2271
- AGRICULTURAL FINANCE**
- 71530 AMAGASHIE, R. S. My country wants foreign investment. FAO (Food Agr. Organ.) Rev. 1(1): 47-50. Jan./Feb. 1968. TX341.F63  
Ghana.
- 71531 BAGLEY, E. S. Devaluation and gold. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Dec. 5, 1967, 2 p. HD9004.A1K3
- 71532 GRZYBOWSKI, W. Uncertainty and risk in agriculture. (Pol) Nowe Roln. 17(3):4-6. Feb. 1/15, 1968. 20.5 N86
- 71533 KOZLOV, L. F., and REBUTENKO, V. M. Necessity of analytical methods applied to working capital on the collective farms. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 1:32-33. 1968. 30.69 Uc4
- 71534 LAIRD, W. E., and RINEHART, J. R. Deflation, agriculture, and southern development. Agr. Hist. 43(2):115-124. Ref. Apr. 1968. 30.98 Ag8
- 71535 LOJEWSKI, S. The basic criteria for meliorative investment planning. (Pol) Nowe Roln. 17(4):27-28. Feb. 16/29, 1968. 20.5 N86
- 71536 LYUBIMOV, V. N. Funds for economic stimulation on the state farms with commercial accounting system. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 11:28-29. 1967. 30.69 Uc4
- 71537 NOORT, P. C. van den. Investment criteria for public projects. Neth. J. Agr. Sci. 16(1):36-42. Ref. 1968. 12 N3892
- 71538 ROGERS, S. J. Working capital and farm planning. N.A.A.S. (Nat. Agr. Adv. Serv.) Quart. Rev. 79:93-98. Spring 1968. 241 G796
- 71539 ROMANCHENKO, G. Accumulation and growth of the working capital on the collective farms. (Rus) Voprosy Ekon. 2:25-34. Feb. 1968. 280.8 V89
- 71540 SAPIL'NIKOV, E. Intensified state farm production by decreased basic capital. (Rus) Voprosy Ekon. 2:35-44. Feb. 1968. 280.8 V89
- 71541 SCAPACCINO, G. The policy of the EAGGF [European Agricultural Guidance and Guarantee Fund] is harmful to Italy. (It) Rass. Agr. Ital. 23(1):22-24. Jan. 1968. 281.8 R18
- 71542 SILIN, A. Calculating profitability of agricultural production. (Rus) Vestnik Statist. 2:15-22. 1968. 267 V63  
In relation to capital investment.
- 71543 STREL'NIKOV, V. V. Capital investments in the fruit orchards. (Rus) Sadovodstvo 1:10-11. Jan. 1968. 80 Sa13
- Credit**
- 71544 TSERLEVSKAYA, E. Analysis of capital investment according to data of the collective farm annual report. (Rus) Vestnik Statist. 2: 34-45. 1968. 267 V63

- 71545 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Legislative policy of the Bureau of the Budget. Hearing—Eighty-ninth Congress, second session, July 11, 1966. Washington, 1966. 50 p. PREP 1110
- 71546 AGADZHANOV, N. G., and SOKOLOV, V. M. Credit—important factor for collective farming. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 11:20-23. 1967. 30.69 Uč4
- 71547 AGRICULTURAL MORTGAGE CORPORATION LIMITED. Thirty-ninth report and accounts, 31st March, 1968, and chairman's statement. London, 1968. 10 p. 284.29 Ag83
- 71548 BRAKE, J. R. Can rural banks meet increased farm credit demands? Banking 60(10):80,82-83. Apr.1968. 284.8 Am3
- 71549 CAMERON, L. K. The Papua and New Guinea Development Bank. S. Pac. Bull. 18(1):46-47, 52. First Q.1968. 280.8 So89
- 71550 DURRANT, K. C. Government policy on farm finance. (Condensed.) New Zealand J. Agr. 116 (4):69,71. Apr.1968. 23 N48J  
Credit policy.
- 71551 GUMMERT. Farm management consequences of agrarian credit. (Ge) DLZ—Landtech. Z. 19 (3):140,156,158. Mar.1968. 58.8 T677
- 71552 LAND AND AGRICULTURAL BANK OF SOUTH AFRICA. Annual report, 1967. Cape Town, 1968. 23 p. 284.29 L22
- 71553 NAREZHNI, S. E. New forms of credits for the state farms. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 1:22-23. 1968. 30.69 Uč4
- 71554 STRAZDYN'SH, YA. P. Removing disadvantages in the state farm credits. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 1:17-19. 1968. 30.69 Uč4
- 71555 SULLIVAN, G. D. Sources of conventional housing loans. La. Rural Econ. 30(2):12-16. May 1968. 281.8 L93
- 71556 TRIVEDI, H. H. Role of loan finance in cattle development. Gosamvardhana 15(12):14-18. Mar.1968. 43.8 G69  
In India.
- 71557 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Emergency loans for first processors. Hearings—eighty-ninth Congress, second session on H.R. 15661, July 12, 1966. Washington, 1966. 38 p. PREP 1106  
For losses due to commodity programs.
- 71558 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Federal Intermediate Credit Banks deplete interest rate limitation. Hearing—eighty-ninth Congress, second session on H.J. Res. 1217, August 3, 1966. Washington, 1966. 18 p. PREP 1107
- 71559 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Improve operations of the Farm Credit Administration. Hearing—eighty-ninth Congress, second session on S. 2822, June 15, 1966. Washington, 1966. 44 p. PREP 1109
- 71560 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Rural electric and rural telephone supplemental financing. Hearings—ninetyeth Congress, first session on H.R. 1400, H.R. 7306, March 21, 22, 23, April 4, 5, 6, 11, 12, and 13, 1967. Washington, 1967. 666 p. PREP 1083
- 71561 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Rural telephone financing. Hearings—eighty-ninth Congress, second session on Title V and Title VI, H.R. 14837, September 13 and 14, 1966. Washington, 1966. 52 p. (Committee Print No. 3) PREP 1130
- 71562 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Rural telephone supplemental financing. Hearings—ninetyeth Congress, first session on H.R. 12066. Washington, 1967. 77 p. PREP 1845
- 71563 U. S. CONGRESS. SENATE. COMMITTEE ON AGRICULTURE AND FORESTRY. Interest rates. Hearings—ninetyeth Congress, first session on S. 2565; a bill to amend the Federal Farm Loan Act and the Farm Credit Act of 1933, as amended, and for other purposes. Washington, 1967. 59 p. PREP 1981
- 71564 U. S. CONGRESS. SENATE. COMMITTEE ON AGRICULTURE AND FORESTRY. Simplification of Farm Credit Administration laws. Hearings—eighty-ninth Congress, second session on S. 2822, a bill to amend various provisions of the laws administered by the Farm Credit Administration to improve operations thereunder, and for other purposes, February 24, 1966. Washington, 1966. 33 p. PREP 1146
- 71565 U. S. FARM CREDIT ADMIN. 34 annual report 1966-67, the cooperative farm credit system. Washington, 1968. 117 p. 166.2 An7
- 71566 U. S. FARMERS HOME ADMIN. Operating loans for better farming, better living. U. S. D. A. PA-182, slightly rev., 8 p. Oct.1967. 1 Ag84Pro
- 71567 WALTON, R. L. Simplified agricultural forms for the large and small bank. Ill. Banker 49 (10):35. Apr.1968. 284.8 G79
- Income
- 71568 BANDINI, M. Farm dimensions and parity of income. (It) G. Agr. 78(14):171-172. Apr.7, 1968. 16 It1G
- Inflation
- 71569 GALAMINI, L. The dangers of inflation and deflation under the profile of agricultural interests. (It) Rass. Agr. Ital. 23(1):14-15. Jan. 1968. 281.8 R18
- Insurance
- 71570 CARLIN, T. A., and WISE, J. O. An economic analysis of the Georgia Development Authority. Ga. Agr. Exp. Sta. Res. Rep. 3,26 p., map. May 1967. S51.E22  
Mortgage insurance.
- 71571 WINTERHALTER, M. The utilization of forcibly slaughtered livestock. (Se) Vet. Glas. 21 (11):905-907. 1967. 41.8 J93  
Insurance and legal aspects of slaughtering.
- Taxation
- 71572 BARGE, J. The regime of the imposition of the added value tax. (Fr) Gaz. Apic. 69(727):8-10. Jan.1968. 424.8 G25
- 71573 CARVILLE, L. A. The farmer's Federal income taxes. La. Rural Econ. 30(1):10-12. Feb. 1968. 281.8 L93
- 71574 CHARMETANT, J. C. Added value tax, a choice to make. (Fr) Agr. Prat. 132(3):19-25. Mar.1968. 14 J82
- 71575 KEAST, J. D. Depreciation strategy. Doane's Agr. Rep. 31(14):12D,28B-28D-29. May 8, 1968. 281.8 D652  
Depreciation of farm equipment and breeding stock for tax purposes.
- 71576 NERTINGER, J. An official definition of the concepts of "milk" and "dairy products" in the added value tax. (Ge) Deut. Molk.-Zeitung 89(3):73. Jan.18, 1968. 44.8 Su2
- 71577 NOTON, N. H. Agricultural buildings allowance—the benefits. Farm Bldg. Dig. 3(14):17-20. Spring 1968. 241.4 F22  
Taxation in Great Britain.
- 71578 PELLIZZARI, C. Tax reform versus farm modernization. (It) Rass. Agr. Ital. 23(1):26-27. Jan.1968. 281.8 R18
- 71579 SAINT-MARTIN, J. The added value tax. (Fr) Sucrierie Franc. 109(3):54-57. Mar.1968. 65.8 J82



- 71580 SCHMIDT, A. La taxe sur la valeur ajoutée en Republique Federale d'Allemagne a partir du 1er janvier 1968 [The added value tax in the Federal Republic of Germany from January 1, 1968]. Inform. Com. Exterior. Suppl. Ser. C 1, 86 p. Feb.1968. 286.8 In36  
Official text with commentary.
- 71581 STREIT, Tax problems in the field of agriculture; development of tax legislation since October 1966. (Ge) Recht Landwirt. 20(1):1-7. Jan.1968. 30.58 R24
- 71582 SVOBODIN, V. Proper determination of the income tax. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 1:23-24. 1968. 30.69 Uc4  
Collective farms.
- 71583 WALKER, W. P. Recent trends in tax resources of county governments in Maryland; trend in taxable basis against real estate and certain personal property in Maryland, 1956-1966. Md. Agr. Exp. Sta. Misc. Publ. 643, 19 p. Mar.1968. 100 M36M
- AGRICULTURAL LABOR AND WAGES**
- 71584 BORNESCHEUER, E. Less work—lower costs. (Ge) Ubersicht 19(4):282-286. Apr.13,1968. 18 Ub3  
Use of monogerm sugar beet seed.
- 71585 BRIGGS, W. M. Manpower programs and regional development. U. S. Bur. Labor. Statist. Mon. Labor Rev. 91(3):55-61. Ref. Mar.1968. 158.6 B87M  
Rural areas included.
- 71586 CHURAKOV, V. Problems of using rural labor resources. (Rus) Voprosy Ekon. 1:40-49. Mar.1968. 280.8 V89
- 71587 DANKOVA, L. Experience with hourly rating in calculating labor costs. (Rus) Ekon Sel'skogo Khoz. 1:96-99. 1968. 281.8 So73  
On the collective farms.
- 71588 DE STEFANI, A. Social reintegration and policy of the agricultural order. (It) G. Agr. 78 (12):141. Mar.24,1968. 16 It1G  
Comparison of agricultural and industrial labor.
- 71589 EROFTEEV, P. Wages of the senior repair men on the state farms. (Rus) Tekh. Sel'skom Khoz. 4:88-89. 1968. 58.8 M11
- 71590 GANEV, A. Wages and material stimulation on the cooperative farms in Bulgaria. (Rus) Ekon. Sel'skogo Khoz. 2:109-113. 1968. 281.8 So73
- 71591 GARIPOV, K. Additional wages for high quality. (Rus) Zemledelie 4:35. Apr.1968. 20 Z44  
Incentives on the collective and state farms.
- 71592 HAMILL, J. G. Economics of farm labor. La. Rural Econ. 30(2):8-12. May 1968. 281.8 L93  
Includes wages in the United States and legislation affecting labor in Louisiana.
- 71593 HYPRI, I. Productivity of labor in slaughtering and processing livestock in slaughterhouses. (Cz) Zpravod. Masneho Prum. 1:28-34. 1968. TS1950.26  
English summary.
- 71594 JONES, E. W. Farm labor and public policy. U. S. Bur. Labor. Statist. Mon. Labor Rev. 91 (3):12-15. Mar.1968. 158.6 B87M  
Problem of excess labor and depressed earnings.
- 71595 KHANUKAEV, S. Determination of labor costs and the number of laborers on the collective farms. (Rus) Voprosy Ekon. 1:138-141. Jan. 1968. 280.8 B89
- 71596 KHIZNHNYAKOV, V. Calculating hourly labor costs. (Rus) Ekon. Sel'skogo Khoz. 2:79-82. 1968. 281.8 So73  
On the collective farms.
- 71597 LABYAK, A. Mechanized working teams, (Rus) Sadovodstvo 2:12. Feb.1968. 80 Sa13  
Fruit.
- 71598 NAGY, J., and KOVACS, Z. The problem of guaranteed wages in the kolkhozes. (Hu) Gazdalkodas 12(1):53-61. 1968. 281.8 G25  
USSR.
- 71599 SAKOFF, A. N. Production brigades: organizational basis of farm work in the U.S.S.R. Food Agr. Organ. U. N. Mon. Bull. Agr. Econ. Statist. 17(1):1-8. Jan.1968. 251 F73Mb
- 71600 SINAK, J. Regulation of wages in state farms during 1968. (Cz) Statni Statky 1:1-2. 1968. 19.5 S2
- 71601 SLOBODIN, V., SAFRONOV, N., and KALUGIN, V. Increasing material interest of tractor operators working with special seed planters. (Rus) Ekon. Sel'skogo Khoz. 2:107-108. 1968. 281.8 So73
- 71602 SPEICHER, J. A., and MACLACHLAND, D. L. Labor requirements of open-lot, covered free stall housing. Dairy Herd Manage. 4(3):10-13. Mar.1968. SF191.D3
- 71603 STOBBER, W. J. Employment and economic growth: Southeast. U. S. Bur. Labor. Statist. Mon. Labor Rev. 91(3):16-23. Ref. Mar.1968. 158.6 B87M  
Agricultural employment included.
- 71604 STODDARD, G. E. Incentive contracts. Dairy Herd Manage. 4(2):44. Feb.1968. SF191.D3  
For dairy farm labor.
- 71605 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. The application of minimum wages in agriculture. Hearings—ninetieth Congress, first session, February 27, 1967. Washington, 1967. 48 p. PREP 1082
- 71606 U. S. CONGRESS. HOUSE. COMMITTEE ON EDUCATION AND LABOR. Extension of National Labor Relations Act, as amended, so as to make its provisions applicable to agriculture. Hearings held in Washington, D. C., May 1, 4, 5, 8, 9, and 12, 1967. Washington, 1967. 294 p. PREP 1623
- 71607 U. S. CONGRESS. SENATE. COMMITTEE ON LABOR AND PUBLIC WELFARE. Amending migratory labor laws. Hearings—eighty-ninth Congress, first and second sessions, on S. 1864, S. 1968; bills to amend migratory labor legislation relating to migrant workers, July 7, 8, and 13, 1965, Washington, D. C.; March 14, Sacramento, California; March 15, Visalia California; March 16, Delano, California; and April 12, 1966, San Antonio, Texas. Washington, 1966. 838 p. PREP 1150
- AGRICULTURE - SITUATION, POLICIES, AND PROGRAMS**
- 71608 ALBERTARIO, P. Agricultural policy of the Community on trial. (It) G. Agr. 78(14):171. Apr.7,1968. 16 It1G
- 71609 AMERICAN SAMOA. GOVERNOR. 1966 annual report to the Secretary of the Interior. Washington, 1968. 103 p. 156 An73  
Includes agricultural policy.
- 71610 ANDERSON, A. Structural changes in the farming and forestry of Kalmar County 1965-1980. (Sw) Kalmar Lans Hushallningssallsk. Tidskr. 2:7-9. Apr.1967. 11 K123
- 71611 BANDINI, M. Production limits of Italian agriculture. (It) G. Agr. 78(12):142. Mar.24, 1968. 16 It1G
- 71612 BASSETT, I. G., and THOMSON, K. W. Land use and agrarian change on Aitutaki, Cook Islands. S. Pac. Bull. 18(1):25-30, map. First Q.1968. 380.8 So89
- 71613 BAUMER, M. Algeria in search for a new rural development. (Fr) Marches Trop. Mediter. 24(1165):607-609. (Cont.) Mar.9,1968. 286.8 M33  
For the improvement of agricultural production.
- 71614 BEAL, G. M., ISHEE, S., and WYSONG, J. W. Farm programs: some observations and ideas. Md. Univ. Ext. Agr. Econ. Inform. Ser. 35, 37 p. June 1966. 275.29 M36Ag4
- 71615 BOONE, L. M., and LARD, C. F. Changes in Tennessee agriculture by counties 1954-1964. Tenn. Agr. Exp. Sta. Bull. 435, 66 p., map. Dec. 1967. 100 T25S

- 71616 BROWN, E. E., and CULVER, D. W. The economic development of the Northeast Georgia Planning and Development Commission Area through utilization of the agricultural and agribusiness base. Ga. Agr. Exp. Sta. Res. Bull. 5,49 p.,map. Apr.1967. S51.E2  
Northeast Georgia Area Planning and Development Commission, cooperating.
- 71617 BROWNE, R. A competitive industry: British agriculture. (Fr) Nouvelles Marches Agr. 131 (study 1439):17-26. Jan.1968. 286.8 N85  
Includes policy.
- 71618 CHAI, J. C., BROWN, E. E., and LAPLANTE, M. G. The economic development of the Altamaha Planning and Development Commission Area of Georgia through utilization of the agricultural and agribusiness base. Ga. Agr. Exp. Sta. Res. Bull. 20,48 p.,map. Nov.1967. S51.E2  
Altamaha Area Planning and Development Commission (Georgia), cooperating.
- 71619 CHAI, J. C., BROWN, E. E., and LAPLANTE, M. G. The role of the agricultural and agribusiness base in the economic development of the Slash Pine Planning and Development Commission Area of Georgia. Ga. Agr. Exp. Sta. Res. Bull. 23,49 p.,map. Ref. Nov.1967. S51.E2  
Slash Pine Area Planning and Development Commission (Georgia), cooperating.
- 71620 CRAWFORD, J. P. Nicaraguan prospects fairly good despite expectation of poor cotton crop. dip in reserves. Int. Com. 74(14):12-13. Apr.1,1968. 157.54 F763
- 71621 CULVER, D. W., and BROWN, E. E. Timber, wood products, and water resources in the economic development of the Chattahoochee-Flint Commission Area of Georgia. Ga. Agr. Exp. Sta. Res. Bull. 8,41 p.,map. Ref. June 1967. S51.E2  
Chattahoochee-Flint Area Planning and Development Commission (Georgia), cooperating.
- 71622 DEITEMEYER, C. W. FSC [Rural Services] Division aim, developing rural America. News Farmer Coop. 35(2):3-4. May 1968. 166.2 N47
- 71623 ENTRINGER, H. Tasks for agricultural progress. Intereconomics 4:113-116. Apr.1968. HF17.15.  
In developing areas.
- 71624 FAR EASTERN ECONOMIC REVIEW. 1968 year book. Hongkong, 1968. 352 p. 280.8 F224  
Includes agricultural situation of the various countries.
- 71625 FISCHER, T. American agriculture is "dynamic and demanding." Banking 60(10):84. Apr. 1968. 284.8 Am3
- 71626 FREEMAN, O. New concepts in US food aid. FAO (Food Agr. Organ.) Rev. 1(1):26-29. Jan./Feb.1968. TX341.F63  
Agricultural program.
- 71627 FREEMAN, O. L. World without hunger. New York, Frederick A. Praeger, 1968. 190 p. HD9000.5.F7  
Bibliography, p.181-185.  
Contents: 1, The problem—man and his food supply; 2, A world role for American agriculture; 3, Difficulties of agricultural development; 4, The why, what, and how of technical assistance; 5, Capital for agricultural development; 6, Private investment; 7, Volunteers and voluntary agencies; 8, International cooperation; 9, The food crisis in India; 10, Farming and food for the future.
- 71628 GILL, C. E., and MARKS, R. T. Guide for obtaining wildlife and beautification conservation practice payments under A.C.P. [Agricultural Conservation Program]. Va. Polytech. Inst. Ext. Leaf. 326,6 p.-folder. Dec.1967. 275.29 V81L
- 71629 LAPLANTE, M. G., CULVER, D. W., and CHAI, J. C. The economic development of the Chattahoochee-Flint Planning and Development Commission Area of Georgia through utilization of the agricultural and agribusiness base. Ga. Agr. Exp. Sta. Res. Bull. 21,58 p.,map. Oct.1967. S51.E2  
Chattahoochee-Flint Area Planning and Development Commission (Georgia), cooperating.
- 71630 LOVRICH, F. M. Work among the Yugoslavs on the Mississippi Delta. Amer. J. Econ. Sociol. 27(2):133-146. Ref. Apr.1968. 280.8 Am393  
Agricultural activity included.
- 71631 LUCAS, R. J. Agricultural progress on Niue. S. Pac. Bull. 18(1):35-39. First Q.1968. 280.8 So89  
Policy, including pasture development.
- 71632 MARYLAND. AGRICULTURAL EXPERIMENT STATION. Maryland Agricultural Experiment Station publications, 1960--1965. Md. Agr. Exp. Sta. Bull. A-154,23 p. Aug.1967. 100 M36S
- 71633 MERRY, D. M. E. Farming in Franklin County. New Zeal. J. Agr. 116(3):44-45,47,49,51. Mar. 1968. 23 N48J
- 71634 MINNEMAN, P. G. Status of West Germany's agriculture. Foreign Agr. 6(18):5-6. Apr.29, 1968. A281.9 F76Fo
- 71635 MINNESOTA. UNIVERSITY. AGRICULTURAL EXTENSION SERV. Publications. St. Paul, 1968. 33 p. 275.29 M664  
Published jointly with Minnesota Agricultural Experiment Station.
- 71636 MURRAY, G. Hunger knows no creed—how AFPRO [Action for Food Production in India] fights famine. Town Country Church 198:22-24. Jan./Apr.1968. 281.28 T66  
Agricultural development program.
- 71637 OBADHA, W. G. Agriculture as seen from Hawaii. Kenya Farmer 138:6,37. Jan.1968. 24 R812
- 71638 PAWLEY, W. H. Horizon 1985. FAO (Food Agr. Organ.) Rev. 1(1):21-25. Jan./Feb.1968. TX341.F63  
Indicative World Plan for Agricultural Development.
- 71639 SACHS, I. A false dilemma; must developing countries make a stark choice between agriculture and industry? FAO (Food Agr. Organ.) Rev. 1(1):37-38. Jan./Feb.1968. TX341.F63
- 71640 SIMPSON, I. G. The developing balance between manpower and machinery, land and water in the Sudan. Trop. Agr. 45(2):79-89. Apr. 1968. 26 T754  
Irrigation farming.
- 71641 SMITH, O. C., and GOLDEN, W. I. Let's get better acquainted with agriculture. Ga. Univ. Ext. Bull. 666,8 p. Jan.1967. 275.29 G29B
- 71642 SOURNAC, A. "Development" and agriculture. (Fr) Agr. Prat. 132(2):13-15. (Cont.) Feb. 1968. 14 J82
- 71643 SOURNAC, A. "Development" and agriculture. II. (Fr) Agr. Prat. 132(3):13-17. Mar.1968. 14 J82  
Policy and structure.
- 71644 TARDIF, L. Farming possibilities on the upper north side of the river Saguenay to Moisie river. Agriculture [Montreal] 25(1):15-17,21,map. Ref. Mar.1968. 7 Ag82
- 71645 TARR, MRS. R. L'alimentation et l'agriculture des pays en voie de developpement. [Food and agriculture in developing countries]. II. Organ. Econ. Coop. Develop. Libr. Spec. Annot. Bibliogr. 13,110 p. 1967. 241.2 Or3
- 71646 TIPPERARY COUNTY (IRELAND). COMMITTEE OF AGRICULTURE. Annual report 1967/'68. Nenagh, 1968. 92 p. 10.5 T49
- 71647 TOTTH, MRS. J. The agriculture of the German Democratic Republic. (Hu) Gazdalkodas 12(1):48-53. 1968. 281.8 G25



- 71648 U. S. AGRICULTURAL STABILIZATION AND CONSERVATION SERV. 1967 annual report; Virginia. Richmond, 1967? 73 p. A281.9 St17 Programs of the Agricultural Stabilization and Conservation Service.
- 71649 U. S. AGRICULTURAL STABILIZATION AND CONSERVATION SERV. Washington, 1966 annual report. Spokane, 1967? 189 p., map. A281.9 St192  
Programs of the Agricultural Stabilization and Conservation Service.
- 71650 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. The agricultural situation—1967. Hearings—ninetieth Congress, first session, February 8, 1967. Washington, 1967. 55 p. PREP 1077
- 71651 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Effect of federal programs on rural America. Hearings—ninetieth Congress, first session, June 6, 7, 8, 12, 13, 14, 15, 19, 20, 21, 22, 26, 27, 28, 29, July 10, 11, and 12 1967. Washington, 1967. 876 p. PREP 1794
- 71652 U. S. DEPT. OF AGRICULTURE. ECONOMIC RESEARCH SERV. The world agricultural situation, review of 1967 and outlook for 1968, by D. Chrisler. U. S. D. A. Foreign Agr. Econ. Rep. 38, 27 p. Feb. 20, 1968. A281.9 Ag8F  
U. S. Foreign Agricultural Service, cooperating.
- 71653 U. S. FARMERS HOME ADMIN. Technical Action Panels: Rural areas development and outreach functions. U. S. D. A. PA-850, 4 p. Jan. 1968. 1 Ag84Pro
- 71654 U. S. NATIONAL AGRICULTURAL LIBRARY. Dictionary catalog of the National Agricultural Library, 1862—1965. V.1-10, A-B. New York, Rowman and Littlefield, 1967. 10 v. aZ5076.N32
- 71655 U. S. TRUST TERRITORY OF THE PACIFIC ISLANDS. 1967 annual report to the Secretary of the Interior for the fiscal year ended June 30. Washington, 1968. 46 p. 156.862 An7  
Includes agricultural policy.
- 71656 VIRGIN ISLANDS. 1967 annual report to the Secretary of the Interior for the fiscal year ended June 30. Washington, 1968. 155 p. 254.8 V812  
Includes report of agriculture.
- 71657 VIRIEU, F. H. DE. La fin d'une agriculture; bilan de la V<sup>e</sup> République [The end of an agriculture; balance sheet of the Fifth Republic]. Paris, Calmann-Levy, 1967. 288 p. (Questions d'Actualité) HD1967.V5 1967  
Bibliography, p.285-286.
- 71658 WENMOHS, J. R. "Cultural revolution" hits China's farming. Peanut J. Nut World 47(5): 28-29, 31. Mar. 1968. 77.8 P313
- 71659 WILSON, J. M. Farming cameo: series 4. 10. Cumberland (Whitehaven District). Great Brit. Min. Agr. Fish. Food. Agr. 75(4):189-190. Apr. 1968. 10 G79J
- Subsidies
- 71660 CHABRA, B. L. Role of Goshalas in cattle development and increased milk production in Rajasthan. Gosamvardhana 15(12):19-30. Mar. 1968. 43.8 G69  
Unit organization according to Gaushala Development Scheme with government subsidies.
- 71661 SILCOCK, T. H. The rice premium and agricultural diversification. In his Thailand; social and economic studies in development, p.231-257. 1967. HC497.T5S5
- 71662 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Permit advance payments to wheat producers. Hearings—ninetieth Congress, first session on H.R. 6437, H.R. 6438, H.R. 6439, H.R. 6440, and H.R. 7574. Washington, 1967. 22 p. PREP 1839  
Amendment of the Agricultural Adjustment Act of 1938.
- COST AND STANDARD OF LIVING
- 71663 STOLPOV, N. Growth of the living standards and the cultural level of working peoples in the European socialist countries—members of the Council for Mutual Economic Assistance. (Rus) Voprosy Ekon. 1:117-127. Ref. Jan. 1968. 280.8 V89
- 71664 THI NGUYEN HUU. Results of a permanent inquiry on living conditions of households. (Fr) France. Inst. Nat. Statis. Etudes Econ. Etudes Conjoncture 22(11):2-101. Nov. 1967. 280.8 F84  
Farmers and agricultural workers included.
- FARM MANAGEMENT AND LAND ECONOMICS
- 71665 AKHTAR, M. I., and MULLINS, T. Optimum resource use on a representative rice farm under selected tenure situations, acreage allotments and rice prices—Coast Prairie of Texas. Tex. Agr. Exp. Sta. MP-868, 15 p., map. Jan. 1968. 100 T31M
- 71666 ALSTON, C. Partial budgeting (an aid in farm business planning). Fla. Univ. Ext. Circ. 323, 7 p. Mar. 1968. 275.29 F66C
- 71667 ARIZONA. UNIVERSITY. AGRICULTURAL EXTENSION SERV. Arizona farm & home publications of the University of Arizona Cooperative Extension Service and Agricultural Experiment Station. Ariz. Univ. Ext. Folder 68, rev., 15 p. Jan. 1968. 275.29 Ar42Ext
- 71668 ARTEMENKO, V., and others. Planning farm areas and organizational forms of collective and state farms. (Rus) Ekon. Sel'skogo Khoz. 2:88-97, map. 1968. 281.8 So73  
N. Isaenko, G. Kuznetsov, and G. Puchkov, joint authors.
- 71669 BAILEY, F. A report on the nation's two agricultures. II. The bigs. Banking 60(10):79-80. Apr. 1968. 284.8 Am3
- 71670 BERRYHILL, R. A grower looks at contract agreements between wineries and growers. Wines Vines 49(2):28-29. Feb. 1968. 95.8 C122
- 71671 BORODAVKO, A. G. Profitability and the conditions of production realization. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 1:28-29. 1968. 30.69 Uc4  
Financial management of the collective and state farms.
- 71672 BOSSON, J. "Time sharing": a new method which places the manager within the reach of all. (Fr) Agr. Prat. 132(2):22-23. Feb. 1968. 14 J82
- 71673 BROOKS, J. H. Farm management opportunities for banks. III. Banker 49(7):24, 28. Jan. 1968. 284.8 G79
- 71674 CONNOR, L. J., and others. Michigan farm management handbook. Mich. State Univ. [Ext.] Agr. Econ. Rep. 36, 84 p. Oct. 1967. 281.9 M5842  
G. L. Benjamin, J. R. Brake, and W. F. Lee, joint authors.  
Chiefly finance.
- 71675 DOYLE, R. J., and OLIVER, G. D. Sheep programmes for Esperance settlers with limited finance. West. Australia. Dep. Agr. J. (ser.4) 8(11):458-460, 463-464, 467-469. Nov. 1967. 23 W52J
- 71676 DZIDZIGURI, K. P., ABURDZHANIYA, O. K., and SHUKAKIDZE, E. G. Reticular methods applied in the management of agricultural enterprises. (Rus) Akad. Nauk Gruz. SSR. Soobshch. 49(1):25-30. Jan. 1968. 511 Ak146  
Cybernetics.
- 71677 EHRENFORTH, W. Who is entitled to apply for acquisition of a part-time farm according to the Federal Displaced Persons Law? (Ge) Recht Landwirt. 20(1):7-9. Jan. 1968. 30.58 R24
- 71678 FINLEY, R. M. A budgeting approach to the question of homestead size on the Plain. Agr. Hist. 43(2):109-114. Ref. Apr. 1968. 30.98 Ag8

- 71679 FIRSOV, E. On the rational level of specialization. (Rus) *Kartofel' Ovoshchi* 1:16-17. Jan.1968. 75.8 K147 Farms.
- 71680 GEYER, R. E. Help wanted? it's on the way; two year college training courses prepare youths for feedlot employment. *Feedlot* 10(4):12-15. Apr.1968. 43.8 F32 Management.
- 71681 HESSELBACH, J. Cooperative forms of swine production in the Federal Republic. (Ge) *Tierzuchter* 20(4):101-102. Feb.20,1968. 49 T445
- 71682 HOGlund, C. R. Adjustments on southern Michigan dairy farms. *Mich. Agr. Exp. Sta. Res. Rep.* 66,11 p. Jan.1968. 284.9 M58
- 71683 HOPKIN, J. A. Financial strategies for the 1970s. *Agr. Banking Financ.* 10(2):18,20,22. Mar./Apr.1968. 284.8 B22  
Farm types including corporate and part-time farms.
- 71684 JERZAK, M. The organization and economic problems on grassland farms. (Pol) *Nowe Roln.* 17(5):29-32. Mar.1/15,1968. 20.5 N86
- 71685 KOWALSKI, S. Present and prospective pattern of a foreman on state farms. (Pol) *Nowe Roln.* 17(3):30-31. Feb.1/15,1968. 20.5 N86
- KUNOWSKI, VON. Part-time farming and educational status. (Ge) *Landarbeit* 19(2):9-12. Feb.1968. 18 L2355
- 71687 LACZKO, I. Some organizational problems in hill farming as reflected by experiences gained in the Comitát Borsod. (Hu) *Gazdalkodas* 12(1):13-24. 1968. 281.8 G25  
English summary.  
Includes soil erosion aspect.
- 71688 LAND SETTLEMENT ASSOCIATION LIMITED. Smallholdings organised on the basis of centralised services; report and accounts for the year 1966-67. London, H. M. Stationery Office, 1968. 29 p. 282.29 L23A  
Submitted to the Minister of Agriculture, Fisheries and Food.  
Management of tenant farms.
- 71689 LONGO, L. P. We use computers to help make management decisions. *Hoard's Dairyman* 113(8):546-547. Apr.25,1968. 44.8 H65
- 71690 MADVEDEV, N. The capacity of management and the most suitable farm size. (Rus) *Sel'skogo Khoz.* 2:74-79. 1968. 281.8 So73
- 71691 MAKSIMENKO, G. D. Increasing returns of the capital on the collective farms. (Rus) *Uchet Finansy Kolkhoz. Sovkhoz.* 1:31-32. 1968. 30.69 Uc4
- 71692 MCLAUCHLAN, G. Hawkes Bay supports variety of farming enterprises. *New Zeal. J. Agr.* 116(3):20-23. Mar.1968. 23 N48J
- 71693 NESTEROV, V. G., and BAGNOVETS, S. R. Bioecological task of the most profitable composition of agricultural crops on the state farm in Yakhroma. (Rus) *Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl.* 131:125-129. 1967. 20 M857  
Linear programming used.
- 71694 NESTEROV, V. G., and KRYLOVA, V. I. Some problems of elaborating bioecological composition of agricultural crops. (Rus) *Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl.* 131:131-136. 1967. 20 M857  
Research method.
- 71695 ORBAN, R. Some organizational problems in large-scale swine production. (Hu) *Gazdalkodas* 12(1):1-12. 1968. 281.8 G25  
English summary.
- 71696 PALASZ, L. Balance of managerial staff workers in agriculture for the years 1966-1970 in the Szczecin voivodship. (Pol) *Nowe Roln.* 17(3):28-30. Feb.1/15,1968. 20.5 N86
- 71697 PEARL, M. Policy considerations for public land grazing. *Nat. Wool Grower* 53(5):12-15. May 1968. 45.8 N21N
- 71698 QUEENSLAND. DEPT OF LANDS. Annual report, 1966-76. Brisbane, 1967. 30 p. 271.3 P967
- 71699 RIEBE, K. Operational research on the farm. (Ge) *Agrarwirtschaft* 17(3):78-83. Ref. Mar. 1968. 281.8 Ag826  
English summary.
- 71700 ROTHE, J. Closing the gap, production guidelines point to greater yields and efficiency. *Tex. Agr. Progr.* 14(1):4-6. Winter 1968. 100 T31Te  
Extension program on farm management.
- 71701 ROWE, J. An early west-country sheep farmer in Australia. *Agr. Hist. Rev.* 16(1):49-53. 1968. 30.98 Ag82
- 71702 SAUPE, W. E., and KALDOR, D. R. Efficient organization of the farm industry in the North Central Region of the United States in 1959 and 1980. *Iowa. Agr. Home Econ. Exp. Sta. Res. Bull.* 560,49 p.,map. Ref. Mar.1968. 100 Io9  
Agricultural Experiment Stations of Alaska, Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, Wisconsin; and U. S. Department of Agriculture, cooperating.  
Also North Central Regional Research Publication No. 182.
- 71703 SCHUTTERT, R. As example of cooperative work in the field of swine fattening in Elverum (Norway). (Ge) *Tierzuchter* 20(4):108-109. Feb.20,1968. 49 T445
- 71704 SCHWART, R. B., and HINTON, R. A. Land type and your hog system. *Hog Farm Manage.* 5(5):46-47. May 1968. SF391.H6
- 71705 SEEFELDT, G. Ten years of producer ring in the Luneburger Heide. (Ge) *Tierzuchter* 20(4):104-106. Feb.20,1968. 49 T445  
Schweinekontrollring für den Regierungsbezirk Luneburg.
- 71706 SGIBNEV, A. P. An important factor of increasing profit of the collective farms. (Rus) *Tabak* 1:46-47. 1968. 69.8 T112  
Tobacco.
- 71707 SHARP, W. W., and BOYKIN, C. C. A dynamic programming model for evaluating investments in mesquite control and alternative beef cattle systems. *Tex. Agr. Exp. Sta. Tech. Monogr.* 4,38 p.,map. Sept.1967. 100 T31Tec  
U. S. Department of Agriculture, cooperating.
- 71708 SHMAKOV, A. Planning special production. (Rus) *Ekon. Sel'skogo Khoz.* 2:68-73. 1968. 281.8 So73  
Specialized farming.
- 71709 TACCHINI, J. Graphic-analytical method of farm programming. (It) *Ital. Agr.* 105(1):62-70. Jan.1968. 16 It1  
Linear programming.
- 71710 THOMAS, C. Thirteenth-century farm economics in North Wales. *Agr. Hist. Rev.* 16(1):1-14, map. 1968. 30.98 Ag82  
Chiefly livestock farming.
- 71711 TKACHUK, G., and BORISOV, V. Intensification as factor of improving economics on the collective farm. (Rus) *Ekon. Sel'skogo Khoz.* 1:79-89. 1968. 281.8 So73
- 71712 U. S. CONGRESS, HOUSE, COMMITTEE ON APPROPRIATIONS. Department of the Interior and related agencies appropriations for 1969. Hearings, 90th Cong., 2nd sess. Part 2. Washington, 1968. 1071 p. 156 Un3  
Includes reports of the Bureaus of Land Management and Outdoor Recreation.
- 71713 UVACEK, E., and SCHMEDEMANN, I. W. The cattle business agricultural enterprise or outdoor recreation. *Cattleman* 54(11):73,75-76. Apr.1968. 49 C29  
Evaluation of costs and returns.
- 71714 WHIPPLE, R. T. M. Teaching of land economics. *Valuer* 20(1):28-30,53. Jan.1968. 282.8 V24
- 71715 WHITTLESEY, N. K., and COLYAR, L. J. Decision-making under conditions of weather uncertainty in the summer fallow-annual cropping area of eastern Washington. *Wash. Agr. Exp. Sta. Tech. Bull.* 58,24 p.,map. Mar.1968. 100 W27T



- 71716 ZAKSHEVSKII, E. Extending time for the creative work of the economists. (Rus) Ekon. Sel'skogo Khoz. 2:101-103. 1968. 281.8 So73  
On the collective and state farms.
- Bookkeeping and Records
- 71717 ANISIMOVA, N. Calculating costs of vegetables grown in greenhouses. (Rus) Kartofel' Ovoshchi 1:28-29. Jan.1968. 75.8 K147
- 71718 BARANOV, G. A. Continual relation. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 1:43-44. 1968. 30.69 Uc4  
With the North Ossetian Accounting and Bookkeeping School [Severo-Osetinskaya Schetovodno-Bukhhalterskaya Shkola].
- 71719 BASMANOV, I. A., and STOLYAROVA, A. F. Applying the normative methods in calculation of costs of the livestock husbandry. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 1:9-12. 1968. 30.69 Uc4  
On the cattle farm.
- 71720 GALKIN, A. F., and LYSYI, G. A. Sbornik zadach po teorii bukhgalterskogo ucheta [A handbook of theoretical problems on accounting]. Moskva, Kolos, 1967. 136 p. HF5653.G3  
Agricultural.
- 71721 ISAEV, A. D. Evaluating a past year. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 1:34-36. 1968. 30.69 Uc4  
Revision of the book-keeping on the collective farms.
- 71722 KRASYUKOV, P. A. A barrier for the hidden losses. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 1:3-5. 1968. 30.69 Uc4  
Accounting on the collective and state farms.
- 71723 KÜTSENKO, S. P. Organizatsiya mekhanizovano obliku v sil's'komu hospodarstvu [Organizing mechanized accounting in agricultural enterprises]. Kyiv, Urozhai, 1967. 152 p. S567.K8
- 71724 MAKAROVA, R. P. What hinders analysis of the productional costs of dairy cattle. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 1:30-31. 1968. 30.69 Uc4
- 71725 OVSYANNIKOV, S. G. Preparing specialists. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 1:41-42. 1968. 30.69 Uc4  
For bookkeeping and accounting.
- 71726 POLKOVSKII, L. Calculating productional costs of the hotbeds. (Rus) Kartofel' Ovoshchi 1:25-26. Jan.1968. 75.8 K147  
Vegetables.
- 71727 VITER, I. K., and TKACH, V. D. Commerical calculation system and wages--a key to the high profits. (Rus) Sadovodstvo 2:10-11. Feb.1968. 80 Sa13  
On the fruit state farms in Ukraine.
- Costs and Returns
- 71728 AVILES CORDERO, M., and ESPINET COLON, G. R. Cost and return data relating to tomato production in Puerto Rico, 1963-64. (Sp) P. R. (Rio Piedras) Agr. Exp. Sta. Bull. 209,23 p., map. Dec.1967. 100 P83  
English summary.
- 71729 AZEV, S., and CHEHCENKOVA, P. Rotation of crops and the profitability of farms. (Rus) Zemledelie 4:48-51. Apr.1968. 20 Z44
- 71730 BATTEN, G. J. Profits can be increased by grazing dairy heifers. New Zealand J. Agr. 116 (4):30-31. Apr.1968. 23 N48J  
Costs.
- 71731 BROWN, J. D. Factors associated with the cost of producing milk for higher producing dairy herds in Georgia. Ga. Agr. Exp. Sta. Bull. (n.s.)170,18 p. Aug.1966. 100 G293B
- 71732 BUGHAEV, N. Cost price and profitability of grain production in the Southern Urals. (Rus) Ekon. Sel'skogo Khoz. 1:71-78. 1968. 281.8 So73  
On the collective and state farms.
- 71733 CARPENTER, G. A. Plan to prosper. Cattleman 54(11):37,39. Apr.1968. 49 C29  
Chiefly management and costs and returns on livestock farms.
- 71734 CHETYRIN, E. V. Methods of increasing profitability. (Rus) Sadovodstvo 3:10-11. Mar. 1968. 80 Sa13  
Costs and returns of grape production in the Chechen-Ingush ASSR.
- 71735 CONNOR, L. J. Costs and returns for major cash crops in southern Michigan. Mich. State Univ. [Ext.] Agr. Econ. Rep. 87,37 p.,map. Nov.1967. 281.9 M5842
- 71736 DEMIDOV, S. F. Profitability of the seed growing state farms. (Rus) Sakh. Svekla 4:8-9. Apr.1968. 66.8 Su393  
Sugar beet seeds.
- 71737 HEAGLER, A. M., and BOLTON, B. Beef gain costs associated with feeding high-energy corn silage. La. Rural. Econ. 30(2):2-5. May 1968. 281.8 L93
- 71738 ROY, E. P. Cost of producing broilers on contract. Feedstuffs 40(16):29-30. Apr.20,1968. 286.81 F322
- 71739 SAMVIRKENDE LANDBOFORENINGER I FYNs STIFT. REGNSKABSUDVALGET. Landbrugets økonomi, 1966-67, belyst ved regnskabsresultater fra fynske landboforeninger. [Farm economy, 1966-67, illustrated by accounting records from the agricultural associations of Fyn]. Odense, 1968. 218 p. 281.9 F96
- 71740 SEMENOV, A. Economic effectiveness of the mixed crops. (Rus) Ekon. Sel'skogo Khoz. 2: 105-107. 1968. 281.8 So73  
Costs, returns and nutritive value of forage plants.
- 71741 TIMMONS, G. R. Important cost considerations in handling canes. Sugar J. 30(10):46-51. Mar. 1968. 65.8 Su391  
Transportation and labor.
- 71742 VORISEK, P. Are chives a profitable culture? (Cz) Zahradnicke Listy 61(2):54. 1968. 80 Z12
- 71743 WEST OF SCOTLAND AGRICULTURAL COLLEGE. Farm financial returns, 1965-66, livestock with arable farms, 1965 crop. West Scot. Agr. Coll. Econ. Dep. Rep. 115,26 p. 1967. 281.9 W5222
- 71744 WEST OF SCOTLAND AGRICULTURAL COLLEGE. Hill and upland stock farms 1965-66, financial returns, management standards, 1965 lamb crop year. West Scot. Agr. Coll. Econ. Dep. Rep. 114,39 p. 1967. 281.9 W5222
- 71745 ZICH, M. Costs and their calculation in state farms. (Cz) Statni Statky 1:9-10. 1968. 19.5 St2
- Land Settlement and Colonization
- 71746 SEARBY, P. Great Dodford and the later history of the Chartist Land Scheme. Agr. Hist. Rev. 16(1):32-45. 1968. 30.98 Ag82
- 71747 SOCOLOFSKY, H. E. Success and failure in Nebraska homesteading. Agr. Hist. 43(2):103-108. Ref. Apr.1968. 30.98 Ag8
- Land Tenure
- 71748 CHAU, Y. P., and DURHAM, H. C. Land distribution in densely populated developing countries. Amer. J. Econ. Sociol. 27(2):161-170. Apr.1968. 280.8 Am393  
Proposed land reform program.
- 71749 DAVENPORT, F. G. The economic development of a Norfolk manor, 1086-1565. New York, Kelley, 1967. 105 p.,map. Ref. (Reprints of Economic Classics) HC254.3.D3 1967  
Tenure.
- 71750 DUWAJI, G. Land ownership in Tunisia: an obstacle to agricultural development. Land Econ. 44(1):129-132. Feb.1968. 282.8 J82
- 71751 GHONEMY, M. R. EL. Land reform and economic development in the Near East. Land Econ. 44(1):36-49. Feb.1968. 282.8 J82

- 71752 GRUBBS, D. H. Gardner Jackson, that "Socialist" [Southern] Tenant Farmers' Union, and the New Deal. *Agr. Hist.* 43(2):125-137. Apr.1968. 30.98 Ag8
- 71753 JACOBY, E. H. Agrarian reconstruction. Freedom Hunger Campaign. Basic Study 18, 82 p. 1968. 389 F872  
Includes land reform, tenure legislation, consolidation, and settlement.
- 71754 LINDGREN, J. Intergeneration farm transfers; a study of intergeneration farm transfers within families in Finland. *Suomen Maataloustieteellisen Seura. Julkaisu* 111,119 p.,map. Ref., p.88-90. 1968. 20 Su7
- 71755 MCKINNON, P. D. How land may be obtained in Queensland. *Queensland Agr. J.* 94(1):53-58, map. Jan.1968. 23 Q33  
Tenures under which Crown lands are made available for farming.
- 71756 MORRIS, R. E. The land question: the theory reexamined. *Amer. J. Econ. Sociol.* 27(2):147-154. Ref. Apr.1968. 280.8 Am393  
Land tenure history.
- 71757 NORRELYKKE, C. Radical changes in the agricultural structure of rural communities. (Da) *Dansk Landbrug* 87(1):4-8. Jan.1968. 280.28 V91  
Population changes as effecting land tenure and use.
- 71758 REISS, F. J. Farm lease practices in western Illinois. *Ill. Agr. Exp. Sta. Bull.* 728,44 p.,map. Mar.1968. 100 IL6S  
Legal aspects.
- 71759 ROMANO, G. Agricultural pacts in the decisions of the Constitutional Court. (It) *G. Agr.* 78(14):174. Apr.7,1968. 16 It1G
- 71760 THE SAFER [Societies for Land Management and Rural Settlement, Societes d'Amenagement Foncier et d'Etablissement Rural]. (Fr) *Agr. Prat.* 132(2):25-27. Feb.1968. 14 J82
- 71761 SHEARER, E. B. Italian land reform re-appraised. *Land Econ.* 44(1):100-106. Feb.1968. 282.8 J82
- 71762 SOPHIAN, T. J. The leasehold reform act, I. *Chartered Land Agents' Soc. J.* 67(1):34-37. Jan.1968. 282.9 L22
- 71763 TAKEUCHI, K. Open field and enclosure in the rural landscape of Italy. (Fr) *Hitotsubashi J. Soc. Stud.* 4(1):43-56. Jan.1968. 280.8 H632
- 71764 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Miscellaneous. Hearings, eighty-ninth Congress, first session on H.R. 8344, H.R. 6833, H.R. 9584, H.R. 316, H.R. 10241, October 11, 1965. Washington, 1966. 82 p. PREP 1116  
Includes H.R. 8344, Acquisition of lands in the Uinta National Forest by the Secretary of Agriculture; H.R. 6833, Rental of property from employees of the Forest Service; H.R. 9584, Spruce Knob-Seneca Rocks National Recreation Area; H.R. 316, Mount Rogers National Recreation Area; H.R. 3018, H.R. 6402, and H.R. 6575, Amend the Bankhead-Jones Farm Tenant Act; H.R. 2468, H. R. 4812, H.R. 5149, H. R. 9149, H. R. 9917, and H.R. 10241, Amend the Watershed Protection and flood prevention Act.
- 71765 U. S. CONGRESS. HOUSE. COMMITTEE ON INTERIOR AND INSULAR AFFAIRS. Indian fractionated land problems. Hearings, eighty-ninth Congress, second session on H. R. 11113 to reduce the number of fractional interests in trust and restricted allotments of Indian lands, and for other purposes, February 24 and 25, 1966. Washington, 1966. 79 p. PREP 1155
- 71766 BROMLEY, D. W., BLANCH, G. E., and STOEVENER, H. H. Effects of selected changes in Federal land use on a rural economy. *Oreg. Agr. Exp. Sta. Bull.* 604,27 p.,map. Ref. Mar.1968. 100 Or3
- 71767 DE CALAN, L. The Land Orientation Law: its effects on the farm and rural property. (Fr) *Agr. Prat.* 132(3):29-33. Mar.1968. 14 J82
- 71768 JARVIS, G. J., HOFF, G., and LEEDY, C. D. Land judging. *N. Mex. State Univ. Ext. Circ.* 406,14 p. Dec.1967. 275.29 N463E  
Four-H Clubs.
- 71769 KENYA. FOREST DEPT. Taungya in Kenya; the "Shamba system." *World Symp. Man-Made Forests Indus. Import. [Position Paper]* 6/4, 8 p. 1967. SD391.W6 1967a
- 71770 RIEBEN, E. The conversion of the social and economic structure of the Swiss mountain area. (Fr) *Rev. Forest. Franc.* 20(1):1-14. Jan.1968. 99.8 R329  
Land utilization.
- 71771 TEJCHMA, J. Rational utilization of land resources for growth of agricultural production. (Pol) *Nowe Roln.* 17(3):1-3. Feb.1/15,1968. 20.5 N86
- 71772 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Federal costs sharing for rural conservation and development projects. Hearings—Ninetieth Congress, first session on H.R. 6127, H.R. 6169, H.R. 6178, H. R. 6233, H.R. 6293, H. R. 6405, H.R. 6684, H.R. 7055, H.R. 7110, H.R. 8383, H.R. 10298, H.R. 11260, and S. 852. Washington, 1967. 79 p. PREP 2146
- 71773 U. S. DEPT. OF AGRICULTURE. ECONOMIC RESEARCH SERV. Big Blue River Basin, Nebraska; water and related land resources. Lincoln, 1967. 72 p.,map. AS932.N2A5  
U. S. Forest Service and U. S. Soil Conservation Service, cooperating.
- 71774 YANGGEN, D. A., and KUSLER, J. A. Natural resource protection through shoreland regulation: Wisconsin. *Land Econ.* 44(1):73-86. Feb. 1968. 282.8 J82  
Zoning for recreation.
- Land Values and Valuation
- 71775 DAVID, E. L. The use of assessed data to approximate sales values of recreational property. *Land Econ.* 44(1):127-129. Feb.1968. 282.8 J82
- 71776 FRIEDENBERG, D. M. America's land boom: 1968. *Harper's Mag.* 236(1416):25-32. May 1968. 100 H23  
Land values and taxation discussed.
- 71777 GRIMWADE, F. S. Farm management and values. *Valuer* 20(1):50-53. Jan.1968. 282.8 V24
- 71778 MURRAY, R. A., and CISSEL, E. I. The transfer of farm and open country real estate in Harford County, Maryland, 1964. *Md. Agr. Exp. Sta. Misc. Publ.* 635,29 p.,map. Aug.1967. 100 M36M  
Includes study of marketing and prices.
- 71779 MURRAY, R. A., and CISSEL, E. I. The transfer of farm and open country real estate in Howard County, Maryland, 1964. *Md. Agr. Exp. Sta. Misc. Publ.* 633,25 p.,map. Aug.1967. 100 M36M  
Includes study of marketing and prices.
- 71780 MURRAY, R. A., and CISSEL, E. I. The transfer of farm and open country real estate in Montgomery County, Maryland, 1964. *Md. Agr. Exp. Sta. Misc. Publ.* 630,21 p.,map. Aug.1967. 100 M36M  
Includes study of marketing and prices.
- 71781 VILENSKII, M. Pecuniary evaluation of land. (Rus) *Voprosy Ekon.* 3:104-111. Mar.1968. 280.8 V89
- 71782 WOODS, W. J. Pressing need for valuers' register. *Valuer* 20(1):54-55. Jan.1968. 282.8 V24
- POPULATION
- 71783 HARTMAN, J. J. Characteristics and structure of Iowa's population. *Iowa. State Univ. Ext. Spec. Rep.* 57,18 p.,map. Mar.1968. 100 Io9Sp
- 71784 KRUEGEL, D. L. Kentucky county population estimates, July 1, 1966. *Ky. Agr. Exp. Sta. RS-* 27,6 p. Nov.1966. 275.29 K4152
- 71785 LAGARDETTE, J. Agricultural density in the Six and in Great Britain. (Fr) *Agr. Prat.* 132(2):9. Feb.1968. 14 J82



- 71786 MALIGNAC, G. The population situation of the four overseas departments: Martinique, Guadeloupe, Reunion, Guyana. (Fr) France. Inst. Nat. Statist. Etudes Econ. Etudes Conjecture 22 (11):103-145, map. Nov. 1967. 280.8 F84  
Rural and agricultural population data included.
- 71787 SCHWARZ, K. Problems of regional population projections and the recent German-language literature on them. (Ge) Raumforsch. Raumordnung 25(2):63-74. Ref. June 1967. 282.9 R19

## RECREATION

- 71788 ALDEN, H. R., and SAMSON, R. S. So you're planning an outdoor recreation business. Idaho. Agr. Coll. Ext. Bull. 493, 8 p. Feb. 1968. 100 Id14  
Cost and return analysis.
- 71789 ARNOLD, R. K., and HOPKINS, W. S. Scope of recreation research. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.7:1-13. 1967. 99.9 In82  
Outdoor recreation.
- 71790 BONDO-ANDERSEN, A. Agriculture and nature protection: Admittance of public to natural areas is to be extended. (Da) Dansk Landbrug 87(1):21-23, map. Jan. 1968. 280.28 V91
- 71791 BUCHINGER, M. Forest recreation versus conservation, history, legislation, management and research. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.7:265-264. 1967. 99.9 In82
- 71792 CURRY-LINDAHL, K. Recreation and wildlife research in tropical forests. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.7:93-124. 1967. 99.9 In82
- 71793 GOLDMAN, D. But which people? Amer. Forests 74(4):31, 56-58. Apr. 1968. 99.8 F762  
Recreational use of national parks.
- 71794 HUSE, S. Prerequisites and tasks of a forest recreation research in Norway. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.7:147-153. 1967. 99.9 In82
- 71795 JAMES, G. A., and TAYLOR, G. D. Recreation use estimation in the United States and Canada. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.7:14-29. Ref. 1967. 99.9 In82
- 71796 KING, D. A. Socioeconomic variables related to campsite use. Forest Sci. 14(1):45-54. Ref. Mar. 1968. 99.8 F7632  
Family-user characteristics camping in forests.
- 71797 NEWLANDS, W. A. The place of shooting in modern estate management. Chartered Land Agents' Soc. J. 67(1):23-31. Jan. 1968. 282.9 L22
- 71798 NIESSLEIN, E. Mutual exchange between recreational need and silviculture. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.7:382-392. 1967. 99.9 In82
- 71799 PEARSE, P. H. A new approach to the evaluation of non-priced recreational resources. Land Econ. 44(1):87-99. Feb. 1968. 282.8 J82
- 71800 QVIST, A. The countryside bill. Chartered Land Agents' Soc. J. 67(1):31-34. Jan. 1968. 282.9 L22  
For recreation.
- 71801 ROBBEL, H. The role of shooting for recreation in Germany. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.7:310-329. Ref. 1967. 99.9 In82
- 71802 ROZUMOWSKI, E. Community forests as recreational places. (Pol) Las Polski 42(8):5-8. Apr. 16/30, 1968. 99.8 L33
- 71803 SCHMEDEMANN, I. W., and MCNEELY, J. G. The impact of recreation on local economies. Town Country Church 198:25-29. Ref. Jan./Apr. 1968. 281.28 T66
- 71804 SCHOENFELD, C. Let's cut out the numbers game nonsense. Amer. Forests 74(5):10-13, 55-56. May 1968. 99.82 F762  
Recreational aspects of forestry.

- 71805 THAS, J. Recreational aspect of nature in Belgium. (Fr) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.7:200-207. 1967. 99.9 In82  
Forests and national parks.
- 71806 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Summer homes in the Stanislaus National Forest, relief of Harriet C. Chambers, and acceptance of cash in land exchange transactions. Hearings eighty-ninth Congress, second session on H.R. 954, H. R. 1062, and H.R. 3034; H.R. 9524, and S. 2104; and S. 2264, June 20, 1966. Washington, 1966. 48 p. PREP 1114
- 71807 U. S. FOREST SERV. Skiing. U. S. D. A. PA-525, rev., 23 p., map. Nov. 1967. 1 Ag84Pro
- 71808 WAGAR, J. A. Simulated tramping as a technique in recreation research. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.7:239-245. 1967. 99.9 In82
- 71809 WALDEN, F. A. Public use of forest wildlife—economic aspects. Forest. Chron. 44(2):17-19. Ref. Apr. 1968. 99.8 F7623  
Recreation.
- 71810 ZUNDEL, R. Establishment and formation of artificial lakes in forest areas with special emphasis on recreation, fishing and hunting. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.7:339-352. 1967. 99.9 In82  
Germany.

## Human Ecology

- 71811 FESSLER, D. R., BRYANT, L., and STRAUSS, B. Community education: An approach to urban problems. Va. Polytech. Inst. Ext. Circ. 1059, 23 p. Feb. 1968. 275.29 V81C  
Northern Virginia Pilot Project in Community Education to organize forums and combined planning centers.
- 71812 HENDRIKS, A. J. The financing of regional planning. (Du) Econ.-Statist. Ber. 52(2621):1212-1214. Nov. 29, 1967. 280.8 Ec722
- 71813 MENNES, L. B. M. Toward a new memorandum on regional planning. (Du) Econ.-Statist. Ber. 52(2621):1208-1209. Nov. 29, 1967. 280.8 Ec722
- 71814 MULLER, G. Land development plan I in North Rhine-Westphalia. (Ge) Raumforsch. Raumordnung 25(2):60-62, map. June 1967. 282.9 R19  
Regional planning.
- 71815 OLST, H. R. VAN. Regional development plans and regional economic models. (Du) Econ.-Statist. Ber. 52(2621):1217-1223, map. Nov. 29, 1967. 280.8 Ec722
- 71816 POLL, E. H. VAN DE. Regional regulation in the Netherlands and the influence of (outside) economic development. (Du) Econ.-Statist. Ber. 52(2621):1209-1212. Nov. 29, 1967. 280.8 Ec722
- 71817 SYMPOSIUM ON COMMUNITIES OF TOMORROW—NATIONAL GROWTH AND ITS DISTRIBUTION, WASHINGTON, D. C., 1967. [Summaries of papers]. Town Country Church 198:4-7. Jan./Apr. 1968. 281.28 T66
- 71818 TARRANT, J. R. A note concerning the definition of groups of settlements for a central place hierarchy. Econ. Geogr. 44(2):144-151, map. Apr. 1968. 278.8 Ec7  
In terms of retail function in Great Britain.
- 71819 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Community Development District Act. Hearings eighty-ninth Congress, second session on H.R. 12466 and S. 2934, June 9 and 10, 1966. Washington, 1966. 152 p. PREP 1105
- 71820 VERBURG, M. C. Regionalization of national administration. (Du) Econ.-Statist. Ber. 52(2621):1215-1216. Nov. 29, 1967. 280.8 Ec722
- 71821 WAARDENBURG, J. G. Critical economic notes on the Second Memorandum on Regional Planning. (Du) Econ.-Statist. Ber. 52(2621):1204-1207, 1222-1223. Nov. 29, 1967. 280.8 Ec722

Institutions

- 71822 AHLSCHEWEDE, M. North Carolina program: Extension "can" build understanding. ACE (Amer. Ass. Agr. Coll. Editors) 50(5):5. Mar./Apr.1968. 238 Am33A
- 71823 ALLAUZEN, M. La paysanne française aujourd'hui [The French peasant today]. Paris, Gonthier, 1967. 206 p. Ref. (Collection Grand Format. Femme) HD646.A8
- 71824 BRAND, J. Your words can "simply" fascinate. ACE (Amer. Ass. Agr. Coll. Editors) 50(5):1. Mar./Apr.1968. 238 Am33A  
Writing of extension publications.
- 71825 BRZOZOWSKI, Z. Effectiveness of some agricultural extension methods in the light of survey research. (Pol) Nowe Roln. 17(3):31-33. Feb.1/15,1968. 20.5 N86
- 71826 CERVENKA, J. On the problem of education of agricultural experts in Czechoslovakia for developing countries. (Cz) Veterinarstvi 17(6):276-278. 1967. 41.8 V6439
- 71827 ELJSVOOGEL, W. F. Wageningen and the developing countries. Neth. J. Agr. Sci. 16(1):1-11. 1968. 12 N3892  
Work of graduates abroad and foreign trainees at Wageningen.
- 71828 EXBROYAT, J. Health education training course for teachers. S. Pac. Bull. 18(1):23-24, 34. First Q.1968. 380.8 So89  
Rural health in New Caledonia.
- 71829 HARL, N. E. Estate planning for farmers. 3. Federal estate tax considerations. Agr. Banking Financ. 10(2):38,40,42. Mar./Apr. 1968. 284.8 B22
- 71830 HURWITZ, S. Agricultural education in high schools and higher institutions of learning in Israel. Mediterranea 18:83-94. Feb.1968. 281.8 M462
- 71831 INTER-AMERICAN INSTITUTE OF AGRICULTURAL SCIENCES. Septima reunion anual de la Junta Directiva, San Jose, Costa Rica, abril 28-mayo 5 de 1968 [Seventh annual meeting of the Administrative Board, San Jose, April 28-May 5, 1968]. San Jose, 1968. various paging. 28 In834I
- 71832 JAGIELSKI, M. The current tasks of the local national councils within the scope of agriculture. (Pol) Nowe Roln. 17(4):1-7. Feb.16/29, 1968. 20.5 N86
- 71833 L'AIN, B. G. DE. Correspondence courses and the right to family allocations. (Fr) Bull. Inform. Mutual. Agr. 177:25-27. Feb.1968. 284.68 B87
- 71834 MCKAY, G. R. Visual specialists use many media. ACE (Amer. Ass. Agr. Coll. Editors) 50(5):5-8. Mar./Apr.1968. 238 Am33A  
Extension methods.
- 71835 MURPHY, R. R. College of Agriculture student enrollment, training, and employment. Feed-stuffs 40(14):31-33. Apr.6,1968. 286.81 F322
- 71836 NORTHERN IRELAND. MINISTRY OF AGRICULTURE. Part-time agricultural classes. Northern Ireland. Min. Agr. Adv. Serv. Leaflet. 60,4 p. Jan.1968. 10 N81
- 71837 PARTHASARATHI, A. Why I'm going back. FAO (Food Agr. Organ.) Rev. 1(1):51-52. Jan./Feb.1968. TX341.F63  
On the brain drain and the need for technicians to fight poverty and hunger in India.
- 71838 PICKETT, S. The Rural Industries Bureau. Great Brit. Min. Agr. Fish. Food. Agr. 75(4):183-185. Apr.1968. 10 G79J
- 71839 POWELL, E. S. Helping families of Iran. J. Home Econ. 60(4):272-276. Apr.1968. 321.8 J82
- 71840 ROBINSON, G. K. Planning agriculture. S. Australia J. Agr. 71(8):294. Mar.1968. 23 So84  
Extension work.
- 71841 SAL'NIKOV, I. Contemporary problems of preparing agricultural specialists. (Rus) Kommunist 4:53-59. Mar.1968. 280.8 B633
- 71842 SALON INTERNATIONAL DE L'AGRICULTURE, 5, PARIS, 1968. Compte-rendu [Report of the International Salon of Agriculture]. Tech. Lait. 588,112 p. Apr.1,1968. 44.8 Of2
- 71843 SLOCUM, W. L. Educational aspirations and expectations of students in rural Washington high schools. Wash. Agr. Exp. Sta. Bull. 690, 23 p. Ref. Jan.1968. 100 W27E
- 71844 STEPHEN, V. R. Staging makes good conferences better. ACE (Amer. Ass. Agr. Coll. Editors) 50(5):2-3. Mar./Apr.1968. 238 Am33A
- 71845 THOMSON, J. R. The mountains are steeper. Far. East. Econ. Rev. 60(15):139-141. Apr.11, 1968. 280.8 F223  
Communism in hill areas of Thailand.
- 71846 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Establish Federal Agricultural Extension Service in the District of Columbia. Hearings ninetyeth Congress, first session on H.R. 10680, H.R. 10756, H.R. 11039, H.R. 12035, H.R. 12052, and H.R. 12286. Washington, 1967. 46 p. PREP 2091
- 71847 U. S. CONGRESS. SENATE. COMMITTEE ON AGRICULTURE AND FORESTRY. Hearings ninetyeth Congress, first session on H. Con. Res. 413 a resolution to endorse the World Farm Center. Washington, 1967. 15 p. PREP 2128
- 71848 U. S. CONGRESS. SENATE. COMMITTEE ON THE DISTRICT OF COLUMBIA. Authorization of land-grant college for the District of Columbia. Hearings ninetyeth Congress, first session on S. 1999 to amend title II of the District of Columbia Public Education Act. Washington, 1967. 50 p. PREP 2052
- 71849 U. S. NATIONAL AGRICULTURAL LIBRARY. PROGRAM COORDINATION SERV. The National Agricultural Library and its activities, by C. W. Mehring. Washington, 1968. 17 p. aZ733.N3A5
- 71850 WEBB, C. Agriculture in orbit. J. Agr. [Melbourne] 66(2):45-47. Feb.1968. 23 V66J  
Chiefly use of television for information in Australia.

Rural Organizations and Movements

- 71851 HALANDRAS, G. R. N.F.O. [National Farmers Organization]—idea with momentum. Nat. Wool Grower 53(5):22-23. May 1968. 45.8 N21N
- 71852 LANDBRUGSARBOG [Agricultural yearbook], 1968, v. 69. Kobenhavn, Danske Landhusholdningsselskab, 1968. 662 p. 11 L233  
Danish agricultural organizations.
- 71853 ROYAL ULSTER AGRICULTURAL SOCIETY. Report 1967. Belfast, 1968? 141 p. 10 R816
- 71854 WOMEN'S FARM AND GARDEN ASSOCIATION (GREAT BRITAIN). Annual report and accounts 1967. London, 1968. 16 p. 281.29 W84R
- 71855 YORKSHIRE AGRICULTURAL SOCIETY. Annual report, 1967. Bradford, 1968. 22 p. S3.Y6  
Library has also report for 1966, 23 p.

Cooperative Organizations

- 71856 FARMERS GRAIN DEALERS ASSOCIATION OF IOWA (COOPERATIVE). 1968 annual directory of Iowa cooperatives. Des Moines, 1968. 114 p. 225 I092
- 71857 NOGYO kyodo kumiai meikan [Directory of agricultural cooperatives], 1968, edited by Y. Suzuki. Tokyo, Zenkoku Shimbun Joho Nogyo Kyodo Kumiai Rengokai, 1968. 619 p. 225 N68
- 71858 SALMON, G. D. Co-operation in agriculture. Great Brit. Min. Agr. Fish. Food. Agr. 75(4):151-155. Apr.1968. 10 G79J
- 71859 SANDERS, B. L. The antitrust exemption of agricultural cooperatives—the stages of interpretation. Okla. Curr. Farm Econ. 41(1):11-24. Ref. Mar.1968. 100 Ok4



- 71860 SPRUDZS, A. "Cooperatives everywhere" slogan of Canada's Arctic. *News Farmer Coop.* 35(1):14-16. Apr.1968. 166.2 N47
- 71861 STEVENSON, E. V. Questions after merger decision. *News Farmer Coop.* 35(2):8-9. May 1968. 166.2 N47  
Cooperatives.
- 71862 THOMPSON, J. C., and GLOVER, G. H. A planning guide for a local farmer purchasing cooperative. *Ga. Agr. Exp. Sta. Res. Bull.* 16,42 p. Sept.1967. S51.E2
- 71863 U. S. CONGRESS. SENATE. COMMITTEE ON AGRICULTURE AND FORESTRY. Discrimination against members of farmer cooperatives. Hearings eighty-ninth Congress, Second session on S. 109 a bill to amend the act authorizing association of producers of agricultural products, approved February 18, 1922, June 14, 15, and 16, 1966. Washington, 1966. 173 p. PREP 1152
- RURAL SOCIAL PSYCHOLOGY**
- 71864 GAGLIARDO, J. G. Moralism, rural ideology, and the German peasant in the late eighteenth century. *Agr. Hist.* 43(2):79-102. Ref. Apr. 1968. 30.98 Ag8
- 71865 GRADY, E. R. Values and attitudes of selected homemakers in economically deprived families toward housing. *R. I. Agr. Exp. Sta. Bull.* 391, 35 p. Ref. Oct.1967. 100 R34S
- 71866 MAGRABI, F. M., HEIFNER, M. E., and EIGSTL, M. H. Communication and family activities: Concepts and applications. *Mich. Agr. Exp. Sta. Quart. Bull.* 50(3):384-391. Ref. Feb. 1968. 100 M58S
- 71867 MICHIGAN. STATE UNIVERSITY OF AGRICULTURE AND APPLIED SCIENCE. COOPERATIVE EXTENSION SERV. Play and your child's development. *Mich. State Univ. Ext. Publ.* 605,12 p. Mar.1968. 275.29 M58B
- 71868 SPAULDING, I. A. Occupational and free-time activities: Euphoria-tension levels and selected influencing factors. *R. I. Agr. Exp. Sta. Bull.* 393,22 p. Dec.1967. 100 R34S
- TRADE, FOREIGN AND INTERNATIONAL**
- 71869 BAGI, J. Seed export prospect for this year. (Hu) *Magyar Mezogazdasag* 23(17):7-8. Apr.24, 1968. 19 M27
- 71870 BIETTE, G. A situation which can be Catastrophic for the marketing of French honey. (Fr) *Gaz. Apic.* 69(727):18. Jan.1968. 424.8 G25  
In the Common Market.
- 71871 BRATLAND, R. EEC feedgrain levies increase 13 percent. *Foreign Agr.* 6(18):4. Apr.29, 1968. A281.9 F76Fo
- 71872 BRAZIL. SERV. DE ESTATISTICA ECONOMICA E FINANCEIRA. Comercio exterior do Brasil 1966 [Foreign trade of Brazil 1966]. Vol. I-II. Rio de Janeiro, 1967. 2 v. 255.3 F292
- 71873 CAVERS, J. R. Why Canada slapped added duty on U.S. turkeys. *Poultry Meat* 5(4):A29-A31. Apr.1968. 47.8 P8656
- 71874 CONSTANTINIDIS, A. Commercial fraud and deceit in the international market of frozen meats. (Fr) *Rec. Med. Vet.* 144(2):151-155. Feb.1968. 41.8 R25  
English summary.  
Discovery of fraud in meat to be imported Greece.
- 71875 COYNER, M. S. The agriculture and trade of British Honduras. U. S. D. A. Econ. Res. Serv. ERS-Foreign 209,15 p.,map. Jan.1968. A281.9 Ag83
- 71876 DATER, J. How effective is P.L.480? *Agr. Chem.* 23(3):44,46. Mar.1968. 381 Ag8
- 71877 DELGADO, C. P. Colombian coffee trade has doubts about future of coffee agreement. *Tea Coffee Trade J.* 134(3):28,30. Mar.1968. 68.8 T22
- 71878 DIJCK, J. VAN. Belgian legislation in the sector of plants and seeds. (Fr) *Int. Seed Testing Ass. Proc.* 32(2):357-367. 1967. 61.9 In84P  
English summary.  
Trade.
- 71879 FREEMAN, O. L. Public law 480 can help win the War on Hunger. *Limestone* 5(15):5. Spring 1968. 294.8 L62
- 71880 GALTIER, L. Aspects of the world market for dairy products. (Fr) *Agriculture [Paris]* 31 (307):35,37,39. Feb.1968. 14 Ag823
- 71881 GERMANY (FEDERAL REPUBLIC). STATISTISCHES BUNDESAMT. Spezialhandel nach Ländern und Warengruppen, Oktober/Dezember und Jahr 1967 [Special trade by countries and commodities, October/December and year 1967]. Stuttgart, 1968. 442 p. (Aussenhandel Reihe 3) 265 St2A
- 71882 GOUDEAU, C. The taste of the African clientele for canned foods. (Fr) *Rev. Conserv.* 24, i.e.23(3):107-120. Mar.1968. 389.8 R326  
Statistical data of imports.
- 71883 GRAEBER, R. E. The EEC - guidelines for trade in agricultural and forest seeds and plants. (Ge) *Int. Seed Testing Ass. Proc.* 32(2):323-333. 1967. 61.9 In84P  
English summary.
- 71884 HIRSCH, H. G. Price indexes of U.S. agricultural trade down in 1967. *Foreign Agr. Trade U. S.*, May 1968:21-24. A286.9 Ag8
- 71885 HORNE, F. R., and KELLY, A. F. The O. E. C. D. certification schemes and international trade in seeds. *Int. Seed Testing Ass. Proc.* 32(2):259-273. 1967. 61.9 In84P
- 71886 HUTCHINSON, T. Q. Ocean freight rates for export grain in 1967. *Foreign Agr. Trade U. S.*, May 1968:25-27. A286.9 Ag8
- 71887 KOLLER, L. The levy system of the European Common Market and the third countries. (Hu) *Gazdalkodas* 12(1):25-32. 1968. 281.8 G25  
Sharing in trade activities.
- 71888 LEENDERS, H. H. The function of the International Seed Trade Federation (I.S.T.) in the International seed trade. *Int. Seed Testing Ass. Proc.* 32(2):245-257. 1967. 61.9 In84P
- 71889 MEHR, S. Competition in world raisin markets. U. S. Foreign Agr. Serv. FAS-M-136,rev.,43 p. Dec.1967. A281.9 F76Fm  
Statistics.
- 71890 MOE, L. E. Turkey: Supply and demand projections for farm products to 1975, with implications for U.S. exports. U. S. D. A. Econ. Res. Serv. ERS-Foreign 204,25 p.,map. Ref. Nov. 1967. A281.9 Ag83
- 71891 PALMER, J. D. The U.S. tobacco industry must push trade. *Tobacco* 166(17):75-76,79,82-83. Apr.26,1968. 286.89 T552
- 71892 PEPPER CORN, L. M. Fate of coffee agreement of prime interest to Brazil in U. S. stand-off. *Tea Coffee Trade J.* 134(3):26,28. Mar. 1968. 68.8 T22
- 71893 RAO, H. S., SHIVA, M. P., and KHARAKWAL, G. N. Minor forest products ride the seven seas. *Indian Forest.* 94(1):127-131. Jan.1968. 99.8 In2
- 71894 SIEGEL, O. Sugar and sugar products in the trade of the Federal Republic of Germany. (Ge) *Rev. Cafetera Colombia* 23(2):59-61. Feb.1968. 68.38 R32  
Statistics.
- 71895 SMITH, R. U.K. reliance on U.S. leaf increased. *Tobacco [New York]* 166(17):45-46. Apr.26,1968. 286.89 T552
- 71896 SOLOMON, A. M. Guide to Latin American coffee. 1. Overview: progress through Agreement. *World Coffee Tea* 8(12):11-16. Apr. 1968. 286.83 W89

- 71897 SWEDEN. STATISTISKA CENTRALBYRAN. Utrikeshandel, 1966. II. Sveriges införsel och utförsel fördelade på varor enligt SITC och på länder; redovisningsprinciper m.m. [Foreign trade, 1966. II. Sweden's imports and exports by commodities of the SITC and by countries; description of the statistics]. Stockholm, 1968. 338 p. 257.3 St2Ha  
Table contents, summary and some table headings also in English.
- 71898 SWITZERLAND. Eidgenössische Zoll-Direktion. Jahresstatistik des Aus- und Einfuhrhandels der Schweiz [Annual statistics of the foreign trade of Switzerland], 1967. Volume 1. Bern, 1968. 468 p. 252 Z7S  
Introduction and table headings also in French.
- 71899 TARCSAY, MRS. R. Export possibilities for livestock and livestock products. (Hu) Magyar Mezőgazdaság 23(15):16. Apr. 10, 1968. 19 M27
- 71900 U. S. BUR. OF THE CENSUS. U.S. general imports; schedule A commodity groupings, geographic area, country, and method of transportation: 1967 annual. Washington, 1968. 303 p. (FT150) HF105.A39
- 71901 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Encourage exportation of agricultural commodities. Hearings ninetyeth Congress, first session on H.R. 7475, H.R. 7986, H.R. 8205, H.R. 8214, H.R. 8369, and H.R. 8448. Washington, 1967. 41 p. PREP 1838
- 71902 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Reduction of extra-long staple cotton quota. Hearings ninetyeth Congress, first session on H.R. 10915, July 12, and 13, 1967. Washington, 1967. 74 p. PREP 1526  
Import quotas.
- 71903 U. S. CONGRESS. SENATE. COMMITTEE ON AGRICULTURE AND FORESTRY. Dairy Import Act of 1967. Hearings—ninetyeth Congress, first session on S. 612 a bill to regulate imports of milk and dairy products, and for other purposes, May 16, 18, and 19, 1967. Washington, 1967. 252 p. PREP 1073
- 71904 U. S. CONGRESS. SENATE. COMMITTEE ON AGRICULTURE AND FORESTRY. Imports of extra-long-staple cotton. Hearings ninetyeth Congress, second session on S. 1875 and H.R. 10915, bills to amend section 202 of the Agricultural Act of 1956. Washington, 1968. 119 p. PREP 2385
- 71905 UNITED NATIONS. DEPT. OF ECONOMIC AND SOCIAL AFFAIRS. Commodity trade statistics 1967: United States, Sweden. New York, 1968. p. 3227-3508. (Statistical Papers, Series D, vol. XVII, No. 1-14) 286.9 Un34S
- 71906 UNITED NATIONS. STATISTICAL OFF. Commodity trade statistics 1967: Italy, Greece, Cambodia, Ireland, Republic of Korea, Netherlands Antilles, Iceland. New York, 1968. p. 4764-5025. (Series D. Vol. XVII, No. 1-20) 286.9 Un34S
- 71907 WARDEN, T. A. Transshipments of the U.S. agricultural products through the Netherlands. Foreign Agr. Trade U. S., May 1968:6-21. A286.9 Ag8
- 71908 WHEELER, L. A. Agricultural trade in the Pacific Basin. World Agr. 17(2):9-16. Apr. 1968. 6 W893
- 71909 YUNYU SHOKURYO KYOGIKAI. JIMUKYOKU. Yunyu Shokuryo Kyogikai 20 [i.e. dai ni-ju] shunen kinen ronbunshu [Food import conference. 20th anniversary commemorative issue]. Tokyo, 1968. 169 p. HD9000.5 Y9  
Includes indices to Yunyu Shokuryo Kyogikai ho, Nos. 28-231. Jan. 1959—Dec. 1967. 389.9 In7



**AGRICULTURAL PRODUCTS: PROCESSING,  
DISTRIBUTION, AND STATISTICS**

**GENERAL**

- 71910 BARNELL, H. R., COOMES, T. J., and HOLLINGSWORTH, D. F. Some aspects of the implementation of food policy. *Nutr. Soc. Proc.* 27 (1):8-13. Ref. Mar.1968. 389.9 N953 Great Britain.
- 71911 BOERMA, A. H. The role of FAO. *Econ.-Statist. Ber.* 53(2639):352-353. Apr.10,1968. 280.8 Ec722  
Indicative World Plan of FAO to promote food production.
- 71912 BRENNAN, R. E., and others. A bookshelf on foods and nutrition. *Amer. J. Public Health Nat. Health* 58(4):621-637. Apr.1968. 449.9 Am3J  
L. Anderson, M. A. Joslyn, and G. M. Briggs, joint authors.  
Bibliographies.
- 71913 CANTOR, S. M., and SHAFFER, G. E. New protein foods from plant sources: A system for economic evaluation. *Econ. Bot.* 22(1):29-36. Jan./Mar.1968. 450 Ec7  
Costs and returns as related to processing, marketing and consumer preference.
- 71914 GARNER, R. G. Food industry developments in the future. *J. Food Milk Technol.* 31(4):101-109. Ref. Apr.1968. 44.8 J824
- 71915 LNOWITZ, S. M. Our responsibilities to the developing nations. *Limestone* 5(15):16-17, 35,37,39,41. Spring 1968. 294.8 L62  
On the War on Hunger.
- 71916 MAROVICH, P. E., and CAMPBELL, M. Programmed instruction in teaching food science. *Amer. Diet. Ass. J.* 52(5):407. May 1968. 389.8 Am34
- 71917 MILNER, M. An introduction to the protein problem. *Econ. Bot.* 22(1):3-7. Jan./Mar. 1968. 450 Ec7
- 71918 STAHMANN, M. A. The potential for protein production from green plants. *Econ. Bot.* 22(1):72-79. Ref. Jan./Mar.1968. 450 Ec7  
Forage plants.
- 71919 SYMPOSIUM ON INTEGRATED RESEARCH IN ECONOMIC BOTANY VIII, PROTEIN FOR FOOD, CORAL GABLES, 1967. [Papers.] *Econ. Bot.* 22(1):3-79. Jan./Mar.1968. 450 Ec7  
Delivered at 8th annual meeting of the Society for Economic Botany, June 5-8, 1967.
- 71920 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Emergency food assistance to India. Hearings—ninetieth Congress, first session on H.J. Res. 262 and H.J. Res. 267, February 28, March 1 and 2, 1967. Washington, 1967. 95 p. PREP 1081
- 71921 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Emergency food for India. Hearings—eighty-ninth Congress, second session on H. J. Res. 997, March 31, 1966. Washington, 1966. 21 p. PREP 1157
- 71922 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Extended the Food Stamp Act of 1964 and amend the Child Nutrition Act of 1966. Hearings ninetyeth Congress, first session on H.R. 1268, H.R. 7105, March 15 and 16, 1967. Washington, 1967. 117 p. PREP 1088
- 71923 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Provide food and medical services on an emergency basis. Hearings—ninetieth Congress, first session on S. 2138. Washington, 1967. 95 p. PREP 1975
- 71924 ZHAVORONKOV, N. M. Chemistry and the vital resources of mankind (the use of substitutes and their industrial and economic significance). *World Pop. Conf. Proc.*, v.3:346-352. 1965, pub.1967. HB849.W6 1965  
Population and food supply.

**ANALYSIS AND COMPOSITION**

- 71925 BOWMAN, M. C., and BEROZA, M. Determination of fenthion and five of its metabolites in corn, grass, and milk. *J. Agr. Food Chem.* 16 (3):399-402. May/June 1968. 381 J8223

- 71926 BRYAN, F. L. What the sanitarian should know about staphylococci and salmonellae in non-dairy products. I. Staphylococci. *J. Food Milk Technol.* 31(4):110-116. Ref. Apr.1968. 44.8 J824  
Food.
- 71927 BUTLER, L. I., and MCDONOUGH, L. M. Method for the determination of residues of carbamate insecticides by electron-capture gas chromatography. *J. Agr. Food Chem.* 16(3):403-407. May/June 1968. 381 J8223  
In agricultural products.
- 71928 CAVINS, J. F., and FRIEDMAN, M. New amino acids derived from reactions of  $\epsilon$  Amino groups in proteins with  $\alpha, \beta$ -unsaturated compounds. *Biochemistry* 12(6):3766-3770. Ref. Dec.1967. 381 B523
- 71929 CLEMENTS, N. L. Note on a microbiological assay for aflatoxin B<sub>1</sub>: A rapid confirmatory test by effects on growth of *Bacillus megaterium*. *Ass. Offic. Anal. Chem. J.* 51(3):611-612. May 1968. 381 As7  
Food analysis.
- 71930 CRISAN, E. V. A 2,4-dinitrophenylhydrazine spray for the identification of aflatoxin B<sub>1</sub> on thin-layer chromatoplates. *Boyce Thompson Inst. Contrib.* 24(2):37-38. Jan./Mar.1968. 451 B69  
Food.
- 71931 DEPEW, F. M. The salmonellae—a current challenge. *Food Drug Cosmet. Law J.* 23(3):164-168. Mar.1968. 389.58 F732
- 71932 FAUCHEUX, L. J. Rapid cleanup for carbaryl. using channel layer chromatography. *Ass. Offic. Anal. Chem. J.* 51(3):676-678. May 1968. 381 As7  
In food products.
- 71933 FLANN, B. C., and BARTLET, J. C. Isolation and concentration of traces of lead with strontium sulfate. *Ass. Offic. Anal. Chem. J.* 51(3):719-724. Ref. May 1968. 381 As7  
In food.
- 71934 GAJEK, O., and KLIMCZAK, H. A method of dry mineralization for determination of food. (Pol) *Warsaw. Panstw. Zakl. Hig. Roczn.* 19(1):109-115. 1968. 449.9 W26  
English summary.
- 71935 HANNA, J. G. The 70th report on food products, 1965. *Conn. Agr. Exp. Sta. Bull.* 690, 102 p. Apr.1968. 100 C76St  
Analysis and inspection.
- 71936 HANNA, J. G. The 71st report on food products, 1966. *Conn. Agr. Exp. Sta. Bull.* 691, 104 p. Apr.1968. 100 C76St  
Analysis and inspection.
- 71937 HANNA, J. G. The 72nd report on food products, 1967. *Conn. Agr. Exp. Sta. Bull.* 692, 83 p. Apr.1968. 100 C76St  
Analysis and inspection.
- 71938 HERRMANN, J. E., and CLIVER, D. O. Food-borne virus: detection in a model system. *Appl. Microbiol.* 16(4):595-602. Apr.1968. 448.3 Ap5
- 71939 HOBBS, B. C., KENDALL, M., and GILBERT, R. J. Use of phenolphthalein disphosphate agar with polymyxin as selective medium for the isolation and enumeration of coagulase positive Staphylococci from foods. *Appl. Microbiol.* 16 (3):535. Mar.1968. 448.3 Ap5
- 71940 HOWARD, J. W., FAZIO, T., and WHITE, R. H. Collaborative study of a method for benzo(a)-pyrene in smoked foods. *Ass. Offic. Anal. Chem. J.* 51(3):544-548. Ref. May 1968. 381 As7
- 71941 KING, C. J. Rates of moisture sorption and desorption in porous, dried food stuffs. *Food Technol.* 22(4):165-171. Ref. Apr.1968. 389.8 F7398  
Application of statistical methods.
- 71942 LOW, M. J. D., and FREEMAN, S. K. Infrared interferometry in flavor analysis. *J. Agr. Food Chem.* 16(3):525-528. May/June 1968. 381 J8223

- 71943 MALIK, K. Determination of sensitivity to antibiotics of coagulase positive strains of *Staphylococcus* isolated from food. (Pol) *Warsaw. Panstw. Zakl. Hig. Roczn.* 19(1):97-102. 1968. 449.9 W26  
English summary.
- 71944 MOHLER, K., and MAYRHOFFER, O. L. The identification and determination of nitrosamines in foods. (Ge) *Z. Lebensmittel-Untersuchung -Forsch.* 135(6):313-318. Ref. 1968. 384 Z39
- 71945 MOSSEL, D. A. A., KAMPELMACHER, E. H., and NOORLE JANSEN, L. M. VAN. The optimal mode of transport for swabs obtained from surfaces examined for organisms causing food-borne disease. *J. Hyg.* 66(1):59-66. Ref. Mar. 1968. 449.8 J82
- 71946 OSADA, H., and GOTO, I. The determination of metals in food by atomic absorption spectroscopy. 1. On the determination of magnesium. (Ja) *Jap. Soc. Food Nutr. J.* 20(5):1-6. Ref. Jan. 1968. 389.9 J27  
English summary.
- 71947 OTT, D. E., and GUNTHER, F. A. Automated analysis of organophosphorus insecticides by wet digestion-oxidation and colorimetric determination of the derived orthophosphate. *Ass. Offic. Anal. Chem. J.* 51(3):697-708. May 1968. 381 As7  
In food products.
- 71948 PEERS, F. G. Aflatoxin—a summary of recent work. *Trop. Sci.* 9(4):186-203. Ref. 1967, pub. 1968. 26 T756  
Determination in foodstuffs.
- 71949 POWERS, J. J., and KEITH, E. S. Stepwise discriminant analysis of gas chromatographic data as an aid in classifying the flavor quality of foods. *J. Food Sci.* 33(2):207-213. Ref. Mar./Apr. 1968. 389.8 F7322
- 71950 ROSENBAUM, S. Effect of pressure on solvent permeation through semipermeable membranes. *J. Polymer Sci. Part B, Polymer Lett.* 6(4):307-311. Ref. Apr. 1968. 381 J829L
- 71951 SCHORMULLER, J., and SCHUBERT, W. A contribution to the analysis of fumaric acid and maleic acid in foods. (Ge) *Z. Lebensmittel-untersuchung -Forsch.* 136(3):146-158. Ref. 1968. 384 Z39
- 71952 SHIBASAKI, K., OTANI, S., and TOKIDA, T. Studies on freezing and freeze-drying of foods. VII. Characteristics of moisture equilibria in dehydrated foods. II. (Ja) *J. Food Sci. Technol.* 15(2):7-14. 1968. 388 J822  
English summary.
- 71953 STREICHAN, D. The behavior of some human pathogenic bacteria and bacteria toxins in food and their elimination by heat treatment of food. I. *Salmonellae*. (Ge) *Arch. Lebensmittel.* 19(3):60-65. (Cont.) Mar. 1968. 41.8 L49
- 71954 TAYLOR, J. R., and BOOMQUIST, V. H. Polarographic determination of fumeric acid in foods. *Ass. Offic. Anal. Chem. J.* 51(3):533-537. May 1968. 381 As7
- 71955 TERAMOTO, S. Physical properties of foods and their relation to food industry. (Ja) *J. Food Sci. Technol.* 15(1):34-43. Ref. 1968. 388 J822
- 71956 WAGNER, W. Ion exchange gel electrophoresis. (Ge) *Z. Lebensmittel-Untersuchung -Forsch.* 136(3):175-176. 1968. 384 Z39
- 71957 WAZENSKI, T. J., RHODES, K. J., and ROBINSO, E. C. Note on the simultaneous use of polyvalent H and Spicer-Edwards H antisera as a preliminary step in the identification of *salmonellae*. *Ass. Offic. Anal. Chem. J.* 51(3):718-719. May 1968. 381 As7  
In food.
- 71958 WESSEL, J. R. Collaborative study of three gas chromatographic dual detection systems for analysis of multiple chlorinated and organophosphorus pesticides. *Ass. Offic. Anal. Chem. J.* 51(3):666-675. Ref. May 1968. 381 As7
- 71959 WOJTOWICZ, P. F., and STAUFFER, L. J. Updating analytical constants for egg content of food. *Ass. Offic. Anal. Chem. J.* 51(3):590-591. May 1968. 381 As7
- 71960 WOODAMS, E. E., and NOWREY, J. E. Literature values of thermal conductivities of foods. *Food Technol.* 22(4):150-158. Apr. 1968. 389.8 F7398  
Review of the literature.
- CONSUMPTION AND UTILIZATION**
- 71961 FRANKLIN, H. L. Frozen food consumption mounts 15.7% to 55.355 pounds per capita. *Quick Frozen Foods* 30(9):41-44. Apr. 1968. 389.8 Q4
- DISTRIBUTION, MARKETING, AND TRANSPORTATION**
- 71962 BAILEY, F. Plans for profits through futures. *Farm Quart.* 23(3):67,119. Summer 1968. 44.8 Am38
- 71963 BAKER, F. S. Transportation packaging and other innovations affecting structure and efficiency. In Davidson, J. R., and Ottoson, H. W., ed. *Transportation problems and policies in the trans-Missouri West*, p.335-345. 1967. HD199.5.F3T7  
With reference to railroad and truck transportation.
- 71964 DAVIDSON, J. R., and OTTOSON, H. W., ed. *Transportation problems and policies in the trans-Missouri West*. Lincoln, University of Nebraska Press, 1967. 377 p. Ref. HE199.5.F3T7  
Papers presented at a workshop on transportation sponsored jointly by the Great Plains Resource Economics Committee and the Western Marketing Research Committee held at Denver, November 30 to December 2, 1965.  
Agricultural transportation.
- 71965 FELTON, J. R. Commodity rate discrimination in railroad transport. In Davidson, J. R., and Ottoson, H. W., ed. *Transportation problems and policies in the trans-Missouri West*, p.55-80. Ref. 1967. HE199.5.F3T7
- 71966 KOTELYANETS, V. I., and RYUMINA, A. P. Lowering transportation costs. (Rus) *Uchet Finansy Kolkhoz. Sovkhoz.* 1:25-27. 1968. 30.69 Uc4
- 71967 LAUTH, J. H. Seeking freight-rate adjustments on agricultural commodities. In Davidson, J. R., and Ottoson, H. W., ed. *Transportation problems and policies in the trans-Missouri West*, p.259-283. Ref. 1967. HE199.5.F3T7
- 71968 MAKI, W. R. Transportation and interregional research—problems of data and methodology. In Davidson, J. R., and Ottoson, H. W., ed. *Transportation problems and policies in the trans-Missouri West*, p.169-191. Ref. 1967. HE199.5.F3T7
- 71969 MCPHERSON, W. K., and WITT, H. G. Relationship between feed costs and the cost of transporting livestock products between surplus and deficit feed grain producing areas. *Feedstuffs* 40(14):20,22-24,26. Apr. 6, 1968. 286.81 F322  
With reference to location of livestock feeding enterprises.
- 71970 MONDALE, W. Farm bargaining still poses more questions than answers. *Poultry Meat* 5(4):42-43. Apr. 1968. 47.8 P8656  
Includes legislation.
- 71971 MOSER, D. E. Needed educational programs in transportation. In Davidson, J. R., and Ottoson, H. W., ed. *Transportation problems and policies in the trans-Missouri West*, p.349-356. 1967. HE199.5.F3T7
- 71972 NELSON, D. C. Historical background of transportation in the trans-Missouri West. In Davidson, J. R., and Ottoson, H. W., ed. *Transportation problems and policies in the trans-Missouri West*, p.3-21. 1967. HE199.5.F3T7
- 71973 NELSON, J. C. Coming organizational changes in transportation. In Davidson, J. R., and Ottoson, H. W., ed. *Transportation problems and policies in the trans-Missouri West*, p.299-334. Ref. 1967. HE199.5.F3T7  
Includes historical aspects and rail and truck mergers.



- 71974 NELSON, R. A. Coming challenges in integrating theory and research in transportation. In Davidson, J. R., and Ottoson, H. W., ed. Transportation problems and policies in the trans-Missouri West, p.23-33. 1967. HE199.5.F3T7
- 71975 O'NEILL, R. E. How computers are changing our ways of doing business. Progr. Grocer 47 (4):206-207,212-216. Apr.1968. 286.83 P942 Application to food marketing.
- 71976 PORTER, C. W. Bargaining in agriculture, a current appraisal. Pa. State Univ. Ext. Farm Econ. 19M,4 p. Mar.1968. 275.28 P38 Marketing cooperatives; includes government aid to agriculture and improved farming methods.
- 71977 PORTER, M. A. Buying food. Va. Polytech. Inst. Ext. Circ. 811,rev.,10 p. Feb.1968. 275.29 V81C
- 71978 RICHARDS, H. A. Coordination and competition among carriers. In Davidson, J. R., and Ottoson, H. W., ed. Transportation problems and policies in the trans-Missouri West, p.287-298. 1967. HE199.5.F3T7
- 71979 THOMPSON, W. H. Expected developments in transportation legislation and implications to agriculture. In Davidson, J. R., and Ottoson, H. W., ed. Transportation problems and policies in the trans-Missouri West, p.243-258. Ref. 1967. HE199.5.F3T7
- 71980 U. S. BUR. OF THE CENSUS. Annual survey of manufactures, 1966: value of shipment by classes of products. Washington, 1968 36 p. 157.41 An72 Food products included.
- 71981 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Agricultural fair trade practices. Hearings—ninetieth Congress, first session on S. 109. Washington, 1967. 191 p. PREP 1976
- 71982 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Amend the Commodity Exchange Act. Hearings ninetyeth Congress, first session on H.R. 11930 and H.R. 12317. Washington, 1967. 165 p. PREP 1843
- 71983 U. S. CONGRESS. SENATE. COMMITTEE ON COMMERCE. Agricultural cooperative transportation, exemption. Hearings—ninetieth Congress, first session on S. 752 to amend section 203 (b) (5): of the Interstate commerce act, and for other purposes. Washington, 1967. 204 p. PREP 2049
- 71984 ULREY, I. W. Current problems in transportation in the trans-Missouri West. In Davidson, J. R., and Ottoson, H. W., ed. Transportation problems and policies in the trans-Missouri West, p.35-52. 1967. HD199.5.F3T7
- 71985 WEBER, A. Information theory as new expression in advertising research. (Ge) Agrarwirtschaft 17(3):65-77. Ref. Mar.1968. 280.8 Ag826 English summary. Includes marketing.
- 71986 WERY, J. The Common Market on the march. (Fr) Agriculture [Paris] 31(307):41,43,45-47, 49,51,map. Feb.1968. 14 Ag823 A project, Romont Industrial Refrigerated Warehouses (Entrepôts Frigorifiques Industriels de Romont, E.F.I.R.) for setting up refrigerated warehouses in Switzerland for distribution of agricultural products over Europe.
- 71987 YEUTTER, C. Interstate legal barriers to transportation in the trans-Missouri West. In Davidson, J. R., and Ottoson, H. W., ed. Transportation problems and policies in the trans-Missouri West, p.195-241. Ref. 1967. HE199.5.F3T7
- 71989 DELMORE, F. J. Voluntary compliance encouraged by Bureau changes. Food Drug Cosmet. Law J. 23(4):227-232. Apr.1968. 389.78 F732 Bureau of Education and Voluntary Compliance of the Food and Drug Administration.
- 71990 DREES, H. Plant protection chemical residues and food consumption. (Ge) Gesunde Pflanzen 20(3):53-56,58. Mar.1968. 464.8 G33 Legislation regarding tolerances.
- 71991 DUNHAM, W. C. Labels tell the inside story. N. H. Univ. Ext. Consum. Leaflet. 2,6 p.-folder 1967. HC110.C6C63 Food; includes legislation.
- 71992 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Pesticide residues in food; joint report of the FAO Working Party on Pesticide Residues and the WHO Expert Committee on Pesticide Residues, Geneva, 14-24 November 1966. Food Agr. Organ. UN. FAO Agr. Stud. 73,19 p. 1967. 28 F73
- 71993 GEOFFRION, R. Are diseased plants dangerous? (Fr) Phytoma 20(195):35-40. Feb.1968. 464.8 P563 Toxins and contaminants in edible plants and products affected by pests and diseases.
- 71994 GERARD, A. Food law and its fundamental principles. (Fr) Indus. Aliment. Agr. 84(12): 1575-1579. Dec.1967. 383 As7
- 71995 KATO, H. Studies on non-enzymatic browning of foods. (Ja) Agr. Chem. Soc. Jap. J. 42(2): R9-R15. Ref. Feb.1968. 385 Ag8
- 71996 KAUFMANN, A. F., and others. Salmonellosis epidemic related to a caterer—delicatessen-restaurant. Amer. J. Public Health Nat. Health 58(4):764-771. Ref. Apr.1968. 449.9 Am3J C. R. Hayman, F. C. Heath, and M. Grant, joint authors. Salmonella melagrisidis isolated from food.
- 71997 THE LAW and regulation, inspection and safety. (Fr) Rev. Conserv. 24,i.e.23(3):131-134. Mar. 1968. 389.8 R326 Processed foods.
- 71998 POVALYAIEV, A., and CHERNOSVITOV, YU. After atomic attack. (Rus) Zemledelie 4:68-70. Apr.1968. 20 Z44 Includes contamination of agricultural plants.
- 71999 POWERS, J. J. Computers, statistics & gas chromatography could be the winning combination in industry's efforts to move—toward objective evaluation of food flavor. Food Technol. 22(4):39-41,43-44. Ref. Apr.1968. 389.8 F7398
- 72000 SCHUDEBOOM, L. J. Course in the preservation of foods. 23. Preserved foods in relation to public health. 23.2. The soundness of processed foods. (Du) Conserva 16(7):165-168. Ref. Jan.1968. 389.8 C7632
- 72001 SMITH, G. E. How much is agriculture to blame? Pollution problems. Agr. Nitrogen News 18(2):32-36,38-40. Mar./Apr.1968. 381 Ag82 Agricultural wastes and contamination of water and food by nitrates from nitrogen fertilizers.
- 72002 SPEER, F. Harmless foods that make us ill. Amer. Perfum. Cosmet. 83(2):41-42. Feb.1968. 308.8 Am3 Allergenic foods.
- 72003 SUTTON, R. G. A., and HOBBS, B. C. Food poisoning caused by heat-sensitive Clostridium welchii, a report of five recent outbreaks. J. Hyg. 66(1):135-146. Ref. Mar.1968. 449.8 J82
- 72004 TATTON, J. O'G. Organochlorine pesticide residues in foodstuffs. Process Biochem. 3(3): 21-23,26. Mar.1968. TP1.P7

#### GRADING, INSPECTION, STANDARDIZATION, AND QUALITY

#### PACKING AND PACKAGING

- 71988 DAVIES, J. H. V. The Codex Alimentarius. Chem. Indus. [London] 11:337-342. Mar.16, 1968. 382 M31C International food standards.

- 72005 FORTE, W. E. The Fair Packaging and Labeling Act—the problems and effects of discretionary regulations. Food Drug Cosmet. Law J. 23(3):109-113. Mar.1968. 389.58 F732

## PRICES, PRICE CONTROL, AND RATIONING

- 72006 CANADA. DEPT. OF AGRICULTURE. PRODUCTION AND MARKETING BR. Crop and seasonal price summaries, fresh and processed fruits and vegetables, maple products and honey. Vol. 20—1966-67—part 1. Ottawa, 1968. 30 p. 284.39 C162S  
Text also in French.
- 72007 GRUSHEKIL, L. The prices and the profitability of the state farms. (Rus) Ekon. Sel'skogo Khoz. 1:9-16, map. 1968. 281.8 So73
- 72008 LUKINOV, I. Agricultural production and the prices. (Rus) Kommunist 4:60-70. Mar. 1968. 280.8 B633  
Policies.

## PROCESSING AND STORAGE

- 72009 FILLMORE, B. M. British frozen food industry expands. Foreign Trade 129(1):26-29. Jan. 6, 1968. 286.8 C162
- 72010 FOOD IN CANADA. Encyclopedia of food chemicals. Food Can. 28(4):61-84. Apr. 1968. 389.8 F7323
- 72011 GAFFRE, P. Canning industry in our partner of European Common Market. III. Belgium. (Fr) Rev. Conserv. 24(2):59-113, map. Feb. 1968. 389.8 R326
- 72012 GILES, C. H., and NURSTEN, H. E. Microbiological effects of synthetic food colouring matters; some aspects of the adsorption of aromatic solutes at biological surfaces. J. Sci. Food Agr. 19(1):47-52. Ref. Jan. 1968. 382 So12
- 72013 GRAY, H. E. Insect pests in food processing and packaging—their effect and control. Food Can. 28(4):43-46. Apr. 1968. 389.8 F7323
- 72014 HERNDON, D. H., GRIFFIN, R. C., and BALL, C. O. Use of computer-derived tables to calculate sterilizing processes for packaged foods. Food Technol. 22(4):129-134. Apr. 1968. 389.8 F7398
- 72015 HOFMAN, E. G. Sterilization and preservation by radiation. (Ge) Umschau 68(5):146-147. Feb. 29, 1968. 474 Um7  
Includes food.
- 72016 KOTKOWSKI, S., and MACHOY, Z. Some physicochemical properties of food dyes. (Pol) Warsaw. Panstw. Zakl. Hig. Roczn. 19(1):69-78. Ref. 1968. 449.9 W26  
English summary.
- 72017 LAMADE, W. Chemical to nuclear. Agr. Chem. 23(5):18-20. May 1968. 381 Ag8  
Use of radiation in food processing and agriculture.
- 72018 MATELES, R. I., and TANNENBAUM, S. R. Single-cell protein. Econ. Bot. 22(1):42-50. Ref. Jan./Mar. 1968. 450 Ec7  
Microorganisms for protein synthesis.
- 72019 MUNSON, S. T., and others. Freezing foods for home use. Minn. Univ. Ext. Ext. Bull. 244, rev., 57 p. 1968. 275.29 M66S  
J. D. Winter, M. L. Hamre, and C. E. Allen, joint authors.
- 72020 NATIONAL ASSOCIATION OF FROZEN FOOD PACKERS. Frozen food pack statistics 1967. Washington, D. C., 1968. 60 p. 389.9 N2123
- 72021 OKI, T., and OZAKI, A. Bacteriophages of L-glutamic acid-producing bacteria. XI. Selection of inhibitors for phage infection and suppression of phage adsorption by phytyc acid. Agr. Biol. Chem. 32(3):320-328. Mar. 1968. 385 Ag8B  
In industrial fermentation.
- 72022 OKI, T., IJIMA, Y., and OZAKI, A. Bacteriophages of L-glutamic acid-producing bacteria. XII. Inhibition of Brevibacterium phages by non-ionic surface-active agents. Agr. Biol. Chem. 32(3):329-339. Mar. 1968. 385 Ag8B
- 72023 PARIS. INSTITUT APPERT. Certain remarks on the scale of sterilization of canned foods; relation of initial temperature to the sterilizing value of applied heat. (Fr) Indus. Aliment. Agr. 85(1):3-6. Jan. 1968. 383 As7
- 72024 QUAST, D. G., and KAREL, M. Dry layer permeability and freeze-drying rates in concentrated fluid systems. J. Food Sci. 33(2):170-175. Ref. Mar./Apr. 1968. 389.8 F7322
- 72025 REHM, H. J., WALLNOFFER, P., and HERBIG, G. Study of the antimicrobial effect of biphenyl and biphenyl derivatives. IV. Effect on the carbohydrate metabolism of fungi. (Ge) Z. Lebensmittel-Untersuchung -Forsch. 136(3):167-175. 1968. 384 Z39  
Includes food spoilage organisms.
- 72026 SCIARRA, J. J. Food, pharmaceutical, and cosmetic aerosols. Aerosol Age 13(4):39, 168-109, 111. Apr. 1968. 309.8 AE8
- 72027 SOUTHERN Frozen Food Association: men and milestones (from 1949 to 1968). Quick Frozen Foods 30(9):62-64, 66-68. Apr. 1968. 389.8 Q4
- 72028 SOUTHWESTERN Frozen Food Association: men and milestones (from 1953 to 1968). Quick Frozen Foods 30(9):69-72. Apr. 1968. 389.8 Q4
- 72029 SRINIVASAN, S. Partners in rural industry; a commercial company has branched out from straight food processing and is now offering Indian farmers loans, special cattle feed and advice in animal husbandry. FAO (Food Agr. Organ.) Rev. 1(1):39-41. Jan./Feb. 1968. TX341.F63
- 72030 U. S. ATOMIC ENERGY COMMISSION. Annual report to Congress, for 1967. Washington, 1968. 397 p. 173 At7S  
Research in food irradiation included.
- 72031 U. S. BUSINESS AND DEFENSE SERV. ADMIN. The commercial prospects for selected irradiated foods. Washington, 1968. 90 p. PREP 2444
- 72032 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Strategic Agricultural Commodity Reserve Program. Hearings—ninetieth Congress, first session on H.R. 9644, H.R. 11285, H.R. 11436, H.R. 12067, H.R. 12108, and H.R. 12166. Washington, 1967. 177 p. PREP 2131
- 72033 U. S. CONGRESS. JOINT COMMITTEE ON ATOMIC ENERGY. Review of the food irradiation program. Hearings—eighty-ninth Congress, second session on review of the food irradiation program, September 12, 1966. Washington, 1967. 344 p. PREP 1159
- 72034 U. S. CROP REPORTING BOARD. Summary of regional cold storage holdings, 1967. Washington, 1968. 22 p. 1.956 M34Su62
- 72035 WOGGON, H., and JEHLE, D. Contribution to the testing of plastic supplies; determination of antioxidants and UV absorbers in plastics. (Ge) Z. Lebensmittel-Untersuchung -Forsch. 136(2):77-82. 1968. 384 Z39

## STATISTICS

- 72036 AUSTRALIA. BUR. OF CENSUS AND STATISTICS. WESTERN AUSTRALIAN OFF. Agricultural and pastoral statistics, season 1966-67. Perth, 1968. 19 p. 271.7 C332
- 72037 CZECHOSLOVAKIA statistical abstract. Prague, Orbis, 1968. 125 p., map. 280.8 C995 1968  
Includes agriculture and forestry.
- 72038 LANDBOUW-ECONOMISCH INSTITUUT. Landbouwcijfers [Agricultural statistics] 1968. 's-Gravenhage, 1968. 208 p. 281.9 L232  
Netherlands Centraal Bureau voor de Statistiek, cooperating.  
Data for the Netherlands and the European Common Market.
- 72039 U. S. BUR. OF THE CENSUS. 1964 United States Census of Agriculture. Volume II. Introduction. Washington, 1968. 64 p., map. HD1753.A5 1964
- 72040 YEARBOOK of Nordic statistics, 1967. v. 6. Stockholm, Nordiska Radet, 1968. 152 p., map. 257 Y3  
Includes agriculture, forestry, and trade.



- 72041 YUGOSLAVIA. SAVEZNI ZAVOD ZA STATISTIKU. Statistical pocket-book of Yugoslavia 1968, 14th issue. Beograd, 1968. 256 p., map. 266.9 Sa9Ske  
Agricultural statistics included.

#### BEVERAGES AND CONDIMENTS

- 72042 ADACHI, T., KASHIHARA, J., and MOURI, T. Nucleic acid related substances and nucleic acid degrading enzymes in sake-brewing. (Ja) J. Ferment. Technol. 46(1):6-14. Ref. Jan. 1968. 390.08 H12  
English summary.
- 72043 ADACHI, T., KASHIHARA, J., and MOURI, T. Nucleic acid related substances and nucleic acid degrading enzymes in sake-brewing. II. Characteristics of nucleic acid degrading enzymes of sake-koji. (Ja) J. Ferment. Technol. 46(1):15-20. Ref. Jan. 1968. 390.08 H12  
English summary.
- 72044 AKHVEDIANI, G. D., and others. Champagne packing material. (Rus) Vinodel. Vinograd. SSSR 2:47-49. 1968. 95.8 V77  
R. M. Kvachadze, R. I. Kurdadze, and N. V. Ptskialdze, joint authors.
- 72045 ANDERSEN, J. E., and HILDEBRAND, R. P. Hop extraction. Food Technol. Australia. 20(2):64-73. Feb. 1968. 389.8 F7333  
Role in brewing.
- 72046 BERG, H. C. The South African wine industry: an evaluation. Wines Vines 49(4):51-54. Apr. 1968. 95.8 C122
- 72047 BERGERET, J., and FEUILLAT, M. Study of aging of fine Bourgogne wines in bottles. (Fr) Indus. Aliment. Agr. 84(12):1599-1605. Dec. 1967. 383 As7  
English summary.
- 72048 BERRYSMITH, F. New Zealand's wine and industry is flourishing. New Zeal. J. Agr. 116(3):18-19. Mar. 1968. 23 N48J
- 72049 BRENNER, M. W., ARTHURS, M. J., and STEWART, E. E. Yellow corn grits vs. brewers corn syrups as adjuncts for lager beer. Master Brewers Ass. Amer. Tech. Quart. 5(1):30-38. Jan./Mar. 1968. 390.9 M39T
- 72050 BREWER'S DIGEST. Buyers' guide and brewery directory for 1968. Chicago, 1968. 102 p. 225 B75
- 72051 BUEVEROVA, E. M. Problems of developing grape and wine industry. (Rus) Vinodel. Vinograd. SSSR. 2:1-3. 1968. 95.8 V77  
Policies chiefly.
- 72052 BUJARD, M. Heating mash, a new technology. (Ge) Schweiz. Z. Obst- Weinbau 104(3):49-54; (4):88-91. (Concl.) Ref. Feb. 3-17, 1968. 80 Sch9  
Effects on color of wine in grape processing.
- 72053 CALDERON, P., VAN BUREN, J., and ROBINSON, W. B. Factors influencing the formation of precipitates and hazes by gelatin and condensed and hydrolyzable tannins. J. Agr. Food Chem. 16(3):479-482. Ref. May/June 1968. 381 J8223  
In natural beverages.
- 72054 CAUWE, M. G. Application of the Lefrancois method to continuous fermentation in brewing. (Fr) Indus. Aliment. Agr. 85(1):9-13. Jan. 1968. 383 As7  
English summary.
- 72055 CLAPPERTON, J. F., and HOLLIDAY, A. G. Estimation of carbohydrates in worts and beers by gas chromatography. Inst. Brewing J. 74(2):164-169. Mar./Apr. 1968. 390.9 In7
- 72056 COSTA, N. Refrigeration in the wine industry. Food Indus. S. Afr. 20(9):46. Jan. 1968. 389.8 F7372
- 72057 DALMASSO, G. Grapes and wine in the course of centuries. (It) Ital. Agr. 105(1):44-52. Jan. 1968. 16 It1
- 72058 FERREN, W. P., and SHANE, N. A. Differential spectrometric determination of caffeine in soluble coffee and in drug combinations. Ass. Offic. Anal. Chem. J. 51(3):573-577. May 1968. 381 As7
- 72059 FILIPPOV, B. A., GORSNIKOVA, N. I., and VOLOVIK, M. D. Thermic chamber for aging of champagne. (Rus) Vinodel. Vinograd. SSSR 2:43-47. 1968. 95.8 V77
- 72060 FLESCH, P. Morphology, physiology and characterisation of malic enzyme activity of bacteria, decomposing L-malic acid. (Ge) Arch. Mikrobiol. 60(4):285-302. Ref. 1968. 442.8 Ar26  
English summary.  
Wine bacteria.
- 72061 FORBES & WALKER LIMITED. Ceylon tea review 1967. Colombo, 1968. 20 p. 286.83 C332
- 72062 GUIDE to Latin American coffee. 3. Country data. World Coffee Tea 8(12):21, 24, 26-27, 30-32, 34, 36-38, 40-43, 45-46, 48, 50-51, 53-62. Apr. 1968. 286.83 W89  
Various aspects of the industry.
- 72063 HANCOCK, B. L. The development of pesticides. Cocoa Growers' Bull. 10:17-21. Spring 1968. 68.38 C642  
The effect on cocoa flavor.
- 72064 HARDY, T. Eye witness report on U. S. growing in the early 1880s. VIII. Wines Vines 49(2):33-34. Feb. 1968. 95.8 C122  
California.
- 72065 HAYASHIDA, M., UEDA, R., and TERAMOTO, S. Studies on organic acids in sake-brewing. (Ja) J. Ferment. Technol. 46(2):77-91. Ref. Feb. 1968. 390.08 H12  
English summary.
- 72066 IGNATENKO, I. A., and VASILENKO, V. N. Installation for washing of barrels. (Rus) Vinodel. Vinograd. SSSR 2:49-50. 1968. 95.8 V77  
Wine containers.
- 72067 INSTITUTE OF BREWING. Annual report and accounts. Inst. Brewing J. 74(2):110-153. Mar./Apr. 1968. 390.9 In7
- 72068 JABAT, J. V. South Africa building sizable tea industry. Tea Coffee Trade J. 134(3):40-41. Mar. 1968. 68.8 T22
- 72069 JACKSON, M. M. Collaborative study of a spiral vessel count method for estimating shell in the chocolate component of cocoa and related products. Ass. Offic. Anal. Chem. J. 51(3):725-735. May 1968. 381 As7
- 72070 KEITH, E. S., and POWERS, J. J. Determination of flavor threshold levels as sub-threshold, additive, and concentration effects. J. Food Sci. 33(2):213-218. Ref. Mar./Apr. 1968. 389.8 F7322  
The compounds forming an artificial peach beverage base.
- 72071 KLEINERT, J., and HABEGGER, M. Determination of fat-free constituents of cacao in chocolate and chocolate products. (Ge) Rev. Int. Choc. 23(1):2-4, 6-9. Jan. 1968. 68.38 R32
- 72072 KUNKEE, R. E. Simplified chromatographic procedure for detection of malo-lactic fermentation. Wines Vines 49(3):23-24. Mar. 1968. 95.8 C122
- 72073 KUROSOKY, A., and BARS, A. Quantitative gas chromatographic analysis of amino acids in beer and wort. Inst. Brewing J. 74(2):200-207. Ref. Mar./Apr. 1968. 390.9 In7
- 72074 LAWS, D. R. J. Hop resins and beer flavour. V. The significance of oxidized hop resins brewing. Inst. Brewing J. 74(2):178-182. Mar./Apr. 1968. 390.9 In7
- 72075 LEACH, A. A. Nitrogenous components of worts and beers brewed from all-malt and malt plus wheat flour grists. Inst. Brewing J. 74(2):183-192. Ref. Mar./Apr. 1968. 390.9 In7
- 72076 LETHIELLEUX, M. D. The Lefrancois fermentors in brewing. (Fr) Indus. Aliment. Agr. 85(1):15-18. Jan. 1968. 383 As7  
English summary.
- 72077 LEVI, C. P., and BORKER, E. Survey of green coffee for potential aflatoxin contamination. Ass. Offic. Anal. Chem. J. 51(3):600-602. May 1968. 381 As7

- 72078 MCCARRON, E. A. Determination of loss on drying in roasted ground coffee. Ass. Offic. Anal. Chem. J. 51(3):577-579. May 1968. 381 As7
- 72079 MITYUKOV, A. D. Technology of the fruit-ber-ry wine. (Rus) Vinodel. Vinograd. SSSR 2:19. 1968. 95.8 V77
- 72080 NILOV, V. I., and VYSOTSKAYA, L. E. Free acids in the cognac. (Rus) Vinodel. Vinograd. SSSR 2:4-5. 1968. 95.8 V77
- 72081 NORTHMORE, J. M. Raw bean colours and the quality of Kenya Arabica coffee. Turrialba 18 (1):14-20. Ref. Jan./Mar.1968. 8 T86
- 72082 OTU, M. Influence of aluminium chloride on color of sake. II. Effect of various salts of alu-minium. (Ja) J. Ferment. Technol. 46(1):1-5. Jan.1968. 390.08 H12  
English summary.  
Discoloration.
- 72083 OUGH, C. S., and KUNKEE, R. E. Fermenta-tion rates of grape juice. V. Biotin content of juice and its effect on alcoholic fermentation rate. Appl. Microbiol. 16(4):572-576. Ref. Apr.1968. 448.3 Ap5
- 72084 RATUSHNYI, G. D. To the problem of using supersonic vibration for clarifications of wine with bentonite. (Rus) Vinodel. Vinograd. SSSR 2:16-18. 1968. 95.8 V77
- 72085 ROSEBROOK, D. D., BOLZE, C. C., and BAR-NEY, J. E. Improved method for determination of extractable color in Capsicum spices. Ass. Offic. Anal. Chem. J. 51(3):637-643. May 1968. 381 As7
- 72086 ROSEBROOK, D. D., BOLZE, C. C., and BAR-NEY, J. E. An improved method for determin-ing steam-volatile oil in cassia. Ass. Offic. Anal. Chem. J. 51(3):644-650. May 1968. 381 As7
- 72087 ROSEBROOK, D. D., and BARNEY, J. F. Inves-tigation of the determination of volatile isothioc-ynates in mustard seed and flour. Ass. Offic. Anal. Chem. J. 51(3):633-636. May 1968. 381 As7
- 72088 RUNNER, J. Tea, universal drink, its role in the world economy. (Fr) Indus. Aliment. Agr. 84(12):1619-1627. Dec.1967. 383 As7  
English summary.
- 72089 SHIMATANI, Y. Characteristics of grapes for use in making wine in Japan. I. Analysis of grapes and studies on vintage year in Japan. (Ja) J. Ferment. Technol. 46(2):99-106. Ref. Feb.1968. 390.08 H12  
English summary.
- 72090 SKURIKHIN, I. M., and NAZAROVA, N. V. In-vestigating cold regime used for processing of cognac. (Rus) Vinodel. Vinograd. SSSR 2:7-9. 1968. 95.8 V77  
Clarification.
- 72091 TEBB, G. A survey of infestation in maltings and breweries. Inst. Brewing J. 74(2):207-219. Ref. Mar./Apr.1968. 390.9 In7
- 72092 THRASHER, J. J., and BRICKEY, P. M. Rapid method for the extraction of light filth from paprika. Ass. Offic. Anal. Chem. J. 51(3):525-527. May 1968. 381 As7
- 72093 YAMANISHI, T., and others. Flavor of black tea. V. Agr. Biol. Chem. 32(3):379-386. Mar. 1968. 385 Ag8B  
A. Kobayashi, H. Nakamura, A. Uchida, S. Mori, K. Ohsawa, and S. Sasakura, joint au-thors.
- 72094 ZAKHARINA, O. S., LIPOVICH, L. M., and RYSHKA, F. YU. Effect of cation exchange on protein composition in wine. (Rus) Vinodel. Vinograd. SSSR 2:13-15. 1968. 95.8 V77
- DAIRY PRODUCTS
- 72095 AMERICAN DAIRY SCIENCE ASSOCIATION. SOUTHERN DIV. Abstracts of papers presen-ted at the annual meeting, Louisville, Kentucky February 5-7, 1968. J. Dairy Sci. 51(4):618-631. Apr.1968. 44.8 J822
- 72096 BARKSDALE, B. B. The threat of the new. Farm Quart. 23(3):56-57,120-122. Summer 1968. 6 F22995  
Filled milk.
- 72097 BOGDANOVA, L. S. Dairy industry in the dis-tricts of recently reclaimed West-Siberian low-land. (Rus) Moloch. Prom. 4:4-6. Apr.1968. 44.8 M734
- 72098 BONADONNA, T. Milk and dairy products. (It) Latte 42(1):28-31. Jan.1968. 44.8 L35  
Industry.
- 72099 BORNEMANN, P. Remarks on the outlines submitted by the EEC Commisison. (Ge) Molk.-Kaserei-Zeitung 19(6):217-219. Feb.14,1968. 44.8 M736
- 72100 BUCHANAN, R. A. The development of new dairy products throughout the world. Soc. Dairy Technol. J. 21(1):3-8. Ref. Jan.1968. 44.8 So12
- 72101 DAM, B. VAN. Dairy policy in the E.E.C. (Du) Econ.-Statist. Ber. 53(2638):305-306. Apr.3, 1968. 280.8 Ec722
- 72102 DAVIS, J. G. The milk of the future. Soc. Dairy Technol. J. 21(1):18-36. Ref. Jan.1968. 44.8 So12
- 72103 DEHN, W. North German dairy professionals on a study trip through Sweden. (Ge) Molk.-Kaserei-Zeitung 19(6):222-227. Feb.14,1968. 44.8 M736
- 72104 ENGBRECHT, W. Milk trade and dairies must make common markets, to have them. (Ge) Molkerei-Kaserei-Zeitung 19(17):562. Apr.24, 1968. 44.8 M736  
Cooperation between dairies in Brunswick.
- 72105 FRIETEMA, H. J. A failure of the milk and dairy policy? (Du) Econ.-Statist. Ber 53 (2633):175-178. Feb.28,1968. 280.8 Ec722
- 72106 GOPINATH, G., and DASTUR, N. N. Planning for dairy development. Gosamvardhana 15(12): 3-8. Mar.1968. 43.8 G69  
In India.
- 72107 HEIBER, J. Our dairy future courageously discussed. (Ge) Molk.-Zeitung Welt Milch 22 (7):187-188. Feb.16,1968. 44.8 M735
- 72108 HESSELMANN, F. The Munster/Westfalen Dairy Teaching Institute [Molkereilehranstalt in Munster/Westfalen] educated 1037 diary masters. (Ge) Molkerei-Kaserei-Zeitung 19 (14):457-460. Apr.3,1968. 44.8 M736
- 72109 HOFMANN, F. Current as well as medium and long-range problems of the dairy industry. (Ge) Agrarpolit. Rev. 24(4):121-140. Apr.1968. 281.8 Ag824  
Switzerland.
- 72110 INDIANA STATE DAIRY ASSOCIATION. Seven-ty-eighth annual report 1968. n.p. 1968. 79 p. 44.9 Im22
- 72111 KLIMENKO, B. S. Increasing production and im-proving the quality of cheese. (Rus.) Moloch. Prom. 3:1-5. Mar.1968. 44.8 M734
- 72112 KÜHNEMUND, W. Education of dairy leader-ship. (Ge) Molkerei-Kaserei-Zeitung 19(17): 568-569. Apr.24,1968. 44.8 M736
- 72113 LADD, G. W. Trends in the Iowa dairy indus-try. Iowa. Agr. Home Econ. Exp. Sta. Spec. Rep. 54,27 p.,map. Ref. Nov.1967. 100 Io9Sp
- 72114 LEHMANN, F. Development of dairy produc-tion and marketing in Hanover-Brunswick. (Ge) Molkerei-Kaserei-Zeitung 19(17):565-566. Apr.24,1968. 44.8 M736
- 72115 LYLE, W. F., and BYARS, L. L. Make complex decisions right and in minutes; computer de-cision systems available to dairy industry offer positive benefits. Milk Dealer 57(8):20-21,24, map. May 1968. 44.8 M595
- 72116 MCLAUCHLAN, G. Casein, a glamour product. New Zealand J. Agr. 116(4):13-17. Apr.1968. 23 N48J
- 72117 NORSKE MELKEPRODUSENTERS LANDSFOR-BUND. Beretning [Report of the Norwegian Milk Producer's Association], 1967. Oslo, 1968. 119 p. 44.9 N817



- 72118 SCARR, R. J. Trends in the Australian dairy industry. *Milk Dealer* 57(8):18. May 1968. 44.8 M595
- 72119 SEAS, S. W., and SPURGEON, K. R. New spread-type dairy product. *S. Dak. Agr. Exp. Sta. Bull.* 543, 23 p. Ref. Apr. 1968. 100 So82
- 72120 SEELEMAN, M. Impressions of a study trip through Southwest Africa. (Ge) *Molkerei-Kaserei-Zeitung* 19(17):572-575. Apr. 24, 1968. 44.8 M736  
Chiefly dairy industry.
- 72121 STRAUSS, E. The future of the dairy industry; some economic aspects. *Soc. Dairy Technol. J.* 21(1):36-45. Jan. 1968. 44.8 So12
- 72122 SVENSKA mejerikalendern [The Swedish dairy calendar], 1968. Helsingborg, 1967. 203 p. 44.8 SV22
- Analysis and Composition
- 72123 ADDA, J., and others. Trials in utilization of the infra red milk analyzer. (Fr) *Lait* 48 (473/474):145-154. (Cont.) Mar./Apr. 1968. 44.8 L143  
E. Blanc-Patin, R. Jeunet, R. Grappin, G. Mocquot, B. Pousardieu, and G. Ricordeau, joint authors.
- 72124 ASHTON, D. H., BUSTA, F. F., and WARREN, J. A. Relief of casein inhibition of *Bacillus stearothermophilus* by iron, calcium, and magnesium. *Appl. Microbiol.* 16(4):628-635. Ref. Apr. 1968. 44.8 Ap5
- 72125 ASHTON, T. R. Psychotrophic organisms in milk and milk products. *Milk Indus.* 62(5):29-31. May 1968. 44.8 M593
- 72126 BARROW, G. I. A bacteriological study of fresh cream and cream products in Cornwall. *Milk Indus.* 62(4):29-33. Apr. 1968. 44.8 M593
- 72127 BRECKENRIDGE, W. C., and KUKSIS, W. C. Specific distribution of short-chain fatty acids in molecular distillates of bovine milk fat. *J. Lipid Res.* 9(3):388-393. Ref. May 1968. 381 J8282
- 72128 HUHTANEN, C. N. Effect of low-frequency ultrasound and elevated temperatures on isolation of bacteria from raw milk. *Appl. Microbiol.* 16(3):470-475. Mar. 1968. 44.8 Ap5
- 72129 IGARASHI, Y., and SAITO, Z. Separation and some properties of temperature sensitive fraction in casein. *Jap. J. Zootech. Sci.* 39 (2):78-84. Ref. Feb. 1968. 49 N62  
Chromatography in milk research.
- 72130 JONES, F. T., and LEE, K. S. Note on aflatoxin M<sub>1</sub>: Optical and X-ray crystallographic data. *Ass. Offic. Anal. Chem. J.* 51(3):610. May 1968. 381 As7  
Tests on milk and urine.
- 72131 KIERMEIER, F., and WIGAND, W. Determination of selenium in milk. (Ge) *Z. Lebensmittel-Untersuchung -Forsch.* 136(3):158-166. Ref. 1968. 384 Z39
- 72132 KINSELLA, J. E. Milkfat the big challenge. *Amer. Dairy Rev.* 30(4):36,40,42,95-98. Apr. 1968. 44.8 Am38  
Properties and marketing.
- 72133 KLIMAN, P. G., and PALLANSCH, M. J. Chemical changes in spray-dried skim milk held near dryer outlet temperature. *J. Dairy Sci.* 51(4):498-502. Ref. Apr. 1968. 44.8 J822
- 72134 KOLAROV, K. M. Effect of fats on conductivity of temperature in some dairy products. (Rus) *Moloch. Prom.* 4:44-45. Apr. 1968. 44.8 M734
- 72135 KUZZDAL-SAVOIE, S. Fractionation of butter methyl esters by silica gel silver nitrate impregnated thin layer chromatography. 1. Preliminary study. (Fr) *Lait* 48(473/474):121-130. Ref. Mar./Apr. 1968. 44.8 L143  
English summary.
- 72136 MASRI, M. S., PAGE, J. R., and GARCIA, V. C. Analysis for aflatoxin M in milk. *Ass. Offic. Anal. Chem. J.* 51(3):594-600. Ref. May 1968. 381 As7
- 72137 MELLORS, A. Beta-N-acetylglucosaminidase in bovine milk. *Can. J. Chem.* 46(5):451-455. Ref. May 1968. 470 C16E
- 72138 MOATS, W. A., and DABBAH, R. Improved nonmechanical method for estimating dispersibility of nonfat dry milk. *J. Dairy Sci.* 51(4):607-610. Apr. 1968. 44.8 J822
- 72139 MOLOCHNIKOV, V. V., and LAVRENT'EVA, L. N. Quantitative method of determining DDT in milk. (Rus) *Moloch. Prom.* 4:20-21. Apr. 1968. 44.8 M734
- 72140 MOORE, G. M., RATTRAY, J. B. M., and IRVINE, D. M. Composition of milk cephalins. *Can. J. Biochem.* 46(3):205-209. Ref. Mar. 1968. 470 C16E
- 72141 MURTHY, G. K., and RHEA, U. Cadmium and silver content of market milk. *J. Dairy Sci.* 51(4):610-613. Ref. Apr. 1968. 44.8 J822
- 72142 OHMIYA, K., and SATO, Y. Studies on the proteolytic action of dairy lactic acid bacteria. IV—V. *Agr. Biol. Chem.* 32(3):291-302. Mar. 1968. 385 Ag8B  
OL'SHEVSKII, P. A. Measuring milk with a syringe. (Rus.) *Moloch. Prom.* 3:30-31. Mar. 1968. 44.8 M734  
Analysis.
- 72144 PITRE, J., and OBATON, J. Comparative study of the various methods of determining the amount of overrun in ice cream. (Fr) *Lait* 48(473/474):155-165. (Cont.) Mar./Apr. 1968. 44.8 L143
- 72145 PLATONOW, I. Preliminary report on the cell counting of milk in refrigerated tanks. (Fr) *Econ. Med. Anim.* 9(1):32-38. Jan./Feb. 1968. 41.8 Ec7
- 72146 PRODANSKI, P. G. Determination of the most suitable acidity of whey to improve coagulation and separation of proteins. (Rus.) *Moloch. Prom.* 3:45-47. Mar. 1968. 44.8 M734
- 72147 RENNERT, E., and KIERMEIER, F. On the objectivity of some test methods for raw milk. (Ge) *Milchwissenschaft* 23(3):156-163. Mar. 1968. 44.8 M5933  
English summary.
- 72148 SANDEV, S., and BALTADJIEVA, M. Identification and determination of free fatty acids in cheese with the aid of liquid-liquid chromatography. (Fr) *Lait* 48(473/474):141-144. Mar./Apr. 1968. 44.8 L143  
English summary.
- 72149 SCHMIDT, D. G., and MARKWIJK, B. W. VAN. Further studies on the associating subunit of  $\kappa$ -casein. *Biochim. Biophys. Acta* 154(3):613-614. Apr. 9, 1967. 381 B522  
From milk.
- 72150 STOUTZ, S. DE. Determination of vitamin D in "actinized" milk. (Fr) *Indus. Aliment. Agr.* 84(12):1589-1597. Dec. 1967. 383 As7
- 72151 SWAISGOOD, H. E., and TIMASHEFF, S. N. Association of alphas-casein C in the alkaline pH range. *Archiv. Biochem. Biophys.* 125(1):344-361. Ref. Apr. 1968. 381 Ar2
- 72152 THOM, V. M. Investigations on the modified resazurin test. *Dairy Indus.* 33(4):238-242. Ref. Apr. 1968. 44.8 D1427  
Milk.
- 72153 VOLODINA, E. V. Control of solids-not-fat in butter. (Rus.) *Moloch. Prom.* 3:28-30. Mar. 1968. 44.8 M734
- 72154 WHITE, J. C. The bible; new dairy products version. *Amer. Dairy Rev.* 30(4):54,98-100. Apr. 1968. 44.8 Am38  
On the 12th edition, 1967, of the Standard Methods for the Examination of Dairy Products issued by the American Public Health Association.
- 72155 YOSHINO, U., and others. On the methods for determining lactose in cheese and the lactose content in different types of cheese. (Ja) *Jap. J. Zootech. Sci.* 39(2):85-88. Feb. 1968. 49 N62  
S. Nishizawa, K. Yamauchi, and T. Tsugo, joint authors.  
English summary.
- 72156 ZHEBROVSKII, L. S., and PAVLYUCHENKO, T. A. A quick method of determining protein fraction in milk by adsorption of dye. (Rus) *Zhivotnovodstvo* 2:69-70. Feb. 1968. 49 Z6

- 72157 ZHEBROVSKII, I. S., and GADZHIEV, G. M. Using chromatographic methods on paper for determination of amino acids in milk. (Rus) Zhi-votnovodstvo 2:70-72. Feb.1968. 49 Z6

#### Consumption and Utilization

- 72158 HEDTKE, R. F. Consumers like wholesome-ness. Mod. Milk Hauler 8(6):11. Apr.1968. 280.38 M72
- 72159 LUNDSTEDT, E., WERSTO, P. A., and DUNCAN, J. F. Consumer preferences for flavor and body style in Cottage cheese. Cult. Dairy Prod. J. 2(4):4-6. In Milk Dealer 57(8). May 1968. 44.8 M595

#### Distribution, Marketing, and Transportation

- 72160 BLACKMAN, R. Summary of transport regulations. Milk Indus. 62(4):51. Apr.1968. 44.8 M593  
Rules of interest to the dairy industry.
- 72161 GROOT, K. The marketing of dairy produce in the Common Market. Milk Indus. 62(4):24-28. Apr.1968. 44.8 M593
- 72162 NEU, F. R. How well do we really know our competition? Ind. State Dairy Ass. Annu. Rep. 78:6-18. 1968. 44.9 In22
- 72163 PURCELL, J. C., GOODWIN, J. D., and ELROD, J. C. Fluid milk distribution in Georgia, costs and alternatives. Ga. Agr. Exp. Sta. Res. Bull. 17,30 p. Nov.1967. S51.E2
- 72164 SASKATCHEWAN, MILK CONTROL BOARD. Annual report, 1967. Regina, 1968. 15 p. 280.3449 Sa7  
Marketing.
- 72165 SCHMIDT, K. W. Berlin is now as ever an extremely interesting market area. (Ge) Deut. Molk.-Zeitung 89(4):102-103. Jan.25,1968. 44.8 Su2  
Dairy products.
- 72166 SNODGRASS, D. R. The class 1 base plan; how's it doing? Dairy Herd Manage. 4(2):15-16. Feb.1968. SF191.D3  
In filling federal milk orders.

#### Grading, Inspection, Standardization, and Quality

- 72167 ARMITT, J. D. The farm weed taint story. 1. Queensland Agr. J. 94(1):2-7. Jan.1968. 23 Q33  
Taint in butter.
- 72168 ARMSTRONG, J. G. A survey of milk flavours in Edmonton. Can. Dairy Ice Cream J. 47(5):17-20. May 1968. 44.8 C162
- 72169 BREDE, H. Strengthened quality inspection of dairy products, an urgent necessity. (Ge) Molkerei-Kaserei-Zeitung 19(17):569-570. Apr.24,1968. 44.8 M736
- 72170 FISTERE, C. M. Legal aspects of modified and vegetable fat dairy products. Food Drug Cosmet. Law J. 23(4):209-226. Apr.1968. 389.58 F732
- 72171 GORDON, K. P., HANKINSON, D. J., and CARVER, C. E. Deposition of milk solids on heated surfaces. J. Dairy Sci. 51(4):520-526. Ref. Apr.1968. 44.8 J822
- 72172 HAMM, D. L., and HAMMOND, E. G., and HOTCHKISS, D. K. Effect of temperature on rate of autoxidation of milk fat. J. Dairy Sci. 51(4):483-491. Ref. Apr.1968. 44.8 J822
- 72173 HEDTKE, R. F. Plant surveys assure wholesome dairy products. Agr. Marketing [Washington] 13(5):14. May 1968. A280.38 Ag8
- 72174 HOLLAND, R. F. Some factors to consider about filled and imitation milks. Amer. Dairy Rev. 30(5):32. May 1968. 44.8 Am38  
Chiefly quality.
- 72175 KLEIN, H., and THOMAS, H. J. On the question of quality grading of raw milk by means of electronic cell counting. (Ge) Milchwissenschaft 23(3):153-156. Mar.1968. 44.8 M5933  
English summary.

- 72176 KONDO, S., and others. Studies on the removal of radiomucides in milk. 1. Qualities of milk treated with cation-exchange resin of the composite salt form. (Ja) Agr. Chem. Soc. Jap. J. 42(2):72-78. Ref. Feb.1968. 385 Ag8  
K. Saito, T. Niki, S. Sakai, Y. Koga, and N. Nozaki, joint authors.  
English summary.
- 72177 KULESHOVA, M. F. On the quality of Process cheese, shown on the contest-show. (Rus.) Moloch. Prom. 3:23. Mar.1968. 44.8 M734
- 72178 KURATA, Y. Source of contamination of milk during the processing in the milk plant and the keeping quality of the milk. (Ja) Jap. Vet. Med. Ass. J. 21(2):63-68. Ref. Feb.1968. 41.9 J275
- 72179 LESPERANCE, R. Payment for milk according to its fat and nitrogenous content. (Fr) Agriculture [Montreal] 25(1):28-29. Mar.1968. 7 Ag82
- 72180 ROHSE, E. The fat content standardization of food curds with 30%, 45%, 50%, and 60% fat in dry mass. (Ge) Deut. Molk.-Zeitung 89(6):191-196. Feb.8,1968. 44.8 Su2
- 72181 SHANNON, E. L., OLSON, N. F., and VON ELBE, J. H. Pink discoloration in Italian varieties of cheese. J. Dairy Sci. 51(4):613-614. Ref. Apr.1968. 44.8 J822
- 72182 SIMONSEN, H. National and international standardization work for milk and dairy products. (No) Meieriposten 57(16):295-301. Apr.20,1968. 44.8 M47
- 72183 STEINITZ, W. S. A closer look at quality of ice cream ingredients. Amer. Dairy Rev. 30(4):48-49,52,100. Apr.1968. 44.8 Am38
- 72184 YAREMKO, N. F. Recommendations for improvement of cheese quality and designs of enterprises. (Rus.) Moloch. Prom. 3:13-15. Mar. 1968. 44.8 M734

#### Packing and Packaging

- 72185 BRONKHORST. Influence of construction of a farm tank for the deep cooling and quality changes of milk. (Ge) Deut. Molk.-Zeitung 89(9):331. Feb.29,1968. 44.8 Su2
- 72186 DOTSENKO, V. M. A bunker for dry milk. (Rus) Moloch. Prom. 4:28-29. Apr.1968. 44.8 M734  
Packing equipment.
- 72188 MACNEISH, A. C. New Ontario public health regulations aim for top quality in marketplace. Can. Dairy Ice Cream J. 47(5):17-20. May 1968. 44.8 C172  
Dairy product container regulation.
- 72189 MCNAIR, L. W. Plastic crates—a user's views. Dairy Indus. 33(4):235-237. Apr.1968. 44.8 D1427

#### Prices, Price Control, and Rationing

- 72190 HAFEMAN, W. H. Milk—best kept secret. Dairy Herd Manage. 4(2):11,59. Feb.1968. SF191.D3  
Chiefly prices.
- 72191 VOPELIUS. Dairy prices must be removed from politics. (Ge) Molk.-Zeitung Welt Milch 22(14):399-400. Apr.5,1968. 44.8 M735

#### Processing and Storage

- 72192 ANGEVINE, N. C. Sources and trends of lactic cultures. Cult. Dairy Prod. J. 2(4):7-8. In Milk Dealer 57(8). May 1968. 44.8 M595
- 72193 ATHERTON, H. V. Can't be careless with cleaning solutions. Dairy Herd Manage. 4(2):56-57. Feb.1968. SF191.D3  
Chiefly milk sanitation.
- 72194 BARTENEV, S. I. Mechanization and automation of the separated processes in cheese manufacture. (Rus) Moloch. Prom. 4:39-42. Apr. 1968. 44.8 M734  
In the member countries of the Council for Mutual Economic Assistance.



- 72195 BERGERE, J. L. Mass production of lactic streptococcus cells. III. Production of different strains in culture with constant pH. (Fr) Lait 48(473/474):131-139. Mar./Apr.1968. 44.8 L143
- 72196 BERRIDGE, N. J. Continuous curd making. Soc. Dairy Technol. J. 21(1):52-54. Jan.1968. 44.8 So12
- 72197 CERUTTI, G., and others. Pecorino cheese of eastern Sicily: Composition and characteristics of experimental products of traditional type of early paraffining. (It) Latte 42(1):19-27. Jan.1968. 44.8 L35  
A. Maccarrone, C. Russo, P. Resmini, and G. Volonterio, joint authors.  
English summary.
- 72198 CHASOV, F. V., and KRASHENININ, P. F. A sharp cheese. (Rus) Moloch. Prom. 4:35-37. Apr.1968. 44.8 M734  
Manufacture.
- 72199 COSGROVE, C. J. Which cherries are best for ice cream. Amer. Dairy Rev. 30(5):48,50. May 1968. 44.8 Am38
- 72200 DILANYAN, Z. KH. Methods of improving quality of the Swiss and the Soviet cheese. (Rus.) Moloch. Prom. 3:10-13. Mar.1968. 44.8 M734
- 72201 DOL'NITSYN, G. V., and others. Manufacturing purified lactose. (Rus) Moloch. Prom. 4:31-33. Apr.1968. 44.8 M734  
A. S. Bondarenko, V. Ya. Trokhachev, V. A. Us, and A. G. Khramtsov, joint authors.
- 72202 GILLESPIE, M. The cultured dairy products. Home Econ. 14(4):25-26. Apr.1968. 321.8 H759
- 72203 GONCHAROV, N. N. A continuous production line for manufacturing of cheese. (Rus) Moloch. Prom. 4:42-44. Apr.1968. 44.8 M734  
France.
- 72204 GURYANOV, A. I., ORASMYAE, and SOEKOV, E. Manufacture of Cottage cheese with application of pressing tanks. (Rus) Moloch. Prom. 4:26-28. Apr.1968. 44.8 M734
- 72205 HADLAND, G., and SMEDSHAUG, A. Quality of farm bulk milk by mechanical refrigeration breakdown. (No) Meieriposten 57(14/15):274-282. (Cont.) Apr.13,1968. 44.8 M47
- 72206 HADLAND, G., and SMEDSHAUG, A. Quality of farm bulk milk by mechanical refrigeration breakdown. (No) Meieriposten 57(16):302-309. (Concl.) Apr.20,1968. 44.8 M47  
English summary.
- 72207 HANNAH DAIRY RESEARCH INSTITUTE, KIRKILL, SCOTLAND. Report, for the three years ended 31st. March, 1968. Apr, 1968. 67 p. 44.9 H19
- 72208 IRVIN, H. A dairy sanitarian takes a look at sterilization of milk and milk products. Amer. Dairy Rev. 30(5):88-91. May 1968. 44.8 Am38
- 72209 KERCHNER, O. G. Economic aspects of flexible dairy manufacturing plants. Minn. Agr. Exp. Sta. Sta. Bull. 487,62 p. 1968. 100 M66
- 72210 KIM, S. C., and HARMON, L. G. Effect of insecticide residues on growth and fermentation ability of lactic culture organisms. J. Food Milk Technol. 31(4):97-100. Apr.1968. 44.8 J824
- 72211 KLIMOVSKII, I. I. Regulation of milk fermentation and its effect on the quality of cheese. (Rus.) Moloch. Prom. 3:8-10. Mar.1968. 44.8 M734
- 72212 KNOTHE, H. Sanitary problems in the industrial manufacture of ice cream. (Ge) Molckerei-Kaserei-Zeitung 19(17):580-581. Apr.24, 1968. 44.8 M736
- 72213 KOGA, Y., and others. Studies on the removal of radionuclides in milk. 2. Factors affecting the removal of radioactive strontium and cesium from milk by cation-exchange resins. Agr. Chem. Soc. Jap. J. 42(2):79-83. Feb.1968. 385 Ag8  
S. Kondo, S. Sakai, H. Nozaki, and T. Tsugo, joint authors.  
English summary.
- 72214 KOSIKOWSKI, F. V. Producing nutritional beverages from acid whey powder and fruit juices. Cult. Dairy Prod. J. 2(4):2-3,8. In Milk Dealer 57(8). May 1968. 44.8 M595
- 72215 KRASHENININ, P. F. Recommendation for introduction of practices concerning cheese production. (Rus.) Moloch. Prom. 3:5-7. Mar.1968. 44.8 M734
- 72216 LENSII, G. M. Measures for improvement of the cheese quality. (Rus.) Moloch. Prom. 3:15-17. Mar.1968. 44.8 M734
- 72217 LOEWENSTEIN, M. In the search to produce quality frozen desserts, the manufacturer must be alert to the need for examining new ingredient possibilities. Amer. Dairy Rev. 30(5):46, 71-75. May 1968. 44.8 Am38
- 72218 MANN, E. J. Market cream processing. Dairy Indus. 33(4):255-256. Ref. Apr.1968. 44.8 D1427  
Review of the literature.
- 72219 MCFETRIDGE, M. J. Access for milk tankers to dairy farms. New Zeal. J. Agr. 116(3):52-53. Mar.1968. 23 N48J
- 72220 NIELSEN, V. H. Dual use of pasteurizers. Amer. Dairy Rev. 30(4):83,104. Apr.1968. 44.8 Am38
- 72221 PANCHENKO, YU. B. Effect of the centrifugal clarification of milk on its quality. (Rus) Moloch. Prom. 4:14-16. Ref. Apr.1968. 44.8 M734
- 72222 SAKAI, S., and others. Studies on the removal of radionuclides in milk. 3. The removal of <sup>131</sup>I in milk. (Ja) Agr. Chem. Soc. Jap. J. 42(2):84-89. Feb.1968. 385 Ag8  
A. Miyahara, H. Shimizu, Y. Koga, S. Kondo, and H. Nozaki, joint authors.  
English summary.  
With ion-exchange resins.
- 72223 SCHULZ, M. E., VOSS, E., and LEDER, K. H. Experimental equipment for dairy technology. I. Working rooms and equipment for aseptic working. (Ge) Milchwissenschaft 23(3):137-147. Mar.1968. 44.8 M5933  
English summary.
- 72224 SCHUPP, W. Mass freezing and melting of cream. (Ge) Deut. Molck.-Zeitung 89(11):407-410. Mar.14,1968. 44.8 Su2
- 72225 SEEHAFFER, M. E. Equipment needed to process sterile products. Amer. Dairy Rev. 30(4):44,46,86-87. Apr.1968. 44.8 Am38
- 72226 SHAPOVALOV, N. M. Ripening of the Russian cheese in plastics with successive waxing by paraffin. (Rus.) Moloch. Prom. 3:40-41. Mar.1968. 44.8 M734
- 72227 SHEKALOV, A. F. Using hydrodynamic vibrator for homogenization of milk. (Rus.) Moloch. Prom. 3:26-28. Mar.1968. 44.8 M734
- 72228 SMITH, H. F. Future trends in milk processing and distribution. Soc. Dairy Technol. J. 21(1):45-51. Jan.1968. 44.8 So12
- 72229 STROZ, J. J. Modification of the plastic properties of butter to improve spreadability. Can. Dairy Ice Cream J. 47(4):19-20. Apr.1968. 44.8 C162
- 72230 SUBRAMANIAN, C. S., and OLSON, N. F. Effect of hydrogen peroxide on activity of lactic cultures in milk. J. Dairy Sci. 51(4):517-519. Ref. Apr.1968. 44.8 J822
- 72231 THOM, E. King rennet challenged by substitutes. Milk Dealer 57(7):21,24. Apr.1968. 44.8 M595
- 72232 VAINBERG, A. YA., BRUSILOVSKII, L. P., and SEMENOV, A. P. Installation for automatic control and processing of kefir in the double wall tank. (Rus) Moloch. Prom. 4:7-11. Apr. 1968. 44.8 M734
- 72233 YAGUCHI, M., DAVIES, D. T., and KIM, Y. K. Preparation of  $\alpha$ -casein by gel filtration. J. Dairy Sci. 51(4):473-477. Ref. Apr.1968. 44.8 J822
- 72234 ZUBOVA, N. D., and KAZAKOVA, R. M. Refrigerators with periodical action for production of ice cream. (Rus.) Moloch. Prom. 3:34-36. Mar.1968. 44.8 M734

## Statistics

- 72235 BEVINS, M. I., and TREMBLAY, R. H. Dairy farming trends in Vermont. Vt. Agr. Exp. Sta. Misc. Publ. 49,28 p. July 1967. 100 V59M Farm statistics.
- 72236 SVENSKA MEJERIERNAS RIKSFORENING. EKONOMIÄVDELNINGEN. Driftsstatistik for svenska mejerier [Operation statistics for Swedish milk plants], XXXIV, 1966. Helsingborg, 1968. 113 p. 281.3449 Sv2
- FEED AND FORAGE CROPS
- 72237 BERGNER, H., and SCHRAMM, S. Studies of a new method for the indirect calorimetric estimation of lignin in feeding-stuffs. 1. Tests with lignin-cellulose mixtures and proof for the reproducibility of the method using rye straw and oat grains. (Ge) Arch. Tierernahr. 18(1): 41-47. Feb. 1968. 389.78 Ar22 English summary.
- 72238 BILLMAN, D. C., and CLARK, H. Collaborative study of microbiological assay of oxytetracycline in feeds. Ass. Offic. Anal. Chem. J. 51(3): 548-552. May 1968. 381 As7
- 72239 CASELLI, R. Technology in the feed industry and its relation to the nutritive value of mixed feeds. (It) Riv. Zootec. 41(1):36-48. Jan. 1968. 49 R52
- 72240 DEHORITY, B. A., SCOTT, H. W., and JOHNSON, R. R. Estimation of forage nutritive value from cellulose digestibilities obtained with pure cultures of cellulolytic rumen bacteria. J. Dairy Sci. 51(4):567-572. Ref. Apr. 1968. 44.8 J822
- 72241 HESSELTINE, C. W., and others. Laboratory studies on the formation of aflatoxin in forages. Mycologia 60(2):304-312. Ref. Mar./Apr. 1968. 450 M99  
O. L. Shotwell, M. L. Smith, G. M. Shannon, E. E. Vandergraft, and M. L. Goulden, joint authors.  
Tests with *Aspergillus flavus*.
- 72242 HIERONYMUS, T. A. Soybean situation and outlook. Grain Feed J. 125(7):8,10,12-14, map. Apr. 10, 1968. 298.8 G762 As feed.
- 72243 KATZ, S. E., and FASSBENDER, C. A. Fat as a factor in the epimerization of chlortetracycline in feeds. Ass. Offic. Anal. Chem. J. 51(3): 557-562. May 1968. 381 As7
- 72244 LIVINGSTON, A. L., NELSON, J. W., and KOHLER, G. O. Stability of  $\alpha$ -tocopherol during alfalfa dehydration and storage. J. Agr. Food Chem. 16(3):492-495. Ref. May/June 1968. 381 J8223
- 72245 NORWAY. STATENS LANDBRUKSKJEMISKE KONTROLLSTASJON, TRONDHEIM. Melding [Report of the State Agricultural Chemical Control Station in Trondheim], 1967. Orkanger, 1968. 9 p. 385 T75  
Feed and fertilizer inspection.
- 72246 PERRIN, C. H., and FERGUSON, P. A. Comparison of flame and burner combinations in at atomic absorption spectroscopy. Ass. Offic. Anal. Chem. J. 51(3):654-658. May 1968. 381 As7  
Feed analysis.
- 72247 PFOST, H. B., ROBERTS, D. E., and SHULMAN, Y. Effects of condensed fermented corn extractives on the pelleting process. Feed-stuffs 40(14):52-53. Apr. 6, 1968. 286.81 F322
- 72248 U. S. AGRICULTURAL STABILIZATION AND CONSERVATION SERV. The 1968 voluntary Feed Grain Program. U. S. D. A. PA-858, 11 p. Jan. 1968. 1 Ag84Pro
- 72249 WILLETT, D. N., PETERSON, H. P., and MOURBRY, R. J. A polarographic method for the determination of nitrates in silage. Ass. Offic. Anal. Chem. J. 51(3):658-661. May 1968. 381 As7
- 72250 WRIGHT, K. N. Determination and quality control of soybean meal. Feedstuffs 40(18):21-28, 54. Ref. May 14, 1968. 286.81 F322  
Factors determining quality as feed.

## FIBERS AND TEXTILES

- 72251 AHMED, H. Jute industry; its present & future. Com. Indus. 11(11):23-26. Jan. 1968. 286.8 C734  
In Pakistan.
- 72252 AMERICAN ASSOCIATION OF TEXTILE CHEMISTS AND COLORISTS. PIEDMONT SECT. A study of fire retardancy of polyester/cotton sheeting. Amer. Dyestuff Rep. 57(10):40-44. May 6, 1968. 306.8 Am3
- 72253 BAITINGER, W. F., NAKAJIMA, W., and DE-PAOLO, G. Improved cotton durable press by wet fixation; laboratory-mill correlations. Textile Res. J. 38(4):432-439. Apr. 1968. 304.8 T293
- 72254 BARNES, R. L. The modified worsted system. Can. Textile J. 85(1):51-52. Jan. 5, 1968. 304.8 C16
- 72255 EL-BEHERY, H. M. Study of theories of fiber migration—need for more fundamental approach and further studies. Textile Res. J. 38(4):321-33. Ref. Apr. 1968. 304.8 T293  
Study of yarn structure.
- 72256 BILLAUX, P. What is the road to survival of flax? (Fr) Fibra 12(3):3-12. Dec. 1967. 73.8 F44  
France.
- 72257 CANTER, C. T., JONES, G. D., and WEAVER, J. W. Rupture of cellulosic fibers in durable press blends. Amer. Dyestuff Rep. 57(2):43-47. Jan. 15, 1968. 306.8 Am3
- 72258 CHAMOV, YU. S. The Hungarian hemp industry. (Rus) Len Konoplya 2:35-37. 1968. 73.8 L542
- 72259 CHAPMAN, W. E., MULLIKIN, R. A., and LA FERNEY, P. E. Effects of gin cleaning on fiber properties and spinning quality, Pima cotton, 1965-66, with and without crusher rolls. U. S. D. A. Marketing Res. Rep. 806, 14 p. Mar. 1968. 1 Ag84Mr
- 72260 CHAPMAN, W. E., MULLIKIN, R. A., and LA FERNEY, P. E. Quality and performance of Pima S-1 and Pima S-2 cotton under different ginning conditions, El Paso area, 1964-65. U. S. D. A. Marketing Res. Rep. 803, 13 p. Feb. 1968. 1 Ag84Mr  
New Mexico and Texas.
- 72261 CONRAD, C. M., and HARBRINK, P. Kinetic examination of the pyrolysis of tritylated celluloses: comparison of the Chatterjee and two alternative methods. Textile Res. J. 38(4): 366-374. Ref. Apr. 1968. 304.8 T293  
Triphenylmethyl used.
- 72262 DARMAN, M. H. The future of wool in the United States. Nat. Wool Grower 53(5):16-17, 27. May 1968. 45.8 N21N
- 72263 DAVIS, R. B. A report on King Cotton. Agr. Nitrogen News 18(2):50-51. Mar./Apr. 1968. 381 Ag82
- 72264 FATEEV, S. S., and TSYBUL'KO, M. P. The flax and flax processing industry in Belorussia. (Rus) Len Konoplya 2:17-19. 1968. 73.8 L542
- 72265 GAGLIARDI, D. D., WEHNER, A., and CICI-ONE, R. J. Improved durable-press cottons produced by conventional pad-dry-cure procedures using pairs of monofunctional and difunctional swelling reactants. Textile Res. J. 38(4):426-431. Apr. 1968. 304.8 T293  
Methylol groups used.
- 72266 GHOSH, B. L., BOSE, R. G., and BASU, S. N. Mechanism of decomposition of jute and cellulose by a Corticium species. Can. J. Microbiol. 14(4):459-466. Ref. Apr. 1968. 421 C16
- 72267 GRAVES, J. W. Raw cotton requirements of textile mills; implications for Southwestern cotton. Tex. Agr. Exp. Sta. B-1072, 16 p. map. Dec. 1967. 100 T31S  
Marketing qualities of Oklahoma and Texas cotton.
- 72268 GREAT BRITAIN. COMMONWEALTH SECRETARIAT. COMMODITIES DIV. Industrial fibres; a review. London, 1968. 255 p. 280.39 G794C



- 72269 GREENWOOD, F. A. Drawing and spinning long staple fibres. Textile Manufacturer 94 (1120):133-137. Apr.1968. 304.8 T3126 Wool included.
- 72270 HOUGH, R. F. Impact of the decline in raw silk on the Suwa basin of Japan. Econ. Geogr. 44(2):95-116, map. Apr.1968. 278.8 Ec7 Includes changes in land use.
- 72271 JONES, F. A. More freedom for cotton farmer. Cotton Dig. 40(28):6-7. Mar.16,1968. 286.82 C822 Acreage controls.
- 72272 KARASEV, M. A. Flax industry in the Kalinin Region; problems, outlook. (Rus) Len Konoplya 3:1-4. 1968. 73.8 L542
- 72273 KARPETS, I. P. Effects of retting and spreading of flax on its fibers. (Rus) Len Konoplya 3:33-34. 1968. 73.8 L542
- 72274 KING, N. L. R., and BRADBURY, J. H. The chemical composition of wool. V. The epicuticle. Australian J. Biol. Sci. 21(2):375-384. Ref. Apr.1968. 442.8 Au72
- 72275 LIGGETT, R. W., and others. Cross-linked cotton of high moisture regain. Textile Res. J. 38(4):375-387. Ref. Apr.1968. 304.8 T293 H. L. Hoffman, A. C. Tanquary, and S. L. Vail, joint authors.
- 72276 MCKNIGHT, F. G. The cotton merchandising industry is becoming vastly complicated. Cotton Dig. 40(30):10-11. Mar.30,1968. 286.82 C822
- 72277 MILLER, B. Thermoanalytical studies on the durable-press curing of cellulose. II. The effect of nitrate salts on the thermal behavior of cotton. Textile Res. J. 38(4):395-400. Apr. 1968. 304.8 T293
- 72278 O'DONNELL, I. J., and THOMPSON, E. O. P. Studies on reduced wool. VIII. N-acetyl peptides isolated from a major component. Australian J. Biol. Sci. 21(2):385-393. Ref. Apr.1968. 442.8 Au72
- 72279 OLOFSSON, B. Extension-recovery behavior of cotton fibers. Textile Res. J. 38(4):440-442. Apr.1968. 304.8 T293 Includes reply by J. J. De Boer and H. Borsten.
- 72280 OLSEN, N. F., and PHILLIPS, L. H. Study shows stretch outwears non-stretch cotton. La. Agr. 11(3):12-13. Spring 1968. 100 L939
- 72281 ÖSTFELD, M. Economic considerations in the selection of modern equipment for cotton spinning. (Ge) Spinner Weber Textilveredlung 86(4):309-312. Apr.1968. 304.8 Sp41
- 72282 PARIS. SYNDICAT GENERAL DE L'INDUSTRIE COTONNIERE. L'industrie cotonniere francaise en 1967 [The French cotton industry in 1967]. Indus. Coton. Franc. Mar. 1968 (spec. no.), 41 p. 286.3729
- 72283 PATTISON, P. Moves to improve classing of N.Z. wool show promise. New Zealand J. Agr. 116(4):38-39. Apr.1968. 23 N48J
- 72284 PERKINS, H. H. Quick check for arsenic on cotton. Textile Indus. 132(5):151-153, 165. May 1968. 304.8 C823
- 72285 PETTY, J. A better fabric than synthetic fiber can be produced using more cotton. Cotton Dig. 40(34):36-39. Apr.27,1968. 286.82 C822
- 72286 RAMANATHAN, S., and others. The determination of formaldehyde in cellulose formals and methylated cellulose formals. Textile Res. J. 38(1):63-71. Ref. Jan.1968. 304.8 T293 J. Rivlin, O. A. Stamm, and H. Zollinger, joint authors. From cotton.
- 72287 RATNAM, T. V., and others. Prediction of the quality of blended yarns from that of the individual components. Textile Res. J. 38(4):360-365. Apr.1968. 304.8 T293 K. S. Shankaranarayana, C. Underwood, and K. Govindarajulu, joint authors. Cotton yarn.
- 72288 REID, W. E. Mill industry needs adequate supply of highest quality raw materials. Cotton Dig. 40(30):36-42. Mar.30,1968. 286.82 C822
- 72289 ROSTRON, E., and MOLCHANKO, V. Crime & fibres. Can. Textile J. 85(5):41-45. Mar.1, 1968. 304.8 C16
- 72290 ROTTERDAM VEREENIGING VOOR DEN KATOENHANDEL. Annual report, 1966-1967, presented at the annual general meeting held on November 29th, 1967. Rotterdam, 1968. 30 p. 287 R74R
- 72291 SIRCAR, A. K., and STANONIS, D. J. Identification of cellulose phenylpropionylphenylpropionate as a side product in the reaction of cotton cellulose with phenylpropionyl chloride. J. Polymer Sci. Part A-1, Polymer Chem. 6(4):1061-1064. Apr.1968. QD471.J6
- 72292 SIRCAR, A. K., and CONRAD, C. M. Mechanical, thermal, and thermomechanical properties of propionylated cotton yarn. Textile Res. J. 38(4):352-359. Ref. Apr.1968. 304.8 T293 A mixture of propionic anhydride and propionyl chloride used.
- 72293 SOUTH AFRICAN WOOL TEXTILE RESEARCH INSTITUTE. Annual report 1967. Port Elizabeth, 1968. 52 p. 304.9 So83 Text also in Afrikaans.
- 72294 STORY, L. F., and HAYWARD, M. F. Metering pumps for detergents in wool scouring. Textile J. Australia 43(2):57-58, 61. Feb.1968. 304.8 T3134
- 72295 TAYLOR, E. L. New synthesis of cellulosic ion-exchange compounds. Textile Res. J. 38(1):104-105. Jan.1968. 304.8 T293
- 72296 TOLGYESI, W. S. Improved cotton DP through dry-cure deposition of polymers containing reactive groups. Textile Res. J. 38(4):416-425. Ref. Apr.1968. 304.8 T293 Methylol groups.
- 72297 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Cotton storage. Hearings—ninetieth Congress, first session, April 26 and 27, 1967. Washington, 1967. 85 p. PREP 1078
- 72298 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Cotton storage costs. Hearing—ninetieth Congress, first session. Washington, 1967. 27 p. PREP 1841
- 72299 U. S. CONGRESS. SENATE. COMMITTEE ON AGRICULTURE AND FORESTRY. User charges for inspection services. Hearings—ninetieth Congress, first session on S. 1389, S. 1476, and S. 1655, bills to authorize user charges for certain services performed by the Department of Agriculture and for other purposes. Washington, 1967. 25 p. PREP 1622 Cotton.
- 72300 U. S. CONSUMER AND MARKETING SERV. COTTON DIV. Summary of cotton fiber and processing test results; crop of 1967. U. S. D. A. Agr. Inform. Bull. 331, 119 p., map. Apr.1968. 1 Ag84Ab Fiber properties and spinning performance.
- 72301 VANCE, R. M. Cotton industry is vital enough to become master rather than servant of change. Cotton Dig. 40(34):44-48. Apr.27, 1968. 286.82 C822
- 72302 WALKER, R. C. In spite of fiendish gov't programs the cotton industry has survived. Cotton Dig. 40(30):13-14, 16. Mar.30,1968. 286.82 C822
- 72303 WELLS, R. D. Patterns of flow of technical information—a design problem for the textile industry. Textile Res. J. 38(4):332-338. Apr. 1968. 304.8 T293 Information storage and retrieval system.
- 72304 WILSON, K., GAMARRA, J., and SWIDLER, R. Vapor-phase treatment of cotton fabrics with formaldehyde catalyzed by sulfur dioxide. Textile Res. J. 38(4):401-415. Ref. Apr.1968. 304.8 T293
- 72305 YATES, J. R. Studies in depilation. II. Structural changes in the wool follicle during bacterial wool loosening ("sweating"). Australian J. Biol. Sci. 21(2):361-374. Ref. Apr.1968. 442.8 Au72

- 72306 ZUREK, W. Volume per unit length as a universal index of fiber fineness and of yarn count. *Textile Res. J.* 38(4):445. Apr.1968. 304.8 T293
- FRUITS, VEGETABLES, AND NUTS
- 72307 AKHUND-ZADE, D. There is an outlook. (Rus) *Sadovodstvo* 1:13. Jan.1968. 80 Sa13  
For development of the fruit industry and acreage in the Azerbaijan SSR.
- 72308 BULL, R. L. Produce facing a varied and profitable future. *Progr. Grocer* 47(4):176,180,182, 184-185. Apr.1968. 286.83 P942
- 72309 CHILDERS, N. F. Vegetables in Yucatan. *Amer. Veg. Grower* 16(3):62. Mar.1968. 80 C733  
Efforts to develop the industry to supplement the main crop which is sisal.
- 72310 DUDNIK, A. The land of fruit gardens and vineyards. (Rus) *Sadovodstvo* 3:1-2. Mar. 1968. 80 Sa13  
Fruit industry in Odessa Region.
- 72311 FLORIDA fruit and vegetable directory, season 1968. Jacksonville, Florida Fruit Digest Co., 1968. 172 p. 225 F664
- 72312 FOSTER, T. H. Changes in the vegetable industry and the implications for Louisiana. *La. Rural Econ.* 30(2):5-8. May1968. 281.8 L93
- 72313 GAFFRE, P. A product for the taste—fruit juice. (Fr) *Rev. Conserv.* 24,i.e.23(3):53-73. Mar.1968. 389.8 R326  
Industry in France.
- 72314 HENRY, B. K. Will tomatoes stay in the Midwest? *Canner/Packer* 137(3):24-25. Mar.1968. 286.83 C16
- 72315 JANSEN, J., and NEURAY, G. Considerations économiques sur le secteur fruitier belge [Economic considerations on the Belgian fruit sector]. Brussels. *Inst. Econ. Agr. Cah. I.E.A.* 77, 54 p. 1968. 281.9 B832
- 72316 KOLBASIN, A. A. Fruit gardens in the Dnepropetrovsk Region. (Rus) *Sadovodstvo* 1:1-2. Jan.1968. 80 Sa13  
Industry.
- 72317 KOLESNIKOV, V. A. Scientific foundations of obtaining highly-productive fruit. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 132: 5-15. 1967. 20 M857  
Policies chiefly.
- 72318 MALYCHENKO, V., and SERGIENKO, E. In the northern part of the Volga-Akhtuba River flood plain. (Rus) *Sadovodstvo* 1:14-15. Jan. 1968. 80 Sa13  
Fruit industry and farms.
- 72319 NEGRUL', A. M. The main outlook for development of fruit, vegetable, grape and ornamental plant industry at the present time. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 132:25-35. 1967. 20 M857
- 72320 PARFENT'EVA, T. L. The freezing point of juices. (Rus) *Vinodel. Vinograd. SSSR* 2:29-21. 1968. 95.8 V77  
Grapejuice.
- 72321 ROGUSKI, K. Fundamentals of interregional distribution of potato varieties. (Pol) *Nowe Roln.* 17(5):19-20. Mar.1/15,1968. 20.5 N86
- 72322 TIMMERS, J. The outlook for Netherlands horticulture. (Du) *Econ.-Statist. Ber.* 53(2637): 282-285. Mar.27,1968. 280.8 Ec722
- 72323 VENT, H. J., and VENT, R. E. The pear industry of the Medford, Oregon, area. *J. Geogr.* 67(3):166-171, map. Mar.1968. 278.8 J82
- 72324 VISCO, S. Fruit in the food economy of the countries of E.E.C. (It) *Ital. Agr.* 105(1):31-43. Jan.1968. 16 It1
- 72325 VYSATA, S. The state of Czechoslovak vegetables at the beginning of 1968. (Cz) *Zahradnicke Listy* 61(2):55-57. 1968. 80 Z12
- Analysis and Composition
- 72326 BECKER, R. Identification of some sugars and mannitol in celery. *J. Food Sci.* 33(2):128-139. Ref. Mar./Apr.1968. 389.8 F7322
- 72327 BOURNE, M. C. Texture profile of ripening pears. *J. Food Sci.* 33(2):223-226. Mar./Apr. 1968. 389.8 F7322
- 72328 COUSSIN, B. R., and SAMISH, Z. The free amino acids of Israel orange juice. *J. Food Sci.* 33(2):196-199. Ref. Mar./Apr.1968. 389.8 F7322
- 72329 CROSSLEY, H., and LYNCH, V. P. Determination of alkyl dinitrophenyl carbonates and other esters, with particular reference to dinobutyl, in fruit and vegetables. *J. Sci. Food Agr.* 19 (2):57-59. Feb.1968. 382 So12
- 72330 DARAVINGAS, G., and GAIN, R. F. Thermal degradation of black raspberry anthocyanin pigments in model systems. *J. Food Sci.* 33(2): 138-142. Ref. Mar./Apr.1968. 389.8 F7322
- 72331 DREYER, D. L. Citrus bitter principles. VIII. *Tetrahedron* 24(8):3273-3283. Ref. Apr.1968. 382 T29
- 72332 GUNTHER, F., and BURCKHART, O. Investigations on plant phosphatases. I. (Ge) Z. *Lebensmittel-Untersuchung -Forsch.* 135(6): 327-334. 1968. 384 Z39  
Apples.
- 72333 HEARTH, F. E., OTT, D. E., and GUNTHER, F. A. Oscillopolarographic determination of parathion, paraoxon, and p-nitrophenol in fortified canned peaches following thin layer chromatography. *Ass. Offic. Anal. Chem. J.* 51(3): 690-697. Ref. May 1968. 381 As7
- 72334 HEGARTY, P. V. J., and WADSWORTH, G. R. The amount of iron in processed cassava (*Manihot utilisima*). *J. Trop. Med. Hyg.* 71(2):51-52. Feb.1968. 448.8 J827
- 72335 HENDERSON, H. M. Chlorogenic acid in relation to the metabolism of starch in potatoes. *Amer. Potato J.* 45(2):41-44. Feb.1968. 75.8 P842  
In storage.
- 72336 KATAYAMA, O., WATANABE, Y., and TSUBATA, K. The aroma components in fruits and vegetables. IV. Strawberry volatiles and the changes by jam processing. (Ja) *J. Food Sci. Technol.* 15(1):8-17. 1968. 388 J822  
English summary.
- 72337 KNAPP, F., AEXEL, R., and NICHOLAS, H. J. The non-saponifiable constituents of lettuce. *J. Food Sci.* 33(2):159-162. Ref. Mar./Apr. 1968. 389.8 F7322  
Chromatography.
- 72338 KOMAKI, T. Studies on enzymatic liquefaction and saccharification of starch. VI. *Agr. Biol. Chem.* 32(2):123-129. Ref. Feb.1968. 385 Ag8B  
Sweetpotato starch.
- 72339 KOMAKI, T. Studies on enzymatic liquefaction and saccharification of starch. VII. On the content of insoluble starch particles in some types of starch and increase of these materials by treatment under several conditions. *Agr. Biol. Chem.* 32(3):314-319. Mar.1968. 385 Ag8B  
Sweetpotato starch.
- 72340 LI, K. C., and WOODROOF, J. G. Gas chromatographic resolution of nonvolatile organic acids in peaches. *J. Agr. Food Chem.* 16(3):534-535. May/June 1968. 381 J8223
- 72341 MAPSON, L. W., and WARDALE, D. A. Biosynthesis of ethylene; enzymes involved in its formation from methional. *Biochem. J.* 107 (3):433-442. Ref. Apr.1968. 382 B52  
From cauliflower florets.
- 72342 MOURI, T., and others. Studies on nucleic acid related substances in foodstuffs. XIV. Nucleic acid degrading enzymes of asparagus. (Ja) *J. Ferment. Technol.* 46(2):132-140. Feb.1968. 390.08 H12  
W. Hashida, I. Shiga, and S. Teramoto, joint authors.
- 72343 MOUSTAFA, S., and STOUT, B. A. A mathematical model for the apple fruit. *Mich. Agr. Exp. Sta. Quart. Bull.* 49(4):450-458. May 1967. 100 M58S  
For determination of volume.



- 72344 PALMER, N. J., and BENSON, W. R. Collaborative study of the thin layer chromatographic method for carbaryl residues in apples and spinach. *Ass. Offic. Anal. Chem. J.* 51(3):679-671. May 1968. 381 As7
- 72345 PANTELIC, M. Sugars and organic acids in fruits of some fruit trees. (Se) *Agrohemija* 1/2:45-48. 1968. 385 Ag87  
English summary.
- 72346 RANCOUR, J. M., and RYAN, C. A. Isolation of a carboxypeptidase B inhibitor from potatoes. *Archiv. Biochem. Biophys.* 125(1):380-383. Apr. 1968. 381 Ar2
- 72347 RANGANNA, S., and SETTY, L. Nonenzymatic discoloration in dried cabbage; ascorbic acid-amino acid interactions. *J. Agr. Food Chem.* 16(3):529-533. May/June 1968. 381 J8223
- 72348 SABUROV, N. V., and UL'YANOVA, D. A. Mutual action of ascorbic acid and anthocyanic pigments in currant and gooseberry juices with pulp. (Rus) *Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl.* 132:259-264. 1967. 20 M857
- 72349 ST. JOHN, L. E., and LISK, D. J. Rapid, sensitive residue determination of organophosphorus insecticides by alkali thermionic gas chromatography of their methylated alkyl phosphate hydrolytic products. *J. Agr. Food Chem.* 16(3):408-410. May/June 1968. 381 J8223  
Applied to Guthion in grapes, Abate in soils, and other insecticides.
- 72350 SCHWIMMER, S., and GUADAGNI, D. G. Kinetics of the enzymatic development of pyruvic acid and odor in frozen onions treated with cysteine C-S lyase. *J. Food Sci.* 33(2):193-196. Ref. Mar./Apr. 1968. 389.8 F7322
- 72351 SCOTT, P. M., and SOMERS, E. Stability of patulin and penicillic acid in fruit juices and flour. *J. Agr. Food Chem.* 16(3):483-485. May/June 1968. 381 J8223
- 72352 SMITH, T. E. Partial purification and characteristics of potato phosphoenolpyruvate carboxylase. *Archiv. Biochem. Biophys.* 125(1):178-188. Ref. Apr. 1968. 381 Ar2
- 72353 STORHERR, R. W., and WATTS, R. R. Collaborative study of the ethyl acetate extraction, sweep co-distillation cleanup, and GLC determination, using six parent organophosphate pesticides. *Ass. Offic. Anal. Chem. J.* 51(3):662-665. May 1968. 381 As7  
Residues in fruit and vegetables.
- 72354 TAKAHASHI, S., and KIKURA, A. Rheological studies on potato starch. VI. *Agr. Biol. Chem.* 32(2):130-139. Ref. Feb. 1968. 385 Ag8B
- 72355 TSONEV, D., and IVANOVA, M. On the amino acid composition of proteins in different string bean varieties. (Bu) *Gradinar. Lozar. Nauk.* 5(1):17-26. Ref. 1968. 87 G75  
English summary.
- 72356 VAS, K., KOVACS-PROSZT, G., and SCHEFFER, H. Effects of ionising radiations on pectin methyl esterases of some fruits and vegetables. *Int. J. Appl. Radiat. Isotopes* 19(3):273-281. Mar. 1968. 334.8 In84  
Effect of gamma rays.
- 72357 WANOUS VAZQUEZ, A., and GECAN, J. S. A new extraction method for light filth in ground and granulated pecans. *Ass. Offic. Anal. Chem. J.* 51(3):527-530. May 1968. 381 As7  
Consumption and Utilization
- 72358 TVETT, O. Industrial utilization of apples. (No) *Gartneryrket* 58(14):301,303. Apr. 5, 1968. 80 G1938
- 72360 DIAMOND FRUIT GROWERS INCORPORATED. Annual report for fiscal year ended April 30, 1967. Portland, Oregon, 1967. 16 p. 281.3939 Ap5
- 72361 FISCHETTI, B. The apple drama: why 7 million quintals have remained unsold; pears too are in serious marketing trouble. (It) *G. Agr.* 78(13):162. Mar. 31, 1968. 16 ItIG
- 72362 FROZEN 34% total juice, drink market exclusive of refrigerated products. *Quick Frozen Foods* 30(9):48-50. Apr. 1968. 389.8 Q4  
Marketing statistics.
- 72363 GONZALEZ VILLAFANE, E., and CONDE RAMIREZ, A. Marketing costs and practices of tomato retailers in Puerto Rico, 1965. (Sp) *P. R. (Rio Piedras) Agr. Exp. Sta. Bull.* 208, 23 p. Dec. 1967. 100 P83  
English summary.
- 72364 GONZALEZ VILLAFANE, E., and DIAZ BIRD, Z. Marketing costs and practices of tomato wholesalers in Puerto Rico, 1964. (Sp) *P. R. (Rio Piedras) Agr. Exp. Sta. Bull.* 207, 35 p., map. Nov. 1967. 100 P83  
English summary.
- 72365 GRAPE Products Order hearing. *Wines Vines* 49(2):13-14. Feb. 1968. 95.8 C122  
Statements of growers pro and con on U. S. Department of Agriculture marketing orders.
- 72366 HEPWORTH, J. Futures trading in frozen orange juice proves positive benefit to Florida. *Quick Frozen Foods* 30(7):141-142. Feb. 1968. 389.8 Q4
- 72367 HERRMANN, R. O., and STEMBERGER, A. P. The availability of fresh and processed mushrooms in U.S. supermarkets, spring 1965. *Penn. Agr. Exp. Sta. Dep. Agr. Econ. Rural Sociol. A.E. R.S.* 60, 13 p. Jan. 1967. 281.9 P38
- 72368 KOHNSTAMM, L. W. The BIG FOUR in dairy drinks bolstered by diet drinks, tea and growing variety of flavors. *Milk Dealer* 57(7):9-10. Apr. 1968. 44.8 M595  
Chiefly fruit drinks.
- 72369 MANLEY, W. T., and GILBRAITH, K. M. Industry perceptions about the Marketing Agreement Program for Florida tomatoes. *Fla. Agr. Exp. Sta. Circ. S-186*, 15 p. Apr. 1968. 100 F66Ci  
U. S. Department of Agriculture, cooperating.
- 72370 MORRISON, W. W. Preparing strawberries for market. *U. S. D. A. Farmers' Bull.* 1560, rev., 16 p. Jan. 1968. 1 Ag84F  
Chiefly harvesting, grading and packing.
- 72371 SIEBERT, J. B. An analysis of the California potato industry's market alternatives. *Calif. Univ. Ext. Inform. Ser. Agr. Econ.* 67-2, 47 p., map. Ref. Dec. 1967. 275.29 C121  
Giannini Foundation of Agricultural Economics, cooperating.  
Includes consumption and processing.
- 72372 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Cherry marketing orders. Hearings—eighty-ninth Congress, second session on H.R. 15959, October 12, 1966. Washington, 1966. 43 p. PREP 1104
- 72373 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Prohibit trading in Irish potato futures on commodity exchanges. Hearings—eighty-ninth Congress, second session on H.R. 6006, February 3, 4, May 16 and 17, 1966. Washington, 1966. 185 p. PREP 1138
- 72374 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. To include certain fruits in the Agricultural Marketing Agreement Act of 1937. Hearings—eighty-ninth Congress, second session on H.R. 13007, H.R. 13826, H.R. 13826, H.R. 13897, H.R. 13931, H.R. 14712, and H.R. 15604, July 27, 1966. Washington, 1966. 54 p. PREP 1121
- 72375 U. S. CONSUMER AND MARKETING SERV. 1968 acreage-marketing guides, summer and fall potatoes. U. S. Consum. Marketing Serv. *AMG* 61, 40 p. Mar. 1968. A281.3919 M34  
Statistics.

#### Distribution, Marketing, and Transportation

- 72359 BROWN, J. D., and ELROD, J. C. Georgia peach producing industry: An analysis of inter-regional competition. *Ga. Agr. Exp. Sta. Res. Bull.* 24, 46 p., map. Ref. Dec. 1967. S51.E2  
Chiefly nationwide marketing statistics.

- 72376 U. S. CONSUMER AND MARKETING SERV. 1968 acreage-marketing guides, summer and fall vegetables, melons, sweetpotatoes. U. S. Consum. Marketing Serv. AMG 62,56 p. J.Mar. 1968. A281.3919 M34 Statistics.
- 72377 U. S. CONSUMER AND MARKETING SERV. FRUIT AND VEGETABLE DIV. The market news service on fruits and vegetables. U. S. D. A. Marketing Bull. 39, rev., 12 p. Dec. 1967. A280.39 Ag8M
- 72378 WILLIAMS, E. W. It looks like a strong juice market—100 million gallons to move in 1968. Quick Frozen Foods 30(6):29-32. Jan. 1968. 389.8 Q4 Orange juice concentrates.
- 72379 ZENTRALVERBAND DES DEUTSCHEN GEMUSE-, OBST- UND GARTENBAUES E. V. Jahresbericht [Annual report of the Central Association of German Vegetable, Fruit, and Horticultural Production], 1967. Bad Godesberg, 1968. 232 p. 286.9 V58 Library has also report for 1966, 210 p. Industry including marketing, advertising, and trade.
- 72388 HELLENDORF, E. W. Quality changes in foods in transparent packing, especially under the influence of light. (Du) Conserva 16(7): 155-161. Ref. Jan. 1968. 389.8 C7632 French summary. Processed fruits and vegetables.
- 72389 SPANNAGEL, F. What's happening in produce packaging wraps. Progr. Grocer 47(4):188,190. Apr. 1968. 286.83 P942

#### Prices, Price Control, and Rationing

- 72390 FRIEDEMANN, H. Price fixing and price recommendations for fruit and vegetable marketing. (Ge) Indus. Obst- Gemüseverwertung 53 (1):8-9. Jan. 4, 1968. 389.8 K832
- 72391 KNUTSON, L. Produce pricing for dollar profit. Prod. Marketing 11(4):20-21. Apr. 1968. 280.38 P943
- 72392 MAMEDOV, G. A., and AVETISYAN, A. M. Differentiation of the delivery prices. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 11:39-40. 1967. 30.69 Uc4 Vegetables.

#### Grading, Inspection, Standardization, and Quality

- 72380 CHRIS (ANTOINE). SERV. "RECHERCHE ET DOCUMENTATION." The peach and its aroma. II. (Fr) Indus. Aliment. Agr. 84(12):1663. Ref. Dec. 1967. 383 As7
- 72381 TANIKAWA, E., and others. Studies on the manufacture of canned asparagus. I. Ammonia formation type swelling of canned asparagus. (Ja) J. Food Sci. Technol. 15(1):18-23. 1968. 388 J822 T. Motohiro, M. Akiba, and M. Suzuki, joint authors. English summary. Produced by bacteria.
- 72382 TANIKAWA, E., and others. Studies on the manufacture of canned asparagus. II. Acid formation type swelling of canned asparagus. (Ja) J. Food Sci. Technol. 15(1):24-26. 1968. 388 J822 T. Motohiro, M. Akiba, and M. Suzuki, joint authors. English summary. Produced by bacteria.
- 72383 TANIKAWA, E., and others. Studies on the manufacture of canned asparagus. III. Flat-souring of canned asparagus. (Ja) J. Food Sci. Technol. 15(1):27-29. 1968. 388 J822 T. Motohiro, M. Akiba, and M. Suzuki, joint authors. English summary. Produced by bacteria.
- 72384 U. S. CONGRESS. SENATE. COMMITTEE ON COMMERCE. National Potato Labeling Act. Hearings—ninetieth Congress, first session on S. 562 to require fresh potatoes purchased or sold in interstate commerce to be labeled according to the State in which such potatoes were grown. Washington, 1967. 46 p. PREP 1977
- 72385 WUSSOW, H. J. Reflections on a technical solution for threshing pea control. (Ge) Indus. Obst- Gemüseverwertung 53(5):133-135. Mar. 7, 1968. 389.8 K832 Quality control and grading.

#### Packing and Packaging

- 72386 CEPONIS, M. J., and KAUFMAN, J. Effect of relative humidity on moisture loss and decay of eastern lettuce prepackaged in different films. U. S. Agr. Res. Serv. ARS 51-18,9 p. Ref. Jan. 1968. A280.39 R31A
- 72387 HARDENBURG, R. E. Wax and related coatings for horticultural products; a bibliography. U. S. Agr. Res. Serv. ARS 51-15,15 p. Dec. 1967. A280.39 R31A Chiefly fruit and vegetables.

#### Processing and Storage

- 72393 AKAMINE, E. K. Tangerine storage. Hawaii. Agr. Exp. Sta. Bull. 142,15 p. Ref. June 1967. 100 H313
- 72394 BECKER, R., and others. Consistency of tomato products. 3. Effects of pH adjustment during tomato juice preparation on pectin contents and characteristics. Food Technol. 22(4):159-162. Ref. Apr. 1968. 389.8 F7398 J. R. Wagner, J. C. Miers, D. W. Sanshuck, and W. C. Dietrich, joint authors.
- 72395 BURTON, W. G. Potatoes—their changes and needs in storage. Farm Bldg. Dig. 3(14):11-14. Spring 1968. 241.4 F22
- 72396 CAVALETTO, C. G., ROSS, E., and YAMAMOTO, H. Y. In-shell storage effects on quality of processed macadamia nuts. Food Technol. 22(4):172-174. Apr. 1968. 389.8 F7398
- 72397 CHANDLER, B. V., KEFFORD, J. F., and ZIE-MELIS, G. Removal of limonin from bitter orange juice. J. Sci. Food Agr. 19(2):83-86. Ref. Feb. 1968. 382 S012
- 72398 DAVIDGE, H. Liquid nitrogen freezing of soft fruit. Aust. Food Mfr. Distrib. 37(7):34-36. Feb. 12, 1968. 389.8 Au7 As refrigerant for strawberries.
- 72399 DOWNS, D. M., and others. Development of foam spray dried cream of tomato soup. Mich. Agr. Exp. Sta. Quart. Bull. 49(4):422-434. May 1967. 100 M58S P. J. Aldrich, A. V. Armitage, and T. I. Hedrick, joint authors.
- 72400 DUVEKOT, W. S. Storage of vegetables and fruit for the processing industry. (Du) Conserva 16(7):162-164. Jan. 1968. 389.8 C7632 French summary.
- 72401 EWING, E. E., and others. Effects of chemical sprout inhibitors and storage conditions on internal sprouting in potatoes. Amer. Potato J. 45(2):56-71. Ref. Feb. 1968. 75.8 P842 J. W. Layer, J. C. Bohn, and D. J. Lisk, joint authors. Use of CIPC.
- 72402 GALCHENKO, N. Recent methods in control of some fruit diseases in storage. (Rus) Sadovodstvo 1:45. Jan. 1968. 80 Sa13
- 72403 GRIGOROV, I. Study on the suitability of some peach varieties for processing. (Bu) Gradinar. Lozar. Nauk. 5(1):11-16. 1968. 87 G75 English summary.
- 72404 GUINOT, Y. Influence of apple storage on the chemical composition of the juice obtained by pressure. (Fr) Indus. Aliment. Agr. 84(12): 1609-1616. Dec. 1967. 383 As7 English summary.



- 72405 HEINEMAN, H. E. O., and MAVIS, J. O. Rf [Radio frequency] aids concentration of food liquids. *Food Technol.* 22(4):33-35. Apr. 1968. 389.8 F7398  
Application of dielectrical heating in orange juice concentration.
- 72406 KELLER, E. R. Importance and possibilities of improving the raw product in the manufacture of pre-cooked potato products. (Ge) *Indus. Obst- Gemuseverwertung* 53(5):136-139. Mar. 7, 1968. 389.8 K832  
Culture, grading, and storage.
- 72407 LEBERMAN, K. W., NELSON, A. I., and STEINBERG, M. P. Post-harvest changes of broccoli stored in modified atmospheres. 1-2. *Food Technol.* 22(4):143-149. Ref. Apr. 1968. 389.8 F7398
- 72408 LEVERINGTON, R. E., and MORGAN, R. C. Pilot plant studies in the application of a turbulent thin-film evaporator to the low temperature concentration of pineapple juice. *Food Technol. Australia.* 20(2):58-63. Ref. Feb. 1968. 389.8 F7333
- 72409 LOERKE, E. The influence of technology, arable farming, and plant breeding on the end product of processed vegetables. (Ge) *Indus. Obst- Gemuseverwertung* 53(5):123-126. Mar. 7, 1968. 389.8 K832
- 72410 MCDOWELL, H. G. The frozen strawberry industry in Mexico. *Tenn. Acad. Sci. J.* 43(1):31-32. Jan. 1968. 500 T25A
- 72411 MISAWA, Y., and others. Studies on the application of the cellulase preparation to food. III. Clarification of fruit juice with the *Aspergillus niger* preparation (Vercellase). (Ja) *J. Food Sci. Technol.* 15(2):31-35. 1968. 388 J822  
M. Matsubara, M. Hatano, M. Hara, and T. Inuzuka, joint authors.  
English summary.
- 72412 OGAKI, C., and others. Effect of treatment with oxyethylene higher aliphatic alcohols on Satuma oranges during storage. (Ja) *J. Food Sci. Technol.* 15(2):15-20. 1968. 388 J822  
S. Matsumoto, J. Kitao, K. Matsuda, T. Tokita, and Y. Shimazu, joint authors.  
English summary.  
In cold storage.
- 72413 RAO, V. G. A new storage disease of custard apple from India. *Phytopathol. Z.* 61(1):52-56. Ref. Jan. 1968. 464.8 P562  
Caused by *Pestalotia* spp.
- 72414 SABUROV, N. V. Some problems of storing and processing fruit and berries. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 132:255-257. 1967. 20 M857
- 72415 SINDELAR, G. E. Portugal's tomato processing industry. *U. S. Foreign Agr. Serv. FAS-M-196,15 p.* map. Jan. 1968. A281.9 F76Fm  
Chiefly canned tomato paste.
- 72416 SLADE, F. H. Potato canning line. *Food Process. Marketing [London]* 37(438):101-104. (Cont.) Mar. 1968. 389.8 F738
- 72417 SMITH, P. I. The new plastics in food processing. *Food Process. Marketing [London]* 37(438):97-100. Mar. 1968. 389.8 F738  
Used in processing equipment and in packaging.
- 72418 SPEIGHTS, D. E., LARSEN, J. E., and PATTERSON, D. R. Storage and handling of sweet potatoes; fact sheet. *Tex. Agr. Mech. Univ. Ext. L-709,4 p.* May 1967. 275.29 T313
- 72419 TONINI, G., and VICENZI, M. The "thermotherapy", a new method for *Gloeosporium* control. (It) *Inform. Fitopatol.* 18(4):47-51. Feb. 29, 1968. 464.8 In3  
*Gloeosporium album* on apples; hot water treatment in storage.
- 72420 TUGWELL, B. L. Chemical treatment—the answer to fruit salad. *S. Australia J. Agr.* 71(8):296-298. Mar. 1968. 23 So84  
In storage.
- 72421 VON ELBE, J. H., HSU, J. Y., and KLINGBEIL, G. C. Effect of storage on chemical, physical aspects of Wisconsin frozen strawberries. *Quick Frozen Foods* 30(7):47-48, 156-157. Ref. Feb. 1968. 389.8 Q4
- 72422 VON TUNGELN, G. R., and SKELTON, B. R. The economic feasibility of establishing a sweet potato canning plant in Horry County, South Carolina. *S. C. Agr. Exp. Sta. AE 310*, 26 p. Jan. 1968. 281.9 C59  
Horry County Development Board (South Carolina), cooperating.
- 72423 WILLS, R. B. H., and GLASSON, W. B. Changes in the organic acids of Jonathan apples during cool storage in relation to the development of breakdown. *Phytochem.* 7(5):733-739. Ref. May 1968.

### Statistics

- 72424 NEW YORK (STATE) CROP REPORTING SERV. New York State vegetable crops 1954-1967. *N. Y. State Dep. Agr. Markets. AMA Release* 110,38 p. Apr. 1968. 280.3939  
Statistical Reporting Service of U. S. Department of Agriculture in cooperation with New York State Department of Agriculture and Markets.
- 72425 RAMEY, J. E., FOX, R. W., and CABLE, C. C. A statistical handbook for the desert citrus industry. *Ariz. Agr. Exp. Sta. Rep.* 244,68 p. Dec. 1967. 100 Ar4M  
Arizona University, and Arizona University Extension Service, cooperating.

### GRAIN AND GRAIN PRODUCTS

- 72426 ARCHER, T. E. Quantitative measurement of combinations of aramite, DDT, toxaphene, and endrin in crop residues. *Bull. Environ. Contamination Toxicol.* 3(2):71-79. Mar./Apr. 1968. RA1270.P35A1  
Grain seeds, husks, and straw.
- 72427 BARMORE, M. A., and BEQUETTE, R. K. Kernel color and shape as guides to potential flour performance in wheat marketing. *Agron. J.* 60(2):223-228. Ref. Mar./Apr. 1968. 4 Am34P
- 72428 BERCK, B. Potentiometric determination of phosphine. *J. Agr. Food Chem.* 16(3):415-418. Ref. May/June 1968. 381 J8223  
Residues in stored grain.
- 72429 BERCK, B. Sorption of phosphine by cereal products. *J. Agr. Food Chem.* 16(3):419-425. May/June 1968. 381 J8223
- 72430 BERGMANN, . Manufacture of whole grain meal on stones. IV. (Ge) *Mullerei* 21(14):197. Apr. 6, 1968. 298.8 M91
- 72431 BEST, S. M. Moisture in stored wheat. *New Zeal. J. Agr.* 116(3):24-25. Mar. 1968. 23 N48J
- 72432 BRESSANI, R. The protein quality of corn with the Opaque-2 gene. (Sp) *Turrialba* 18(1):8-13. Ref. Jan./Mar. 1968. 8 T86  
English summary.
- 72433 BRUCKNER, G. Determination of the ash content of flour and meal. (Ge) *Getreide Mehl* 18:13-19. Feb. 1968. 298.8 G332
- 72434 CAWLEY, R. W., and MITCHELL, T. A. Inhibition of wheat  $\alpha$ -amylase by bran phytic acid. *J. Sci. Food Agr.* 19(2):106-108. Feb. 1968. 382 So12  
With reference to testing for sprout damage.
- 72435 CHICAGO BOARD OF TRADE. The one hundred and tenth annual report for the year ended December 31, 1967. Chicago, 1968. 184 p. 287 C43R  
Grain and fats and oils statistics.
- 72436 CHRISTIANSON, D. D., PAULIS, J. W., and WALL, J. S. Ion-exchange chromatography of nucleotides on polyethyleneimine cellulose columns: analysis of maize grain extracts. *Anal. Biochem.* 22(1):35-46. Ref. Jan. 1, 1968. 381 An13

- 72437 DAIBER, K. H., and NOVELLIE, L. Kaffircorn malting and brewing studies. XIX. Gibberellic acid and amylase formation in kaffircorn. *J. Sci. Food Agr.* 19(2):87-90. Ref. Feb.1968. 382 So12
- 72438 DOEKES, G. J. Comparison of wheat varieties by starch-gel electrophoresis of their grain proteins. *J. Sci. Food Agr.* 19(3):169-176. Ref. Mar.1968. 382 So12
- 72439 DULUTH (MINNESOTA) BOARD OF TRADE. Annual report; list of members and firm and corporation members and individuals who do business in their own names, for the year ending December 31, 1967. Duluth, 1968. 36 p. 284.39 C162S  
Grain statistics included.
- 72440 FARMERS COOPERATIVE GRAIN DEALERS ASSOCIATION OF OKLAHOMA. 1968 directory. Enid, 1968. 52 p. 225 F226
- 72441 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. National grain policies 1967. Rome, 1968. 136 p. 281.3599 F732
- 72442 HELM, J. L., GILES, K. A., and HARRISON, R. L. Quality characteristics of hard red winter wheats grown in the hard red spring wheat region. *Crop Sci.* 8(2):169-170. Mar./Apr. 1968. 64.8 C833
- 72443 HEUSER, S. G., and SCUDAMORE, K. A. Fumigant residues in wheat and flour: solvent extraction and gas-chromatographic determination of free methyl bromide and ethylene oxide. *Analyst* 93(1105):252-258. Ref. Apr.1968. 382 An1
- 72444 HILL, E. G., and THOMPSON, R. H. Pesticide residues in foodstuffs in Great Britain. V. Malathion in imported cereals. *J. Sci. Food Agr.* 19(3):119-124. Mar.1968. 382 So12
- 72445 HILL, L. D. Solving the moisture discount problem in corn by new method. *Grain Age* 9(4):3,10,41,46. Apr.1968. 281.8 G76
- 72446 HILL, L. D. The workability and effectiveness of a moisture discount system for corn. *Feed-stuffs* 40(16):18,20. Apr.20,1968. 286.81 F322
- 72447 HILLER, A. Reaction of the quantity of phytase on the phytin content of the bread. (Fr) *Indus. Aliment. Agr.* 85(1):27-31. Jan.1968. 383 As7  
English summary.  
Includes flour analysis.
- 72448 HUBER, H. Flour analysis and baking research in practice and investigation. *Mullerei* 21(14):193-196. (Cont.) Apr.6,1968. 298.8 M91  
Installment deals with flour analysis.
- 72449 HUXSOLL, C. C., and MORGAN, A. I. Microwaves for quick-cooking rice. *Cereal Sci. Today* 13(5):203-206. Ref. May 1968. 59.8 C333
- 72450 KALDENBERG, R. E. Grain drying tables. *Minn. Univ. Ext. Ext. Folder* 239,19 p. Feb. 1968. 275.29 M66Ex
- 72451 KAWABATA, A. Study of the proteins in flour. 1. On the gluten obtained in relation to the solution utilized for its extraction. (Ja) *Jap. Soc. Food Nutr. J.* 20(5):53-58. Jan.1968. 389.9 J27  
French summary.
- 72452 KAWABATA, A. Study of the proteins in flour. 2. Study of the proteins in flour and of the gluten by the Osborne-Feillet fractionation method. (Ja) *Jap. Soc. Food Nutr. J.* 20(5):59-64. Jan. 1968. 389.9 J27  
French summary.
- 72453 KENT, N. L., and EVERS, A. D. Milling of solvent-extracted wheat, semolina and flour. I. *J. Sci. Food Agr.* 19(1):20-30. Ref. Jan.1968. 382 So12  
Great Britain.
- 72454 KONDO, H., and OKAZAKI, S. Studies on the scented rice. III. On the differences in the cooking behavior of rice according to grain textures. (Ja) *Crop Sci. Soc. Japan. Proc.* 36(2):138-144. June 1967. 22.5 C88  
English summary.
- 72455 LAFUENTE, O. Guatemala grain storage to smooth prices. *Foreign Agr.* 6(18):6-7. Apr.29,1968. A281.9 F76Fo
- 72456 LEE, J. W. Integrity of gluten components labelled with  $^{14}\text{C}$ . *J. Sci. Food Agr.* 19(3):157-160. Ref. Mar.1968. 382 So12  
From wheat.
- 72457 LEE, J. W. Preparation of gliadin by urea extraction. *J. Sci. Food Agr.* 19(3):153-156. Ref. Mar.1968. 382 So12  
In flour.
- 72458 MALPHRUS, L. D., and LYTLE, J. S. An analysis of South Carolina corn prices. *S. C. Agr. Exp. Sta. AE* 308,23 p. Nov.1967. 281.9 C59
- 72459 MINNEAPOLIS GRAIN EXCHANGE. Eighty fifth annual report, December 31st, 1967. Minneapolis, 1968. 74 p. 287 M66R
- 72460 MITCHELL, T. A. Hagberg penetrometer method for  $\alpha$ -amylase activity in sprouted grain: production of activity of flour blends. *J. Sci. Food Agr.* 19(2):102-106. Feb.1968. 382 So12  
Sprout damage.
- 72461 MYKLESTAD, O. Controlled aeration of rice in bulk. *J. Sci. Food Agr.* 19(1):41-46. Ref. Jan.1968. 382 So12
- 72462 NAGATO, K., and KONO, Y. On the grain texture of rice. 3. On the factors concerned in milling loss of hulled rice. (Ja) *Crop Sci. Soc. Japan. Proc.* 37(1):75-81. Ref. Feb.1968. 22.5 C88  
English summary.
- 72463 NIGHTINGALE, E. A. Some effects of recent changes in the railway grain-rate structure on interregional competition and regional development. In Davidson, J. R., and Ottoson H. W., ed. *Transportation problems and policies in the trans-Missouri West*, p.105-168. Ref. 1967. HE199.5.F3T7
- 72464 OTEY, F. H., MEHLTRETTER, C. L., and RIST, C. E. Starch derived polyol glycosides. *Cereal Sci. Today* 13(5):199-201. May 1968. 59.8 C333
- 72465 PERTEN, H. Methods for determining alpha-amylase activity in cereal grains & flour. *Cereal Sci. Today* 13(5):192-197. Ref. May 1968. 59.8 C333  
In wheat and rye.
- 72466 PETEV, D., and KAMDZELIS, N. Mekhanizirane na sledzhitvenata obrabotka na zurnoto [Mechanized handling of grain]. *Sofiya, Zemizdat*, 1967. 206 p. Ref. TJ1415.P4
- 72467 PRICE, C., MARKESON, C. B., and TRAYLOR, H. D. An economic study of rough rice drying and storage facilities in Louisiana and Texas. *La. Rural Econ.* 30(1):13-16. Feb.1968. 281.8 L93
- 72468 RUSZKOWSKI, M. The economic importance of millet. (Pol) *Nowe Roln.* 17(3):18-19. Feb.1/15,1968. 20.5 N86
- 72469 SAINI, V. Ionizing radiation effects on starch as shown by Staudinger index and differential thermal analysis. *J. Food Sci.* 33(2):136-138. Mar./Apr.1968. 389.8 F7322  
Cornstarch.
- 72470 SATIAT, D. Report on the marketing of grain in Europe. (Fr) *Agro-Serv.* 9(2):61-67. (Concl.) Mar./Apr.1968. 385 Ag86  
Domestic and foreign.
- 72471 SEIBEL, W. Functions of the International Association for Cereal Chemistry. (Ge) *Muhle* 105(4):197-198. Apr.4,1968. 298.8 M89
- 72472 SHOOP, D. Problems of uniform millfeed procurement. Northwest. *Miller* 275(4):14-16. Apr.1968. 298.8 N81
- 72473 SPIES, J. R. Determination of tryptophan in corn (*Zea mays*). *J. Agr. Food Chem.* 16(3):514-516. May/June 1968. 381 J8223



- 72474 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Bread prices. Hearings, eighty-ninth Congress, second session, August 8, 9, 10, 11, and 17, 1966. Washington, 1966. 200 p. PREP 1103  
Includes a paper, Farm Policy, How it's Made, by R. L. Johnson, and statements and testimony on prices of grain and other raw materials for bread as well as prices of other food products.
- 72475 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Rice acreage allotments. Hearings—ninetieth Congress, first session on H.J. Res. 263, March 7, 1967. Washington, 1967. 29 p. PREP 1089
- 72476 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Sale of grain storage facilities. Hearings—eighty-ninth Congress, second session on H.R. 12360, July 18, 1966. Washington, 1966. 30 p. PREP 1124
- 72477 U. S. CONGRESS. SENATE. COMMITTEE ON AGRICULTURE AND FORESTRY. Minimum resale price of Commodity Credit Corporation wheat. Hearings—eighty-ninth Congress, second session on S. 2785 a bill to increase the minimum price at which wheat may be sold by the Commodity Credit Corporation, February 1 and 2, 1966. Washington, 1966. 93 p. PREP 1149
- 72478 WALDSCHMIDT-LEITZ, E., and DORFMULLER, T. Seed proteins. XVI. Study of the beta-amylase of wheat. (Ge) Hoppe-Seyler's Z. Physiol. Chem. 349(2):153-156. 1968. 384 Z38  
English summary.
- 72479 WEST, Q. M. Outlook for calorie production. Econ. Bot. 22(1):8-15. Jan./Mar. 1968. 450 Ec7  
Grain yield and demand as related to food outlook.
- 72480 WILLAHAN, L. T. Winter wheat crop. Grain Age 9(4):32. Apr. 1968. 281.8 G76  
Outlook.
- 72481 WIMBERLY, J. E. Double-crop paddy in India; mechanical dryers help make it work. World Farming 10(5):20-21. May 1968. 30.08 W89
- 72482 WORSECK, R. Stable wheat prices expected. Doane's Agr. Rep. 3(14):12A. May 8, 1968. 281.8 D652
- 72483 ZWINGELBERG, H. Wheat milling in a combined 25-t-mill. (Ge) Muhle 105(4):195-196. (Concl.) Ref. Apr. 4, 1968. 298.8 M89
- HONEY AND BEESWAX**
- 72484 ANDRELOWICZ, A., and KOTLAREK, J. Content of ash, and phosphorus, specific conductivity and phosphatase activity of light (yellow) commercial honeys. (Pol) Warsaw. Panstw. Zakl. Hig. Roczn. 19(1):89-96. Ref. 1968. 449.9 W26  
English summary.
- 72485 ARBEITSTAGUNG FUR FRAGEN DER HONIGHERKUNFTSBESTIMMUNG, STUTTGART-HOHENHEIM, 1967. Papers presented at the Working Conference on Problems of Determination of Honey Sources. (Ge) Z. Bienenforsch. 9(5):181-231. Ref. Feb. 1968. 424.8 Z3  
Sponsored by the Arbeitsgruppe fur Honigforschung of the International Commission for Bee Botany of the International Union of Biological Science.
- 72486 BERGNER, K. G., and KOROMI, J. On the amino acid content of honey. (Ge) Z. Bienenforsch. 9(5):182-184. Ref. Feb. 1968. 424.8 Z3  
English summary.
- 72487 DEMIANOWICZ, Z. Contribution to the pollen analysis of lime [Tilia] honeys. (Ge) Z. Bienenforsch. 9(5):185-195. Feb. 1968. 424.8 Z3  
English summary.
- 72488 FOCKE, E. The pollen spectrum of Chinese honeys. (Ge) Z. Bienenforsch. 9(5):196-206. Feb. 1968. 424.8 Z3
- 72489 FOSSEL, A. Pollen substitutes in the microscopical spectrum of spring honeys. (Ge) Z. Bienenforsch. 9(5):206-211. Feb. 1968. 424.8 Z3  
Austria.
- 72490 HAEGER, P. M. All aboard for Honey for Breakfast Week. Amer. Bee J. 108(4):150. Apr. 1968. 424.8 Am3
- 72491 LOUVEAUX, J. The French heather [*Calluna vulgaris*] honeys. (Ge) Z. Bienenforsch. 9(5):211-215. Feb. 1968. 424.8 Z3  
English summary.  
Pollen analysis in accordance with the Codex Alimentarius.
- 72492 MAURIZIO, A. The pollen spectrum of some honeys from Israel. (Ge) Z. Bienenforsch. 9(5):216. Feb. 1968. 424.8 Z3  
English summary.
- 72493 POURTALLIER, J. On the use of gas chromatography for determining sugars in honey. (Ge) Z. Bienenforsch. 9(5):217-221. Feb. 1968. 424.8 Z3  
English summary.
- 72494 RENNER, E., and DUISBERG, H. On the relation between some quality characteristics of honey and its natural condition. (Ge) Z. Lebensmittel-Untersuchung -Forsch. 136(3):137-146. 1968. 384 Z39
- 72495 SVOBODA, J. On fir honeys. (Ge) Z. Bienenforsch. 9(5):222. Feb. 1968. 424.8 Z3  
Properties of honey from Czechoslovakia.
- 72496 VORWOHL, G. Characterization of fir honey. (Ge) Z. Bienenforsch. 9(5):222-224. Feb. 1968. 424.8 Z3  
From Germany.
- 72497 VORWOHL, G. A naturally low diastase activity in honeys from Apis cerana Fabr. (Ge) Z. Bienenforsch. 9(5):232-236. Ref. Feb. 1968. 424.8 Z3  
English summary.
- 72498 VORWOHL, G. Report on the discussion of the methods of evaluation and the terminology of microscopical honey analysis. (Ge) Z. Bienenforsch. 9(5):230-231. Feb. 1968. 424.8 Z3
- 72499 WARREN, A. A new taste of honey. Amer. Bee J. 108(5):192. May 1968. 424.8 Am3  
Florida grapefruit juice sweetened with honey.
- 72500 WEAVER, R. S. A National Honey Market Development Program. Amer. Bee J. 108(4):152, 156. Apr. 1968. 424.8 Am3
- 72501 WOODMAN, A. B. C. Honey Industry Council. Amer. Bee J. 108(4):154. Apr. 1968. 424.8 Am3  
To promote honey sales.
- LIVESTOCK AND LIVESTOCK PRODUCTS**
- 72502 BALEZIN, P. Economics of the livestock industry in the European countries—members of the Council for Mutual Economic Assistance. (Rus) Ekon. Sel'skogo Khoz. 1:111-115. 1968. 281.8 So73
- 72503 BARBIER, C. Prospects of developing animal production in the Massif Central. (Fr) Fourrages 31:118-128. Sept. 1967. 60.8 F82  
English summary.
- 72504 CAMMACK, A. Expansion of the cattle industry in the Madang district. S. Pac. Bull. 18(1):19-22. First Q. 1968. 280.8 So89  
Papua and New Guinea.
- 72505 DROZDOV, G. The problems of the livestock industry in the mountain areas. (Rus) Ekon. Sel'skogo Khoz. 2:61-67. 1968. 281.8 So73
- 72506 INGRAM, M. Research for better meat. Kenya Farmer 138:26. Jan. 1968. 24 R812  
Great Britain.
- 72507 INVESTMENT and change in the Australian sheep industry. II. World Wool Dig. 19(9):65-68. Apr. 25, 1968. 304.8 W89
- 72508 KING, G. A. Effects of transportation on the location of grain and livestock activities in the western United States. In Davidson, J. R., and Ottosen, H. W., ed. Transportation problems and policies in the trans-Missouri West, p.81-103. Ref. 1967. HD199.5.F3T7

- 72509 KLEIN-REBOUR, F. Brief history of butchering. (Fr) Bull. Inform. Boucherier-Charcuterie Norm. 18(153):41-42. Jan./Feb.1968. 50.8 B87
- 72510 MATA LLANA VENTURA, S., and VALSECA BOTAS, S. Encouragement of cattle raising on irrigated soils; cooperation and mechanization. (Fr) *Mediterranea* 18:128-132. Feb.1968. 281.8 M462  
English summary.
- 72511 RAY, M. L. Recent growth of the beef cattle industry in Arkansas. Ark. Cattle Bus. 4(5):8, 22. May 1968. 43.8 Ar43
- 72512 SAGHIN, I. Livestock output position and rôle in the national economy. (Rum) Rev. Zootech. Med. Vet. 18(3):10-16. Mar.1968. 49 P943
- 72513 SCHOEFF, R. W. Concentration of livestock and poultry in the U. S. Feedstuffs 40(15):30-32, map. Apr.13, 1968. 286.81 F322
- Analysis and Composition
- 72514 BAGGE, J. M. Comments on "Total Bacterial Count on the Brain?" (No) Danske Dyrægefor. Medlemsbl. 51(6):222-223. Mar.15, 1968. 41.9 D23  
Bacteria in vacuum-packed cold cuts.
- 72515 BALTES, W. Determination of meat extract of cattle, sheep, whale, and sperm whale in soup cubes. (Ge) Z. Lebensmittel-Untersuchung-Forsch. 136(2):69-77. Ref. 1968. 384 Z39
- 72516 BALTES, W. On the composition of the meat extracts of cattle, sheep, whales, and sperm whales. (Ge) Z. Lebensmittel-Untersuchung-Forsch. 135(6):319-325. Ref. 1968. 384 Z39
- 72517 BALTZER, J. Packed cold cuts—again. (Da) Danske Dyrægefor. Medlemsbl. 51(6):219-222. Ref. Mar.15, 1968. 41.9 D23  
Bacteria contents.
- 72518 COOK, C. F. Rigor state, freeze condition, pH, and incubation temperature and their influence on color development and extract release volume in ovine muscle homogenates. J. Food Sci. 33(2):200-207. Ref. Mar./Apr.1968. 389.8 F7322
- 72519 DVORAK, Z. Availability of essential amino acids from proteins. I-II. J. Sci. Food Agr. 19(2):71-82. Ref. Feb.1968. 382 So12  
Beef serum albumin and food proteins.
- 72520 KALAC, P. On the possibility of utilization of resazurin test in meat industry. (Cz) Zpravod. Masneho Prum. 1:51-53. 1968. TS1950.Z6
- 72521 KASTENSCHMIDT, L. L., HOEKSTRA, W. G., and BRISKEY, E. J. Glycolytic intermediates and co-factors in "fast-" and "slow-glycolyzing" muscles of the pig. J. Food Sci. 33(2):151-158. Ref. Mar./Apr.1968. 389.8 F7322  
Post-mortem.
- 72522 MADELUNG, P. Total bacterial count on the brain? (Da) Danske Dyrægefor. Medlemsbl. 51(5):166-170. Mar.1, 1968. 41.9 D23  
Bacteria in vacuum-packed cold cuts.
- 72523 MCCAIN, G. R., and others. Freed amino acids in ham muscle during successive aging periods and their relation to flavor. J. Food Sci. 33(2):142-146. Ref. Mar./Apr.1968. 389.8 F7322  
T. N. Blumer, H. B. Craig, and R. G. Steel, joint authors.
- 72524 NORDWIG, A., and PFAB, F. K. Independence of collagen hydroxylation on the conformational state of the precursor substrate. Biochim. Biophys. Acta 154(3):603-605. Ref. Apr.9, 1968. 381 B522
- 72525 NORDWIG, A., and BANDLOW, W. Quantitative research on the splitting of collagen with cyanogen bromide. (Ge) Hoppe-Seyler's Z. Physiol. Chem. 349(2):148-152. 1968. 384 Z38  
English summary.
- 72526 OGIELSKI, L., SYLWESTER, K., and ZAWADZKI, Z. The additional factor in increasing the number of bacteria in pasteurized hams. (Pol) Med. Weter. 24(3):174-175. Mar.1968. 41.8 M463  
English summary.
- 72527 O'KEEFE, P. W., and others. Composite of bovine muscle lipids at various carcass locations. J. Food Sci. 33(2):188-192. Ref. Mar./Apr.1968. 389.8 F7322  
G. H. Wellington, L. R. Mattick, and J. R. Stouffer, joint authors.
- 72528 PEZACKI, W. The elements of mechanical programming of some properties of pasteurized canned ham and canned shoulder. (Pol) Med. Weter. 24(2):104-107. Feb.1968. 41.8 M463
- 72529 QUASS, D. W., and BRISKEY, E. J. A study of certain properties of myosin from skeletal muscle. J. Food Sci. 33(2):180-187. Ref. Mar./Apr.1968. 389.8 F7322  
Swine.
- 72530 REUTER, G. Experiences with culture media for the selective microbiological analysis of meat products. (Ge) Arch. Lebensmittel. 19(3):53-57. (Cont.) Mar.1968. 41.8 L49  
Bacteriological study.
- 72531 SERBRENNIKOV, V. A., and KOLOBOTSKII, G. V. Principles of trichlorometaphos-3 detection in meat by thin-layer alumina chromatography. (Rus) Veterinariya 3:96-97. 1968. 41.8 V6426
- 72532 WARNECKE, M. O., and SAFFLE, R. L. Serological identification of animal proteins. 1. J. Food Sci. 33(2):131-135. Mar./Apr.1968. 389.8 F7322  
For identification in ground meat mixture.
- 72533 WATANABE, K., and SATO, Y. Studies on the change of meat fats by various processings. II. Gas chromatographic identification of aliphatic  $\gamma$ - and  $\epsilon$ -lactones obtained from beef fats. Agr. Biol. Chem. 32(2):191-196. Ref. Feb.1968. 385 Ag8B
- 72534 WUILLERET, A., and GILODI, L. Ascertaining bacteriological quality of minced meat put on sale in the inspection tour of Geneva. (Fr) Schweiz. Arch. Tierheilk. 110(2):81-88. Ref. Feb.1968. 41.8 Sch9  
English summary.
- Consumption and Utilization
- 72535 LAMBORN, E. W., and EVANS, W. D. Meat consumption in Cache and Box Elder counties, 1965-66. Utah Sci. 29(1):14-15. Mar.1968. 100 U11F  
Includes family expenditures.
- 72536 LOLLAR, R. M. The economics of collagen utilization. Leather Shoes 155(20):16-18. May 18, 1968. 303.8 H53
- 72537 LUND, R. E., and others. Characteristics of demand for meat by consumers in Webster County, Iowa. Iowa. Agr. Home Econ. Exp. Sta. Spec. Rep. 56, 38 p. Feb.1968. 100 Io9Sp  
L. A. Duewer, W. R. Maki, and N. V. Strand, joint authors.
- 72538 WEIDENHAMER, M., KNOTT, E. M., and SHERMAN, L. R. Homemakers' opinions about selected meats, a preliminary report. U. S. D. A. Statist. Rep. Serv. SRS-12, 26 p. Mar.1968. A280.9 Ag83
- Distribution, Marketing, and Transportation
- 72539 ASCARI, T. The Modena livestock market. (It) Modena 74(1):20-23. Jan.1968. 280.9 M722
- 72540 BARTON, R. A. Frozen meat retailing in United States has pointers to future for N.Z. New Zealand. J. Agr. 116(4):58-59, 61, 63. Apr.1968. 23 N48J
- 72541 BRION, A. Transportation of animals by water. (Fr) Rev. Elevage 23(4):109-110, 113. (Cont.) Apr.1968. 49 B462
- 72542 CAMPBELL, D. A. P&S changes would update marketing system. Nat. Provisioner 158(10):69-72. Mar.9, 1968. 286.85 N21  
Meat.
- 72543 HASZIER, J. How the cattle boom came back to Kansas. Agr. Marketing [Washington] 13(5):7, 13. May 1968. A280.38 Ag8  
Beef cattle marketing.



- 72544 LEACH, H. V. Factors affecting costs for alternative meat distribution systems. Mo. Agr. Exp. Sta. Bull. B 866, 30 p. Ref. Jan. 1968. 100 M693  
U. S. Department of Agriculture, cooperating.
- 72545 TREILLON, R. Meat and marketing problems. (Fr) Indus. Aliment. Agr. 85(1):33-39. Jan. 1968. 383 As7
- 72546 TUMA, H. J. A new look at lamb marketing. Nat. Wool Grower 53(5):20-21. May 1968. 45.8 N21N
- 72547 U. S. CONGRESS. SENATE. COMMITTEE ON AGRICULTURE AND FORESTRY. Meat inspection. Hearings—ninetieth Congress, first session on S. 2147, S. 2218, and H. R. 12144 bills to clarify and otherwise amend the Meat Inspection Act, to provide for cooperation with appropriate state agencies with respect to state meat inspection programs, and for other purposes. Washington, 1967. 302 p. PREP 2050
- 72548 UVACEK, E. What's the best way to buy beef; fact sheet. Tex. Agr. Mech. Univ. Ext. L-701, 4 p. Mar. 1967. 275.29 T313  
Includes inspection and grading.
- 72549 ZAVREL, H. Marketing and consumption of lard in Czechoslovakia. (Cz) Zpravod. Masneho Prum. 1:18-22. 1968. TS1950.Z6  
English summary.

#### Grading, Inspection, Standardization, and Quality

- 72550 ABDULAEV, A. M. Survival of *Cysticercus bovis* in meat meals in the Buryat-Mongol ASSR. (Rus) Med. Parazitol. Parazitarn. Bolezni 37(1):108. Jan./Feb. 1968. 448.8 M469
- 72551 BOWERS, J. A., HARRISON, D. L., and KROPF, D. H. Browning and associated properties of porcine muscle. J. Food Sci. 33(2):147-151. Ref. Mar./Apr. 1968. 389.8 F7322
- 72552 GLIGOR, V., and OTEL, V. Remains and harmful effects of some substances used in animal breeding and agriculture on the hygienic character of foodstuffs of animal origin. (Rum) Rev. Zooteh. Med. Vet. 18(2):33-39. Ref. Feb. 1968. 49 P943  
English summary.
- 72553 KOLOBOLOTSKII, G. V., and others. Sanitary evaluation of slaughter products from animals poisoned with aldrin. (Rus) Veterinariya 3:97-99. 1968. 41.8 V6426  
N. I. Zhavoronkov, M. A. Shutyaeva, and E. A. Diakonova, joint authors.
- 72554 LEE, F. Yield grading of beef is proving its worth. Nat. Provisioner 158(10):121-123. Mar. 9, 1968. 286.85 N21
- 72555 LEIGHTY, J. C. Here's how technical services serves you. Nat. Provisioner 158(10):64. Mar. 9, 1968. 286.85 N21  
In meat inspection.
- 72556 MURPHY, E. A. Post-slaughter inspection is our business. Nat. Provisioner 158(10):63-64. Mar. 9, 1968. 286.85 N21
- 72557 NADVORNIK, F. On veterinary sanitary inspection of livestock products and raw material of animal origin. (Cz) Veterinarstvi 17(4):181-183. 1967. 41.8 V6439
- 72558 PALS, C. H. Let's get with it and make this thing work. Nat. Provisioner 158(10):64, 66. Mar. 9, 1968. 286.85 N21  
Meat inspection.
- 72559 PATTERSON, R. L. S. 5  $\alpha$ -androst-16-ene-3-one:—compound responsible for taint in boar fat. J. Sci. Food Agr. 19(1):31-38. Ref. Jan. 1968. 382 S012
- 72560 PATTERSON, R. L. S. Catty odours in food: their production in meat stores from mesityl oxide in paint solvents. Chem. Indus. [London] 17:548-549. Apr. 27, 1968. 444.8 J824
- 72561 PRESCOTT, J. H. D., and HINKS, C. E. Systems of management and carcass quality of steers. Newcastle-upon-Tyne. Univ. Dep. Agr. Marketing. Rep. 8, 66 p. Ref. 1968. 280.3509 N432
- 72562 REED, H. W. Grader is in middle with hot skinned calves. Nat. Provisioner 158(10):123-124. Mar. 9, 1968. 286.85 N21
- 72563 SOMERS, R. K. Greater federal-state cooperation is needed. Nat. Provisioner 158(10):62-63. Mar. 9, 1968. 286.85 N21  
In meat inspection.
- 72564 SOMERS, R. K. Wholesome Meat Act—what's happening. Nat. Provisioner 158(20):24-26. May 18, 1968. 286.85 N21  
Inspection.
- 72565 STRAUB, C. Selling under the new grade and weight rules. Farm Quart. 23(3):62, 111. Summer 1968. 44.8 Am38  
Carcasses.
- 72566 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Amend the Meat Inspection Act. Hearings—ninetieth Congress, first session on H. R. 1314, H. R. 1321, and H. R. 6168, June 26, 27, 28, 29, July 17, 19, and 20, 1967. Washington, 1967. 251 p. PREP 1403
- 72567 UNDERDAL, B., and HAUGE, S. Measurements of radioactive nuclides from fallout in Norway. Nord. Veterinaarmed. 20(2):71-74. Feb. 1968. 41.8 N813  
Strontium 90 and cesium 137 in milk and meat.
- 72568 VERDES, N., and others. On an alimentary toxin infection caused by *Salmonella typhimurium* of bovine origin. (Rum) Rev. Zooteh. Med. Vet. 18(2):54-57. Feb. 1968. 49 P943  
M. Pleseanu, T. Comanescu, and A. Nicolescu, joint authors.
- 72569 WASSERMAN, A. E., and TALLEY, F. Organoleptic identification of roasted beef, veal, lamb and pork as affected by fat. J. Food Sci. 33(2):219-223. Ref. Mar./Apr. 1968. 389.8 F7322
- 72570 WELCH, O. Conformation is big problem in grading veal. Nat. Provisioner 158(10):124. Mar. 9, 1968. 286.85 N21
- 72571 ZELLER, H. Are normal swine lungs edible? (Ge) Arch. Lebensmittel. 19(3):65-67. Mar. 1968. 41.8 L49

#### Packing and Packaging

- 72572 BRODY, A. L., and SCHERTZ, E. P. Tomorrow's packager; with technical know-how, the meat packer seems to be in the driver's seat to package centrally. Meat 34(3):42, 54. Mar. 1968. 286.85 M464

#### Prices, Price Control, and Rationing

- 72573 FIELDER, L. L. Projected monthly prices of livestock and livestock products in Louisiana. La. Rural Econ. 30(1):4-7. Feb. 1968. 281.8 L93
- 72574 JOHANNLUKENS, E. The up and down of calf prices. (Ge) Ubersicht 19(4):268-270. Apr. 13, 1968. 18 Ub3

#### Processing and Storage

- 72575 BORTON, R. J., WEBB, N. B., and BRATZIER, L. J. Emulsifying capacities and emulsion stability of dilute meat slurries from various meat trimmings. Food Technol. 22(4):162-164. Ref. Apr. 1968. 389.8 F7398  
Used for sausages.
- 72576 BRANT, A. W. Return to basics of making quality sausage. Nat. Provisioner 158(10):107-108. Mar. 9, 1968. 286.85 N21
- 72577 CARLSON, A. W. Mixer is the key in batch-proof batching. Nat. Provisioner 158(10):111. Mar. 9, 1968. 286.85 N21  
In sausage manufacture.
- 72578 FRAZIER, T. L., HOWELL, R. E., and FORTSON, J. C. Optimizing returns in a swine processing plant. Ga. Agr. Exp. Sta. Res. Bull. 3, 42 p. Apr. 1967. S51.E2
- 72579 HICKEY, J. C. Ingredients—what the processor should know. Nat. Provisioner 158(10):111-115. Mar. 9, 1968. 286.85 N21  
In sausage manufacture.

- 72580 HILGELAND, P. H. Progress and technique in the food industry. 4. Expensive continental delicatessen manufactured cheaply in Britain. Food Trade Rev. 38(4):50-54. Apr. 1968. 389.8 F7334  
Meat and poultry products.
- 72581 HLOBIL, I., and HRUBA, V. The utilization of quaternary ammonium salts as regular disinfectant in meat industry factories. (Cz) Zpravod. Masneho Prum. 1:55-67. 1968. TS1950.Z6
- 72582 LASSERE, R. The influence of the chrome distribution in the skin on the quality of chrome leather. Leather Manufacturer 85(2):39-42. Ref. Feb. 1968. 303.8 L484
- 72583 MCLEAN, R. A., LILLY, H. D., and ALFORD, J. A. Effects of meat-curing salts and temperature on production of staphylococcal enterotoxin in B. J. Bacteriol. 95(4):1207-1211. Ref. Apr. 1968. 448.3 J82
- 72584 MONFORT, K. The packers challenge and opportunity. Cattleman 54(12):43,62,64. May 1968. 49 C29
- 72585 NAKANISHI, T., and SUYAMA, K. Studies on phospholipids of meat. 6. Effect of heat treatment on the fatty acid and fatty aldehyde composition of phospholipids isolated from cattle thigh meat. (Ja) Jap. J. Zootech. Sci. 39(2):68-72. Ref. Feb. 1968. 49 N62  
English summary.
- 72586 PEZACKI, W. The elements of the mechanical features of the programming of pasteurized ham and shoulder. (Pol) Med. Weter. 24(3):110-173. Ref. Mar. 1968. 41.8 M463
- 72587 RICKORD, J. Follow advances abroad; build image at home. Nat. Provisioner 158(10):103-104. Mar. 9, 1968. 286.85 N21  
Chiefly on sanitation.
- 72588 RUBIN, A. Cleaning waste waters and standards for water consumption in meat industry in Czechoslovakia. (Cz) Zpravod. Masneho Prum. 1:34-37. 1968. TS1950.Z6  
English summary.
- 72589 SAFFLE, R. L. Revival, yes, but computer has pluses, too. Nat. Provisioner 158(10):108-111. Mar. 9, 1968. 286.85 N21  
In sausage manufacture.
- 72590 SOBOTKA, R. Disk-crusher for frozen meat. (Cz) Zpravod. Masneho Prum. 1:24-27. 1968. TS1950.Z6
- 72591 SPAHRKAS, R. Rationalizing of chrome tanning. Leather Manufacturer 85(1):19-20, 22, 24, 26-27. Jan. 1968. 303.8 L484
- 72592 WESTERN STATES MEAT PACKERS ASSOCIATION. [Report of the 22nd annual meeting in San Francisco]. Nat. Provisioner 158(10):22-36, 60-64, 66-72, 74, 77-80, 95-129, 133. Mar. 9, 1968. 286.85 N21
- 72593 ZAJICEK, D. Meat processing in Cuba. (Cz) Zpravod. Masneho Prum. 1:47-51. 1968. TS1950.Z6
- 72594 ZAVREL, H. The production of rendered lard. (Cz) Zpravod. Masneho Prum. 1:1-11. 1968. TS1950.Z6  
English summary.
- 72595 ZAVREL, H. The rendering of pork intestine fat and the possibility of production of lard from a mixture of different kinds of raw pork fat. (Cz) Zpravod. Masneho Prum. 1:11-17. 1968. TS1950.Z6  
English summary.
- Statistics
- 72596 CANADA. BUR. OF STATISTICS. Estimates of production and disappearance of meats, 1967. Ottawa, 1968. 4 p. 253 C1625E  
Text also in French.
- 72597 U. S. CROP REPORTING BOARD. Meat animals; farm production, disposition, and income, by States, 1966-1967. Washington, 1968. 15 p. 1.9 Ec71Ep
- OILS AND OILSEEDS
- 72598 BASLAS, K. K. Chemistry of Indian essential oils. IV. Perfumery Essent. Oil Rec. 59(1):12-17. Ref. Jan. 1968. 308.8 P41
- 72599 BECKWITH, A. C., and STOLOFF, L. Fluorodensitometric measurement of aflatoxin thin layer chromatograms. Ass. Offic. Anal. Chem. J. 51(3):602-608. Ref. May 1968. 381 As7  
In peanut butter.
- 72600 BELIKOV, I. F., KLYUCHKIN, V. V., and MOISEICHENKO, L. M. Technological quality of soybeans, depending on the grade of maturity. (Rus) Maslo-Zhir. Prom. 2:7-10. Feb. 1968. 307.8 M37
- 72601 BRAD, S. The influence of temperature on the thermic degradation and "in vitro" digestion of sunflower proteins. (Fr) Indus. Aliment. Agr. 85(1):21-26. Ref. Jan. 1968. 383 As7  
Study of sunflower grains and meal.
- 72602 BRODNITZ, M. H., NAWAR, W. W., and FAGERSON, I. S. Autoxidation of saturated fatty acids. I-II. Lipids 3(1):69-65. Ref. Jan. 1968. QP751.L5  
I, The initial products of autoxidation of methyl palmitate; II, The determination of the site of hydroperoxide groups in autoxidizing methyl palmitate.
- 72603 CANADA. BUR. OF STATISTICS. Vegetable oil mills, 1966. Ottawa, 1968. 9 p. (Annual Census of Manufactures) 253 C335V  
Includes statistics of oilseed and oil consumption.
- 72604 DEACON, B. D. Modified procedures for determination of gossypol pigments. II. Determination of free gossypol in low gossypol meals and of gossypol in oils. J. Amer. Oil Chem. Soc. 45(4):257-258. Apr. 1968. 307.8 J82
- 72605 EAVES, P. H., and others. Elimination of the Halphen response of cottonseed oils in conjunction with deodorization. J. Amer. Oil Chem. Soc. 45(4):293-295. Ref. Apr. 1968. 307.8 J82  
H. P. Dupuy, L. L. Holzenthal, E. T. Rayner, and L. E. Brown, joint authors.
- 72606 FIRESTONE, D. A review of methods for determining pesticide residues, contaminants and adulterants in fats and oils. J. Amer. Oil Chem. Soc. 45(4):210A, 212A, 214A, 245A, 246A. Ref. Apr. 1968. 307.8 J82
- 72607 FOWLER, R. O. Tung industry is important to county. Amer. Tung News 19(3):4. Mar. 1968. 307.8 Am33  
Pearl River County, Mississippi.
- 72608 GECAN, J. S., and BRICKEY, P. M. Rapid method for the extraction of light filth from peanut butter. Ass. Offic. Anal. Chem. J. 51(3):531-533. May 1968. 381 As7
- 72609 GOLDBLATT, L. A. Aflatoxin and its control. Econ. Bot. 22(1):51-62. Ref. Jan./Mar. 1968. 450 Ec7  
Molds chiefly on peanut meal.
- 72610 GUSS, P. L., RICHARDSON, T., and STAHMANN, M. A. Oxidation of various lipid substrates with unfractionated soybean and wheat lipoxidase. J. Amer. Oil Chem. Soc. 45(4):272-276. Ref. Apr. 1968. 307.8 J82
- 72611 GYRDEV, M., STEFANOV, K., and POPOV, A. Obtaining wax from sediments of the sunflower oil. (Rus) Maslo-Zhir. Prom. 2:11-12. Feb. 1968. 307.8 M37
- 72612 HALLIDAY, D. Build-up of free fatty acid in northern Nigerian groundnuts. Trop. Sci. 9(4):211-237. Ref. 1967, pub. 1968. 26 T756  
Storage conditions are related to lipolysis of peanuts.
- 72613 HARPER, G. A., and SMITH, K. J. Status of cottonseed protein. Econ. Bot. 22(1):63-72. Ref. Jan./Mar. 1968. 450 Ec7
- 72614 HOPKINS, C. Y., EWING, D. F., and CHISHOLM, M. J. A short-chain ester from the seed oil of *Cardiospermum halicacabum* L. Phytochemistry 7(4):619-624. Ref. Apr. 1968. 450 P5622



- 72615 INA, K., SAKATO, Y., and FUKAMI, H. Isolation and structure elucidation of theaspirone, a component of tea essential oil. *Tetrahedron Lett.* 23:2777-2780. Apr.1968. 385 T29
- 72616 JAGANNATHAN, S. N. Oils and fats in your food. *Nutrition* 2(2):2-7. Jan.1968. TX341.N8 Types, processing, and nutritive value.
- 72617 JEVANS, A. W., and HOPKINS, C. Y. Sterculic acid, a fatty acid from the seed oil of *Sterculia alata*. *Tetrahedron Lett.* 18:2167-2170. Mar.1968. 385 T29
- 72618 KASPER, V. I., and NARKHODZHAEV, R. K. Drying sunflower seeds in the pneumatic gas type drier. (Rus) *Maslo-Zhir. Prom.* 3:7-9. Mar.1968. 307.8 M37
- 72619 KAWAMURA, S., and HUKAGAWA, M. Effects on sugars of steaming of defatted soybean flakes as the first process for preparing soy sauce. (Ja) *J. Food Sci. Technol.* 15(1):30-33. 1968. 388 J822 English summary.
- 72620 KIRIGAYA, N., KATO, H., and FIJIMAKI, M. Studies on antioxidant activity of nonenzymic browning reaction products. I. (Ge) *Agr. Biol. Chem.* 32(3):287-290. Mar.1968. 385 Ag8B Fats.
- 72621 KLEINERT, J., and HABEGGER, M. The determination of oleic acid. (Fr) *Rev. Cafetera Colombia* 23(2):42-53. Ref. Feb.1968. 68.38 R32 In cocoa butter.
- 72622 KOPACZ, B. M. Tung oil research and development at the Southern Regional Laboratory. *J. Amer. Oil Chem. Soc.* 45(4):285-288. Ref. Apr.1968. 307.8 J82
- 72623 KOPEIKOVSKII, V. M., and others. Effect of two-side ventilation with preheated air on quality and oil of castorbeans. (Rus) *Maslo-Zhir. Prom.* 3:11-14. Mar.1968. 307.8 M37 L. G. Nebroeva, I. Ya. Avramenko, M. I. Ryazantseva, and I. P. Anastasiadi, joint authors.
- 72624 KOVALENKO, N. P. Motion picture showing sunflower seeds in the process of hulling on a centrifugal huller. (Rus) *Maslo-Zhir. Prom.* 3:10-11. Mar.1968. 307.8 M37
- 72625 KREWSON, C. F. Naturally occurring epoxy oils. *J. Amer. Oil Chem. Soc.* 45(4):250-256. Ref. Apr.1968. 307.8 J82
- 72626 LE QUELLEC, B. Vegetable fats in the Common Market; favorable balance to our farmers. (Fr) *Nouvelles Marches Agr.* 132:21-25. Feb.15,1968. 286.8 N85
- 72627 LITCHFIELD, C. Triglyceride analysis by consecutive liquid-liquid partition and gas-liquid chromatography: *Ephedra nevadensis* seed fat. *Lipids* 3(2):170-177. Ref. Mar.1968. QP751.L5
- 72628 LONG, J. S., THAMES, S. F., and SMITH, O. W. A study of eleostearic acid-containing resins. *J. Amer. Oil Chem. Soc.* 45(4):289-292. Apr.1968. 307.8 J82 In tung oil.
- 72629 LOOSEN, R. The fats and oils situation in the United States. (Fr) *Oleagineux* 23(1):47-50. Jan.1968. 77.8 OL2 English summary, p.XXXVIII.
- 72630 MALYSHEVA, A. G. Determination of essential oil in seeds of India mustard without stem elimination. (Rus) *Selek. Semenovodstvo* 1:62-64. Jan./Feb.1968. 61.9 Se5 *Brassica juncea*.
- 72631 MICHAJLOVSKIJ, N. The effect of UV-irradiation on glucobrassicin and other glucosinolates (mustard oil glucosides). *Experientia* 24(3):223-224. Mar.15,1968. 475 Ex7
- 72632 MILIC, B., and others. Chlorogenic and quinic acids in sunflower meal. *J. Sci. Food Agr.* 19(2):108-113. Ref. Feb.1968. 382 So12
- 72633 MORRIS, L. J., MARSHALL, M. O., and HAMMOND, E. W. The trans-3-enoic acids of *Asper alpinus* and *Arctium minus* seed oils. *Lipids* 3(1):91-95. Ref. Jan.1968. QP751.L5
- 72634 NAKAMURA, K., and others. Studies on the analysis of brewing process of shoyu mash. (Ja) *Agr. Chem. Soc. Jap. J.* 42(3):152-157. Ref. Mar.1968. 385 Ag8 K. Ojimoto, T. Sudo, and I. Umeda, joint authors. English summary. Soy sauce manufacture.
- 72635 NICHOLS, B. W., and WOOD, B. J. B. The occurrence and biosynthesis of gamma-linolenic acid in a blue-green alga, *Spirulina platensis*. *Lipids* 3(1):46-50. Ref. Jan.1968. QP751.L5
- 72636 NICOLL, B. J. Essential oils distillation plant. *Chem. Process Eng.* 49(4):99-100. Apr.1968. 382 In8
- 72637 NIGAM, I. C., and others. Structural relationships between tricyclic sesquiterpenes in oils of vetiver. *Tetrahedron Lett.* 20:2497-2500. Ref. Mar.1968. 385 T29 H. Komae, G. A. Neville, C. Radecka, and S. K. Paniker, joint authors.
- 72638 POTTER, G. F. The domestic tung industry today. *J. Amer. Oil Chem. Soc.* 45(4):281-284. Ref. Apr.1968. 307.8 J82
- 72639 RAO, M. K. G., and ACHAYA, K. T. Antioxidant activity of squalene. *J. Amer. Oil Chem. Soc.* 45(4):296. Ref. Apr.1968. 307.8 J82
- 72640 SAIO, K., WAKABAYASHI, A., and WATANABE, T. Effects of heating on soybean meal proteins. (Ja) *Agr. Chem. Soc. Jap. J.* 42(2):90-96. Feb.1968. 385 Ag8 English summary.
- 72641 SEELEKOPF, C. The alkaloid glycosides in the fruits of *Solanum mammosum* L. (Ge) *Arch. Pharm.* 301(2):111-114. Feb.1968. 396.8 Ar2A English summary.
- 72642 SEVBO, G. S., and others. Automatic control of melting point of hydrogenated fat. (Rus) *Maslo-Zhir. Prom.* 3:17-20. Mar.1968. 307.8 M37 S. V. Lachkov, V. M. Zabelin, A. P. Bardin, M. I. Muchnik, A. T. Ivanchenko, A. V. Zaks, and A. O. Makhilis, joint authors.
- 72643 SHCHERBAKOV, V. G., and DEVTEROV, G. G. Quantitative change of fatty acids in sunflower seeds during storage and in processing. (Rus) *Maslo-Zhir. Prom.* 3:5-7. Mar.1968. 307.8 M37
- 72644 SHIMADA, T. Advances in refining of edible fats and oils. (Ja) *J. Food Sci. Technol.* 15(2):36-42. 1968. 388 J822 Review of the literature.
- 72645 SHIMAHARA, K., MATSUI, M., and HASHIZUME, Y. Bacterial peroxidation of fats. IV. Some properties of the active substance produced by *Achromobacter delicatulus* strain A-1. (Ja) *J. Ferment. Technol.* 46(1):62-68. Ref. Jan.1968. 390.08 H12 English summary. From soybean oil.
- 72646 SMITH, C. R., KLEIMAN, R., and WOLFF, I. A. *Caltha palustris* L. seed oil, a source of four fatty acids with cis-5-unsaturation. *Lipids* 3(1):37-42. Ref. Jan.1968. QP751.L5
- 72647 SOKOL'SKII, D. V., KRUPENYA, N. G., and ZHUBANOV, K. A. Hydrogenation of sunflower oil on a stationary nickel-copper catalyzer. (Rus) *Maslo-Zhir. Prom.* 3:15-17. Mar.1968. 307.8 M37
- 72648 SREENIVASAN, B. Component fatty acids and composition of some oils and fats. *J. Amer. Oil Chem. Soc.* 45(4):259-265. Ref. Apr.1968. 307.8 J82
- 72649 SYMPOSIUM ON TUNG OIL, NEW ORLEANS, 1967. [Papers presented at the 58th annual spring meeting of the American Oil Chemists' Society]. *J. Amer. Oil Chem. Soc.* 45(4):277-295. Apr.1968. 307.8 J82
- 72650 TAKADA, N., and ICHIKAWA, R. <sup>90</sup>Sr and <sup>137</sup>Cs in soybean and its products. (Ja) *Jap. Soc. Food Nutr. J.* 20(5):47-48. Jan.1968. 389.9 J27 English summary.

- 72651 THAMES, S. F., and others. Eleostearic acid derivatives. I. Reactions at the carboxyl group. *J. Amer. Oil Chem. Soc.* 45(4):277-280. Apr. 1968. 307.8 J82  
J. S. Long, O. D. Smith, S. J. Jen, and J. M. Evans, joint authors.  
Tung oil.
- 72652 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Transfer of peanut acreage allotments. Hearings—ninetieth Congress, first session on H.R. 2557, H.R. 6383, and H.R. 6930, June 22, 1967. Washington, 1967. 51 p. PREP 1086

## POULTRY AND POULTRY PRODUCTS

- 72653 BELL, D. Farm egg prices: what do they mean? *Poultry Trib.* 74(4):30-31. Apr. 1968. 47.8 P8642
- 72654 CANADA. DEPT. OF AGRICULTURE. INFORMATION DIV. Pictures—the Canadian egg industry. *Can. Dept. Agr. Publ.* 1347, 13 p. 1968. 7 C16Pu
- 72655 CHIPLEY, J. R., and MAY, K. N. Survival of aerobic and anaerobic bacteria in chicken meat during freeze-dehydration, rehydration, and storage. *Appl. Microbiol.* 16(3):445-449. Mar. 1968. 448.3 Ap5
- 72656 CLINTON, R. H. Effects of temperature on the glutamic acid and lysine in a psychrophilic yeast [*Rhodotorula glutinis*]. *Antonie van Leeuwenhoek J. Microbiol. Serol.* 34(1):99-105. 1968. 448.8 N28A  
Isolated from refrigerated chicken.
- 72657 COX, C. J. Wash them right. *Ga. Univ. Ext. Circ.* 582, 8 p.-folder. Feb. 1968. 275.29 G29C  
To maintain quality of eggs.
- 72658 FITZGERALD, J. C. C&MS egg standards, a yardstick to determine value. *Agr. Marketing [Washington]* 13(5):6. May 1968. A280.38 Ag8
- 72659 FOSSUM, K., and WHITAKER, J. R. Ficin and papain inhibitor from chicken egg white. *Archiv. Biochem. Biophys.* 125(1):367-375. Ref. Apr. 1968. 381 Ar2
- 72660 FRY, J. L. We need uniform state laws to regulate egg products processing. *Poultry Trib.* 74(5):42, 46. May 1968. 47.8 P8642
- 72661 GANDHI, S. K., and others. Chemical modification of egg white with 3,3-dimethylglutaric anhydride. *J. Food Sci.* 33(2):163-169. Ref. Mar./Apr. 1968. 389.8 F7322  
J. R. Schultz, F. W. Boughey, and R. H. Forsythe, joint authors.
- 72662 GUINOT, Y. The consumer egg market in France. (Fr) *Indus. Aliment. Agr.* 84(12):1629-1632. Dec. 1967. 383 As7
- 72663 HEDRICK, T. I., ARMITAGE, A. V., and DAWSON, L. E. Development of dry eggnogs. *Mich. Agr. Exp. Sta. Quart. Bull.* 49(4):435-439. May 1967. 100 M585
- 72664 HENRY, L. D. Poultrymen consider government control to stabilize prices. *Poultry Internat.* 7(4):28, 30-31. Apr. 1968. 47.8 P8698  
For eggs and poultry meat.
- 72665 HENRY, W. R. Frozen should come—still it doesn't. Why? *Broiler Indus.* 31(4):52, 54, 56. Apr. 1968. 47.8 N45  
Consumer preferences.
- 72666 HERBERT, J. Future giblet disposal could be difficult. *Poultry Meat* 5(4):26, 28. Apr. 1968. 47.8 P8656  
A survey of consumer preferences.
- 72667 JABAT, J. V. Singapore expands its poultry industry. *Poultry Internat.* 7(4):42. Apr. 1968. 47.8 P8698
- 72668 LAW, C. Turkey men joined forces for mutual protection, profit; the story-behind the story of Friendly Family Farms in Manitoba's Steinbach district. *Good Farming* 19(1):31-32, 34, 45. Feb. 1968. 7 G59
- 72669 MAIER, J. L. Prudent optimism for poultry. (Ge) *Ubersicht* 19(4):280. Apr. 13, 1968. 18 Ub3
- 72670 MIKESH, V., and KEAN, T. Game birds from field to kitchen. *Minn. Univ. Ext. Bull.* 346, 11 p. 1968. 275.29 M66S  
Chiefly cookery; includes processing of the carcass.
- 72671 OSUGA, D. T., and FEENEY, R. E. Biochemistry of the egg-white proteins of the ratite group. *Arch. Biochem. Biophys.* 124(1/3):560-574. Ref. Mar. 20, 1968. 381 Ar2
- 72672 PAUL, D. Three men can pack from continuous cooker. *Broiler Indus.* 31(4):68-69. Apr. 1968. 47.8 N45
- 72673 RING, A. R. Five reasons we're in new "ball game" at retail. *Broiler Indus.* 31(4):62, 64, 66-67. Apr. 1968. 47.8 N45
- 72674 SCHULTZ, R. W. Tips for effective cleaning and sanitizing. *Poultry Trib.* 74(4):32-33, 44. Apr. 1968. 47.8 P8642  
Of eggs.
- 72675 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Poultry inspection regulations. Hearings—eighty-ninth Congress, second session, September 21, 1966. Washington, 1966. 55 p. PREP 1102
- 72676 U. S. CONGRESS. SENATE. COMMITTEE ON AGRICULTURE AND FORESTRY. Egg marketing orders. Hearings—Eighty-ninth Congress, second session on S. 2832, a bill to amend the Agricultural Adjustment Act, as reenacted and amended by the Agricultural Marketing Agreement Act of 1937, as amended, to authorize the Secretary of Agriculture to issue marketing orders to cover chicken table eggs, February 3 and 4, 1966. Washington, 1966. 116 p. PREP 1147
- 72677 U. S. CONSUMER AND MARKETING SERV. How to buy eggs. U. S. D. A. Home *Gard. Bull.* 144, 8 p.-folder. Jan. 1968. 1 Ag84Hg  
Includes grades.
- 72678 VAN DEREN, J. M., and JAWORSKI, E. G. Collaborative study of the determination of ethoxyquin in chick tissue and eggs by fluorescence. *Ass. Offic. Anal. Chem. J.* 51(3):537-539. May 1968. 381 As7
- 72679 WALTERS, R. E. Improved equipment for weighing and packing turkeys. *U. S. Agr. Res. Serv. ARS-52-24*, 22 p. Jan. 1968. A289.9 R31
- 72680 WISKERCHEN, J. Collaborative study of a method for sodium lauryl sulfate in egg whites. *Ass. Offic. Anal. Chem. J.* 51(3):540-543. May 1968. 481 As7

## RUBBER AND RUBBER SUBSTITUTES

- 72681 COLLIER, H. M., HEAL, C. J. A., and SUNDARAM, P. Control testing of natural rubber used in tyre production. *Rubber J.* 150(4):9-16. Apr. 1968. 305.8 In21
- 72682 DAVEY, A. S. Continuous vulcanization of rubber extrusions using a fluidized bed heating medium indicates that cable vulcanization is feasible although there are considerable problems to overcome. *Rubber Age* 100(4):49-54. Apr. 1968. 305.8 R82
- 72683 KUNISAWA, S., and OKIKURA, M. New types of natural rubber for medical use. *Rubber Develop.* 21(1):7-11. 1968. 305.8 R828
- 72684 LINDLEY, P. B. New rubber-mounted bridges on approach roads to NRPRA. *Rubber Develop.* 21(1):32-34, map. 1968. 305.8 R828
- 72685 RUBBER PRODUCERS' COUNCIL OF MALAYA. Annual report, 1967. Kuala Lumpur, 1968. 50 p. 305.9 R82  
Text also in Indonesian.
- 72686 SANDERS, J. F., FERRY, J. D., and VALENTINE, R. H. Viscoelastic properties of 1,2-polybutadiene—comparison with natural rubber and other elastomers. *J. Polymer Sci. Part A-2, Polymer Phys.* 6(5):967-980. Ref. May 1968. QD471.J62
- 72687 WEISS, G. H. R. Backing tufted carpets without vulcanization. *Rubber Develop.* 21(1):23-26. 1968. 305.8 R828  
Natural rubber latex compounds used.



## SEEDS

- 72688 ANGHEL, G., and DAN, A. Seed legislation in Romania. (Fr) Int. Seed Testing Ass. Proc. 32(2):413-422. 1967. 61.9 In84P
- 72689 BLANCHARD, M. Production and trade in seeds in Algeria. (Fr) Int. Seed Testing Ass. Proc. 32(2):481-489. 1967. 61.9 In84P
- 72690 BLASCOSOK, GY. Situation of planting seed production and supply. (Hu) Magyar Mezőgazdaság 23(5):6-7. Jan.31.1968. 19 M27
- 72691 BÜYS, A. C., and GROOTERS, G. T. The certification of propagating material of crops in the Netherlands. A. Agricultural crops and B. Horticultural crops. Int. Seed Testing Ass. Proc. 32(2):341-355. 1967. 61.9 In84P
- 72692 CABRAL, J. F. Seed legislation in Portugal. Int. Seed Testing Ass. Proc. 32(2):423-427. 1967. 61.9 In84P
- 72693 CLARK, B. E., and PAGE, H. L. Quality and labeling of seeds sold in New York State in 1967. N. Y. (State) Agr. Exp. Sta. Bull. 820, 47 p. Mar.1968. 100 N48
- 72694 FUENTES P., E. J. The seed law in Chile and basic principles for seed laws in developing countries. Int. Seed Testing Ass. Proc. 32(2):445-451. 1967. 61.9 In84P
- 72695 GAWLOWSKI, K. The tasks of seed production in relation to seed supplies for the cropping season, 1968. (Pol) Nowe Roln. 17(4):7-9. Feb.16/29.1968. 20.5 N86
- 72696 GELMOND, H. Seed legislation in Israel. Int. Seed Testing Ass. Proc. 32(2):469-479. 1967. 61.9 In84P
- 72697 GERM, H. Regulations concerning agricultural and horticultural seeds in Austria. (Ge) Int. Seed Testing Ass. Proc. 32(2):393-399. 1967. 61.9 In84P
- 72698 HANSSSEN, K. B. New seed legislation for Rhodesia. Int. Seed Testing Ass. Proc. 32(2):507-515. 1967. 61.9 In84P
- 72699 HILLI, A., and others. Seed legislation in Finland, Norway and Sweden. Int. Seed Testing Ass. Proc. 32(2):291-304. Ref. 1967. 61.9 In84P  
A. Wold, T. Fritz, and L. Kahre, joint authors.
- 72700 HOYLE, J. C. Seed legislation in Zambia. Int. Seed Testing Ass. Proc. 32(2):517-522. 1967. 61.9 In84P
- 72701 KARASHCHUK, I. M., and ZDORIK, A. F. Experience with organization of grass seed industry in the Siberia. (Rus) Selekt. Semenovodstvo 1:9-13. Jan./Feb.1968. 61.9 Se5
- 72702 KEDING, F. W. Seed legislation in the Federal Republic of Germany. (Ge) Int. Seed Testing Ass. Proc. 32(2):335-340. 1967. 61.9 In84P
- 72703 LITHGOW, A. V. Seed legislation in New Zealand. Int. Seed Testing Ass. Proc. 32(2):523-528. 1967. 61.9 In84P
- 72704 MARSCHALL, F. Seed legislation and organization of seed production in Switzerland. (Ge) Int. Seed Testing Ass. Proc. 32(2):401-411. 1967. 61.9 In84P
- 72705 MEADLY, G. R. W. Seed industry procedures and legislation in Australia. Int. Seed Testing Ass. Proc. 32(2):529-535. 1967. 61.9 In84P
- 72706 NAKAMURA, S. Seed legislation in Japan. Int. Seed Testing Ass. Proc. 32(2):453-459. 1967. 61.9 In84P
- 72707 PARNELL, H. R. Seed legislation in Canada. Int. Seed Testing Ass. Proc. 32(2):429-435. 1967. 61.9 In84P
- 72708 RAGLESS, D. C. Certified seed into the bag. S. Australia J. Agr. 71(8):282-289. Mar.1968. 23 So84  
Includes cleaning and testing.
- 72709 RAGLESS, D. C. More about seed certification. S. Australia J. Agr. 71(7):230-235. Feb.1968. 23 So84
- 72710 ROLLIN, S. F. Seed legislation in the United States of America. Int. Seed Testing Ass. Proc. 32(2):437-444. 1967. 61.9 In84P
- 72711 ST. ANGELO, A. J., YATSU, L. Y., and ATLSCHUL, A. M. Isolation of edestin from aleurone grains of *Cannabis sativa*. Arch. Biochem. Biophys. 124(1/3):199-205. Ref. Mar.20.1968. 381 Ar2
- 72712 SCHOOREL, A. F. Aim and function of the International Seed Testing Association in relation to the national and international distribution of sowing seed. Int. Seed Testing Ass. Proc. 32(2):237-244. 1967. 61.9 In84P
- 72713 SUNG, T. Y. Seed legislation of the Republic of China (Taiwan). Int. Seed Testing Ass. Proc. 32(2):461-468. 1967. 61.9 In84P
- 72714 THOMSON, J. R. Seed legislation of the United Kingdom. Int. Seed Testing Ass. Proc. 32(2):317-322. 1967. 61.9 In84P
- 72715 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Amend the Federal Seed Act. Hearing—eighty-ninth Congress, second session on H.R. 15662, H.R. 16280, H.R. 16397, H.R. 16737 and H.R. 16889, August 23, 1966. Washington, 1966. 20 p. PREP 1112
- 72716 VAN WYK, J. F. Seed legislation in South Africa. Int. Seed Testing Ass. Proc. 32(2):491-506. 1967. 61.9 In84P
- 72717 VIRION, J. Organization and legal bases for seed production in Poland. (Ge) Int. Seed Testing Ass. Proc. 32(2):377-391. 1967. 61.9 In84P  
English summary.
- 72718 VOISENAT, P. Legislation and regulation of seeds in France. (Fr) Int. Seed Testing Ass. Proc. 32(2):369-376. 1967. 61.9 In84P

## SUGAR AND SIRUPS

- 72719 ATCHISON, J. E. Rapid gains in the use of bagasse for pulp and paper. Sugar Azucar 63(4):20-21,23-24. Ref. Apr.1968. 65.8 F11
- 72720 BENNETT, M. C., and FENTIMAN, Y. L. Superheating effects on sucrose crystallization under ebullition conditions. I. Int. Sugar J. 70(829):9-13. Jan.1968. 65.8 In8
- 72721 BENNETT, M. C., and FENTIMAN, Y. L. Superheating effects on sucrose crystallization under ebullition conditions. II. Int. Sugar J. 70(830):36-39. Feb.1968. 65.8 In8
- 72722 BERNHARDT, D. R. Bulk storage of bagasse. Sugar J. 30(10):36-37. Mar.1968. 65.8 Su391
- 72723 BOVSUNOVSKII, A. I. Improving seed quality. (Rus) Sakh. Svekla 4:23. Apr.1968. 66.8 Su393  
Policies in sugar beet growing.
- 72724 BUJANOWSKI, K., and STACHURKA, R. The economic and agricultural aspects of development of sugar beet production. (Pol) Nowe Roln. 17(5):1-3. Mar.1/15.1968. 20.5 N86
- 72725 DEVILLERS, P., and CHARTIER, J. C. Determination of insolubles in sugars. (Fr) Sucrerie Franc. 109(2):25-27. Feb.1968. 65.8 J82
- 72726 FOSTER, F. H. Dextran—manufacture and use. 2. Process Biochem. 3(3):55,62. Ref. Mar.1968. TP1.P7
- 72727 GIBBONS, E. Tree saps—barrels of sweet fun! Org. Gard. Farming 15(2):73-76. Feb.1968. 57.8 Or32  
Tapping and processing of maple syrup.
- 72728 GNIELINSKI, S. V. The economical importance of sugarcane cultivation in Liberia. (Ge) Z. Zuckerindus. 18(2):70-75, map. Ref. Feb.20.1968. 65.8 D48  
English summary.  
Mostly low yield farms.
- 72729 GREAT BRITAIN SUGAR BOARD. Annual report for the year to 31st December, 1967. London, 1968. 47 p. 281.3659
- 72730 GUPTA, S. C., and CHETAL, U. Methods of estimation of aconitic acid. Internat. Sugar J. 70(832):107-110. Ref. Apr.1968. 65.8 In8
- 72731 KISSINGER, J. C. Collaborative study of a method and sampling techniques for determining yeast count in maple sirup. Ass. Offic. Anal. Chem. J. 51(3):586-590. May 1968. 381 As7

- 72732 MATSUO, Y. Literatures of sugar analysis I. (Ja) J. Ferment. Technol. 46(2):141-150. Feb. 1968. 390.08 H12  
Review of the literature.
- 72733 MAUCH, W., and BOURZUTSCHKY, H. Rapid test for determining infections in sugar beet extraction plants. (Ge) Z. Zuckerindus. 18(2): 66-67. Feb. 20, 1968. 65.8 D48  
English summary.  
Nitrite test for bacterial infection.
- 72734 MINDEN, A. J. Developing economic guidelines for management decisions in sugar production. Sugar Azucar 63(4):13-14. Apr. 1968. 65.8 F11
- 72735 O'HARA, C. E. Effect of reducing sugar (glucose) on the biuret colorimetric reaction. J. Sci. Food Agr. 19(3):117-118. Mar. 1968. 382 S012
- 72736 OLDFIELD, J. F. T., and DUTTON, J. V. Surface active constituents in beet sugar crystallisation. I. Int. Sugar J. 70(829):7-9. Jan. 1968. 65.8 In8
- 72737 OLDFIELD, J. F. T., and DUTTON, J. V. Surface active constituents in beet sugar crystallization. II. Int. Sugar J. 70(830):40-43. Feb. 1968. 65.8 In8
- 72738 PERK, C. G. M. The influence of flash of juice and condensate on the evaporation rate of the last vessel of an evaporator and the effect on the tendency of entrainment of syrup by the vapour of this vessel. S. Afr. Sugar J. 52(1):63, 65, 67. Jan. 1968. 65.8 S08
- 72739 PIVOVAROV, A. V. The content of sugars in sugar beets as the factor of price determination. (Rus) Sakh. Svekla 3:36-38. Mar. 1968. 66.8 Su393
- 72740 POGORELOV, V. S. Contribution of sugar beet farmers to the Five-Year Plan of the Russian Soviet Federated Socialistic Republic. (Rus) Sakh. Svekla 3:1-3. Mar. 1968. 66.8 Su393
- 72741 PREY, V., and PETERSHOFER, G. Regarding the knowledge of melanoidin initial products. (Ge) Z. Zuckerindus. 18(2):63-66. Feb. 20, 1968. 65.8 D48  
English summary.  
In sugar beet juices.
- 72742 PRINGLE, G. E., and SOTO AGUAYO, J. Census of sugarcane varieties grown in Puerto Rico, 1967. (Sp) P. R. (Rio Piedras) Agr. Exp. Sta. E. & S. R. 72,50 p., map. Ref. Jan. 1968. 100 P83Es  
English summary.  
Acreage, and production regions.
- 72743 RAY, T. R. Application of the two boiling system to Louisiana. Sugar J. 30(10):10-11, 15, 17, 20. Mar. 1968. 65.8 Su391
- 72744 SHUBIN, D. S. Proper determination of basic sugars in sugar beets. (Rus) Sakh. Svekla 4: 10-11. Apr. 1968. 66.8 Su393  
As related to price.
- 72745 SPOELSTRA, H. J., and HOKS, D. The cooling of massecuites in discontinuous water-cooled crystallizers. Internat. Sugar J. 70(832):103-107. Ref. Apr. 1968. 65.8 In8
- 72746 STACHYRA, T. Evaluation of losses caused by sugar beet diseases and pests for the years 1964-1966 in viewpoint of periodic changes and measurement methods. (Pol) Nowe Roln. 17(5):13-15. Mar. 1/15, 1968. 20.5 N86
- 72747 ZAORSKA, H. Changes in sucrose crystallization rate as a function of the quantity of colouring matter in the solution. Internat. Sugar J. 70(832):99-103. Apr. 1968. 65.8 In8
- TOBACCO**
- 72748 ABDALLAH, F. Tobacco quality: 2—the quality of the blend. Tobacco [New York] 166(13): 21-23. Mar. 29, 1968. 286.89 T552
- 72749 ABDALLAH, F. Tobacco quality: 3—sugar's role in processing. Tobacco [New York] 166(16):13-15. Apr. 19, 1968. 286.89 T552
- 72750 BRUCE, L. C. For North Carolina ports tobacco a most valuable commodity. Tobacco 166 (17):101-102. Apr. 26, 1968. 286.89 T552
- 72751 CHENIKOV, V. V., and VEITSLER, V. G. Change of volatile substances in aromatic tobacco in the process of curing. (Rus) Tabak 1: 38-40. 1968. 69.8 T112
- 72752 DYMICKY, M., and STEDMAN, R. L. Composition studies on tobacco. XXIX. Tobacco [New York] 166(2):21-24. Ref. Jan. 12, 1968. 286.89 T552
- 72753 DYMICKY, M., and STEDMAN, R. L. Research note No. 4: Composition studies on tobacco. XXX. Basic pigment of cigarette smoke condensate. Tobacco [New York] 166(16):31-32. Apr. 19, 1968. 286.89 T552
- 72754 EDDINGTON, B. Make the tobacco move—not the buyers and graders! Tobacco [New York] 166(17):51-53. Apr. 26, 1968. 286.89 T552
- 72755 EVERETTE, G. A. Dark-fired: a time for reassessment. Tobacco [New York] 166(17):37-39. Apr. 26, 1968. 286.89 T552
- 72756 INGHAM, S. Suggestions for reaping and curing in the coming season. Rhodesian Tobacco J. 20(1):41, 43. Jan. 1968. 69.8 R34  
Curing chiefly.
- 72757 JACIN, H., SLANSKI, J. M., and MOSHY, R. J. The determination of nicotine in tobacco and in particulate matter of smoke by gas chromatography. Anal. Chim. Acta 41(2):347-353. Ref. May 1968. 381 An1
- 72758 JONES, T. C., and SCHMELTZ, I. Fingerprint gas chromatographic analysis of tobacco leaf acids. Tobacco [New York] 166(3):19-25. Ref. Jan. 19, 1968. 286.89 T552
- 72759 KIGER, H. C. The EEC's common agricultural policy: what does it mean to world tobacco trade? Tobacco [New York] 166(17):27-28, 31. Apr. 26, 1968. 286.89 T552
- 72760 MACNICOL, P. K. Isolation of 6-hydroxykynurenin acid from the tobacco leaf. Biochem. J. 107(4):473-479. Apr. 1968. 382 B52
- 72761 NIKITENKO, YU. R., and TRUBNIKOV, V. F. Calculation of the extended drying of tobacco in the loose mass. (Rus) Tabak 1:36-37. 1968. 69.8 T112
- 72762 1968 "DIXIE" directory. Tobacco [New York] 166(17):107-154, map. Apr. 26, 1968. 286.89 T552
- 72763 OBI, Y., and others. Reaction products of nicotine with ethylene oxide and their pyrolysis. Tobacco [New York] 166(16):25-30. Apr. 19, 1968. 286.89 T552  
Y. Shimada, K. Takahashi, K. Nishida, and T. Kiseki, joint authors.
- 72764 OSMAN, S., and BARSON, J. The chemical comparison of four cigar filler tobaccos. I. Preliminary investigation of mainstream and sidestream smoke. Tobacco [New York] 166(7): 31-34. Feb. 16, 1968. 286.89 T552
- 72765 PHILLIPS, R. J. The Virginia ports—ready and waiting for containerized leaf. Tobacco 166 (17):85, 87-88, 90, 92, 94-99. Apr. 26, 1968. 286.89 T552
- 72766 RICE, J., and CYRUS, J. H. Untied flue-cured: a comparison of packaging techniques. Tobacco [New York] 166(7):14-16. Feb. 16, 1968. 286.89 T552
- 72767 RICE, J. R. Most farmers and buyers would accept farm sheeting temporarily—study confirms. Tobacco [New York] 166(17):54-55. Apr. 26, 1968. 286.89 T552  
Handling for marketing.
- 72768 SCISM, J. L. Virginia: farmers more militant; all segments talking consolidation, facilities updating. Tobacco [New York] 166(17):32-34. Apr. 26, 1968. 286.89 T552  
Marketing.
- 72769 SHEETS, T. J., SMITH, J. W., and JACKSON, M. D. Insecticide residues in cigarettes. Tobacco [New York] 166(15):25-29. Apr. 12, 1968. 286.89 T552
- 72770 SHIRDOV, I. V. Tobacco industry in Moldavia. (Rus) Tabak 1:43-45. 1968. 69.8 T112



- 72771 SMITH, B. J. The port of New Orleans: another door to tobaccoland. Tobacco [New York] 166 (17):103-104. Apr.26,1968. 286.89 T552
- 72772 STEDMAN, R. L. The chemical composition of tobacco and tobacco smoke. Chem. Rev. 68 (2):153-207. Apr.1968. 381 C425  
Bibliography, p.198-207.
- 72773 TATARKA, N. P. More attention to the quality of raw material. (Rus) Tabak 1:41-43. 1968. 69.8 T112  
Tobacco industry in the USSR.
- 72774 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Operations of the Flue-cured Tobacco Cooperative Stabilization Corporation. Hearings—ninetieth Congress, first session. Washington, 1967. 61 p. PREP 1662  
Price supports.
- 72775 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Tobacco; loose leaf and acreage allotments. Hearings—eighty-ninth Congress, second session, October 14, 1966, Raleigh, N. C. Washington, 1966. 27 p. PREP 1123
- 72776 U. S. CONSUMER AND MARKETING SERV. TOBACCO DIV. Annual report on tobacco statistics, 1967. U. S. D. A. Statist. Bull. 424, 71 p., map. Apr.1968. 1 Ag84St
- 72777 WALKER, E. K. Some chemical characteristics of cured leaves of flue-cured tobacco relative to time of harvest, stalk position and chlorophyll content of the green leaves. Tobacco [New York] 166(14):21-29. Ref. Apr.5,1968. 286.89 T552
- MISCELLANEOUS PRODUCTS**
- 72778 BROWNE, A. E. Pilot market news reports on cut flowers. Agr. Marketing [Washington] 13 (5):3. May 1968. A280.38 Ag8  
California.
- 72779 CHAPIN, D. People-to-people tour. II. The flowers of Budapest. Florists' Rev. 142(3673): 45,77. Apr.18,1968. 80 W41
- 72780 CHRISTY, F. T. Protein concentrate and a rationalized fishery. Alternatives Balancing World Food Prod. Needs. Rep. 145-158. Ref. 1967. HD9000.1.A4
- 72781 COLEMAN, M. J., LINDSTROM, R. S., and LARZELERE, H. E. Consumer preferences for rose colors. Mich. Agr. Exp. Sta. Quart. Bull. 50(3):342-354. Feb.1968. 100 M58S
- 72782 ELLIS, N. K., and others. Market grades and standards for carnations, chrysanthemums, and roses. Ill. Agr. Exp. Sta. Bull. 727,23 p. Ref. Jan.1968. 100 IL6S  
J. R. Culbert, F. C. Gaylord, C. E. Hexsie, C. H. Sherwood, R. W. Campbell, W. J. Carpenter, D. P. Watson, R. S. Lindstrom, R. E. Widmer, H. F. Wilkins, J. C. Grady, J. E. Smith, V. J. Miller, H. O. Werner, G. Viehmeyer, J. O. Young, D. G. Hoag, L. C. Chadwick, D. C. Kiplinger, J. C. Rawson, G. E. Beck, L. M. Berninger, L. C. Martin, J. V. Powell, L. C. Halvorson, D. Y. Perkins, and R. J. Saville, joint authors.  
Agricultural Experiment Stations of Alaska, Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, Wisconsin; and U. S. Department of Agriculture, cooperating.  
Also North Central Regional Research Publication No. 173.
- 72783 FIELD, K., and KENT, B. E. The determination of quebracho in mixtures with some other tannin extracts and related materials. Analyst 93 (1105):259-261. Apr.1968. 382 An1
- 72784 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Fisheries in the food economy. Freedom Hunger Campaign. Basic Study 19,79 p. Ref. 1968. 389 F872  
Includes processing.
- 72785 FUKINBARA, I., and TOYAMA, N. Production of seaweed food with cellulase. (Ja) J. Food Sci. Technol. 15(2):27-30. 1968. 388 J822  
English summary.
- 72786 MCGUIRE, J. J. Fiftieth anniversary for Rhode Island Association. Amer. Nurseryman 77(6):7. Mar.15,1968. 80 Am371  
Rhode Island Nurserymen's Association.
- 72787 NEVILLE, G. A., NIGAM, I. C., and HOLMES, J. L. Identification of ketones in Cyperus; NMR and mass spectral examination of the 2,4-dinitrophenylhydrazones. Tetrahedron 24 (10):3891-3897. Ref. May 1968. 382 T29
- 72788 PELROY, G. A. Packaging affects bacterial growth in radiation-pasteurized products: Aust. Food Mfr. Distrib. 37(7):42-46. Feb.12, 1968. 389.8 Au7  
Fish.
- 72789 SHAW, S. J. Butylboronate esters as derivatives for gas-chromatography-mass spectrometry of hop constituents. Tetrahedron Lett. 26: 3033-3036. May 1968. 385 T29





ANIMAL INDUSTRY

References on processing, distribution, economic aspects and statistics of livestock and livestock products are classified with Agricultural Products; references on housing of livestock with Agricultural Engineering.

BREEDS AND BREEDING

- 72790 ANDERS, F. Genetic factors in the development of neoplasms. (Ge) Zentralbl. Veterinarmed. Reihe B, 15(1):29-46. Ref. Feb.1968. 41.8 Z52  
English summary.
- 72791 BARTHA, R., and LINDAU, M. Animal Breeding Station Toukounous—a project of German aid to developing countries in the Republic of Niger. (Ge) Berliner Munchener Tierarztl. Wochenschr. 81(5):83-86, map. Ref. Mar.1, 1968. 41.8 B45  
English summary.
- 72792 BOGYO, T. P., and TING, S. W. Effect of selection and linkage on inbreeding. Australian J. Biol. Sci. 21(1):45-53. Feb.1968. 442.8 Au72  
Statistical methods.
- 72793 BORISENKO, E. Y. Razvedenie sel'skokhozyaistvennykh zhivotnykh [Reproduction of livestock]. Ed. 4, rev. and enl. Moskva, Kolos, 1967. 463 p. Ref. SF105.B6 1967
- 72794 EDWARDS, R., and GARDNER, R. Choosing sex before birth. New Sci. 33(595):218-220. May 2, 1968. 462 N42  
Application to livestock.
- 72795 GROSSMAN, M., and GALL, G. A. E. Covariance analysis with unequal subclass numbers: component-estimation in quantitative genetics. Biometrics 24(1):49-59. Ref. Mar.1968. 442.8 B5224  
Livestock.
- 72796 KUCEL, J. Five years of the activity of the Center for Artificial Insemination of Livestock [Centar za Umjetno Osjemenjivanje Domacih Zivotinja] at Osijek. (Se) Vet. Glas. 21(12):995-1000. Dec.1967. 41.8 J93
- 72797 ROLDAN, R. R. In vitro semen preservation. (Sp) Gac. Vet. 29(208):511-531. Nov.1967. 41.8 G112  
Bibliography, p, 526-531.
- 72798 SHULIMOV, A. G. Training of technicians for artificial insemination. (Rus) Zhivotnovodstvo 2:64-65. Feb.1968. 49 Z6
- 72799 TALLIS, G. M. Selection for an optimum growth curve. Biometrics 169-178. Mar.1968. 442.8 B5224  
Livestock.
- 72800 TOMITA, T. Molecular genetics and animal breeding. (Ja) Jap. J. Zootech. Sci. 39(2):55-60. Ref. Feb.1968. 49 N62
- 72801 WITT, M. Ergebnisse und Zukunftsaufgaben der Tierzuchtforschung [Results and future tasks of livestock breeding research]. Max-Planck-Inst. Tierzucht Tierernahr. Schriftenreihe 31, 42 p. Ref. 1967. 49.9 M45
- FEEDS AND FEEDING
- 72802 CAMPBELL, A. G. Increasing the efficiency of pasture use. Span 11(1):50-53. Ref. 1968. 464.8 Sp2  
In livestock feeding in New Zealand.
- 72803 CHMIEL, W. Compound feeds and own raw materials. (Pol) Nowe Roln. 17(3):19-20. Feb.1/15, 1968. 20.5 N86
- 72804 CURTO, G. M., and CICOGNA, M. E. On the relations between nutrition and fertility; the effect on fertility of the principal feeds rich in fat (lipides and glucides). (It) Riv. Zootec. 41(1):30-35. Ref. Jan.1968. 49 R52  
English summary.
- 72805 DAVIS, G. K. Mineral element interactions in the nutrition of large animals. Kans. Vet. 24(1):16-19. Jan./Feb.1968. 41.9 K133B
- 72806 DAVIS, G. K. Some trace elements in the nutrition of large animals. Kans. Vet. 24(1):20-24. Jan./Feb.1968. 41.9 K133B
- 72807 DAVISON, A. N. The influence of nutritional disorder on the lipid composition of the central nervous system. Nutr. Soc. Proc. 27(1):83-85. Ref. Mar.1968. 389.9 N953  
In animals.
- 72808 DEGTYAREV, V. P. Peculiarities of sucrose digestion in ruminants. (Rus) Zhivotnovodstvo 2:72-74. Feb.1968. 49 Z6
- 72809 ELLIS, W. C., and HUSTON, J. E. <sup>144</sup>Ce-<sup>144</sup>Pr as a particulate digesta flow marker in ruminants. J. Nutr. 95(1):67-78. Ref. May 1968. 389.8 J82
- 72810 GESELLSCHAFT FUR ERNAHRUNGSPHYSIOLOGIE DER HAUSTIERE. 21st conference in Giessen, April 12-14, 1967; general theme: additives in animal nutrition. (Ge) Z. Tierphysiol. Tierernahr. Futtermittelkunde 23(5):285-320. Apr.1968. 389.78 Z3  
Abstracts of papers.
- 72811 GUSTAVESON, A. Bentonite (montmorillonite)—new concepts. Mont. Nutr. Conf. Proc., 19th Annu. Conf.:55-58. Ref. 1968. 389.79 M76  
In animal nutrition.
- HASHIMOTO, H. Survival of Salmonella, viable bacteria count and appearance of contamination-indicating organisms in Salmonella-positive feedstuffs. (Ja) Jap. Vet. Med. Ass. J. 21(3):109-112, 118. Mar.1968. 41.9 Ja75  
English summary.  
-Fishmeal.
- 72813 HOPKINS, J. R. Whole crop barley for silage. N.A.A.S. (Nat. Agr. Adv. Serv.) Quart. Rev. 79:93-98. Spring 1968. 241 G796  
For ruminant nutrition.
- 72814 JACKSON, N., and ANDERSON, B. K. Conservation of fresh and wilted grass in air-tight metal containers. J. Sci. Food Agr. 19(1):1-4. Ref. Jan.1968. 382 S02  
Ensiling and nutrient losses.
- 72815 KANSAS. AGRICULTURAL EXPERIMENT STATION. A new urea product for ruminants. Feedstuffs 40(17):9, 52, 54. Apr.27, 1968. 286.81 F322
- LANCASTER, R. J. Quality and storage losses of silages made in bunkers, stacks, and by vacuum compression. New Zeal. J. Agr. Res. 11(1):63-70. Ref. Feb.1968. 23 N4892
- 72816 LESINS, K., and SCHULZ, F. H. Some effects of bacterial inoculation on silage making. Can. J. Anim. Sci. 48(1):15-25. Ref. Apr.1968. 41.8 C163  
Prepared from alfalfa and Carex atherodes.
- 72818 MCDONALD, P., HENDERSON, A. R., and MACGREGOR, A. W. Chemical changes and losses during the ensilage of wilted grass. J. Sci. Food Agr. 19(3):125-132. Ref. Mar.1968. 382 S02
- 72819 MESSER, H. J. M. Tower silage. Beef Sheep Farming (sup.) 5(4):ix. Apr.1968. 43.8 B392  
Making of silage in Great Britain.
- 72820 OUSTERHOUT, L. E. Fish meal quality control as it affects feed formulation. Feedstuffs 40(17):18-20. Apr.27, 1968. 286.81 F322
- 72821 SCHREIBER, R. The most important chemical-physical regularities and the role and effect of organic and anorganic nutrients in animal and plant nutrition. (Ge) Tierarztl. Umsch. 23(4):174-179. (Cont.) Apr.1, 1968. 41.8 T445  
Includes role of protein and carbohydrates.
- 72822 SHEMYAKINA, A. A. The quality of straw, treated with different synthetic ammonium compounds. (Rus) Zhivotnovodstvo 2:77-79. Feb. 1968. 49 Z6  
Nutritive value of rye straw.
- 72823 SOLUN, A. S., MAGIDOV, G. A., and SALMANOVA, L. S. Ferments as factors of increasing livestock productivity. (Rus) Zhivotnovodstvo 2:82-88. Feb.1968. 49 Z6
- 72824 TOTH, J. Importance and utilization of mixed feed. (Hu) Magyar Mezogazdasag 23(17):16-17. Apr.24, 1968. 19 M27

- 72825 WALKER, D. J. The position of lactic acid and its derivatives in the nutrition and metabolism of ruminants. *Nutr. Abs. Rev.* 38(1):1-11. Jan.1968. 389.8 N95  
Review of the literature.
- 72826 WEISSBACH, F., BUDZIER, H. H., and SCHADEREIT, R. Studies on the preservation of moist grain by the process of ensilage. 1-2. (Ge) *Arch. Tierernahr.* 18(1):49-59,61-67. Ref. Feb.1968. 389.78 Ar22  
English summary.  
1. Silage-making experiments with moist grain; 2. Digestion trials with silage made from moist grain.
- 72827 WHITEHAIR, C. K. The interrelationship between nutrition and infection. *Norden News* 43(2):22-24. Spring 1968. 41.8 N75  
Of livestock.
- 72828 WILSON, R. F. Vacuum silage. *Beef Sheep Farming* (sup.)5(4):vii. Apr.1968. 43.8 B392  
Method of making silage in Great Britain.
- 72829 ZIEBA, S. Organization of making silage, based on data from the Lodz voivodship. (Pol) *Nowe Roln.* 17(4):31-33. Feb.16/29,1968. 20.5 N86
- VETERINARY MEDICINE**
- 72830 ABRAMOV, I. V. The major results of work of the Laboratory of Protozoology, All-Union Institute of Experimental Veterinary Medicine. (Rus) *Veterinariya* 1:52-54. 1968. 41.8 V6426  
Includes work on ticks.
- 72831 ALIEV, S. YU. Peculiarities of dicrocoeliosis epizootiology. (Rus) *Veterinariya* 3:50-51. 1968. 41.8 V6426
- 72832 AMERICAN VETERINARY MEDICAL ASSOCIATION. The 105th annual convention. *Amer. Vet. Med. Ass. J.* 152(9):1251-1382. May 1968. 41.8 Am3  
Includes abstracts of papers.
- 72833 ANDREEV, E. V., and others. Saponin vaccine from lapinized foot-and-mouth disease virus, AI variant. (Rus) *Veterinariya* 1:28-31. Ref. 1968. 41.8 V6426  
A. A. Boiko, F. F. Lutsevich, I. P. Filatov, A. P. Mikhailyuk, R. I. Popkova, Yu. B. Morev, and N. D. Golota, joint authors.
- 72834 ANDREWS, E. D., HARTLEY, W. J., and GRANT, A. B. Selenium-responsive diseases of animals in New Zealand. *New Zeal. Vet. J.* 16(1/2):3-17, map. Jan./Feb.1968. 41.8 N483  
Review of the literature.
- 72835 ANDREWS, J. F. Suggested health requirements for exhibition of livestock in Georgia. *Ga. Vet.* 20(2):19-20. Mar./Apr.1968. 41.8 G29
- 72836 ANNUAL review of physiology. Volume 30, edited by V. E. Hall, A. C. Giese, and R. R. Sonnenchein. Palo Alto, California, 1968. 773 p. 444.8 An7  
Review of the literature.  
Partial contents: Reproduction, by A. V. Nalbandov and B. Cook, p.245-278.  
Livestock in the above article and scattered references to insects in the index.
- 72837 ANSELL, R. H. Introduction of foreign diseases must be prevented. *New Zeal. J. Agr.* 116(3):59,61,63. Mar.1968. 23 N48J
- 72838 APLIN, T. E. H. Water blooms. *West, Australia. Dep. Agr. J.* (ser.4)8(11):472-474. Nov. 1967. 23 W52J  
Algae causing poisoning of livestock; includes control in farm water supply.
- 72839 ATTFIELD, J. G. Liver fluke disease control with a new molluscicide [N-trityl-morpholine (Frescon)]. *Span* 11(1):23. 1968. 464.8 Sp2
- 72840 BAISETT, A., DANG-TRAN, L., and MONTASTRUC, P. Hypoglycemia caused by intravenous injection of vasopressin in dog, cat, and rabbit. (Fr) *Acad. Sci. C. R., Ser. D*, 266(15): 1596-1599. Apr.15,1968. 505 P21
- 72841 BAKER, S. Farming in Britain; the foot and mouth crisis. *Kenya Farmer* 138:16. Jan. 1968. 24 R812
- 72842 BALANI, A. S., RANJEKAR, P. K., and BARNABAS, J. Structural basis for heterogeneity in haemoglobins of adult and new-born ruminants. *Compar. Biochem. Physiol.* 24(3):809-815. Ref. Mar.1968. 444.8 C73
- 72843 BAMBURG, J. R., RIGGS, N. V., and STRONG, F. M. The structures of toxins from two strains of *Fusarium tricinatum*. *Tetrahedron* 24(8):3329-3336. Ref. Apr.1968. 382 T29  
Cause of toxicosis in farm animals ingesting moldy corn.
- 72844 BARRETT, R. B. Veterinary radiographic exposure techniques. *Auburn Vet.* 24(2):62-67,76. Winter 1968. 41.8 Aul
- 72845 BARRY, J. M. The biochemistry of the mammary gland. *Nutr. Soc. Proc.* 27(1):52-57. Ref. Mar.1968. 389.9 N953  
In animals.
- 72846 BARTIK, M., and MICHNOVA, E. Possibilities of utilization of peptidolytic enzymes in diagnosis. (Cz) *Veterinarstvi* 17(6):263-265. 1967. 41.8 V6439  
Livestock diseases.
- 72847 BASDEN, E. H., and others. Genetic relationship among bacteria classified as vibrios. *J. Bacteriol.* 95(2):439-443. Ref. Feb.1968. 448.3 J82  
M. E. Tourtellotte, W. N. Plastring, and J. S. Tucker, joint authors.
- 72848 BEAUREGARD, M. Rabies in Canada. (Fr) *Econ. Med. Anim.* 9(1):39-45. Jan./Feb.1968. 41.8 Ec7  
In skunk, cat, and a cow.
- 72849 BELANGER, L. F. Osteolysis in pathological material. *Cornell Vet.* 58(sup.):115-135. Ref. Jan.1968. 41.8 C81  
In animals.  
Includes discussion.
- 72850 BELLANI, L. Points on the project of law, authorized by the Ministry of Health, concerning the sanitary defense of the national zootechnic patrimony. (It) *Clin. Vet.* 91(2):58-60. Feb.1968. 41.9 C61
- 72851 BOCHAROV, I. A., and others. *Akusherstvo, ginekologiya i iskusstvennoe osemenenie sel'skokhozyaistvennykh zhivotnykh* [Veterinary obstetrics, gynecology and artificial insemination of livestock]. Leningrad, Kolos, 1967. 672 p. SF887.B6  
A. B. Beskhebnov, Ya. G. Gubarevich, I. F. Zayanchkovskii, N. I. Sokolov, and A. I. Pospelov, joint authors.
- 72852 BOHOSIEWICZ, M., and MIKOLAJCZAK-BOZILOW, B. Causes of intoxications resulted by some chemical compounds during 1960-66. (Pol) *Medycyna Weterynaryjna* 24(2):85-86. Feb.1968. 41.8 M463
- 72853 BOLDYREV, D., and others. For healthy and highly productive herds of farm animals and poultry (programs for veterinary specialists). (Rus) *Veterinariya* 1:19-22. 1968. 41.8 V6426  
A. Tsaregorodtsev, A. Brodovskii, P. Kostitsa, V. Obornev, P. Sirosh, E. Lubkovskii, and Z. Veresova, joint authors.
- 72854 BULLING, E., SCHOLZ, M., and MALLA, D. S. Antibiotics resistance by enterobacteria from animal material and research into transference of multiple resistance in vitro. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 81(8):151-153. Ref. Apr.15,1968. 41.8 B45  
English summary.  
Salmonella strains.
- 72855 BUSCHMANN, G. Literaturubersicht zur Elektromyographie und eigene Untersuchungen zur Anwendung beim Schwein [Literature survey on electromyography and individual investigations on application to swine]. Hanover, Tierarztl. Hochsch. Inaug.-Diss. 8,67 p. Ref. 1967. 41.2 H198.
- 72856 BYMEL, H. Floor plan clinic. *Mod. Vet. Pract.* 49(4):80-81. Apr.1968. 41.8 N812
- 72857 BYMEL, H. Floor plan clinic. *Mod. Vet. Pract.* 49(5):72-73. May 1968. 41.8 N812



- 72858 CANTER, D. On teaching veterinary medicine. (Sp) *Gac. Vet.* 29(208):490-496. Nov.1967. 41.8 G112  
In Argentina.
- 72859 CESCONE, I., BRAMBILLA, E., and MELGRATI, E. On the determination of free volatile fatty acids in ruminal juice. (It) *Clin. Vet.* 91(2):42-47. Ref. Feb.1968. 41.9 C61
- 72860 CHERNYSHOV, D. V. The use of stabilized blood for treatment of dyspepsia in young animals. (Rus) *Veterinariya* 3:57-58. 1968. 41.8 V6426
- 72861 CHHABRA, M. B. Effect of temperature on sporulation of oocysts of coccidia. *Indian Vet. J.* 45(1):31-34. Ref. Jan.1968. 41.8 In2  
*Eimeria bareillyi*.
- 72862 CIEGLER, A., and PETERSON, R. E. Aflatoxin detoxification: hydroxydihydro-aflatoxin B<sub>1</sub>. *Appl. Microbiol.* 16(4):665-666. Apr.1968. 448.3 Ap5
- 72863 COBB, B. F., and KOENIG, V. L. The distribution of the soluble proteins from the crystalline lenses of young and mature vertebrates. *Compar. Biochem. Physiol.* 25(2):583-599. Ref. May 1968. 444.8 C73  
Dogs, rabbits, and chickens.
- 72864 COLORADO STATE UNIVERSITY. COOPERATIVE EXTENSION SERV. 1968 insect control guide for Colorado. III. Livestock pests. Colo. State Univ. Ext. Gen. Ser. 861,15 p. Jan.1968. 100 C71G  
Published jointly with Colorado Experiment Station.
- 72865 CORDERO DEL CAMPILLO, M. The prestige of the profession. (Sp) *Col. Ofic. Vet. Prov. Barcelona. An.* 25(283):9-27. Jan.1968. 41.9 C67
- 72866 COWAN, K. M., and GRAVES, J. H. Immunological studies of foot-and-mouth disease. III. *Virology* 34(3):544-548. Ref. Mar.1968. 448.8 V81
- 72867 CYGAN, Z. Clostridia in the organs of healthy and dead animals. (Pol) *Med. Weter.* 24(3):164-167. Mar.1968. 41.8 M463
- 72868 DAHLGREN, A. B. C. Education of veterinarians. (Da) *Danske Dyrlaegerfor. Medlemsbl.* 51(6):207-212. Mar.15,1968. 41.9 D23
- 72869 DAHME, E. Comparative consideration of the morphology and genesis of new growths. (Ge) *Deut. Vet. Ges. Ber. 7th Congr.*:15-22. Ref. 1968. 41.9 D482  
English summary.
- 72870 DAHME, E. Comparative consideration of the morphology and genesis of new growths. (Ge) *Zentralbl. Veterinarmed. Reihe B*, 15(1):15-22. Ref. Feb.1968. 41.8 Z52  
English summary.  
Tumors and cancer.
- 72871 DEMIDOV, V. A., KOVALEV, N. A., and GRECHISHKIN, M. D. Eradication of foot-and-mouth disease in Belorussia. (Rus) *Veterinariya* 3:30-32. 1968. 41.8 V6426
- 72872 DENMARK. VETERINAERDIREKTORATET. *Arsberetning* [Annual report of the Veterinary Board], 1966. Kobenhavn, 1968. 54 p. 41.9 D413
- 72873 DEUTSCHE VETERINARMEDIZINISCHE GESELLSCHAFT. Bericht des 7. Kongresses [Report of the 7th Congress], Bad Nauheim, April 7-8, 1968. Berlin, 1968. 205 p. 41.9 D482  
Papers presented.
- 72874 DEUTSCHE VETERINARMEDIZINISCHE GESELLSCHAFT. Papers presented at the seventh congress [of the German Veterinary Association]. (Ge) *Zentralbl. Veterinarmed. Reihe B*, 15(1),205 p. Feb.1968. 41.8 Z52
- 72875 DIAZ-UNGRIA, C. Contamination by mouth-to-stomach and by eye in trypanosomiasis; summary and new experiences. (Sp) *Rev. Vet. Venezolana* 24(138):39-66. Ref. Jan.31,1968. 41.8 R3226
- 72876 DIVLJANOVIC, D. Subject and importance of study of history of veterinary medicine in Serbia. (Se) *Vet. Glas.* 21(4):373-374. 1967. 41.8 J93
- 72877 DOUGHERTY, R. W. Eructation in ruminants. *N. Y. Acad. Sci. Ann.* 150(1):22-26. Ref. Feb.26,1968. 500 N484
- 72878 DUBAKIN, N. I. I. Modified technique of microscopic agglutination analysis for diagnosis of leptospirosis. (Rus) *Veterinariya* 1:103-104. 1968. 41.8 B6426
- 72879 DUKES, H. H. Veterinary education; a changing order. *Tuskegee Vet.* 12(1):15-16. Fall/Winter 1968. 41.8 T87
- 72880 DULANEY, E. L., CAREY, M. J., and GLANTZ, P. J. Extrachromosomal drug resistance in *Escherichia coli* from diseased animals. *Amer. J. Vet. Res.* 29(5):1067-1072. Ref. May 1968. 41.8 Am3A  
Chiefly antibiotics.
- 72881 DVORACEK, J. A contribution to the problem of organization and economics of veterinary services. (Cz) *Veterinarstvi* 17(4):180-181. 1967. 41.8 V6439
- 72882 DVORAK, J., and OTCENASEK, M. Mycosis as anthroponosis. (Cz) *Veterinarstvi* 17(4):147-150. 1967. 41.8 V6439
- 72883 ERSHOV, V. S. Veterinary helminthology in the Soviet Union. (Rus) *Acta Vet. [Budapest]* 17(4):329-336. 1967. 41.8 Ac83  
German summary.
- 72884 FARQUHARSON, I. D. Shell products for animal health. *Span* 11(1):19-22. Ref. 1968. 464.8 Sp2  
Chiefly for parasite and pest control.
- 72885 FAUSTINI, R. Antibiotics in the zootechnic-veterinary field, with particular reference to public health. (It) *Veterinaria [Milano]* 17(1):3-20. Ref. Jan./Feb.1968. 41.8 F6499  
English summary.
- 72886 FEHER, K. The Animal Health Research Institute of the Hungarian Academy of Science [Magyar Tudomanyos Akademia, Allategeszsegugyi Kutato Intezet]. (Hu) *Magyar Mezogazdasag* 23(17):18-19. Apr.24,1968. 19 M27
- 72887 FIEDORUK, J., and GORCZYNSKI, M. An attempt to analyze the diseases of domestic animals treated in PZLZ Bialystok district in 1961-1965. (Pol) *Med. Weter.* 24(3):162-164. Mar.1968. 41.8 M463
- 72888 FILIPPOVSKII, T. P. Enzootic caries and pathological grinding of teeth. (Rus) *Veterinariya* 3:62-64. 1968. 41.8 V6426
- 72889 FINKELSTEIN, B. J. Ethics. *Vet. News* 31(1):19-20. Jan./Feb.1968. 41.8 V6491
- 72890 FLUCKIGER, G. The number and location of epidemic vehicles. (Ge) *Schweiz. Arch. Tierheilk.* 110(3):161-164. Mar.1968. 41.8 Sch9
- 72891 FRANCIS, J. Zoonoses and veterinary public health. *Span* 11(1):7-9. 1968. 464.8 Sp2
- 72892 FRIED, M., and others. The biosynthesis of plasma lipoproteins in higher animals. *Compar. Biochem. Physiol.* 25(2):651-661. Ref. May 1968. 444.8 C73  
H. G. Wilcox, G. R. Faloona, S. P. Eoff, M. S. Hoffman, and D. Zimmerman, joint authors.  
Swine, rabbits, and poultry included.
- 72893 FRYC, J. Brevinarcon in veterinary anesthesiology. (Pol) *Med. Weter.* 24(3):159-162. Mar.1968. 41.8 M463  
French summary.
- 72894 GAZARKH, Z. S., and KUZYAIEV, A. N. Blood indices and tuberculin reaction in animals fed urea. (Rus) *Veterinariya* 3:36-37. 1968. 41.8 V6426
- 72895 GIZATULLIN, KH. G. The oldest veterinary institute of the country. (Rus) *Veterinariya* 1:107-108. 1968. 41.8 V6426  
Kazanskii Veterinarnyi Institut imeni N.E. Baumana.
- 72896 GOLIKOV, A. N. DANILEVSKII, V. M., and PREOBRAZHENSKII, N. M. Clinical training of veterinarians is to be improved. (Rus) *Veterinariya* 1:109-110. 1968. 41.8 V6426

- 72897 GOODWIN, R. F. W. Eradicating brucellosis. *Span* 11(1):13-15. 1968. 464.8 Sp2
- 72898 GORSKII, B. V., and GIZATULLIN, KH. G. Chemical method of dung disinfection in foot-and-mouth disease control. (Rus) *Veterinariya* 1:98-101. 1968. 41.8 V6426
- 72899 GRAFIN, G. Situation of the veterinary profession. (Ge) *Prakt. Tierarzt* 49(3):146,149-152. Mar.1,1968. 41.8 P882
- 72900 GRAVES, J. H., COWAN, K. M., and TRAUTMAN, R. Immunochemical studies of foot-and-mouth disease. II. *Virology* 34(2):269-274. Ref. Feb.1968. 448.8 V81
- 72901 GUALLINI, L. On the biological characterization of the mycotoxic action of a strain of *Paezilomyces varioti* Bainier 1907. (It) *Clin. Vet.* 91(1):7-15. Ref. Jan.1968. 41.8 C61  
English summary.
- 72902 GYURU, F., and KOVACS, GY. Pelvic arteries (A. hypogastrica) of domestic mammals. (Ge) *Acta Vet. [Budapest]* 17(4):371-399. Ref. 1967. 41.8 Ac83
- 72903 HAMMER, D. Immunity to tumors. (Ge) *Zentralbl. Veterinarmed. Reihe B*, 15(1):51-55. Feb.1968. 41.8 Z52  
English summary.
- 72904 HATHERILL, C. W. B. Disease agents affecting livestock in British Honduras. I. Internal and external parasites. *Vet. Rec.* 82(7):188-190. Feb.1968. 41.8 V641
- 72905 HAUPTMAN, J., and JEHLICKA, L. The science of etiology and its role in the livestock research. (Cz) *Veterinarstvi* 17(6):265-268. 1967. 41.8 V6439
- 72906 HAYES, F. A. Foreign and emergency disease surveillance training. *Ga. Vet.* 20(2):22-23. Mar./Apr.1968. 41.8 G29
- 72907 HELD, J. R., TIERKEL, E. S., and STEELE, J. H. Rabies in man and animals in the United States, 1946-65. *Public Health Rep.* 82(11):1009-1018. Ref. Nov.1967. 151.65 P96
- 72908 HILL, J. L. The rabies pre-exposure immunization program at Tuskegee Institute. *Tuskegee Vet.* 12(1):16-17. Fall/Winter 1968. 41.8 T87
- 72909 HOLMAN, J. Electron microscopy and possibilities of its methodic use in veterinary medicine. (Cz) *Veterinarstvi* 17(6):273-276. 1967. 41.8 V6439
- 72910 HUGHES, W. H. New Animals Act has streamlined legislation to meet modern age. *New Zealand J. Agr.* 116(4):46-48. Apr.1968. 23 N48J  
Livestock disease legislation.
- 72911 HUTT, F. B. Genetic defects of bones and joints in domestic animals. *Cornell Vet.* 58 (sup.):104-113. Ref. Jan.1968. 41.8 C81
- 72912 IRVIN, A. D. The effect of pH on the multiplication of *Listeria monocytogenes* in grass silage media. *Vet. Rec.* 82(4):115-116. Jan.27, 1968. 41.8 V641  
In relation to listeriosis outbreaks.
- 72913 ITZE, L., and ARENDARCIK, J. On the specific specificity of LH in the urine of certain domestic animals studied by means of serological reactions. (Cz) *Czech. Min. Zemedel. Lesního Hospodar. Ustav Vedeckotech. Inform. Vet. Med.* 41(2):115-120. Ref. Feb.1968. 41.9 C333  
English summary.
- 72914 JOWSEY, J. Age and species differences in bone. *Cornell Vet.* 58(sup.):74-94. Ref. Jan. 1968. 41.8 C81  
Includes discussion.
- 72915 JURETIC, J., and KUCEL, J. Ten years of activity of the Veterinary Station [Veterinarska Stanica] of the city of Zagreb. (Se) *Vet. Glas.* 21(11):915-927. 1967. 41.8 J93
- 72916 KAPRAL, O. Data processing equipment in veterinary hospitals and laboratories. (Cz) *Veterinarstvi* 17(4):173-177. 1967. 41.8 V6439
- 72917 KAS'YANENKO, A. M. Epidemiology of brucellosis in the Dnepropetrovsk Region in the process of complete control. (Rus) *Zh. Mikrobiol. Epidemiol. Immunobiol.* 2:126-131. Feb.1968. 448.3 Z4  
English summary.  
Includes livestock.
- 72918 KIEBURG, D. Kurative und praeventive Tätigkeit eines praktizierenden Tierarztes in der Luneburger Heide unter Berücksichtigung der verschiedenen Tierarten [Curative and preventive activity of some practicing veterinarians in the Luneburger Heide with special emphasis of various animal species]. Hanover. *Tierarztl. Hochsch. Inaug.-Diss.* 13,137 p. Ref. 1967. 41.2 H198
- 72919 KILLICK-KENDRICK, R. The diagnosis of trypanosomiasis of livestock; a review of current techniques. *Vet. Bull.* 38(4):191-197. Ref. Apr.1968. 41.8 T752
- 72920 KLIMOV, N. M., and MALAKHOV, A. G. The use of the AI variant of foot-and-mouth disease virus for vaccine production. (Rus) *Veterinariya* 1:26-28. 1968. 41.8 V6426
- 72921 KNOWLES, J. O. The management of shock. *Norden News* 43(1):22-23. Winter 1968. 41.8 N75
- 72922 KOKURICHEV, P. I. Progress of veterinary pathological anatomy in the USSR. (Rus) *Veterinariya* 1:17-18. 1968. 41.8 V6426
- 72923 KOLESOV, S. G. Control of infectious diseases of livestock in India. (Rus) *Veterinariya* 3:109-111. 1968. 41.8 V6426
- 72924 KONDRAKHIN, I. P. On percutaneous method of animal castration. (Rus) *Veterinariya* 3:66-67. 1968. 41.8 V6426
- 72925 KOZLOWSKI, S. Salmonella dublin—the cause of abortion. (Pol) *Medycyna Weterynaryjna* 24(2):127. Feb.1968. 41.8 M463
- 72926 KUDRYAVTSEV, A. A. The achievements of the Laboratory of Physiology of the All-Union Institute of Experimental Veterinary Medicine. (Rus) *Veterinariya* 1:9-10. 1968. 41.8 V6426
- 72927 KULKARNI, P. E., DESHMUKH, M. J., and CHIDREWAR, R. G. Use of Terramycin intraruminally as an antitympanic agent in ruminant tympany. *Indian Vet. J.* 45(2):162-164. Feb.1968. 41.8 In2  
In cattle, buffaloes, and goats.
- 72928 KUNSTYR, I. Thoughts on the perspectives of veterinary medicine in society. (Cz) *Veterinarstvi* 17(6):281-282. 1967. 41.8 V6439
- 72929 LANZ, H. The veterinary profession—developmental trends and future. (Ge) *Schweiz. Arch. Tierheilk.* 110(2):98-102. Feb.1968. 41.8 Sch9
- 72930 LEIBERMANN, H., and GRALHEER, H. Some physical properties of purified neurotropic foot-and-mouth disease virus. *Acta Virol.* 12 (2):181-183. Mar.1968. 448.3 Ac85
- 72931 LEONG, D., DIAZ, R., and WILSON, J. B. Identification of the toxic component of *Brucella abortus* endotoxin and its labeling with radioactive chromate. *J. Bacteriol.* 95(2):612-617. Ref. Feb.1968. 448.3 J82
- 72932 LETTRE, H. Cell transforming characters of carcinogenic substances. (Ge) *Deut. Vet. Ges. Ber. 7th Congr.*:23-28. 1968. 41.9 D482  
English summary.
- 72933 LETTRE, H. Cell-transforming characters of carcinogenic substances. (Ge) *Zentralbl. Veterinarmed. Reihe B*, 15(1):23-28. Feb.1968. 41.8 Z52  
English summary.
- 72934 LEVINSON, B. M. The veterinarian and mental hygiene. *Pract. Vet.* 2:51-53. Mar./Apr.1968. 41.8 AL5  
Public relations and practice.
- 72935 LINDT, S. Hypervitaminosis D calcinosis in various animals. (Ge) *Wien. Tierarztl. Monatsschr.* 55(3):148-164. Ref. Mar.1968. 41.8 T345  
English summary.



- 72936 LITICHEVSKII, M. I. Improved method of helminthology by dissection and examination of separate organs of vertebrate animals. (Rus) Veterinariya 3:52-54. 1968. 41.8 V6426
- 72937 LOBO, A. A. Mixed vaccine against anthrax and blackleg. (Sp) Gac. Vet. 29(208):509-510. Nov.1967. 41.8 G112
- 72938 LOBO, A. A. Preservation of formol vaccines. (Sp) Gac. Vet. 29(209):561-562. Dec.1967. 41.8 G112
- 72939 LUTSKII, D. YA. Complexmetric method for determination of calcium in blood serum. (Rus) Veterinariya 3:108. 1968. 41.8 V6426
- 72940 LYSEK, H. Biological control of eggs of ascarides in pastures. (Cz) Veterinarstvi 17(6):270-271. 1967. 41.8 V6439
- 72941 MAGILTON, J. H., GETTY, R., and GHOSHAL, N. G. A comparative morphological study of the brachial plexus of domestic animals (goat, sheep, ox, pig, and horse). Iowa State J. Sci. 42(3):245-279. Ref. Feb.1968. 470 Io9
- 72942 MANZIANO, C. F. Speak up for medical research. Vet. Econ. 9(3):21-22. Mar.1968. 41.8 V6458
- 72943 MATTINGLY, S. F. The private practitioner and laboratory animal medicine. Auburn Vet. 24(2):51-55,61. Winter 1968. 41.8 Aul  
Laboratory animal medicine as part of the curriculum of veterinary medicine.
- 72944 MCINTYRE, R. W. Urinalysis; submitting specimens to outside laboratories. Mod. Vet. Pract. 49(4):52-60. Apr.1968. 41.8 N812
- 72945 MEHNERT, O. H. J. Is it really so simple? Critical reflections on the problem: "Adaptation of injections to specific animal conditions." (Ge) Prakt. Tierarzt 49(3):112. Mar.1,1968. 41.8 P882  
In reference to article by H. Brummer.
- 72946 MILLAK, K. History of the veterinary periodical literature. (Pol) Med. Weter. 24(3):186-188. Mar.1968. 41.8 M463
- 72947 MILOSAVLJEVIC, S. Planning necessary number of specialists for the veterinary faculty [Veterinarski Fakultet] at Belgrade. (Se) Vet. Glas. 21(11):909-913. 1967. 41.8 J93
- 72948 MIROCHA, C. J., CHRISTENSEN, C. M., and NELSON, G. M. The toxic products of the metabolism of fungi causing mycotoxicosis. (Pol) Med. Weter. 24(3):129-134. Mar.1968. 41.8 M463
- 72949 MODERN VETERINARY PRACTICE. The question of ethics. Mod. Vet. Pract. 49(4):37-42. Apr.1968. 41.8 N812
- 72950 MODERN VETERINARY PRACTICE. What is a veterinary practice worth? Mod. Vet. Pract. 49(5):29-33. May 1968. 41.8 N812
- 72951 MODIN, V. Simultaneous examination of people and animals for tuberculosis. (Rus) Veterinariya 3:37-38. 1968. 41.8 V6426
- 72952 MORRISON, W. R. The distribution of phospholipids in some mammalian milks. Lipids 3(1):101-103. Ref. Jan.1968. QP751.L5
- 72953 MORRISON, W. R. Fatty acid composition of milk phospholipids. III. Camel, ass, and pig milks. Lipids 3(2):107-110. Ref. Mar.1968. QP751.L5
- 72954 MOUSTAFA, M. S. EL D. M., BERG, R., and TAHER, EL S. Prenatal growth of some organs in the camel (Camelus dromedarius). III. (Ge) Zentralbl. Veterinarmed. Reihe A, 15(2):148-155. Ref. Mar.1968. 41.8 Z5
- 72955 MUSSGAY, M. The tumor problem from the point of view of the virologist. (Ge) Zentralbl. Veterinarmed. Reihe B, 15(1):7-14. Ref. Feb. 1968. 41.8 Z52  
English summary.
- 72956 NAGAHATA, S. Excreta control in animal industry. (Ja) Jap. Vet. Med. Ass. J. 20(6):1-7. June 1967. 41.9 J275
- 72957 NAGY, G., and KORMENDY, B. Evaluation of ABR antigen prepared in fermentor. Acta Vet. [Budapest] 18(1):51-52. 1968. 41.8 Ac83  
Culture of Brucella abortus strains.
- 72958 NAGY, J. G., and TENDERDY, R. P. Antibacterial action of essential oils of Artemisia [tridentata] as an ecological factor. II. Appl. Microbiol. 16(3):441-444. Mar.1968. 444.8 Ap5  
Effects on rumen microorganisms.
- 72959 NICHIPORUK, V. S. Contamination of muscles and internal organs of slaughter animals with Clostridium perfringens. (Rus) Veterinariya 3:94-95. 1968. 41.8 V6426
- 72960 NIZNANSKY, F. Helminthiasis of ruminants and wildlife that endanger the man. (Cz) Veterinarstvi 17(4):151-152. 1968. 41.8 V6439
- 72961 NIZANSKY, F., and others. Hygienic problems of the prevention of brucellosis in the stage of elimination of causes of cattle brucellosis. (Cz) Veterinarstvi 17(4):146-147. 1967. 41.8 V6439  
P. Macuch, V. Krcmery, E. Parrakova, and J. Kruspan, joint authors.
- 72962 OKUNKOV, P. S. On improvement of storage, taking stock and distribution of poisonous and drastic medicines. (Rus) Veterinariya 1:72-73. 1968. 41.8 V6426
- 72963 ORLOV, E. S. A new stage of brucellosis control. (Rus) Veterinariya 1:38-41. 1968. 41.8 V6426
- 72964 OWSEJCZUK, W., and WILCZYNSKI, M. Some problems of animal toxicology on the basis of work of chemico-toxicological laboratory of the Department of Veterinary Hygiene in Bialystok [Zaklad Higieny Weterynaryjnej w Bialystok]. (Pol) Medycyna Weterynaryjna 24(2):86-88. Ref. Feb.1968. 41.8 M463
- 72965 PAPADOPOULOS, O. A., and others. Agar gel diffusion studies of paravaccinia viruses. J. Compar. Pathol. 78(2):219-225. Ref. Apr.1968. 41.8 J82  
P. S. Dawson, R. A. Huck, and P. Stuart, joint authors.
- 72966 PARES PUJALS, J. Iron deficiency and its specific therapy. (Sp) Col. Ofic. Vet. Prov. Barcelona. An. 25(284):63-80. Ref. Feb.1968. 41.9 C67
- 72967 PARIZEK, M. Some notions on the role of healthy livestock in the breeding. (Cz) Veterinarstvi 17(4):177-180. 1967. 41.8 V6439
- 72968 PARODI, M. On the application of a method for the measurement of urea nitrogen in veterinary medicine. (It) Veterinaria [Milano] 17(1):32-37. Jan./Feb.1968. 41.8 F6499  
Use of the Urastrat in blood examination.
- 72969 PELEVIN, I. P. The screen to prevent the spread of foot-and-mouth disease was established in this way. (Rus) Veterinariya 1:24-25. 1968. 41.8 V6426
- 72970 PODDUBSKII, I. V. The investigation trends in the field of eradication of animal infectious diseases. (Rus) Veterinariya 1:11-12. 1968. 41.8 V6426
- 72971 POLATCNICK, J., and BACHRACH, H. L. Ionizing irradiation [cobalt-60] of foot-and-mouth disease virus and its ribonucleic acid. Arch. Gesamte Virusforsch. 23(1/2):96-104. 1968. 448.3 Ar23
- 72972 POLOZ, D. D. The achievements of the Laboratory of Pharmacology and Toxicology, All-Union Institute of Experimental Veterinary Medicine. (Rus) Veterinariya 1:63-64. 1968. 41.8 V6426
- 72973 POPLAUKIN, S. G., EPIFANOV, G. F., and SHALASHOV, L. V. On duration of viral persistence in the blood of animals which were affected with foot-and-mouth disease. (Rus) Veterinariya 3:34-35. 1968. 41.8 V6426
- 72974 PROBSTMEYER, F., and SHECHMEISTER, I. L. A comparative study of vesicular stomatitis virus and its plaque type mutant. Arch. Gesamte Virusforsch. 23(1/2):79-88. 1968. 448.3 Ar23

- 72975 PSCHIEDT, G. R. Comparative aspects of selected psychoactive compounds; biogenic amines, monoamine oxidase, inhibitors, and lysergic acid diethylamide. *Compar. Biochem. Physiol.* 24(1):249-265. Ref. Jan.1968. 444.8 C73  
Includes effects on livestock nervous system.
- 72976 RADER, W. A. Magnesium deficiency syndromes. *Mod. Vet. Pract.* 49(4):69-71. Ref. Apr.1968. 41.8 N812
- 72977 REGOS, GY. Investigations on the effectiveness of anthrax vaccines. (Hu) *Magyar Allatorv. Lapja* 23(3):143-146. Mar.1968. 41.8 V644  
English summary.
- 72978 REID, J. Origin of the 1967-68 foot-and-mouth disease epidemic. *Vet. Rec.* 82(10,sup.14):286-287. Mar.1968. 41.8 V641  
In Great Britain.
- 72979 RUSS, G. Phosphor-Resorptionsbestimmungen beim Wiederkauer mit Hilfe der Isotopenverdünnungsmethode [Phosphorus resorption determination of the ruminant with the aid of isotope dilution method]. Munich. Univ. Tierarztl. Fak. [Inaug.-Diss.] 44,67 p. Ref. 1967. 41.2 M9222  
English summary.
- 72980 RUTTER, T. E. G. Diseases of camels. 2. Protozoal diseases. *Vet. Bull.* 37(9):611-618. Sept.1967. 41.8 T752  
Review of the literature.
- 72981 SANFORD, J. The significance of histamine in some animal diseases. *Vet. Rev.* 19(3):64-60. Ref. Apr.1968. 41.8 V6466  
In animal physiology and as an agent of disease.
- 72982 SCHOLE, J. Biochemistry of malignant growth. (Ge) *Deut. Vet. Ges. Ber. 7th Congr.*:47-50. 1968. 41.9 D482  
English summary.
- 72983 SCHOLE, J. Biochemistry of malignant growth. (Ge) *Zentralbl. Veterinarmed. Reihe B*, 15(1):47-50. Feb.1968. 41.8 Z52  
English summary.
- 72984 SERRANO TOME, V. Veterinary medicine and its masters. 26. John Gamgee or tenacity conquered. (Sp) *Veterinaria [Madrid]*, 33(1):24-27; (2):83-85. Jan.-Feb.1968. 41.8 V6429
- 72985 SHERIHA, G. M., and others. Composition of bile acids in ruminants. *Lipids* 3(1):72-78. Ref. Jan.1968. QP751.L5  
G. R. Waller, T. Chan, and A. D. Tillman, joint authors.
- 72986 SIEGEL, E. T. Effect of hormones on bone. *Cornell Vet.* 58(sup.):95-103. Ref. Jan.1968. 41.8 C81
- 72987 SINGH, R., and GUPTA, I. Gallamine triethiodide in conscious animals. *Indian Vet. J.* 45(1):54-60. Ref. Jan.1968. 41.8 In2
- 72988 SIRCA, B., and others. Some epidemiological and laboratory aspects of leptospirosis and brucellosis in the Crisana region during 1962-1966. (Rum) *Microbiol. Parazitol. Epidemiol.* 13(1):59-65. Jan./Feb.1968. 448.3 M584  
V. Merca, E. Blassy, and G. Riznicu, joint authors.  
Transmitted to man by livestock.
- 72989 SKALKKA, B. Study of growth properties of *Mycoplasma* varieties in bouillon culture medium. (Cz) *Czech. Min. Zemedel. Lesniho Hospodar. Ustav Vedeckotech. Inform. Vet. Med.* 40(6):321-330. Ref. June 1967. 41.9 C333
- 72990 SOKOLOVA, L. M. Inventions and rationalization in veterinary medicine. (Rus) *Veterinariya* 3:19-22. 1968. 41.8 V6426
- 72991 STEPANOVA, N. I. CFT (complement fixation test)—a method of diagnosis and differentiation of blood parasites. (Rus) *Veterinariya* 1:55-56. 1968. 41.8 V6426
- 72992 STIFEL, F. B., VETTER, R. L., and ALLEN, R. S. Relationship between calcium and magnesium binding to fraction I chloroplast protein and bloat. *J. Agr. Food Chem.* 16(3):500-504. Ref. May/June 1968. 381 J8223  
In ruminants.
- 72993 STONE, S. S., and SHIFRINE, M. Comparative studies of antigens from *Mycoplasma mycoides* and *Escherichia coli*. *J. Bacteriol.* 95(4):1254-1259. Ref. Apr.1968. 448.3 J82  
In livestock.
- 72994 SWIERENGA, S. H., and BASRUR, P. K. DNA synthesis in normal and neoplastic lymphocytes of domestic animals. *Cornell Vet.* 58(2):292-304. Ref. Apr.1968. 41.8 C81  
For diagnosis purposes.
- 72995 SYMPOSIUM ON SKIN DISEASES OF DOMESTIC ANIMALS. [Papers.]. I-III. *Vet. Rec.* 82(8):204-224. Ref. Feb.1968. 41.8 V641  
Skin manifestations of allergic response in domestic animals, by G. S. Walton; II, Skin disease, mycological origin, by G. A. Pepin and P. K. C. Austwick; III, the parasitic aspect of skin diseases, by J. C. Wood.  
Includes discussion.
- 72996 SZIDAT, L. The connection between sunspot cycles and mass mortality among vertebrates and invertebrates due to parasitic activity. (Ge) *Z. Parasitenk.* 30(1):1-17. Ref. Jan.9, 1968. 442.8 Z33F  
English summary.  
Includes livestock.
- 72997 TAKACS, J. Behavior of *Salmonella* causing specific animal paratyphoid in lysine-decarboxylase test. *Acta Vet. [Budapest]* 18(1):19-22. Ref. 1968. 41.8 Ac83  
Ninhydrin test synonymous to LDC.
- 72998 TERESHKOV, F. G. Training of scientific workers at the All-Union Institute of Experimental Veterinary Medicine. (Rus) *Veterinariya* 1:105-106. 1968. 41.8 V6426
- 72999 TOLLEY, R. C. The \$100,000 hospital—and how to attain it. *Vet. Econ.* 9(4):52-54,56,58, 60. Apr.1968. 41.8 V6458
- 73000 TOMESCU, V. Sewage potentially spreading *Salmonella*. (Rum) *Rev. Zootech. Med. Vet.* 18(2):40-45. Ref. Feb.1968. 49 P943
- 73001 U. S. AGRICULTURAL RESEARCH SERV. *Salmonella* in livestock and poultry, procedure for submitting requests for laboratory report for *Salmonella* serotyping. U. S. Agr. Res. Serv. ARS 91-48-5,12 p. Sept.1967. A41.9 R315Ar
- 73002 U. S. AGRICULTURAL RESEARCH SERV. ANIMAL DISEASE AND PARASITE RESEARCH DIV. BELTSVILLE PARASITOLOGICAL LABORATORY. Index-catalogue of medical and veterinary zoology, supplement 16, part 4, parasite-subject catalogue. Parasites: Nematoda and Acanthocephala, by D. B. Segal, J. M. Humphrey, S. J. Edwards, and M. D. Kirby, Washington, 1967. 209 p. 1 An5Ind
- 73003 U. S. AGRICULTURAL RESEARCH SERV. ANIMAL HEALTH DIV. Questions and answers on keeping screwworms [*Cochliomyia hominivorax*] out of the United States. U. S. Agr. Res. Serv. ARS 91-61,8 p. Apr.1967. A41.9 R315Ar  
Pest of livestock.
- 73004 U. S. AGRICULTURAL RESEARCH SERV. PERSONNEL DIV. Opportunities for doctors of veterinary medicine in USDA. U. S. D. A. Misc. Publ. 1014, slightly rev., 4 p. Sept.1967. 1 Ag84M
- 73005 U. S. CONGRESS. HOUSE. COMMITTEE ON INTERSTATE AND FOREIGN COMMERCE. Animal drug amendments of 1965. Hearings—eighty-ninth Congress, second session on H.R. 7655, H.R. 7797, H.R. 7815, H.R. 8377, H.R. 9542 bills to protect the public health by amending the Federal Food, Drug, and Cosmetic Act to consolidate certain provisions assuring the safety and effectiveness of new animal drugs, and for other purposes, June 13, 1966. Washington, 1966. 75 p. PREP 1127
- 73006 U. S. CONGRESS. HOUSE. COMMITTEE ON INTERSTATE AND FOREIGN COMMERCE. Animal drug amendments of 1967. Hearings—Ninetieth Congress, first session on H.R. 3639 a bill to protect the public health by amending the Federal Food, Drug, and Cosmetic Act to consolidate certain provisions assuring the safety and effectiveness of new animal drugs, and for other purposes. Washington, 1967. 66 p. PREP 1974



- 73007 U. S. CONGRESS. HOUSE. COMMITTEE ON INTERSTATE AND FOREIGN COMMERCE. Construction of veterinary medical education facilities. Hearings—Eighty-ninth Congress, second session on H.R. 490, H.R. 3348 bills to authorize a three-year program of grants for construction of veterinary medical education facilities, and for other purposes (and similar bills), April 20, 1966. Washington, 1966. 137 p. PREP 1156
- 73008 URSINY, J., and GROCH, L. A contribution to current problems of mycotoxicosis of livestock and its treatment. (Cz) Czech. Min. Zemedel. Lesniho Hospodar. Ustav Vedeckotech. Inform. Vet. Med. 40(6):311-320. Ref. June 1967. 41.9 C333  
English summary.
- 73009 VETERINARKALENDER [Veterinary calendar], 1968. Norrköping, 1968. 138 p. 41.8 V6442
- 73010 VODRAZKA, J., VRBA, C., and POLAKOVA, M. Perspectives of veterinary pharmacology. (Cz) Veterinarstvi 17(6):269. 1967. 41.8 V6439
- 73011 VSESOYUZNYI INSTITUT EKSPERIMENTAL'NOI VETERINARI. The fiftieth anniversary of the All-Union Institute of Experimental Veterinary Medicine. (Rus) Veterinariya 1:4-8. 1968. 41.8 V6426
- 73012 WAGENAAR, G. What will the near future bring? (Du) Tijdschr. Diergeneesk. 93(7):415-421. Apr.1,1968. 41.8 T431  
English summary.  
Employment opportunities for veterinarians.
- 73013 WAKRZKIEWICZ, K. Modern views on the pathogenesis of Candida infection. I. The role of antibiotics. (Pol) Med. Weter. 24(3):143-145. Ref. Mar.1968. 41.8 M463
- 73014 WASILEWSKI, J. Polish silicic drugs. (Pol) Medycyna Weterynaryjna 24(2):78-79. Ref. Feb.1968. 41.8 M463  
Russian summary.
- 73015 WEBER, W. J. Ethylene oxide sterilization. Mod. Vet. Pract. 49(6):76-77. May 1968. 41.8 N812  
Used for sterilization of surgical instruments.
- 73016 WEBSTER, A. J. F., and HICKS, A. M. Respiration apparatus for the determination of the energy expenditure of livestock in cold environments. Can. J. Anim. Sci. 48(1):89-92. Apr. 1968. 41.8 C163
- 73017 WEISS, E. The formal genesis of leucosis and tumours of the reticulo-endothelial system in the ox, dog and cat. (Ge) Zentralbl. Veterinarmed. Reihe B, 15(1):151-155. Feb.1968. 41.8 Z52  
English summary.
- 73018 WHITE, E. G. Controlling the spread of animal diseases. Span 11(1):3-6. 1968. 464.8 Sp2
- 73019 WHITLOCK, R., and MONTAGUE, D. The cattle plague and its aftermath. Agr. Merchant 48(3):50-51,53-55,57-60,63. Mar.1968. 10 Ag89  
Foot-and-mouth disease in Great Britain.
- 73020 WILD, T. F., MARTIN, S. J., and BROWN, F. A study of the heterogeneous 37s ribonucleic acid induced by foot-and-mouth disease virus. Biochem. J. 107(3):395-401. Ref. Apr.1968. 382 B52
- 73021 WILLIAMS, F. L. Radiographic procedures. Mod. Vet. Pract. 49(5):45-54. May 1968. 41.8 N812
- 73022 WILLIAMSON, S. Your hospital and your image. Vet. Econ. 9(4):43-44,46,48. Apr.1968. 41.8 V6458
- 73023 WINTERHALTER, M. Veterinary medicine and tourism. (Se) Vet. Glas. 21(4):323-326. 1967. 41.8 J93
- 73024 YUDIN, G. A. Organization of laboratory investigations for diagnosis of animal tuberculosis. (Rus) Veterinariya 3:100-102. 1968. 41.8 V6426
- 73025 ZIMMERMANN, T. Demonstration of rabies virus antigen with the immunofluorescence method in routine diagnosis. (Ge) Deut. Tierarztl. Wochenschr. 75(4):91-95. Ref. Feb.15,1968. 41.8 D482  
English summary.
- 73026 ZUBETS, A. M. Determination of typical persistence of Mycobacterium tuberculosis. (Rus) Veterinariya 3:23-24. 1968. 41.8 V6426  
Transmission of human tuberculosis to animals.

## MISCELLANEOUS

- 73027 BUTLER, O. D. Will fairs adapt to future livestock trends? Cattleman 54(11):35,48,50,52. Apr.1968. 49 C29
- 73028 CANADIAN NATIONAL LIVE STOCK RECORDS. Sixty-third annual report of the Record Committee. Ottawa, 1968. 64 p. 49.9 C163
- 73033 CHANDAN, R. C., PARRY, R. M., and SHAHANI, K. M. Lysozyme, lipase, and ribonuclease in milk of various species. J. Dairy Sci. 51(4):606-607. Ref. Apr.1968. 44.8 J822
- 73034 DANILOVA, A. K., and others. Zoohygienic evaluation of different types of peat used for litter. (Rus) Veterinariya 3:88-91. 1968. 41.8 V6426  
M. S. Naidenskii, I. S. Shpits, and Yu. I. Plotinskii, joint authors.
- 73035 GREAT BRITAIN. NATIONAL AGRICULTURAL ADVISORY SERV. BOXWORTH EXPERIMENTAL HUSBANDRY FARM. Farm guide, 1968. Boxworth, Cambridge, 1968. 55 p.,map. 49.9 G793
- 73036 GREAT BRITAIN. NATIONAL AGRICULTURAL ADVISORY SERV. ROSEMAUND EXPERIMENTAL HUSBANDRY FARM. Farm guide, 1968. Preston Wynne, Hereford, 1968. 52 p.,map. 49.9 G797
- 73037 HARDOUIN, J. Identification of animals. Ann. Med. Vet. 112(2):125-151. (Cont.) Mar.1968. 41.8 An78  
Methods used in various countries.
- 73038 HOWELL, D. E., and GOODHUE, L. D. Faunatrol, a new chemical livestock repellent. Agr. Chem. 23(4):27-28,30-31. Apr.1968. 381 Ag8

- 73044 KOMAROV, N. M., and SEMENYUTA, A. T. Investigations in the field of farm animal hygiene. (Rus) Veterinariya 1:89-92. 1968. 41.8 V6426
- 73045 LEONT'EV, A. K. For sanitary safeness of animal raising farms. (Rus) Veterinariya 3:92-93. 1968. 41.8 V6426
- 73046 NEGRUTIU, T., and others. Aspects of animal raising in the Federal Republic of Germany. (Rum) Rev. Zootch. Med. Vet. 18(3):82-88. Mar.1968. 49 P943
- 73047 V. Camarasan, E. Breteanu, S. Timariu, M. Bejan, joint authors. RUSSELL, G. E. An encyclopedia in little. Vet. Rev. 19(3):47-49. Apr.1968. 41.8 V6466
- 73048 SAMVIRKENDE JYDSKE HUSMANDSFÖRENINGER. HUSDYRBRUGSUDVALGET. Husdyrbruget [Animal husbandry]. 1967. Aarhus, 1968. 236 p., map. 43.9 Sa42
- 73049 STEVENSON, D. E. Studying animal behavior. Span 11(1):63. 1968. 464.8 Sp2
- CATTLE**
- Breeds and Breeding
- 73050 ALBAUGH, R. Science roundup: bulls vs. steers for beef. Calif. Cattleman 51(2):19. Feb.1968. 43.8 C12
- 73051 AMERICAN GUERNSEY CATTLE CLUB. The performance register. Volume XXI; data from January 1, 1967 to January 1, 1968. Peterborough, New Hampshire, 1968. 605 p. 43.9 Am33P
- 73052 ASCHAFFENBURG, R., SEN, A., and THOMPSON, M. P. Genetic variants of casein in Indian and African Zebu cattle. Compar. Biochem. Physiol. 25(1):177-184. Ref. Apr.1968. 444.8 C73
- 73053 AUGHEY, E., and RENTON, J. P. Abnormal spermatozoa in a Ayrshire bull. Vet. Rec. 82(5):129-131. Feb.3,1968. 41.8 V641
- 73054 BARTHA, R. Breeding Zebu-Azaouak young animals in the Sahel region with improved fodder. (Ge) Berliner Munchener Tierarztl. Wochenschr. 81(8):155-159. Apr.15,1968. 41.8 B45
- 73055 BASOVSKII, N. Z., and FEDOROVA, M. R. Variability and production heredit of the Black Pied Lowland cattle. (Rus) Zhivotnovodstvo 2: 28-30. Feb.1968. 49 Z6
- 73056 BAWA, M. S. SHARMA, R. D., and SHARMA, R. K. Fertility level of Hariana bulls. Indian Vet. J. 45(1):40-46. Ref. Jan.1968. 41.8 In2
- 73057 BERTRAND, M. Sterility in domestic animals. (Fr) Rev. Elevage 43:39-40,43-44,37-48,51-54. 1968. 49 B462
- 73058 BODISCO, V. Care and reproduction. (Sp) Rev. Vet. Venezolana 24(138):3-38. Ref. Jan.31,1968. 41.8 R3226
- 73059 BONELLI, P. The improvement of dairy cattle in Sardinia. (It) Riv. Zootec. 41(1):8-13. Jan. 1968. 49 R52
- 73060 BROWN, C. J., ROUSSEL, J. D., and STALLCUP, O. T. Observations of a "founder-like" anomaly in a group of Hereford cattle. Ark. Agr. Exp. Sta. Bull. 724, 18 p. Ref. May 1967. 100 Ar42
- 73061 CALINESCU, E. Progeny tests for beef output under different cattle breeding conditions. (Rum) Rev. Zootch. Med. Vet. 18(2):25-32. Ref. Feb.1968. 49 P943
- 73062 CARNAHAN, D. L., and others. Hip dysplasia in Hereford cattle. Amer. Vet. Med. Ass. J. 152(8):1150-1157. Ref. Apr.1968. 41.8 AM3
- 73063 COLORADO. AGRICULTURAL EXPERIMENT STATION. 19th annual Beef Cattle Improvement Day & Auction. Colo. Agr. Exp. Sta. Gen. Ser. 869, 19 p. Apr.1968. 100 C71G
- 73064 COMBERG, G., MEYER, H., and WEFERLING, K. G. Comparative fattening experiments on heifers of German and Dutch-and-White cattle and crosses between Black-and-Whites and Yellow cattle. (Ge) Zuchtungskunde 40(1):18-26. Jan./Feb.1968. 49 Z8
- 73065 COOPER, D. W., and RENDEL, J. Incomplete family data, selection and population studies of transferrins and blood groups in cattle. Heredity 23(1):49-66. Ref. Feb.1968. 443.8 H42
- 73066 DALTON, D. C. British beef breeders prepare for the challenge. New Zeal. J. Agr. 116(3):42-43. Mar.1968. 23 N48J
- 73067 BARRY, M. R. Acorn calves, a congenital abnormality. Agr. Gaz. New S. Wales 78(5):281-286. May 1967. 23 N472
- 73068 DENMARK. STATENS HUSDYRBRUGSUDVALG. Afkomsprover med tyre [Progeny testing of bulls]. XXII. Kobenhavn, 1968. 255 p. 104 D41
- 73069 EMEL'YANOV, S. A. Vologda State Agricultural Experiment Station [Vologodskaya Gosudarstvennaya Sel'skokhozyaistvennaya Opytnaya Stantsiya]. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 1:121-125. 1968. 20 V633
- 73070 GASPERSKI, J., and STEVENS, R. W. C. Bovine serum amylase isozymes in several breeds of domestic cattle. Can. J. Genet. Cytol. 10(1): 148-151. Mar.1968. 443.8 C16
- 73071 GOLIKOV, A. V., BATYUTA, N. V., and GASHKOV, G. E. Bacteriological diagnosis of vibriosis of sire bulls. (Rus) Veterinariya 3:105-107. 1968. 41.8 V6426
- 73072 GUAY, P., and others. Experimental urethrotomy in the bull. (Fr) Econ. Med. Anim. 9(1): 19-25. Jan./Feb.1968. 41.8 Ec7
- 73073 HANSET, R. Economic aspects of the testing programs of bulls for artificial insemination. (Fr) Ann. Med. Vet. 112(2):57-83. Mar.1968. 41.8 An78
- 73074 HARADA, T., and others. Field tests of artificial insemination with frozen semen on cows with history of reproductive disorders. (Ja) Jap. Vet. Med. Ass. J. 20(6):8-12. Ref. June 1967. 41.9 J275
- 73075 HENDERSON, J. S. Carcass is what counts and Charolais win them. Fla. Cattleman Livestock J. 32(4):30,32. Jan.1968. 43.8 F66
- 73076 HOHENBOKEN, W. D., MANGUS, W. L., and BRINKS, J. S. Most probable producing ability as a tool in beef cattle improvement. Colo. Agr. Exp. Sta. Gen. Ser. 869:11. Apr.1968. 100 C71G
- 73077 HORVATH, S. Agriculture of Switzerland; specialized cattle breeding. (Hu) Magyar Mezőgazdasag 23(5):22-23. Jan.31,1968. 19 M27
- 73078 IRIKIN, V. F. Prophylaxis of cow sterility during housing period. (Rus) Veterinariya 1: 83-85. 1968. 41.8 V6426
- 73079 IVANOV, G. I. Reproductive ability of cows in relation to their blood groups. (Rus) Zhivotnovodstvo 2:48-50. Feb.1968. 49 Z6
- 73080 JOSZT, B. Electrocardiography in healthy Holstein-Friesian cattle. (Pol) Medycyna Weterynaryjna 24(2):79-82. Ref. Feb.1968. 41.8 M463
- 73081 KANEKO, J. J., and others. Iron metabolism in familial polycythemia of Jersey calves. Amer. J. Vet. Res. 29(5):949-952. Ref. May 1968. 41.8 Am3A
- J. Zinki, B. C. Tennant, and D. R. G. Mattheuws, joint authors.



- 73082 KARLOV, V. N. Practical and theoretical measures of controlling sterility in cows. (Rus) *Zhivotnovodstvo* 2:51-53. Feb.1968. 49 Z6
- 73083 KIEFFER, N. M., and CARTWRIGHT, T. C. Sex chromosome polymorphism in domestic cattle. *J. Hered.* 59(1):35-36. Ref. Jan./Feb. 1968. 442.8 Am3
- 73084 KIRKBRIDE, C. A., and NOORDSY, J. L. An esophageal hiatus hernia in a bull. *Amer. Vet. Med. Ass. J.* 152(7):996-998. Apr.1,1968. 41.8 Am3  
Surgery.
- 73085 KODAGALI, S. B., and KERUR, V. K. Gonadal hypoplasia in Gir cattle. *Indian Vet. J.* 45(2): 114-118. Ref. Feb.1968. 41.8 In2
- 73086 LEGATES, J. E. Consider each cow mating with care. *Hoard's Dairyman* 113(8):517,530. Apr.25,1968. 44.8 H65
- 73087 LEIPOLD, H. W., and HUSTON, K. Incomplete albinism and heterochromia irides in Herefords. *J. Hered.* 59(1):3-8. Ref. Jan./Feb. 1968. 444.8 Am3
- 73088 LOUCA, A., and LEGATES, J. E. Production losses in dairy cattle due to days open. *J. Dairy Sci.* 51(4):573-583. Ref. Apr.1968 44.8 J822
- 73089 LUNGU, V., and others. Studies on ova semen sterilization for *Trichomonas* with dry-ice and fluid nitrogen. (Rum) *Rev. Zootech. Med. Vet.* 18(2):58-66. Feb.1968. 49 P943  
N. Andrei, C. Constantinescu, and E. Deleanu, joint authors.  
English summary.
- 73090 MANASYAN, A. O. Prophylaxis of cow sterility. (Rus) *Veterinariya* 1:81-83. 1968. 41.8 V6426
- 73091 MARTIN, and others. The economic and organization picture of dairy cattle breeding on the "Tomnatic" agricultural cooperative of production. (Rum) *Rev. Zootech. Med. Vet.* 18(2):9-14. Feb.1968. 49 P943  
I. V. Martin, N. Moisuc, and V. Abrudan, joint authors.
- 73092 MEDVEDEV, G. F., and KURCHEVSKII, N. P. On reproductive performance of cows. (Rus) *Veterinariya* 3:74-76. 1968. 41.8 V6426
- 73093 MORROW, D. L., and BRINKS, J. S. The effect of season of birth of calf on weaning weights and cow production. *Colo. Agr. Exp. Sta. Gen. Ser.* 869:13-14. Apr.1968. 100 C71G  
Effects of season on subsequent breeding of the dam.
- 73095 NORTHERN IRELAND. MINISTRY OF AGRICULTURE. Care and management of breeding bulls. Northern Ireland. Min. Agr. Adv. Serv. Leaflet 61,12 p. Jan.1968. 10 N81
- 73094 MULLER, W., LEIPNITZ, C., and STRAUCH, D. Translocation experiment of *Serratia marcescens* by semen stored in liquid nitrogen. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 81(4):64-66. Feb.15,1968. 41.8 B45  
English summary.  
From bull sperm.
- 73096 OSTASHKO, F. I., VAKULENKO, I. S., and CHIRKOV, V. A. Results of application of the mano-cervical method for insemination of cows, on the wide-scale. (Rus) *Zhivotnovodstvo* 2:60-62. Feb.1966. 49 Z6
- 73097 PILLA, A. M. Aptitude and genetic improvement. (It) *Ital. Agr.* 105(1):53-58. Jan.1968. 16 It1  
Cattle.
- 73098 POPE, L. S. Performance testing is proven aid. *Fla. Cattleman Livestock J.* 32(4):68-72. Jan.1968. 43.8 F66  
Of bulls.
- 73099 PROCE, J. M. DE. A happy beginning for the Board of Cattle Breeding of Vendee [Maison de l'Elevage de la Vendee]. (Fr) *Rev. Elevage* 23(4):35-36. Apr.1968. 49 B462
- 73100 RADEMACHER, R., and KRAUS, J. The morphological part of a study of the hematological key for the diagnosing of leukosis in Red Spotted cattle in Czechoslovakia. (Cz) *Czech. Min. Zemedel. Lesniho Hospodar. Ustav Vedeckotech. Inform. Vet. Med.* 41(2):83-90. Ref. Feb.1968. 41.9 C333  
English summary.
- 73101 RAHNFIELD, G. W. Future beef industry expansion tied to genetic improvement. *Feedlot* 10 (3):58-60,68. Mar.1968. 43.8 F32
- 73102 RICHARDSON, G. L., and BRINKS, J. S. Effect of selection for growth rate on carcass traits. *Colo. Agr. Exp. Sta. Gen. Ser.* 869:12. Apr. 1968. 100 C71G  
Beef cattle.
- 73103 RITTMANNSPERGER, F., MULLER, E., and SZILAGYI, J. Serving capacity, fattening characters and carcass quality in young bulls of Highland cattle breeds. (Ge) *Zuchtungskunde* 40(1):27-33. Jan./Feb.1968. 49 Z8  
English summary.
- 73104 RUBAN, YU. D. Desirable type of the Simmental cattle in the Ukraine and the problems of their hereditary characteristics. (Rus) *Zhivotnovodstvo* 2:37-40. Feb.1968. 49 Z6
- 73105 RUDILOV, A. G. Recto-cervical method of insemination of cows and heifers. (Rus) *Zhivotnovodstvo* 2:62-64. Feb.1968. 49 Z6
- 73106 SABADEANU, P. Economic efficiency of beef and milk output on large-scale units. (Rum) *Rev. Zootech. Med. Vet.* 18(2):15-24. Ref. Feb. 1968. 49 P943  
English summary.  
Chiefly breeding costs.
- 73107 SAJONSKI, H., and SMOLLICH, A. Karyometric study of Leydig's interstitial cells of the testes by Rosenberger method sterilized and Baiburttsyan method of partially castrated bulls. *Acta Vet. [Budapest]* 18(1):31-37. 1968. 41.8 Ac83
- 73108 SASIN, M. I. Effect of selection on the yields of milk. (Rus) *Zhivotnovodstvo* 2:30-32. Feb. 1968. 49 Z6
- 73109 SCHWARZ, C. Untersuchungen uber die Beziehungen zwischen verschiedenen Jahresleistungen derselben Kuhe beim bayerischen Hohenfleckvieh [Investigations on the relations between yearly performance differences of the same cows of Bavarian Spotted Mountain cattle. Munich. Univ. Tierarztl. Fak. [Inaug.-Diss.] 47,49 p. Ref. 1967. 41.2 M9222  
Milk production.
- 73110 SINGH, S. P., SONI, B. K., and BHATTA-CHARYYA, N. K. Physiological responses in Harijana bullocks while performing different types of agricultural operations. *Indian Vet. J.* 45(1):34-40. Ref. Jan.1968. 41.8 In2
- 73111 SREENAN, J., SCANLON, P., and GORDON, I. Culture of fertilized cattle eggs. *J. Agr. Sci.* 70(2):183-185. Apr.1968. 10 J822
- 73112 STORZ, J., and others. Isolation of psittacosis agent (*Chlamydia*) from semen and epididymis of bulls with seminal vesiculitis syndrome. *Amer. J. Vet. Res.* 29(3):549-555. Ref. Mar. 1968. 41.8 Am3A  
E. J. Carroll, L. Ball, and L. C. Faulkner, joint authors.
- 73113 STUDDT, E. Experiences with urea feeding of young bulls. (Ge) *Tierzuchter* 20(4):116-118. Feb.20,1968. 49 T445
- 73114 SUTTON, R. W., and BRINKS, J. S. Summary of line and linecross performance of bulls. *Colo. Agr. Exp. Sta. Gen. Ser.* 869:15-19. Apr. 1968. 100 C71G
- 73115 TIKHONOV, M. F. Method of fluorescent antibodies for diagnosis of vibriosis under production conditions. (Rus) *Veterinariya* 3:107. 1968. 41.8 V6426
- 73116 TSELISHCHEV, L. I. The prepuce of the bull and ram. (Rus) *Veterinariya* 3:79-80. 1968. 41.8 V6426
- 73117 TURNER, J. W. Crossbreeding beef cattle for the sub-tropics. *Span* 11(1):55-58. 1968. 464.8 Sp2  
In the Gulf Coast region.
- 73118 VAN VLECK, D. The four keys to genetic progress: genetic variation, intensity of selection, accuracy of selection, years per generation. *Dairy Herd Manage.* 4(3):48-51. Mar. 1968. SF191.D3

- 73119 VERENIGING HET NEDERLANDSCHE RUND-VEE-STAMBOEK. Jaarboek. Roodbont [Year-book. Red Pied], 1967. n.p., 1967. 131 p. 43.9 N28  
Table of contents also in English.  
Meuse-Rhine-Yssel.
- 73120 WILCOX, C. J. Performance of first-calf dairy heifers under a limited season early-freshening management system. *J. Dairy Sci.* 51(4):591-594. Apr. 1968. 44.8 J822  
Includes milk yield, length of gestation, and birth weight of calf.
- 73121 ZAYED, I., and GILS, J. H. J. VAN. Myodegeneration in Friesian beef calves. II-III. *Zentralbl. Veterinarmed. Reihe A*, 15(2):89-103. Ref. Mar. 1968. 41.8 Z5
- Feeds and Feeding
- 73122 ADAMS, R. S. How much protein for your cows? *Dairy Herd Manage.* 4(2):33-34, 36. Feb. 1968. SF191.D3
- 73123 ALDER, F. E., and others. The effects of level of nitrogen fertilizer on beef production from grazed perennial-ryegrass/white-clover pastures. 3. An experiment without irrigation. *Brit. Grassland Soc. J.* 23(1):81-87. Mar. 1968. 60.19 B773  
S. J. Cowlshaw, J. E. Newton, and D. T. Chambers, joint authors.
- 73124 ALEKSANDROVA, M. I. Effects of insulin and chloropropamide implantation on fattening of young cattle. (Rus) *Zhivotnovodstvo* 2:75. Feb. 1968. 49 Z6
- 73125 ALEXANDER, G. I. Profit in weaning beef calves at eight months. *Queensland Agr. J.* 94(2):124-125. Feb. 1968. 23 Q33
- 73126 ARMSTRONG, D. G. The amount and physical form of feed and milk secretion in the cow. *Nutr. Soc. Proc.* 27(1):57-65. Ref. Mar. 1968. 389.9 N953
- 73127 BAIA, G., ARISANU, I., and SPULBER, M. Superior turning to good account of urea-supplemented roughages as mixed fodder. (Rum) *Rev. Zootech. Med. Vet.* 18(3):17-22. Ref. Mar. 1968. 49 P943  
English summary.  
Trials with beef cattle.
- 73128 BAKER, L. A. Feed analysis and nutrition. *Vet. Econ.* 9(2):42, 43. Feb. 1968. 41.8 V6458  
Of dairy cattle.
- 73129 BAKER, L. A. Feed analysis and nutrition. II. The specific ration recommendation. *Vet. Econ.* 9(3):54, 56-57, 59. Mar. 1968.  
For dairy cattle.
- 73130 BALDWIN, R. L. Recovery of sick cows depends on refeeding program. *West. Dairy J.* 24(6):12F, 12H. Apr. 1968. 44.8 W524
- 73131 BARTH, K. M., and MOHAMMED, A. S. Evaluation of two in vitro fermentation methods for estimating the nutritive value of mixed rations for beef cattle. *Tenn. Agr. Exp. Sta. Bull.* 430, 18 p. Sept. 1967. 100 T25S
- 73132 BENNE, E. J. Where are the nutrients in alfalfa? *Hoard's Dairyman* 113(9):598. May 10, 1968. 44.8 H65
- 73133 BERTRAND, J. E. Low level use of antibiotics; economic value shown in summaries of tests. *Feedlot* 10(3):28, 30. Mar. 1968. 43.8 F32  
In beef cattle rations.
- 73134 BOWMAN, M. C., and others. A method of analyzing the milk and feces of cows for coumaphos and its oxygen analog after feeding coumaphos for control of house fly larvae. *J. Econ. Entomol.* 61(2):358-362. Ref. Apr. 15, 1968. 421 J822  
M. Beroza, C. H. Gordon, R. W. Miller, and N. O. Morgan, joint authors.
- 73135 BRETH, F. E. Corn with high humidity for dairy cows. (Fr) *Rev. Elevage* 23(4):65. Apr. 1968. 49 B462
- 73136 CHANDLER, P. T., CRAGLE, R. G., and GARDINER, D. A. An investigation of the nutrition of the young dairy calf by response surface techniques. I-II. *Tenn. Agr. Exp. Sta. Bull.* 429, 40 p. Ref. Sept. 1967. 100 T25S  
U. S. Atomic Energy Commission, cooperating.
- 73137 CHOMYSZYN, M. Remarks on the home-made industrial compound feeds for cattle. (Pol) *Nowe Roln.* 17(5):25-28. Mar. 1/15, 1968. 20.5 N86
- 73138 CURTO, G. M., and NIZZOLA, I. The chemical composition of milk; experimental research on feeding the cows with green forage and with concentrates containing high percentages of different grains. (It) *Riv. Zootec.* 41(2):88-103. Ref. Feb. 1968. 49 R52  
English summary.  
Barley and corn.
- 73139 EDWARDS, R. L., and others. A comparison of drylot and supplemented pasture systems for finishing beef cattle. *S. C. Agr. Exp. Sta. Bull.* 537, 36 p. Ref. Feb. 1968. 100 S08  
G. C. Skelley, D. W. Eaddy, W. C. Godley, R. F. Wheeler, J. W. Hubbard, and H. C. Gilham, joint authors.  
U. S. Department of Agriculture, cooperating.
- 73140 ELLZEY, H. D., MORGAN, E. B., and NELSON, B. D. Should bahiagrass be supplemented with millet? *La. Agr.* 11(3):8-9. Spring 1968. 100 L939  
For dairy cattle milk production.
- 73141 FEEDLOT directory—1968. *Calif. Cattleman* 51(4):29-31. Apr. 1968. 43.8 C12
- 73142 GALEEV, V. P. Effects of feeding level on productivity of dairy cattle. (Rus) *Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl.* 129:181-186. 1967. 20 M857
- 73143 HAENLEIN, G. F. W., SCHULTZ, L. H., and HANSEN, L. R. Relation of milk fat-depressing rations and subclinical mastitis to milk proteins. *J. Dairy Sci.* 51(4):535-542. Ref. Apr. 1968. 44.8 J822
- 73144 HIGHT, G. K. Plane of nutrition effects in late pregnancy and during lactation on beef cows and their calves to weaning. *New Zeal. J. Agr. Res.* 11(1):71-84. Ref. Feb. 1968. 23 N4892
- 73145 HINZE, P. M. Does feed influence udder health? *West. Dairy J.* 24(6):12J-12K. Apr. 1968. 44.8 W524
- 73146 HOMER, D. R., and VIRTANEN, A. I. Milk lipase (tributyrylase) in the milk of cows on protein-free feed. *Milchwissenschaft* 23(3):163-166. Ref. Mar. 1968. 44.8 M5933
- 73147 HOWARD, W. T., and others. Least-cost complete rations for dairy cows. *J. Dairy Sci.* 51(4):595-600. Ref. Apr. 1968. 44.8 J822  
J. J. Albright, M. D. Cunningham, R. B. Harrington, C. H. Noller, and R. W. Taylor, joint authors.
- 73148 JOHNSON, R. D., and ECKERT, A. R. Calf system found to be most efficient feeding operation. *Feedlot* 10(3):48, 50, 52-53. Mar. 1968. 43.8 F32
- 73149 KAEMMERER, K., and BOLLMANN, V. Basic toxicological investigations in the ad-libitum feeding of urea-containing scalded scraps. (Ge) *Tierarztl. Umsch.* 23(3):100-102, 105-108. Mar. 1, 1968. 41.8 T445  
Cattle.
- 73150 KARPUGHIN, S., and KASTOEV, M. Using mountain pastures of Chechen-Ingush ASSR more effectively. (Rus) *Ekon. Sel'skogo Khoz.* 2:97-100. 1968. 281.8 S073  
As cattle pastures.
- 73151 KEMP, A. The mineral supply of dairy cattle in pasture time. (Ge) *Z. Tierphysiol. Tierernahr. Futtermittelkunde* 23(5):267-278. Apr. 1969. 389.78 Z3  
English summary.  
Netherlands.
- 73152 KHAJURIA, R. R., and SINGH, K. Studies on the chemical composition and digestibility of sarrien (*Albizia lebbek*) fodder tree leaves. *Indian Vet. J.* 45(1):70-75. Jan. 1968. 41.8 In2  
Trials with cattle.
- 73153 KNESL, K. Synthetic feed in feeding cattle. (Cz) *Veterinarstvi* 17(4):165-168. 1967. 41.8 V6439



- 73154 KROLICZEK, A., KWIATKOWSKI, T., and PRES, J. The influence of potassium on the activity of sodium, magnesium, calcium and P-inorganic ions in serum of young fattening cattle fed with large doses of silage of sugar beet leaves. (Pol) *Medycyna Weterynaryjna* 24(2): 82-84. Ref. Feb.1968. 41.8 M463  
French summary.
- 73155 LADRAT, J., and JOUSSELLIN, W. The use of powdered milk serum in nursing beef calves. (Fr) *Acad. Vet. France, Bull.* 41(2):57-65. Ref. Feb.1968. 41.9 R24
- 73156 LANCE, G. C. Selected production practices for growing cattle to market weight in various areas of the Southeast. *Ga. Agr. Exp. Sta. Res. Bull.* 15,27 p. Ref. Sept.1967. S51.E2 Feeding.
- 73157 LOGAN, V. S., FISHER, L. J., and HAYDEN, P. S. Effect of variety of ensiled corn and hay supplementation on milk production. *Can. J. Anim. Sci.* 48(1):41-46. Ref. Apr.1968. 41.8 C163
- 73158 MCCAFFREE, J. D., and MERRILL, W. G. Effects of feeding concentrates to maintain body weight of dairy cows in early lactation. *J. Dairy Sci.* 51(4):561-566. Ref. Apr.1968. 44.8 J822
- 73159 MCCAFFREE, J. D., and MERRILL, W. G. High moisture corn for dairy cows in early lactation. *J. Dairy Sci.* 51(4):553-560. Ref. Apr.1968. 44.8 J822
- 73160 MCCORMICK, W. C., MARCHANT, W. H., and SOUTHWELL, B. L. Coastal bermudagrass & Pensacola bahiagrass hays for wintering beef calves. *Ga. Agr. Exp. Sta. Res. Bull.* 19,10 p. Oct.1967. S51.E2
- 73161 MEADOWCROFT, S. C., and TURNER, P. J. Beef at grass. *Beef Sheep Farming* 5(4):7,9. Apr.1968. 43.8 B392
- 73162 MOORE, J. H., and STEELE, W. Dietary fat and milk fat secretion in the cow. *Nutr. Soc. Proc.* 27(1):66-70. Ref. Mar.1968. 389.9 N953
- 73163 MORRIS, P. Making the best of grass for beef. *Beef Sheep Farming* 5(2):19-21. Feb.1968. 43.8 B392  
A cost analysis in Great Britain.
- 73164 MUFTIC, R., and others. Possibilities of the use of poultry litter in the feeding of cattle. (Se) *Vet. Glas.* 21(12):969-975. Ref. Dec.1967. 41.8 J93  
M. Dzinic, L. Matekalo, and D. Bugarski, joint authors.  
English summary.
- 73165 NADEAU, J. D. The importance of nutritional factors in pathology of reproduction in cattle. (Fr) *Canad. Vet. J.* 9(4):77-84. Ref. Apr. 1968. 41.8 R3224
- 73166 NATH, K., SAHAI, K., and KEHAR, N. D. A note on the effect of lime and calcium carbonate supplementation on the nutritive value of paddy (*Oryza sativa*) straw. *J. Agr. Sci.* 70(2): 169-170. Apr.1968. 10 J822  
For bullocks.
- 73167 NEGI, S. S., and KEHAR, N. D. Utilization of fish byproducts as cattle feed; digestibility and nutritive value of a mixed fishmeal including a shark liver meal. *Indian Vet. J.* 45(2):151-157. Feb.1968. 41.8 In2
- 73168 OWEN, J. B., MILLER, E. L., and BRIDGE, P. S. A study of the voluntary intake of food and water and the lactation performance of cows given diets of varying roughage content ad libitum. *J. Agr. Sci.* 70(2):223-235. Ref. Apr.1968. 10 J822
- 73169 PARDUE, F. Feeding dairy cows in South Carolina. *Clemson Univ. Ext. Dairy Sci. Ext. Leaflet* 1, rev., 8 p.-folder. Jan.1968. 275.29 C593
- 73170 PIERCE, R. T. R. Profitable beef from grass. *Span* 11(1):54. 1968. 464.8 Sp2  
A system developed in Great Britain.
- 73171 PONDANT, A., and others. Growth, gain of weight and volatile fatty acids in young cattle; fattening with diets of dried beet pulps and hay. (Fr) *Ann. Med. Vet.* 112(2):84-124. Mar.1968. 41.8 An78  
C. Van Eenaeme, O. Lambot, J. M. Bienfait, joint authors.  
English summary.
- 73172 RALEIGH, R. J., and TURNER, H. A. 1968 progress report; research in beef cattle nutrition and management. *Oreg. Agr. Exp. Sta. Spec. Rep.* 251, 19 p. Mar.1968. 100 Or3M  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 73173 SENGAR, S. S. A B C of calf nutrition. *Go-samvardhana* 15(12):9-12. Mar.1968. 43.8 G69  
In India.
- 73174 SEXTON, H. G. C. Full circle in cow feeding. *Country Life* [London] 143(3712):1073-1074. Apr.25,1968. 80 C83  
Developments in the last forty years.
- 73175 SLESINGR, L. The influence of the feeding of pomace on the blood count and on certain biochemical indices in experimental fattening of bullocks. (Cz) *Czech. Min. Zemedel. Lesniho Hospodar. Ustav Vedeckotech. Inform. Vet. Med.* 41(2):121-126. Feb.1968. 41.9 C333  
English summary.  
Grape pulp.
- 73176 SOUTHWELL, B. L., and HUGHES, R. H. Beef cattle management practices for burned and unburned pine-wiregrass ranges of Georgia. *Ga. Agr. Exp. Sta. Res. Rep.* 14, 19 p. Oct.1967. S51.E22
- 73177 U. S. AGRICULTURAL RESEARCH SERV. ANIMAL HUSBANDRY RESEARCH DIV. Feeding dairy cattle. U. S. D. A. Farmers' Bull. 2153, slightly rev., 32 p. Feb.1968. 1 Ag84F
- 73178 URBANYI, L. Utilization value of corn silage. (Ge) *Acta Vet. [Budapest]* 17(4):439-442. 1967. 41.8 Ac83  
In cattle feeding.
- 73179 VALLENTINE, J. F., and CLANTON, D. C. Guides for wintering weanling stocker calves. *Nebr. Cattleman* 24(6):36. Feb.1968. 43.8 N27
- 73180 VOLKOV, G. K., and ANDREEV, I. A. The effect of ionized air on food consumption by calves. (Rus) *Veterinariya* 1:92-94. 1968. 41.8 V6426  
In barns.
- 73181 WALLIN, O. Silage as feed for dairy cows. I-II. (Sw) *Nord. Veterinaarmed.* 20(2):86-109. Ref. Feb.1968. 41.8 N813  
English summary.
- 73182 WILLCOCK, J. M. Silage in beef production. *Great Brit. Min. Agr. Fish. Food. Agr.* 75(4): 161-164. Apr.1968. 10 G79J
- 73183 WRIGHT, F. A., and OLESKIE, E. T. New Jersey dairying: Challenge those fresh cows! *Rutgers State Univ. Ext. Leaflet* 434, 4 p. Jan. 1968. 275.29 N46L  
Feeding for increased milk production.
- 73184 ZU ZOLMS, GRAF. Calf fattening investigations. (Ge) *Molkerei-Kaserei-Zeitung* 19(14): 452-456. Apr.3,1968. 44.8 M736  
Whey powder as milk substitute.

#### Veterinary Medicine

- 73185 ABRAMOV, S. S., and GANKOVICH, V. I. Hydroaeroionization for cure of calves affected with bronchopneumonia. (Rus) *Veterinariya* 3:58-59. 1968. 41.8 V6426
- 73186 AFANAS'EV, I. N. Cesarean section in cows. (Rus) *Veterinariya* 3:76-77. 1968. 41.8 V6426
- 73187 BARYSHNIKOV, I., and KAVESHNIKOVA, K. The milk ejection reflex and physiology of mechanical milking. *Int. Dairy Congr. [Proc.]*, 17th Congr. Sect. A:117-122. Ref. 1966. SF223.15 1966 v.1

- 73188 BAUCKS, D. Untersuchungen über den Kalium-, Natrium- und Chloridgehalt des Blutserums bei Kühen und Rindern von der Geburt bis zum neunten Tage post partum [Investigations on potassium, sodium and chloride content in the blood serum of cows and cattle from birth to nine days post partum]. Hanover. Tierarztl. Hochsch. Inaug.-Diss. 6,74 p. Ref. 1967. 41.2 H198
- 73189 BEBARTA, S. C. A survey of bovine tuberculosis in government farms of Orissa State. *Indian Vet. J.* 45(2):170-173. Feb.1968. 41.8 In2  
Includes buffaloes.
- 73190 BERG, R., TAHER, EL S., and MOUSTAFA, M. S. EL D. M. Prenatal growth of some organs in the Egyptian water buffalo (*Bos, Bubalus, bubalus L.*). I. Relations between body weight and body length, heart and lung weight. *Zentralbl. Veterinarmed. Reihe A*, 15(2):143-147. Mar.1968. 41.8 Z5
- 73191 BERMAN, A. Diurnal and seasonal changes in bovine respiratory functions in a subtropical climate. *Australian J. Agr. Res.* 18(5):849-860. Ref. Sept.1967. 23 Au783
- 73192 BERMAN, A. Nychthemeral and seasonal patterns of thermoregulation in cattle. *Australian J. Agr. Res.* 19(1):181-189. Ref. Jan.1968. 23 Au783
- 73193 BERTRAND, M. Abortion in domestic animals. (Fr) *Rev. Elevage* 43:55-56,59-60,63-64,67-68, 71. 1968. 49 B462  
Chiefly cattle.
- 73194 BERUS, M. V., KAPLAN, V. A., and TSUPKOV, V. V. Glucose metabolism and its quantity in cows. (Rus) *Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina. Dokl.* 1:24-27. Ref. Jan.1968. 20 Ak1
- 73195 BHATIA, B. B., and PANDE, B. P. Giant eimerian schizonts in the Indian water-buffalo. *Acta Vet. [Budapest]* 17(4):351-357. Ref. 1967. 41.8 Ac83
- 73196 BINNS, W., and others. Combating rangeland cripplers. *Utah Sci.* 29(1):20-23. Mar.1968. 100 Ut1F  
R. F. Keeler, L. F. James, A. E. Johnson, K. R. Van Kampen, and L. D. Balls, joint authors.  
Plants poisonous to cattle and sheep.
- 73197 BLAKE, J. T. Etiology of brisket disease. *Cornell Vet.* 58(2):305-314. Ref. Apr.1968. 41.8 C81
- 73198 BRAILSFORD, M. D., and HARTMAN, P. A. Characterization of *Streptococcus durans* bacteriophages. *Can. J. Microbiol.* 14(4):397-402. Ref. Apr.1968. 448.8 C162  
Isolated from bovine rumen fluid.
- 73199 BRGLEZ, J., and CERNE, A. Application of Ruelene 25 E in the case of clinically warbled cattle. (Se) *Vet. Glas.* 21(5):407-410. 1967. 41.8 J93  
English summary.  
Hypoderma bovis.
- 73200 BRGLEZ, J. The control of Hypoderma in cattle with neguvon and tiguvon solutions in oil. (Se) *Vet. Glas.* 21(1):29-33. Ref. 1967. 41.8 J93  
English summary.
- 73201 BROOKBANKS, E. O. Steps can be taken to curb mastitis. *New Zeal. J. Agr.* 114(6):62-63, 65. June 1967. 23 N48J  
Cattle.
- 73202 BUCHALSKI, L. Dermaphos a phosphoro-organic preparation for the skin mycosis treatment of cows and horses. (Pol) *Med. Weter.* 24(3):149. Mar.1968. 41.8 M463  
A compound of rapeseed oil and castor oil used for the treatment of ringworm.
- 73203 BUSHNELL, R. B. Diseases causing abortions in cattle. *Calif. Cattleman* 51(3):49. Mar.1968. 43.8 C12
- 73204 BWANGAMO, O. Besnoitiosis and other skin disease of cattle (*Bos indicus*) in Uganda. *Amer. J. Vet. Res.* 29(3):737-743. Ref. Mar. 1968. 41.8 Am3A
- 73205 CALL, J. W., and BLAKE, J. T. A technique for mechanically inducing early embryonic death in cattle. *Cornell Vet.* 58(2):315-320. Ref. Apr.1968. 41.8 C81
- 73206 CALL, J. W., BLAKE, J. T., and DAVIS, R. V. Uterine eosinophilia and serum transaminases in cattle with induced early embryonic death. *Cornell Vet.* 58(2):321-326. Apr.1968. 41.8 C81
- 73207 CAMPBELL, E. A., and WHITE, A. Renal function in heifers. *Australian J. Agr. Res.* 18(5):841-848. Ref. Sept.1967. 23 Au783
- 73208 CANTY, B. J. Ketosis is common in dairy cows. *Queensland Agr. J.* 94(2):128-129. Feb.1968. 23 Q33
- 73209 CARROLL, E. J., THEILEN, G. H., and LEIGHTON, R. L. Immunologic competence of thymectomized neonatal calves. *Amer. J. Vet. Res.* 29(1):67-70. Ref. Jan.1968. 41.8 Am3A
- 73210 CARSON, C. A., and JONES, L. P. Bovine malignant lymphoma. *Amer. Vet. Med. Ass. J.* 152(5):492-495. Mar.1,1968. 41.8 Am3
- 73211 CARTWRIGHT, T. C. Cow size: cow size is an old topic that is currently a hot topic. *Cattleman* 54(12):82. May 1968. 49 C29
- 73212 CAUFIELD, W. Problems of bovine malignant catarrh. *Vet. Rec.* 82(7):192-193. Feb.1968. 41.8 V641
- 73213 CHARTON, A., and others. Experimental infection of new-born calves by a strain of herpesvirus bovis inoculated by air passage. (Fr) *Acad. Vet. France. Bull.* 41(2):69-76. Feb. 1968. 41.9 R24  
A. Parodi, P. Faye, and C. Le Layec, joint authors.
- 73214 CHELI, R. First attempts and results of glucocorticoid treatment for the spastic syndrome in cattle. (It) *Clin. Vet.* 91(1):1-6. Ref. Jan. 1968. 41.8 C61  
English summary.
- 73215 CHRISTIE, T. E., KERR, W. R., and MCCAUGHEY, W. J. Brucellosis eradication in Northern Ireland. *Vet. Rec.* 82(7):176-183. Feb.1968. 41.8 V641  
In cattle.
- 73216 CIAPALA, M. Observations and considerations on the organization of new herd of heifers, bought and transported during the stage of advanced pregnancy. (Pol) *Medycyna Weterynaryjna* 24(2):126. Feb.1968. 41.8 M463
- 73217 CIORDIA, H., and BAIRD, D. M. Anthelmintic efficacy of low-level dosages of Baymix crumbles administered as a feed additive to cattle. *Ga. Vet.* 20(2):9-11. Mar./Apr.1968. 41.8 G29
- 73218 CLARK, R. T., BAKER, A. L., and WHITMORE, G. E. Beef cattle dehorning, castrating, branding, and marking. *U. S. D. A. Farmers' Bull.* 2141, slightly rev., 16 p. Dec.1967. 1 Ag84F
- 73219 COLEGRAVE, A. J. Fascioliasis: Field trials of nitroxynil in cattle. *Vet. Rec.* 82(13):373-376. Mar.1968. 41.8 V641  
4-cyano-2-iodo-6-nitrophenol.
- 73220 COLLINS, T. P. Johne's disease. *New Zeal. J. Agr.* 114(6):18-19. June 1967. 23 N48J
- 73221 CRENSHAW, G. L. Molybdenosis: fact or fiction. *West. Dairy J.* 24(6):13,16. Apr.1968. 44.8 W524
- 73222 CROWE, M. W. Two cases of urea poisoning in dairy herds. *Mod. Vet. Pract.* 49(3):40-41. Mar.1968. 41.8 N812
- 73223 DAVIS, H. E., and DIMOPOULLOS, G. T. Effects of washing with saline solution and normal bovine plasma on the infectivity of *Anaplasma marginale* in erythrocytes. *Amer. J. Vet. Res.* 29(3):763-764. Mar.1968. 41.8 Am3A
- 73224 DELIC, S., and others. Further studies of the effect of different Neguvon preparations on migrating larvae of *Hypoderma bovis*. (Se) *Vet. Glas.* 21(5):401-406. 1967. 41.8 J93  
R. I. Muftic, J. Rukavina, and M. Cankovic, joint authors.  
English summary.
- 73225 DENNISTON, J. C., and others. Spastic paresis syndrome in calves. *Amer. Vet. Med. Ass. J.* 152(8):1138-1149. Ref. Apr.1968. 41.8 Am3  
R. J. Shive, U. Friedli, and W. B. Boucher, joint authors.



- 73226 DOBROWOLSKI, W., STUPNICKA, E., and DOMANSKI, E. Progesterone levels in ovarian venous blood during the oestrous cycle of the cow. *J. Reprod. Fert.* 15(3):409-414. Ref. Apr.1968. 442.8 J8222
- 73227 DODD, K., and NORCROSS, N. L. Group-specific *Streptococcus agalactiae* antibodies in colostrum of first-calf heifers. *Amer. J. Vet. Res.* 29(5):1095-1096. May 1968. 41.8 Am3A
- 73228 DOLININ, G. A. Functional state of the liver in newborn calves. (Rus) *Veterinariya* 3:56-57. 1968. 41.8 V6426
- 73229 DONAWICK, W. J., and BAUE, A. E. Blood gases, Acid-base balance, and alveolar-arterial oxygen gradient in calves. *Amer. J. Vet. Res.* 29(3):561-567. Ref. Mar.1968. 41.8 Am3A
- 73230 DOROUGH, H. W., and IVIE, G. W. Temik-S35 metabolism in a lactating cow. *J. Agr. Food Chem.* 16(3):460-464. May/June 1968. 381 J8223
- 73231 DOWNEY, N. E. On-pasture vaccination against parasitic bronchitis in calves. *Vet. Rec.* 82(11):338-342. Ref. Mar.1968. 41.8 V641  
Pastures contaminated with *Dictyocaulus viviparus*.
- 73232 DRUMMOND, R. O., and others. Insecticides for control of the cattle tick [*Boophilus annulatus*] and the southern cattle tick [*B. microplus*] on cattle. *J. Econ. Entomol.* 61(2):467-470. Apr.15,1968. 421 J822  
S. E. Ernst, J. L. Trevino, and O. H. Graham, joint authors.  
27 insecticides tested in Texas.
- 73233 DUBANSKY, V. Organization and control of mastitis in Denmark. (Cz) *Veterinarstvi* 17(4):157-161. 1967. 41.8 V6439  
Cattle.
- 73234 DURHAM, G. A. Grass staggers in beef and dairy cattle. *New Zeal. J. Agr.* 115(1):69,71. July 1967. 23 N48J  
Hypomagnesemia.
- 73235 DUSSEL, A. Practical consequences of castration of cows. (Sp) *Gac. Vet.* 30(210):7-10. Jan.1968. 41.8 G112
- 73236 DZIABA, K. A. Tuberculin and hemolytic tests in cattle in the course of tuberculosis. (Pol) *Medycyna Weterynaryjna* 24(2):94-96. Feb. 1968. 41.8 M463  
French summary
- 73237 ELEK, P., and DURIE, P. H. The histopathology of the reactions of calves to experimental infection with the nodular worm, *Oesophagostomum radiatum* (Rudolphi, 1803). II. Reaction of the susceptible host to infection with a single dose of larvae. *Australian J. Agr. Res.* 18(3):549-559. Ref. May 1967. 23 Au783
- 73238 ELEK, P., BREMNER, K. C., and DURIE, P. H. The reaction of calves to helminth infection under natural grazing conditions. II. *Australian J. Agr. Res.* 19(1):161-170. Ref. Jan.1968. 23 Au783
- 73239 ELLIOT, J. M. Ketosis and maximum production. *Pract. Vet.* 2:58-59. Mar./Apr.1968. 41.8 AL5  
Of cattle.  
Milk production of cattle.
- 73240 ENENKEL, A. Poisoning of cattle with Hermal L 50. (Cz) *Veterinarstvi* 17(6):271-273. 1967. 41.8 V6439
- 73241 FARRELL, I. D., and ROBERTSON, L. A whey complement fixation test, its relation to whey agglutination and isolation of *Brucella abortus* from the milk of individual cows. *J. Hyg.* 66(1):19-26. Ref. Mar.1968. 449.8 J82
- 73242 FAYE, P., CHARTON, A., and LE LAYEC, C. Clinical and serological response of calves to the administration through different ducts (genital, pulmonary, ocular) of a strain of herpes virus isolated from lesions of pneumonia. (Fr) *Acad. Vet. France. Bull.* 41(2):77-81. Feb. 1968. 41.9 R24
- 73243 FAYE, P., and CHARTON, A. Properties of certain strains of picorna virus isolated from cattle affected with enzootic enteritis. (Fr) *Rec. Med. Vet.* 164(1):21-27. Jan.1968. 41.8 R24  
English summary.
- 73244 FERNEY, J. The mammitis of the cow. (Fr) *Rev. Elevage* 43:73-80,83-84,87-88,91. 1968. 49 B462
- 73245 FITZGERALD, P. R. Effects of ionizing radiation from cobalt-60 on oocysts of *Eimeria bovis*. *J. Parasitol.* 54(2):233-240. Apr.1968. 448.8 J824
- 73246 FLUOROSIS in animals. (Ge) *Schweiz. Arch. Tierheilk.* 110(3):109-138. Mar.1968. 41.8 Sch9  
English summary.  
Cattle in Switzerland.
- 73247 FOOTE, L. E., and others. Poloxalene for prevention of legume bloat. *J. Dairy Sci.* 51(4):584-590. Ref. Apr.1968. 44.8 J822  
R. E. Girouard, J. E. Johnston, J. Rainey, P. B. Brown, and W. H. Willis, joint authors.
- 73248 FORD, E. J. H., RITCHIE, H. E., and THORPE, E. Serum changes following the feeding of ragwort (*Senecio jacobaea*) to calves. *J. Compar. Pathol.* 78(2):207-218. Ref. Apr.1968. 41.8 J82
- 73249 FORRAY, A., and SZAZADOS, I. *Pseudomonas aeruginosa* mastitis in cattle complicated with septicemia. (Hu) *Magyar Allatorv. Lapja* 23(3):153-155. Ref. Mar.1968. 41.8 V644  
English summary.
- 73250 FOWLER, M. E. Pyrrolizidine alkaloid poisoning in calves. *Amer. Vet. Med. Ass. J.* 152(8):1131-1137. Ref. Apr.1968. 41.8 AM3
- 73251 FRANK, F. W., WALDHAM, D. G., and HALL, R. F. Vibriosis of cattle. *Idaho. Univ. Ext. Idaho. Curr. Inform. Ser.* 64,2 p. Feb.1968. 275.29 Id13Idc
- 73252 FRANKLIN, T. E., and PATTERSON, C. M. Anaplasmosis of cattle; fact sheet. *Tex. Agr. Mech. Univ. Ext. L-700,4 p.,map.* Mar.1967. 275.29 T313
- 73253 FUJIWARA, H., and KONNO, S. Histopathology of an enzootic diarrheal disease in cattle. *Tokyo. Nat. Inst. Anim. Health Quart.* 8(1):16-25. Ref. Spring 1968. 41.9 T575Q
- 73254 GARCIA, L. G., BOYD, C. L., TITUS, R. S. A simple technique for surgical anesthesia in newborn calves. *Southwest. Vet.* 21(3):185-187. Ref. Spring 1968. 41.8 So82  
Halothane as an anesthetic.
- 73255 GARRETT, W. N., HEITMAN, H., and BOOTH, A. N. Aflatoxin toxicity in beef cattle. *Arch. Port. Sci. Biol.* 127(1):188-190. Jan.1968. 442.8 So1
- 73256 GAVEZ, E. The so called allergic reactions in cattle tuberculosis. (Se) *Vet. Glas.* 21(11):901-904. 1967. 41.8 J93  
English summary.
- 73257 GIESECKE, W., MERCK, C. C., and RICHTER, W. The problem of udder diseases of cattle in Syria. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 81(4):61-64. Feb.15,1968. 41.8 B45  
English summary.
- 73258 GLOOR, H. Cereus mastitis of cattle. (Ge) *Schweiz. Arch. Tierheilk.* 110(2):63-80. Ref. Feb.1968. 41.8 Sch9  
English summary.  
*Bacillus cereus*.
- 73259 GOPLEN, B. P., and BELL, J. M. Dicoumarol studies. IV. Antidotal and antagonistic properties of vitamins K1 and K3 in cattle. *Can. J. Anim. Sci.* 47(2):91-100. Ref. Aug.1967. 41.8 C163  
Toxic effects of sweetclover.
- 73260 GREELEY, R. G., and JOLLY, D. G. A clue to the etiology of spastic paresis. *Southwest. Vet.* 21(3):189-191. Spring 1968. 41.8 So82  
In cattle.
- 73261 GRIGORYAN, G. S. The role of subclinical mastitis in development of clinically marked mastitis in cows. (Rus) *Veterinariya* 1:87-88. 1968. 41.8 V6426
- 73262 GRIMM, H. Cases of grass tetany in cattle. (Pol) *Med. Weter.* 24(3):182-183. Mar.1968. 41.8 M463
- 73263 GRIMM, H. Traumatic reticulitis as a cause of prolonged parturition. (Pol) *Med. Weter.* 24(3):181. Mar.1968. 41.8 M463  
In a cow.

- 73264 GULRAJANI, T. S., MISRA, R. P., VERMA, J. C. Application of conglutinating complement adsorption test for detecting antibodies from the natural cases of bovine brucellosis. *Indian Vet. J.* 45(1):18-21. Ref. Jan.1968. 41.8 In2
- 73265 GURAYA, S. S. A cytochemical study of cell components in the developing oocyte of the cattle ovary. *Acta Vet. [Budapest]* 18(1):23-29. 1968. 41.8 Ac83
- 73266 GUSTAVSSON, I., and others. Presumptive X-autosome translocation in a cow: preferential inactivation of the normal X chromosome. *Nature* 218(5137):183-184. Ref. Apr.13,1968. 472 N21  
M. Fraccaro, L. Tiepolo, and J. Lindsten, joint authors.
- 73267 HALL, R. F. Diseases causing abortions in cattle. *Idaho Univ. Ext. Idaho. Curr. Inform. Ser.* 63,2 p. Jan.1968. 275.29 Id13Idc
- 73268 HARA, F., and others. An outbreak of ringworm among cattle in Shimane. (Ja) *Jap. Vet. Med. Ass. J.* 21(2):69-72. Feb.1968. 41.9 J275  
A. Iwata, K. Iwasaki, and H. Ueno, joint authors.  
English summary.
- 73269 HART, B., and HOOPER, P. T. Enterotoxaemia of calves due to *Clostridium welchii* type E. *Australian Vet. J.* 43(9):360-363. Ref. Sept.1967. 41.8 Au72
- 73270 HEDGER, R. S. The isolation and characterization of foot-and-mouth disease virus from clinically normal herds of cattle in Botswana. *J. Hyg.* 66(1):27-36. Ref. Mar.1968. 44.8 J82
- 73271 HERRICK, J. B. These feedlot diseases may be in your dairy herd. *West. Dairy J.* 24(6):6-7. Apr.1968. 44.8 W524
- 73272 HEWETSON, R. W., and NOLAN, J. Resistance of cattle to cattle tick, *Boophilus microplus*. I. *Australian J. Agr. Res.* 19(2):323-333. Mar. 1968. 23 Au783
- 73273 HIDIROGLOU, M., and JENKINS, K. J. Factors affecting the development of nutritional muscular dystrophy in northern Ontario. *Can. J. Anim. Sci.* 48(1):7-14. Ref. Apr.1968. 41.8 C163  
In calves.
- 73274 HIGAKI, S. Causes of reproductive disorders in dairy cattle and their control. (Ja) *Jap. Vet. Med. Ass. J.* 21(2):49-54. Feb.1968. 41.9 J275
- 73275 HILLS, K. L. New concepts for cattle tick control. *Span* 11(1):10-12. 1968. 464.8 Sp2
- 73276 HINDERY, G. A., and TURNER, C. W. Effect of two levels of estradiol benzoate on reinitiation of lactation in dairy cattle. *Mo. Agr. Exp. Sta. Res. Bull.* 932,15 p. Ref. Jan.1968. 100 M693
- 73277 HJERPE, C. A. Experiments with herbage from a field associated with hypomagnesemic tetany in beef cattle. *Cornell Vet.* 58(2):193-216. Ref. Apr.1968. 41.8 C81
- 73278 HOMMA, S., and SUGAWA, Y. Morphological study on bovine hydrometra complex. *Tokyo. Nat. Inst. Anim. Health Quart.* 8(1):31-39. Ref. Spring 1968. 41.9 T575Q  
Abnormal conditions of the uterus.
- 73279 HUBBEN, K., and others. The synthesis of lipid from acetate by bovine teat canal epithelium *in vitro*; a preliminary report. *Cornell Vet.* 58(2):266-270. Apr.1968. 41.8 C81  
R. W. Hanson, F. J. Ballard, and G. E. Morse, joint authors.
- 73280 HUCK, R. A. Alimentary infections. *Vet. Rec.* 82(10,sup.14):2-4. Mar.1968. 41.8 V641  
Viral infections of cattle.
- 73281 HUCK, R. A. Teat infections. *Vet. Rec.* 82(10): (10,sup.14):1-2. Mar.1968. 41.8 V641  
Chiefly viral infections of cattle.
- 73282 HUGHES, D. E., PUGH, G. W., and MCDONALD, T. J. Experimental bovine infectious kerato-conjunctivitis caused by sunlamp irradiation and *Moraxella bovis* infection: Determination of optimal irradiation. *Amer. J. Vet. Res.* 29(4):821-827. Apr.1968. 41.8 Am3A
- 73283 HUGHES, D. E., PUGH, G. W., and MCDONALD, T. J. Experimental bovine infectious kerato-conjunctivitis caused by sunlamp irradiation and *Moraxella bovis* infection: Resistance to re-exposure with homologous and heterologous *Moraxella bovis*. *Amer. J. Vet. Res.* 29(4):829-833. Apr.1968. 41.8 Am3A
- 73284 HYBASEK, J., PICHOVA, J., PICHA, D. On the occurrence and treatment of actinobacillosis of cattle. (Cz) *Czech. Min. Zemedel. Lesniho Hospodar. Ustav Vedeckotech. Inform. Vet. Med.* 1:25-30. Ref. Jan.1968. 41.9 C333  
English summary.
- 73285 IMMIEV, YA. Electrophoresis of streptomycin and iodine ionogalvanization in the case of actinomycosis. (Rus) *Veterinariya* 1:71-72. 1968. 41.8 V6426
- 73286 IMORI, T. The biological half life of progesterone in the peripheral blood of cows. *Jap. J. Vet. Sci.* 29(4):201-208. Ref. Aug.1967. 41.8 J27
- 73287 IVANOV, I. V., and KHIZHNYAK, V. N. Complications after foot-and-mouth disease in cattle. (Rus) *Veterinariya* 3:32-33. 1968. 41.8 V6426
- 73288 JAMES, L. F., BINNS, W., and SHUPE, J. L. Blood changes in cattle and sheep fed lupine. *Amer. J. Vet. Res.* 29(3):557-560. Ref. Mar. 1968. 41.8 Am3A  
Toxic effects.
- 73289 JANAK, J., and NEZVAL, A. Poisoning of cattle with sodium disulfides. (Cz) *Veterinarstvi* 17(5):224-226. 1967. 41.8 V6439
- 73290 JENSEN, J. *Pasteurella multocida* and *Clostridium perfringens* as cause of mastitis. (Da) *Danske Dyrlaegefor. Medlemsbl.* 51(4):124-126. Feb.15,1968. 41.9 D24  
English summary.  
Dairy cattle.
- 73291 JONES, E. W., and others. *Anaplasma marginale* infection in splenectomized calves. *Amer. J. Vet. Res.* 29(3):523-533. Ref. Mar.1968. 41.8 Am3A  
B. B. Norman, I. O. Kliever, and W. E. Brock, joint authors.
- 73292 JONES, E. W., and others. *Anaplasma marginale* infection in young and aged cattle. *Amer. J. Vet. Res.* 29(3):535-544. Ref. Mar.1968. 41.8 Am3A  
I. O. Kliever, B. B. Norman, and W. E. Brock, joint authors.
- 73293 JUNG, G. On the electrocardiography in veterinary medicine with particular reference to the general electrophysiology and the derivation of the bovine electrocardiogram. (Ge) *Arch. Exp. Veterinarmed.* 21(3):835-866. Ref. 1967. 41.8 Ex7  
English summary.
- 73294 KACEROVSKY, J. On some problems of eradication of trichophytosis in cattle. (Cz) *Veterinarstvi* 17(5):217-219. 1967. 41.8 V6439
- 73295 KARG, H. Studies on the LH-content in the pituitary and the androgens in the testes of the bovine foetus. *Nottingham. Univ. Easter Sch. Agr. Sci. Proc.* 13th Easter Sch.:239-240. 1966, pub.1967. S217.E2  
Review of the literature.
- 73296 KASTLI, P., and MOOSBRUGGER, G. A. Inactivation of foot-and-mouth disease virus by heat in milk products. (Fr) *Schweiz. Arch. Tierheilk.* 110(2):89-94. Feb.1968. 41.8 Sch9  
English summary.
- 73297 KEITH, R. K. The pathogenicity of experimental infections of *Cooperia pectinata* Ransom, 1907 in calves. *Australian J. Agr. Res.* 18(5): 861-864. Ref. Sept.1967. 23 Au783
- 73298 KIERMEIER, F., and others. Effects of peroral doses of the insecticide gamma-HCH on some properties of cow's milk. (Ge) *Int. Dairy Congr. [Proc.], 17th Congr., Sect. A:* 457-465. Ref. 1966. SF223.15 1966 v.1  
R. Kern, G. Wildbrett, and E. Steger, joint authors.  
English summary, p.750.
- 73299 KITA, J., and GILLESPIE, J. H. Susceptibility of various types of cell cultures to three strains of bovine parainfluenza-3 virus. *Cornell Vet.* 58(2):217-235. Ref. Apr.1968. 41.8 C81



- 73300 KITELNIKOV, G. A., and SHILNIKOV, V. J. The results of group dehelminthization testing of calves with iodine vapor in cases of dictyocaulosis. (Rus) Veterinariya 3:46-47. 1968. 41.8 V6426
- 73301 KIVKUTSAN, F. R., and GORODETSKII, A. A. Forecasting milk productivity of heifers, according to the content of nitrogen components in their blood. (Rus) Zhivotnovodstvo 2:68-69. Feb.1968. 49 Z6
- 73302 KLEINSCHROTH, E., RICHTER, O., and SCHUMANN, H. Application of electronic determination of cell content in milk in udder health service and milk quality control. (Ge) Milchwissenschaft 23(3):147-153. Mar.1968. 44.8 M5933 English summary.
- 73303 KOMAROVA, Z. B. Effects of synthetic hormonal preparations on metabolism and weight of calves. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 1:142-144. 1968. 20 V633
- 73304 KONÁRSKA-SZUBSKA, A. Observations on the enzootic pneumonia and paratyphoid course in cattle kept on good farms. (Pol) Med. Weter. 24(3):167-168. Mar.1968. 41.8 M463
- 73305 KONDRACKI, M. Investigations on the susceptibility of *Escherichia coli* strains isolated from cases of calf colibacteriosis to antibiotics and nitrofurantoin preparations. II. Susceptibility to nitrofurantoin preparations in vitro. (Pol) Med. Weter. 24(3):169-170. Mar.1968. 41.8 M463 French summary.
- 73306 KONRAD, J. Hematological studies of cirrhosis hepatitis fasciolosa bovum in comparison with Zdarer liver cirrhosis of horse. (Ge) Tierarztl. Umsch. 23(3):108-112,115. Ref. Mar.1,1968. 41.8 T445
- 73307 KOPP, U. Zur Differenzierung boviner Staphylokokken mittels Bakteriophagen [Differentiation of bovine staphylococci by bacteriophages]. Munich. Univ. Tierarztl. Fak. [Inaug.-Diss.] 39,90 p. 1967. 41.2 M9222 English summary. Bibliographies, p.77-90.
- 73308 KOVAL, M. P., ALEKSEEV, N.P., and CHAUSOV, V. S. Prophylaxis of osteodystrophy in young cattle fed sugar beet pulp. (Rus) Veterinariya 3:61-62. 1968. 41.8 V6426
- 73309 KROIHER, K. Differenzierung von aus Kuhmilch isolierten koagulasepositiven Staphylokokken [Differentiation of coagulase positive staphylococci isolated from cow's milk]. Munich. Univ. Tierarztl. Fak. [Inaug.-Diss.] 40, 52 p. 1967. 41.2 M9222 Bibliography, p.41-51.
- 73310 KUBIN, I. On tuberculin reactions in cattle spontaneously infected with *Mycobacterium avium*. (Cz) Veterinarstvi 17(12):538-542. 1967. 41.8 V6439
- 73311 KUCEL, J. Contribution to the therapy of esophageal obstruction in cattle. (Ge) Wien. Tierarztl. Monatsschr. 55(2):103-106. Ref. Feb.1968. 41.8 T345 English summary.
- 73312 KUDRYAVTSEVA, T. P. Clinical and anatomical characteristics of cattle leukemia and reticulosis. (Rus) Veterinariya 1:42-44. 1968. 41.8 V6426
- 73313 KUNFFY, Z., and FARKAS, MRS. B. Stimulex and infectious diarrhea of calves. (Hu) Magyar Mezogazdasag 23(11):19. Mar.13,1968. 19 M27
- 73314 KUZNEZOV, A. F. The influence of temperatures and humidity in houses on immunobiological reactivity of calf organisms. (Rus) Veterinariya 3:84-86. 1968. 41.8 V6426
- 73315 LABIK, K. Some problems of mastitis in German Federal Republic. (Cz) Veterinarstvi 17(4):161-162. 1967. 41.8 V6439 Cattle.
- 73316 LACOSTE, E. Bovine keratoconjunctivitis. (Sp) Gac. Vet. 29(208):507-508. Nov.1967. 41.8 G112
- 73317 LARSEN, A. B. Johne's disease and the practitioner. Southwest. Vet. 21(3):193-194. Ref. Spring 1968. 41.8 So82 Diagnosis of the disease in cattle.
- 73318 LECOANET, J. Diagnostic symptoms in cattle. (Fr) Rev. Elevage 43:7,9-10,13,15-16, 19-22,25-26,29,31,33-34,37-38. 1968. 49 B462
- 73319 LEIKOLA, J. Studies of agglutinability of bovine red cells. Int. Arch. Allergy Appl. Immunol. 33(2):112-119. Ref. 1968. 44.8 In8
- 73320 LIEBERMANN, H., and others. Isolation and identification of an additional new bovine herpes virus. (Ge) Arch. Exp. Veterinarmed. 21(3):761-776. Ref. 1967. 41.8 Ex7 P. Schulze, R. Kokles, and H. Hantschel, joint authors. English summary.
- 73321 LILLIE, M. G., and MOHANTY, S. B. The effect of 5-iodo-2'-deoxyuridine on the multiplication of infectious bovine rhinotracheitis virus. Cornell Vet. 58(2):278-288. Ref. Apr. 1968. 41.8 C81
- 73322 LINERODE, P. A., and MCINTOSH, D. K. The herd health management approach. Southwest. Vet. 21(3):201-208. Ref. Spring 1968. 41.8 So82 Veterinary medicine practice outlook and cattle diseases prevention.
- 73323 LOHRENGEL, F. Ein Praxisversuch zur vorbeugenden Beeinflussung der chronischen Anaplasmosen in Milchrinderbeständen in Costa Rica [Practice experiments on preventive action of chronic anaplasmosis of dairy herds in Costa Rica]. Hanover. Tierarztl. Hochschule. Inaug.-Diss. 40,79 p. 1966. 41.2 H198 Bibliography, p.74-79.
- 73324 LOOMIS, E. C., and BUSHNELL, R. B. Tick paralysis in California livestock. Amer. J. Vet. Res. 29(5):1089-1093, map. Ref. May 1968. 41.8 Am3A Chiefly paralysis of cattle and ponies transmitted by Dermacentor occidentalis.
- 73325 LORENZEN, P. The occurrences of streptococci of various serological groups as mastitis causal agent with special emphasis on group L. (Ge) Arch. Lebensmittel. 19(3):57-60. Mar. 1968. 41.8 L49
- 73326 LUCHKO, M. A. Production of pure cultures of *Trichomonas fetus*. (Rus) Veterinariya 1:104. 1968. 41.8 B6426 In study of cattle trichomoniasis.
- 73327 LUKACEVIC, J., and KOLUMBIC, T. The strain of *Trichomonas genitalis* preserved twelve years after the first transplantation. (Se) Vet. Glas. 21(12):983-984. Dec.1967. 41.8 J93 English summary.
- 73328 MACLAREN, A. P. C. Stomach worm disease in young cattle. Scot. Agr. 47(1):32-34. Sinter 1967/68. 10 So82So
- 73329 MAKAREVICH, N. M., and AFANAS'EVA, YU. P. Detection of atypical *Mycobacterium* strains by oxidoreductases. (Rus) Veterinariya 3:25-27. 1968. 41.8 V6426 Includes *Mycobacterium bovis* and *M. avium*.
- 73330 MARCUS, S. J., and MOLL, T. Adaptation of bovine viral diarrhea virus to the Madin-Darby bovine kidney cell line. Amer. J. Vet. Res. 29(4):817-819. Apr.1968. 41.8 Am3A
- 73331 MARCZEWSKI, H. Observations on the application of caffeine in the cow after parturition as a means of preventing placenta retention. (Pol) Med. Weter. 24(3):181-182. Mar.1968. 41.8 M463
- 73332 MARCZEWSKI, H. Observations on a triple postpartum paralysis in the same cow. (Pol) Med. Weter. 24(3):183. Mar.1968. 41.8 M463
- 73333 MARKOVIC, P., NIKOLIC, B., and LJESJEVIC, Z. A contribution to the study of non-specific tuberculin reactions in cattle with diluted tuberculin. (Se) Vet. Glas. 21(1):25-28. Ref. 1967. 41.8 J93 English summary.
- 73334 MCCLURE, T. J. Hypoglycaemia, an apparent cause of infertility of lactating cows. Brit. Vet. J. 124(3):126-130. Ref. Mar.1968. 41.8 V643 Experimental administration of insulin.

- 73335 MCKINNEY, B. Atherosclerosis in the African buffalo (*Syncerus caffer*) and comparative studies in man. *J. Pathol. Bacteriol.* 95(1):301-304. Ref. Jan.1968. 448.8 J82
- 73336 MEBUS, C. A., and HOWE, E. C. Calf scours report. *Nebr. Cattleman* 24(8):24,38. Apr. 1968. 43.8 N27
- 73337 MENSIK, J., JURMANOVA, K., and KOČI, J. The role of the parainfluenza 3 virus in respiratory diseases in cattle on big production farms. I. The origin and course of the disease after natural infection and frequency of virus in calves one to three months old. (Cz) *Czech. Min. Zemedel. Lesního Hospodar. Ustav Vedeckotech. Inform. Vet. Med.* 40(6):293-302. Ref. June 1967. 41.9 C333  
English summary.
- 73338 MEYERHOLZ, G. W., and FRYMAN, L. R. The Illinois mastitis control program. III. *Univ. Ext. Circ.* 979,8 p.-folder. Mar.1968. 275.29 IL62C  
Illinois Mastitis Council, cooperating.  
Dairy cattle.
- 73339 MILSTEIN, C. P., and FEINSTEIN, A. Comparative studies of two types of bovine immunoglobulin G heavy chains. *Biochem. J.* 107(4):559-564. Ref. Apr.1968.
- 73340 MOLLER, P. D. Untersuchungen über die Harnstoffverwertung während der Laktation [Investigation on urea utilization during lactation]. *Max-Planck-Inst. Tierzucht Tierernähr. Schriftenreihe* 32,134 p. 1967. 49.9 M45  
Bibliography, p.101-113.  
Cattle.
- 73341 MORITA, C., IZAWA, H., and SOEKAWA, M. Isolation of a paravaccinia virus from a cow in Japan. *Jap. J. Vet. Sci.* 29(4):171-175. Ref. Aug.1967. 41.8 J27
- 73342 MOSHER, A. H., and others. Effect of toxin in bovine *Mycoplasma mastitis*. *Amer. J. Vet. Res.* 29(3):517-522. Ref. Mar.1968. 41.8 Am3A  
W. N. Plastring, M. E. Tourtellotte, and C. F. Helmboldt, joint authors.
- 73343 NANDA, B. S., and MALIK, M. R. Bronchial tree in buffalo. *Indian Vet. J.* 45(2):127-130. Ref. Feb.1968. 41.8 In2
- 73344 NARASIMHAMURTHY, G., and RAO, P. R. A case of bovine leucosis in a calf. *Indian Vet. J.* 45(2):160-161. Ref. Feb.1968. 41.8 In2
- 73345 NEAL, P. A., and EDWARDS, G. B. Vagus indigestion in cattle; a review of 52 cases. *Vet. Rec.* 82(14):396-402. Apr.1968. 41.8 V641  
Functional stenosis of the stomachs.
- 73346 NELSON, D. L., and others. The effect of feeding cattle Baymix (coumaphos) crumbles at three and five times an anthelmintic dose level. *Ga. Vet.* 20(2):7-8. Mar./Apr.1968. 41.8 G29  
J. O. Mozier, A. D. Allen, R. G. White, and M. T. Mullee, joint authors.
- 73347 NORCROSS, N. L., and others. Reaction in bovine to streptococcal extracts. *Cornell Vet.* 58(2):241-248. Apr.1968. 41.8 C81  
K. Dodd, A. Zarkower, and G. J. Losos, joint authors.  
From *Streptococcus agalactiae*.
- 73348 NOVAK, D. D. Method for bacteriological study of pathological material for diagnosis of tuberculosis. (Rus) *Veterinariya* 3:103-104. 1968. 41.8 V6426  
Cattle.
- 73349 NYENGAARD, E. Sodium deficiency in dairy cattle. (Da) *Danske Dyrlegefor. Medlemsb.* 51(3):74-75. Feb.1,1968. 41.9 D23
- 73350 OBRACZKA, A. Amputation of prolapsed uterus in a cow. (Pol) *Medycyna Weterynaryjna* 24(2):125-126. Feb.1968. 41.8 M463
- 73351 OS, J. L. VAN. A new fixation for a teatbandage. (Du) *Tijdschr. Diergeneesk.* 93(4):226. Feb.15,1968. 41.8 T431  
English summary.  
Cattle.
- 73352 PALADINES, O. L., and BATEMAN, J. V. Prediction of the body weight of cattle free of digestive tract contents. (Sp) *Turrialba* 18(1):21-25. Jan./Mar.1968. 8 T86  
English summary.
- 73353 PATKA, J., SPONAR, J., and DVORAK, M. The activity of ornithine-carbamyltransferase in blood serum of calves and its diagnostic importance in the case of hepatic disturbances. (Cz) *Czech. Min. Zemedel. Lesního Hospodar. Ustav Vedeckotech. Inform. Vet. Med.* 41(2):107-114. Ref. Feb.1968. 41.9 C333  
English summary.
- 73354 PERKUCIN, R., and DJURISIC, S. On the distribution of *Mycoplasma* in genital organs of cattle. (Se) *Vet. Glas.* 21(11):879-884. Ref. 1967. 41.8 J93  
English summary.
- 73355 PETER, C. P., and others. Cytopathologic changes of lymphatic tissues of cattle with the bovine virus diarrhoea-mucosal disease complex. *Amer. J. Vet. Res.* 29(5):939-948. Ref. May 1968. 41.8 Am3A  
J. R. Duncan, D. E. Tyler, and F. K. Ramsey, joint authors.
- 73356 PETR, M. Resistance to antibiotics of staphylococci of bovine origin from agricultural farms where there is intensive veterinary udder supervision. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 81(8):153-155. Ref. Apr.15,1968. 41.8 B45  
English summary.
- 73357 PHILLIP, J. I. H. Viral respiratory diseases. *Vet. Rec.* 82(10,sup.14):4-7. Ref. Mar.1968. 41.8 V641  
Of cattle.
- 73358 PIER, A. C., THURSTON, J. R., and LARSEN, A. B. A diagnostic antigen for nocardiosis: comparative tests in cattle with nocardiosis and mycobacteriosis. *Amer. J. Vet. Res.* 29(2):397-403. Ref. Feb.1968. 41.8 Am3A  
Infected with *Mycobacterium* spp.
- 73359 PINSENT, P. J. N. Ulceration of the bovine abomasum. *Vet. Rev.* 19(3):50-53. Apr.1968. 41.8 V6466
- 73360 PLATONOW, N., and ABBEY, H. K. Toxicity of vanadium in calves. *Vet. Rec.* 82(10,sup.14):292-293. Mar.1968. 41.8 V641
- 73361 PLEVA, J., and ARVAY, S. Problems of control of tuberculosis in cattle in Slovakia. (Cz) *Veterinarstvi* 17(4):153-157, map. 1967. 41.8 V6439
- 73362 POSTLE, D. S. Evaluation of selective medium for screening bulk milk samples for *Streptococcus agalactiae*. *Amer. J. Vet. Res.* 29(3):669-678. Ref. Mar.1968. 41.8 Am3A  
Chiefly associated with mastitis of cattle.
- 73363 PROST, J. Skin mycosis in cattle and observations on its treatment. (Pol) *Med. Weter.* 24(3):148-149. Mar.1968. 41.8 M463  
Ringworm.
- 73364 PUHAC, I., and others. A contribution to the study of the effect of various environmental and technological conditions on the formation of physiological constants in blood and on the results of fattening of calves. II. Differential blood picture. (Se) *Vet. Glas.* 21(11):871-878. 1967. 41.8 J93  
A. Cvetkovic, N. Hrgovic, and M. Dimitrijevic, joint authors.  
English summary.
- 73365 PUHAC, I., and others. The effect of environmental conditions of open housing in winter on the body temperature and physiological constants of blood serum in calves. (Se) *Vet. Glas.* 21(5):391-399. 1967. 41.8 J93  
B. Nikolic, I. Rajic, and O. Pavlovic, joint authors.  
English summary.
- 73366 QUAI, V., and others. Incidence of salmonellosis in gastro-enteropneumopathies in cattle. (Rum) *Rev. Zootch. Med. Vet.* 18(3):54-67. Ref. Mar.1968. 49 P943  
C. Pop, V. Balogh, M. Vicas, H. Oprea, G. Horvath, I. Turjuc, F. Brezoiu, joint authors.  
English summary.
- 73367 REBESKO, B., and NAJAT, R. An extremely severe case of hydatidosis of liver in cattle. (Se) *Vet. Glas.* 21(6):513-514. 1967. 41.8 J93



- 73368 RISTIC, M. Mechanisms of immunity and prospects for a protective vaccine in bovine anaplasmosis. *Ill. Vet.* 11(1):7-12. Ref. 1968. 41.8 IL62
- 73369 ROGOFF, W. M., and others. Evaluation of Shell SD 8447, SD 8448, and SD 8436 as candidate systemic insecticides for control of common and northern cattle grubs [*Hypoderma bovis* and *H. lineatum*]. *J. Econ. Entomol.* 61(2):487-490. Apr. 15, 1968. 421 J822  
A. R. Roth, G. H. Gretz, W. S. Bigley, and R. Orchard, joint authors.
- 73370 ROJAHN, A. Official measures for the control of bovine leucosis. (Ge) *Zentralbl. Veterinar-med. Reihe B*, 15(1):200-205. Ref. Feb. 1968. 41.8 Z52  
English summary.
- 73371 ROJAHN, A. Official measures for the control of bovine leukosis. (Ge) *Deut. Vet. Ges. Ber. 7th Congr.*:200-205. Ref. 1968. 41.9 D482  
English summary.
- 73372 ROSELLE, B. Plan now for fly control. *Nebr. Cattleman* 24(9):10-11. May 1968. 43.8 N27  
Chemical.
- 73373 ROSENBERGER, G., and GRUNDER, H. D. Prevention and treatment of bovine papillomatosis. (Ge) *Deut. Vet. Ges. Ber. 7th Congr.*:124-131. Ref. 1968. 41.9 D482  
English summary.
- 73374 ROSENBERGER, G., and GRUNDER, H. D. Prevention and treatment of bovine papillomatosis. (Ge) *Zentralbl. Veterinarmed. Reihe B*, 15(1):124-131. Ref. Feb. 1968. 41.8 Z52  
English summary.
- 73375 ROSENBERGER, G. Scientific basis for the control of bovine leukosis. (Ge) *Deut. Vet. Ges. Ber. 7th Congr.*:193-199. Ref. 1968. 41.9 D482  
English summary.
- 73376 ROSENBERGER, G. The scientific basis for the control of bovine leucosis. (Ge) *Zentralbl. Veterinarmed. Reihe B*, 15(1):193-199. Ref. Feb. 1968. 41.8 Z52  
English summary.
- 73377 ROWSON, F. H. Displacement and dilatation of the colon in the cow. *Vet. Rec.* 82(9):240. Mar. 1968. 41.8 V641
- 73378 RUBIN, R., and HIBLER, C. P. Effect of the levo form of tetramisole on *Ostertagia* [os-tertagi], *Trichostrongylus* [axe], and *Cooperia* in cattle. *Amer. J. Vet. Res.* 29(3):545-548. Mar. 1968. 41.8 Am3A
- 73379 RUSSEL, H. Lead distribution in liver in poisoning and sample taking for chemical analysis. (Ge) *Deut. Tierarztl. Wochenschr.* 75(4):96. Feb. 15, 1968. 41.8 D482  
English summary.  
Cattle.
- 73380 RWEYEMAMU, M. M., and JOHNSON, R. H. Bovine herpes mammillitis virus. II. Standardization of an in-vitro serum neutralization test. *Brit. Vet. J.* 124(1):9-15. Ref. Jan. 1968.
- 73381 RWEYEMAMU, M. M., JOHNSON, R. H., and OSBORNE, A. D. Immunisation against bovine herpes mammillitis. *Vet. Rec.* 82(3):85-86. Jan. 20, 1968. 41.8 V641
- 73382 RYCKE, P. H. DE, and PENNOIT-DE-COOMAN, E. The evagination of *Echinococcus granulosus* scolices from lung cysts of bovine origin. *Z. Parasitenk.* 30(2):171-175. Ref. Mar. 5, 1968. 442.8 Z33F
- 73383 SAUCHIER, A., PLATONOW, I., and HEBERT, C. Study of the bacterial efficacy of four disinfectants for the control of bovine mastitis. (Fr) *Can. Vet. J.* 9(2):41-45. Feb. 1968. 41.8 R3224  
English summary.
- 73384 SCHALM, O. W., and ZIV-SILBERMAN, G. The incidence of mastitis; comparison as indicated by the California mastitis test applied to three different fractions of the same quarter milk samples. *Vet. Rec.* 82(7):184-188. Ref. Feb. 1968. 41.8 V641
- 73385 SCHALM, O. W., and ZIV-SILBERMAN, G. Reactions following intramammary infusion of *Escherichia coli* endotoxin. *Vet. Rec.* 82(4):100-103. Ref. Jan. 27, 1968. 41.8 V641  
For mastitis control in cattle.
- 73386 SCHMIDT, F. W. The latex test for the serological diagnosis of bovine leucosis. (Ge) *Zentralbl. Veterinarmed. Reihe B*, 15(1):174-184. Feb. 1968. 41.8 Z52  
English summary.
- 73387 SCHMITT, J. The differentiation of animal proteins with the vertical polyacrylamide gel electrophoresis. I. (Ge) *Deut. Tierarztl. Wochenschr.* 75(4):87-91. Feb. 15, 1968. 41.8 D482  
English summary.  
Serum proteins of cattle.
- 73388 SCHNEIDER, L., and MULLER, W. Suitability of the high-speed mastitis test, carried out by means of an electromechanical system, for determination of cell content rise in single milk samples. (Ge) *Monatsh. Veterinarmed.* 22(14):563-566. Ref. July 15, 1967. 41.8 M742  
English summary.
- 73389 SCHULTZ, E. J. Evaluation of erythromycin in the treatment of infectious bovine mastitis. *Amer. Vet. Med. Ass. J.* 152(4):376-379. Feb. 15, 1968. 41.8 Am3
- 73390 SCHULZE, P., and others. Light and electron microscopical examinations of a new bovine herpes virus. (Ge) *Arch. Exp. Veterinarmed.* 21(3):747-759. Ref. 1967. 41.8 Ex7  
H. Liebermann, H. Hamschel, A. Bartha, and M. Juhasz, joint authors.  
English summary.
- 73391 SCHUNTNER, C. A., ROULSTON, W. J., and SCHNITZERLING, H. J. A mechanism of resistance to organophosphorus acaricides in a strain of the cattle tick *Boophilus microplus*. *Australian J. Biol. Sci.* 21(1):97-109. Ref. Feb. 1968. 442.8 Au72
- 73392 SEAWRIGHT, J. A., and ADKINS, T. R. Dust stations for control of the face fly [*Musca autumnalis*] in South Carolina. *J. Econ. Entomol.* 61(2):504-505. Ref. Apr. 15, 1968. 421 J822
- 73393 SEGALINI, E. Idiopathic mastitis of cattle. (It) *Veterinaria [Milano]* 17(1):39-50. Ref. Jan./Feb. 1968. 41.8 F6499
- 73394 SELLERS, K. C., SMITH, G. F., and WOOD, P. D. P. An investigation into calf mortality in the first eight weeks of life in England and Wales. *Brit. Vet. J.* 124(3):89-94. Mar. 1968. 41.8 V643
- 73395 SELLERS, R. F., and MOWAT, G. N. Interference between modified and virulent strains of foot-and-mouth disease virus. *Arch. Gesamte Virusforsch.* 23(1/2):29-26. 1968. 448.3 Ar23  
Tested with cattle.
- 73396 SELLERS, R. F., and others. Some factors affecting interferon production by foot-and-mouth disease virus in bovine tissue cultures. *Arch. Gesamte Virusforsch.* 23(1/2):1-11. Ref. 1968. 448.3 Ar23  
J. H. Bennett, G. N. Mowat, and W. A. Snowdon, joint authors.
- 73397 SELLERS, R. F., and others. The use of interferon production as a marker in the development of a modified strain of foot-and-mouth disease virus. *Arch. Gesamte Virusforsch.* 23(1/2):12-19. 1968. 448.3 Ar23  
G. N. Mowat, J. H. Bennett, and D. A. Barr, joint authors.  
Tested with cattle.
- 73398 SEMENOV, B. YA. On etiology and therapy of postpartum endometritis in cows. (Rus) *Veterinariya* 1:85-87. 1968. 41.8 V6426
- 73399 SHANNON, A. D., and LASCELLES, A. K. The intestinal and hepatic contributions to the flow and composition of thoracic duct lymph in young milk-fed calves. *Quart. J. Exp. Physiol. Cog. Med. Sci.* 53(2):194-205. Ref. Apr. 1968. 447.8 Q1
- 73400 SHUPE, J. L., and others. A congenital deformity in calves induced by the maternal consumption of lupin. *Australian J. Agr. Res.* 19(2):335-340. Ref. Mar. 1968. 23 Au783  
W. Binns, L. F. James, and R. F. Keeler, joint authors.

- 73401 SINHA, D. P. Technique for intracerebral injection in the calf. *Amer. J. Vet. Res.* 29(4): 919-920. Apr. 1968. 41.8 Am3A
- 73402 SIROTKIN, A. N., and others. On the accumulation of strontium 90 and calcium in calf skeleton. (Rus) *Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina. Dokl.* 1:21-24. Ref. Jan. 1968. 20 Ak1  
N. I. Burov, I. Ya. Panchenko, I. A. Sarapul'tsev, and N. A. Korneev, joint authors.
- 73403 SLANINA, E. The probe for collecting rumen content of cattle and its use in diagnosis and treatment of diseases. (Cz) *Veterinarstvi* 17(4):171-172. 1967. 41.8 V6439
- 73404 SLANINA, L., VRZGULA, L., and BARTKO, P. The values obtained in blood examinations and examinations of the rumen content of highly productive dairy cows in the course of the year. (Cz) *Czech. Min. Zemedel. Lesniho Hospodar. Ustav Vedeckotech. Inform. Vet. Med.* 41(2):75-82. Ref. Feb. 1968. 41.9 C333  
English summary.
- 73405 SMIRNOV, A. M., and others. State of cardiovascular system in dyspeptic calves. (Rus) *Veterinariya* 1:76-77. 1968. 41.8 V6426  
V. S. Kondratiev, G. YA. Gorn, and G. L. Dugin, joint authors.
- 73406 SMITH, H. J., and ARCHIBALD, R. MCG. Critical trials on the efficacy of thiabendazole against *Ostertagia ostertagi*, *Cooperia oncophora*, and *Nematodirus helvetianus*. *Can. Vet. J.* 9(3):57-60. Ref. Mar. 1968. 41.8 R3224  
Experiments with calves.
- 73407 SMYTH, P. J. Control of hypomagnesaemic tetany in cows. *Irish Vet. J. (n.s.)* 22(3):59. Mar. 1968. 41.8 Ir4
- 73408 SNYDER, H. How to protect your herd from foot rot. *West. Dairy J.* 24(6):12B, 12D. Apr. 1968. 44.8 W524
- 73409 SPINDLER, F. Can one prevent the injuries occurring in animals kept in slatted stables. (Fr) *Rev. Elevage* 23(4):25, 27, 29-30, 33. Apr. 1968. 49 B462  
Chiefly cattle.
- 73410 SPRATLING, F. R., SPARROW, D. S. H., and NIELSEN, S. W. Mycotic ruminitis in a cow. *Vet. Rec.* 82(10):282-284. Mar. 1968. 41.8 V641
- 73411 SPRINGELL, P. H. Lysine metabolism in beef cattle. *Compar. Biochem. Physiol.* 25(1):349-353. Ref. Apr. 1968. 44.8 C73
- 73412 SPRINGELL, P. H. Red cell volume and blood volume in beef cattle. *Australian J. Agr. Res.* 19(1):145-160. Ref. Jan. 1968. 23 Au783
- 73413 SPRINGELL, P. H. Water content and water turnover in beef cattle. *Australian J. Agr. Res.* 19(1):129-144. Ref. Jan. 1968. 23 Au783
- 73414 STRAUB, O. C. Persisting lymphocytosis and its relation to the etiology of bovine leukosis. (Ge) *Deut. Vet. Ges. Ber. 7th Congr.* 156-162. Ref. 1968. 41.9 D482  
English summary.  
Includes discussion.
- 73415 STRAUB, O. C. Persisting lymphocytosis and its relation to the etiology of bovine leukosis. (Ge) *Zentralbl. Veterinarmed. Reihe B*, 15(1): 156-162. Ref. Feb. 1968. 41.8 Z52  
English summary.  
Includes discussion.
- 73417 SULEIMANOV, S. M. Changes in lymph nodes of cattle infected with leptospirosis. (Rus) *Veterinariya* 3:39-40. 1968. 41.8 V6426
- 73416 STRICKLER, J. J. Dorsal recumbency frame for restraining cattle. *Amer. Vet. Med. Ass. J.* 152(9):1390-1393. May 1968. 41.8 Am3
- 73418 SUNDARAM, R. K., and others. Incidence of *Paracooperia matoffi* (Matoff, 1938) Le Roux, 1950, in Indian buffaloes. *Indian Vet. J.* 45(1): 22-31. Ref. Jan. 1968. 41.8 In2  
M. S. Sivasubramaniam, R. P. Iyer, and C. T. Peter, joint authors.
- 73419 SWEAT, R. L. The role of parainfluenza-3 (SF-4) virus in shipping fever of cattle. *Auburn Vet.* 24(2):68-69. Winter 1968. 41.8 Au1
- 73420 TAYLOR, J. C., and LINERODE, P. A. A practical record system for the Texas rancher under herd health management programming. *Southwest. Vet.* 21(3):209-210. Spring 1968. 41.8 So82  
Chiefly cattle.
- 73421 TENNANT, B., and PEDDICORD, R. G. The influence of delayed uterine involution and endometritis on bovine fertility. *Cornell Vet.* 58(2): 185-192. Apr. 1968. 41.8 C81
- 73422 THOMPSON, W. H., and HUSTON, B. Mastitis costs the dairymen millions. *J. Agr. [Melbourne]* 65(2):492-493. Nov. 1967. 23 V66J
- 73423 THORPE, E., and FORD, E. J. H. Development of hepatic lesions in calves fed with ragwort (*Senecio jacobaea*). *J. Compar. Pathol.* 78(2): 195-205. Ref. Apr. 1968. 41.8 J82
- 73424 TRAWKA, S. Rumenotomy in cattle in the case of intoxication caused by fertilizers. (Pol) *Medycyna Weterynaryjna* 24(2):125. Feb. 1968. 41.8 M463
- 73425 U. S. AGRICULTURAL RESEARCH SERV. ANIMAL DISEASE AND PARASITE RESEARCH DIV. Liver flukes in cattle. U. S. D. A. Leaflet 493, slightly rev., 8 p. Feb. 1968. 1 Ag84L
- 73426 UEBERSCHAR, S. Cytological studies in bovine leukosis. (Ge) *Deut. Vet. Ges. Ber. 7th Congr.* 163-173. Ref. 1968. 41.9 D482  
English summary.
- 73427 UEBERSCHAR, S. Cytological studies in bovine leukosis. (Ge) *Zentralbl. Veterinarmed. Reihe B*, 15(1):163-173. Ref. Feb. 1968. 41.8 Z52  
English summary.  
Lymphocyte study.
- 73428 URBANECK, D. Two morphologically different types of lymphocytes in bovines. (Ge) *Arch. Exp. Veterinarmed.* 21(3):795-800. Ref. 1967. 41.8 Ex7  
English summary.
- 73429 UZYCKI, Z. Analysis of the cesarean section of cattle; four methods analyzed. (Pol) *Med. Weter.* 24(3):156-159. Mar. 1968. 41.8 M463  
English summary.
- 73430 VAN PELT, R. W., and LANGHAM, R. F. Synovial fluid changes produced by infectious arthritis in cattle. *Amer. J. Vet. Res.* 29(3):507-516. Ref. Mar. 1968. 41.8 Am3A
- 73431 VETTERLEIN, W. Electron-microscopical findings in the lingual mucosa of healthy and foot-and-mouth-diseased cattle. (Ge) *Arch. Exp. Veterinarmed.* 21(3):731-746. Ref. 1967. 41.8 Ex7  
English summary.
- 73432 VOLOSKOV, P. A., LUCHKO, M. A., and KONNOVA, Z. S. Development of methods of recovering causative agent of cattle vibriosis. (Rus) *Veterinariya* 1:102-103. 1968. 41.8 V6426  
*Vibrio fetus* and *V. bubulus*.
- 73433 VOSKOBOINIKOV, V. M. The effect of novocain on contractive function of the uterus of cows. (Rus) *Veterinariya* 3:78. 1968. 41.8 V6426
- 73434 WALSUM, J. VAN. Combination of caesarean section and embryotomy in birth of two grown together calves. (Du) *Tijdschr. Diergeneesk.* 93(7):457-458. Apr. 15, 1968. 41.8 T431  
English summary.
- 73435 WASHINGTON, STATE UNIVERSITY. EXTENSION SERV. Fly control on dairy farms. *Wash. State Univ. Ext. E. M.* 2624, rev., 4 p. Jan. 1967. 275.29 W27Mi  
Chemical control.
- 73436 WEISS, E., and BAUR, P. Experimental studies on chronic copper poisoning of calf. (Ge) *Zentralbl. Veterinarmed. Reihe A*, 15(2):156-186. Mar. 1968. 41.8 Z5  
English summary.  
Review of the literature.
- 73437 WHITE, F., and RATTRAY, E. A. S. The in vitro effect of ketone bodies on the growth curves of mastitis organisms in milk. *J. Compar. Pathol.* 78(2):179-188. Ref. Apr. 1968. 41.8 J82  
Collected from a cow.



- 73438 WHITLOCK, R., and MONTAGUE, D. The cattle plague and its aftermath. *Agr. Merchant* 48(3):50-51, 53-55, 57-60, 63. Mar. 1968. 10 Ag89  
Foot-and-mouth disease in Great Britain.
- 73439 WIEGAND, D. Comparative investigations of staining methods which provided for a distinction between live and dead mammalian cells. (Ge) *Arch. Exp. Veterinarmed.* 21(3):693-699. 1967. 41.8 Ex7  
English summary.  
Cattle.
- 73440 WILLIAMS, E. I., and JONES, E. W. Blood transfusions during patent bovine anaplasmosis. *Amer. J. Vet. Res.* 29(3):703-715. Ref. Mar. 1968. 41.8 Am3A
- 73441 WINNICK, M. F., and WINNICK, T. Biosynthesis of a discrete glycoprotein: bovine luteinizing hormone. *Nat. Acad. Sci. Proc.* 59(3):1009-1015. Ref. Mar. 1968. 500 N21P
- 73442 WOODS, G. T., and others. Acute infectious bovine rhinotracheitis and salmonellosis in a dairy herd. *Amer. Vet. Med. Ass. J.* 152(10):1530-1535. Ref. May 1968. 41.8 Am3  
L. E. Hanson, G. H. Swenson, and H. E. Rhoades, joint authors.
- 73443 WRIGHT, E. Just how much does mastitis cost? *Hoard's Dairyman* 113(9):592. May 10, 1968. 44.8 H65
- 73444 WRIGHT, F. C., and others. Hemic concentrations of oximes given intravenously to cattle. *Amer. J. Vet. Res.* 29(1):39-45. Jan. 1968. 41.8 Am3A  
R. L. Younger, B. N. Gilbert, and J. C. Riner, joint authors.
- 73445 ZHURAVLEV, V. V., and AKHUNOV, KH. A. Experience of cattle grub invasion eradication. (Rus) *Veterinariya* 3:54-55. 1968. 41.8 V6426
- Miscellaneous
- 73446 ADELHELM, R. Which form of beef cattle rearing? (Ge) *DLZ-Landtech. Z.* 19(3):122-123. Mar. 1968. 58.8 T677  
AGABEILI, A. A. Buivoly [Buffaloes]. *Moskva, Kolos*, 1967. 295 p. SF213.A35  
Bibliography, p.281-294.
- 73447 ALIEVA, R. A. Calf raising in half-open barns in Azerbaijan. (Rus) *Veterinariya* 3:87-88. 1968. 41.8 V6426
- 73449 APPLEMAN, R. D., and LABEN, R. C. Milk fat determinations in Dairy Herd Management Association. *J. Dairy Sci.* 51(4):615-617. Apr. 1968. 44.8 J822
- 73450 ARIZONA. UNIVERSITY. AGRICULTURAL EXTENSION SERV. Arizona Dairy Herd Improvement Associations annual summary, October 1966-September 1967, by W. R. Van Sant. Tucson, 1967? 29 p. 275.29 AR42AD  
Includes records.
- 73451 BOUGLER, J. A look at cattle raising in Norway. (Fr) *Rev. Elevage* 23(4):53-54, 57, 59. (Cont.) Apr. 1968. 49 B462
- 73452 CALIFORNIA CATTLEMEN'S ASSOCIATION. 51st annual convention. *Calif. Cattleman* 51(2):7-8, 15-16, 26-27, 29, 31, 33, 35. Feb. 1968. 43.8 C12  
Includes two addresses, and resolutions.
- 73453 CHILLINGWORTH, C. A. Shade helps cows and cans. *S. Australia J. Agr.* 71(8):265. Mar. 1968. 23 So84
- 73454 CORLEY, E. L. Factors limiting dairy production. *Span* 11(1):28-31. 1968. 464.8 Sp2  
Effects of breeding, feeding and diseases.
- 73455 CUNNINGHAM, E. P., and HENDERSON, C. R. An iterative procedure for estimating fixed effects and variance components in mixed model situations. *Biometrics* 24(1):13-25. Mar. 1968. 442.8 B5224  
Application to a large body of beef cattle data.
- 73456 CURTO, G. M. Open-air raising: permanent litter or bunks? (It) *Riv. Zootec.* 41(2):72-79. Feb. 1968. 49 R52  
Cattle; includes designs for loose housing.
- 73457 DIMICK, P. S., and WALKER, H. M. Effect of environmental factors on monocarbonyl potential in fresh bovine milk fat. *J. Dairy Sci.* 51(4):478-482. Ref. Apr. 1968. 44.8 J822  
Effect of season and lactation stage.
- 73458 EVANS, K. [American] Angus Association roundup. *Calif. Cattleman* 51(3):10-13. Mar. 1968. 43.8 C12
- 73459 HESSELBARTH, K. Large and small milking advisory service. (Ge) *Unser Milchvieh* 20(1):5-7. Jan. 1968. 43.8 Un7
- 73460 HRGOVIC, N., CVETKOVIC, LJ., and TRBOJEVIC, G. Hemp waste utilization for deep litter in loose housing of cattle. (Se) *Vet. Glas.* 21(5):419-423. 1967. 41.8 J93  
English summary.
- 73461 ILLINOIS. UNIVERSITY. COOPERATIVE EXTENSION SERV. IN AGRICULTURE AND HOME ECONOMICS. Report of Dairy Herd Improvement Associations in Illinois, February, 1968, by J. G. Cash, L. R. Fryman, G. W. Harpestad, and R. V. Johnson. Urbana, 1968. 12 p., map. 275.29 IL622
- 73462 KUROWSKA, M. Research on cow performance testing methods. (Pol) *Nowe Roln.* 17(3):23-25. Feb. 1/15, 1968. 20.5 N86
- 73463 LESPERANCE, R. Specialization aspects in milk production in Quebec. *Agriculture [Montreal]* 25(1):5-9. Mar. 1968. 7 Ag72  
-Dairy farm management.
- 73464 LOBKOVA, A. I. The influence of exercise on course of postnatal period in cows kept in stables. (Rus) *Veterinariya* 3:72-74. 1968. 41.8 V6426
- 73465 MEIN, G. A. Stimulating milkers is good business. *J. Agr. [Melbourne]* 65(2):473-475. Nov. 1967. 23 V66J
- 73466 MUELLER, R. G. Costs of cow-calf ranching in northern interior Washington. *Wash. Agr. Exp. Sta. Circ.* 481, 22 p. Jan. 1968. 100 W27S
- 73467 OSTERGOTLANDS LANS HUSHALLNINGSSALLSKAP. CENTRALA KONTROLLFORENINGEN. Redogorelse [Report of the Central Recording Association of Ostergotland Province Agricultural Society], 1966-1967, v. 32. Hallsta, 1968. 56 p., map. 11 Sw32H  
Dairy cattle and swine.
- 73468 PAK, D. N., ed. Krupnyi rogiatyi skot Kazakhstana [Cattle in Kazakhstan]. Alma-Ata, Kainar, 1967. 223 p. SF196.K3P3
- 73469 PHILLIPS, D. S. M. Changes in intramammary pressure and distribution of milk in the udder due to withdrawal at varying intervals after establishment of the milk ejection response. *New Zeal. J. Agr. Res.* 11(1):47-58. Ref. Feb. 1968. 23 N4892
- 73470 PUHAC, I., and others. Results of comparison of loose and closed housing of dairy cattle. (Se) *Vet. Glas.* 21(6):471-478. 1967. 41.8 J93  
R. Beslin, S. Pecar, L. Zdravkovic, and N. Hrgovic, joint authors.  
English summary.
- 73471 RAY, M. L., and others. Weight, grade, and value of beef calves as affected by cow quality, forage quality, season of birth, creep feeding, and sex. *Ark. Agr. Exp. Sta. Bull.* 729, 25 p. Ref. Jan. 1968. 100 Ar42  
A. E. Spooner, C. J. Brown, R. M. Smith, and R. D. Child, joint authors.
- 73472 SERBAN, D. Control of harmful suckling in calves and mutual suckling in dairy cattle. (Rum) *Rev. Zooteh. Med. Vet.* 18(3):31-37. Ref. Mar. 1968. 49 P943  
English summary.
- 73473 VIND, R. Impressions from a study trip in USA. (3.-21. October 1967). (Da) *Danske Dyr-laegefor. Medlemsbl.* 51(5):155-165. Mar. 1, 1968. 41.9 D23  
Dairy farming and dairy cattle feeding.
- 73474 WENIGER, J. H., and ENGELKE, F. Principles and experiences in beef cattle rearing. II. (Ge) *Tierzuchter* 20(4):99-101. Feb. 20, 1968. 49 T445
- 73475 WREFORD, D. Consider these points when choosing stock for feedlots. *Good Farming* 19(1):22-23. Feb. 1968. 7 G59  
Beef cattle in Canada.

## DOGS AND CATS

Breeds and Breeding

- 73476 COMMITTEE ON STANDARDIZED GENETIC NOMENCLATURE FOR CATS. Standardized genetic nomenclature for the domestic cat. *J. Hered.* 59(1):39-40. Ref. Jan./Feb.1968. 442.8 Am3
- 73477 DREUX, P. Gene frequencies in the cat population of a French rural district. *J. Hered.* 59(1):37-39. Jan./Feb.1968. 442.8 Am3

Feeds and Feeding

- 73478 SMITH, F. H. Chemical composition of canned dog foods. *Irish Vet. J. (n.s.)* 22(2):22-27. Feb.1968. 41.8 Ir4

Veterinary Medicine

- 73479 ADAMS, E. W. Etiologic studies on the canine venereal tumor. *Tuskegee Vet.* 12(1):9-11. Ref. Fall/Winter 1968. 41.8 T87
- 73480 ALLEN, D. T., and DEWHURST, L. H. Diagnosis and signs of intervertebral prolapse in the dog. *Ga. Vet.* 20(2):14-17. Mar./Apr.1968. 41.8 G29
- 73481 ANDERSON, D. C. Corticosteroid overdosage in dogs. *New Zeal. Vet. J.* 16(1/2):18-19. Jan./Feb.1968. 41.8 N483  
Glucocorticoids used.
- 73482 ANDERSON, J. J. B., and COMAR, C. L. Strontium retention as a function of age in the dog. *Radiat. Res.* 34(1):153-169. Ref. Apr. 1968. 334.8 R11
- 73483 ANDERSON, L. J. Arterial disease in canine interstitial nephritis. *J. Pathol. Bacteriol.* 95(1):47-53. Ref. Jan.1968. 448.8 J82
- 73484 ANDERSON, L. J. The follicular arterioles of the spleen in canine interstitial nephritis. *J. Pathol. Bacteriol.* 95(1):55-58. Ref. Jan.1968. 448.8 J82
- 73485 ANDERSON, L. J. The glomeruli in canine interstitial nephritis. *J. Pathol. Bacteriol.* 95(1):59-65. 448.8 J82
- 73486 ASTIGARRAGA, J. L., and MOSCONI, R. E. Seminoma in an ectopic testis of the dog. (*Sp*) *Gac. Vet.* 29(209):559-560. Dec.1967. 41.8 G112
- 73487 AZABU VETERINARY COLLEGE. DEPT. OF SURGERY. Physiological measurements in canine electrocardiography in adult mongrel dogs. (*Ja*) *Jap. Vet. Med. Ass. J.* 20(6):15-17. June 1967. 41.9 J275
- 73488 BAGGOT, J. D. Influence of urinary pH on persistence of plasma levels of sulphonamides in dogs. *Vet. Rec.* 82(9):266-267. Mar.1968. 41.8 V641
- 73489 BAKER, K. P. Skin allergy of the cat and dog. *Irish Vet. J. (n.s.)* 22(3):47-50. Ref. Mar.1968. 41.8 Ir4
- 73490 BARROWS, G. T. Canine tearing operation; satisfying to client and surgeon. *Norden News* 43(2):26-29. Spring 1968. 41.8 N75
- 73491 BARTELS, K. P. Diagnosis and therapy of acute accidents of dog. (*Ge*) *Prakt. Tierarztl.* 49(4):159-161. Apr.1, 1968. 41.8 P882
- 73492 BAUER, M. Clinical observations on the treatment of stomach and intestinal diseases in dogs and cats with Lekosept. (*Se*) *Vet. Glas.* 21(6):505-509. 1967. 41.8 J93  
English summary.
- 73493 BLAKE, J. A. Perineal urethrostomy in cats. *Amer. Vet. Med. Ass. J.* 152(10):1499-1506. Ref. May 1968. 41.8 Am3
- 73494 BODKHE, U. C. Treatment of eczema with ekzebol in dogs. *Indian Vet. J.* 45(1):81-83. Jan.1968. 41.8 In2
- 73495 BORRELL, S. Beta-glucuronidase activity in adrenal gland, liver, spleen, kidney, and serum of cats and guinea pigs during maturation. *Gen. Compar. Endocrinol.* 10(1):21-25. Ref. Feb.1968. 444.8 J82

- 73496 BRACK, M., and LAMINA, J. Mass infection with *Echinococcus granulosus* in a dog. (*Ge*) *Deut. Tierarztl. Wochenschr.* 75(4):95-96. Feb.15, 1968. 41.8 D482  
English summary.
- 73497 BUCHANAN, J. W., DEAR, M. G., and PYLE, R. L. Medical and pacemaker therapy of complete heart block and congestive heart failure in a dog. *Amer. Vet. Med. Ass. J.* 152(8):1099-1109. Ref. Apr.1968. 41.8 AM3
- 73498 CAPATINA, V., and ONEA, M. Radiography of experimental intestinal occlusion. (*Fr*) *Rec. Med. Vet.* 144(2):127-140. Feb.1968. 41.8 R24  
English summary.  
In the dog.
- 73499 CAPEN, C. C., MARTIN, S. L., and KOESTNER, A. The ultrastructure and histopathology of an acidophil adenoma of the canine adenohypophysis. *Pathol. Vet.* 4(4):348-365. Ref. 1967. 41.8 P27
- 73500 CHANDLER, E. A. Failure of an impregnated cellulose strip to detect glycosuria. *Vet. Rec.* 82(5):144-145. Feb.3, 1968. 41.8 V641  
In the dog; for the diagnosis of diabetes.
- 73501 CLARK, K. A. *Spirocera lupi* infection in two central Texas dogs. *Southwest. Vet.* 21(3):211-212. Spring 1968. 41.8 So82
- 73502 CRIGHTON, G. W. The hematology of lymphosarcoma in the cat. *Vet. Rec.* 82(6):155-157. Ref. Feb.1968. 41.8 V641
- 73503 DAVIES, R. C., and MASON, R. S. Abnormality of the trachea in a dog. *Vet. Rec.* 82(7):191-192. Feb.1968. 41.8 V641
- 73504 DIAZ, R., JONES, L. M., and WILSON, J. B. Antigenic relationship of the gram-negative organism causing canine abortion to smooth and rough *Brucellae*. *J. Bacteriol.* 95(2):618-624. Ref. Feb.1968. 448.3 J82
- 73505 DUBEY, J. P. *Toxoplasma* infection in English cats. *Vet. Rec.* 82(13):377-379. Ref. Mar.1968. 41.8 V641
- 73506 FLIPO, J., and CHALIFOUX, A. Stomachal intra-esophageal invagination in the pup. (*Fr*) *Econ. Med. Anim.* 9(1):52-55. Jan./Feb.1968. 41.8 Ec7
- 73507 FOWLER, E. H., KASZA, L., and KOESTNER, A. Enzyme histochemical comparison of the canine mastocytoma cell in vivo and in vitro. *Amer. J. Vet. Res.* 29(4):853-862. Ref. Apr. 1968. 41.8 Am3A
- 73508 FOWLER, N. G. The ototoxicity of neomycin in the dog. *Vet. Rec.* 82(9):267-268. Mar.1968. 41.8 V641
- 73509 FRYE, F. L., and TAYLOR, D. O. N. Pericardial and diaphragmatic defects in a cat. *Amer. Vet. Med. Ass. J.* 152(10):1507-1510. May 1968. 41.8 Am3
- 73510 FRYE, F. L., and FURMAN, D. P. Phthiriasis in a dog. *Amer. Vet. Med. Ass. J.* 152(8):113. Apr.1968. 41.8 AM3  
Identified as *Phthirus pubis*.
- 73511 GAGE, E. D. Brain tumor in a dog. *Auburn Vet.* 24(2):71-76. Winter 1968. 41.8 Aul
- 73512 GEMMELL, M. A., and SHEARER, G. C. Buprenorphine hydrochloride; its efficiency against *Echinococcus granulosus*. *Vet. Rec.* 82(9):252-256. Mar.1968. 41.8 V641  
In dogs.
- 73513 GOULDEN, B. E. Assessment of the usefulness of the examination of a gram smear of fresh uncentrifuged urine in the determination of significant bacteria in dogs. *New Zeal. Vet. J.* 16(1/2):1-2. Jan./Feb.1968. 41.8 N483
- 73514 GRETILLAT, S., and VASSILIADIS, G. Comparative receptivity of cat and domestic swine to the west African strain of *Trichinella spiralis* (Owen, 1835). (*Fr*) *Acad. Sci. C. R., Ser. D.* 266(11):1139-1141. Mar.11, 1968. 505 P21
- 73515 HARRISON, M. J., and others. The virus of canine distemper in cell culture. I-II. *J. Compar. Pathol.* 78(2):121-139. Ref. Apr.1968. 41.8 J82  
F. A. Smith, J. J. Graydon, and D. T. Oxer, joint authors.



- 73516 HATTANGADY, S. R., and GEORGE, P. O. Haematuria due to foreign body in the urethra of a male dog; a case report. *Indian Vet. J.* 45 (2):158-159. Feb.1968. 41.8 In2
- 73517 HUROV, L., and SEER, G. External Kirschner clamp fixation with intramedullary pinning for distal femoral epiphyseal fracture repair. *Can. Vet. J.* 9(2):31-40. Feb.1968. 41.8 R3224 In the dog.
- 73518 JACKSON, W. F. Skin problems in small animals. *Southern Vet.* 5(1):7-12. Jan.1968. 41.8 So83 Chiefly dogs.
- 73519 JACQUIER, C. Pylorus adenocarcinoma of dog. (Fr) *Schweiz. Arch. Tierheilk.* 110(2):95-97. Ref. Feb.1968. 41.8 Sch9 English summary.
- 73520 JOHNSON, M. I. A case of blastomycosis in the dog. *Tuskegee Vet.* 12(1):12-14. Ref. Fall/Winter 1968. 41.8 T87
- 73521 JUROV, L., and SEER, G. Intramedullary Steinmann pinning of the radius in radial-ulnar fractures in the dog. *Canad. Vet. J.* 9(4):85-89. Apr.1968. 41.8 R3224
- 73522 KAPLAN, B. Tonsillectomy with minimal hemorrhage in dogs. *Amer. Vet. Med. Ass. J.* 152(7):989. Apr.1,1968. 41.8 Am3
- 73523 KARPAS, A., and others. Canine tracheobronchitis: isolation and characterization of the agent with experimental reproduction of the disease. *Arch. Port. Sci. Biol.* 127(1):45-52. Jan. 1968. 442.8 Sp1  
N. W. King, F. G. Garcia, F. Calvo, and R. E. Cross, joint authors.
- 73524 KASZA, L., and ADLER, A. Growth rate and mitotic activity of established canine thyroid adenocarcinoma and canine melanoma cell lines. *J. Compar. Pathol.* 78(2):141-147. Ref. Apr.1968. 41.8 J82
- 73525 KASZA, L., and GRIESEMER, R. A. The production of cytopathic changes in canine cell lines by infectious agents; cell lines derived from melanoma and thyroidal carcinoma. *Pathol. Vet.* 4(4):378-390. Ref. 1967. 41.8 P27  
*Toxoplasma gondii* and *Histoplasma capsulatum*.
- 73526 KAY, R. S. Delayed hernia of abdominal viscera. *Vet. Rec.* 82(7):191. Feb.1968. 41.8 V641 In the cat.
- 73527 KAY, R. S. Hernia of the diaphragm with intussusception. *Vet. Rec.* 82(7):191 A. Feb.1968. 41.8 V641 In the dog.
- 73528 KHAN, A. Q. *Shigella* infection in animals in the Sudan. *British Vet. J.* 124(4):171-173. Ref. Apr.1968. 41.8 V643  
Includes isolation from a dog and cat with enteritis.
- 73529 KMENT, A., and DEIGNER, E. Topography of the skin temperature in the dog. (Ge) *Zentralbl. Veterinarmed. Reihe A*, 15(2):104-113. Ref. Mar.1968. 41.8 Z5 English summary.
- 73530 KREYCIK, R. C. Adaptation of a tapered arterial catheter as an endotracheal tube. *Pract. Vet.* 2:45-46. Mar./Apr.1968. 41.8 AL5 Application to cats.
- 73531 KUTTNER, J. Report on experience with a new wound therapy for the large and small animal practice. (Ge) *Prakt. Tierarzt* 49(3):109-111. Mar.1,1968. 41.8 P882  
Wiotax-powder tested on cats, dogs, and piglets.
- 73532 LERNER, M. M., and BREGMAN, J. Surgical correction of congenital atresia ani. *Mod. Vet. Pract.* 49(4):86-87. Apr.1968. 41.8 N812 In the dog.
- 73533 LIU, S. K., and CARB, A. V. Erythroblastic leukemia in a dog. *Amer. Vet. Med. Ass. J.* 152(10):1511-1516. Ref. May 1968. 41.8 Am3
- 73534 LUCKE, V. M. Renal disease in the domestic cat. *J. Pathol. Bacteriol.* 95(1):67-91. Ref. Jan.1968. 448.8 J82
- 73535 MADHAVAN, T. V., BELAVADY, B., and GOP-LAN, C. Pathology of canine black tongue. *J. Pathol. Bacteriol.* 95(1):259-263. Ref. Jan. 1968. 448.8 J82  
Pellagra in India.
- 73536 MCDONALD, A. Case report of three mycotic infections. *Southwest. Vet.* 21(3):239-240. Spring 1968. 41.8 So82 In dogs and a cat.
- 73537 MCINTOSH, D. A case of canine scrotal abscess. *Southwest. Vet.* 21(3):234-235. Spring 1968. 41.8 So82
- 73538 MICHALSKA, Z., ZALEWSKA-PALIDER, H., and KAMINSKI, A. A comparative appraisal of inhealing of some suturing materials applied in surgery. (Pol) *Medycyna Weterynaryjna* 24 (2):70-73. Ref. Feb.1968. 41.8 M463  
French summary.  
Observations on dogs.
- 73539 MULLER, L. F., ACKERMANN, O., and SCHOBEL, C. Research into immunity from distemper in Berlin dogs using the virus neutralisation test. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 81(5):81-83. Mar.1,1968. 41.8 B45  
English summary.
- 73540 MURKIBHAVI, G. R., and MATHEW, Z. Clinical efficacy of "liver ext. otic solution" in canine otitis externa. *Indian Vet. J.* 45(1):77-80. Ref. Jan.1968. 41.8 In2
- 73541 NAGY, L., and WEIPERS, W. L. A study of bacteria and lethal factors in fluids from experimental intestinal obstruction in dogs. *J. Pathol. Bacteriol.* 95(1):199-210. Ref. Jan. 1968. 448.8 J82  
*Clostridium welchii*.
- 73542 NIEPAGE, H. Nuclear measurements of lymph node puncture cells from dogs with lymphadenosis. (Ge) *Deut. Vet. Ges. Ber. 7th Congr.*:185-192. 1968. 41.9 D482  
English summary.
- 73543 NIEPAGE, H. Nuclear measurements of lymph node puncture cells from dogs with lymphadenosis. (Ge) *Zentralbl. Veterinarmed. Reihe B*, 15(1):185-192. Feb.1968. 41.8 Z52  
English summary.
- 73544 PIERARD, J. Calcification of the laryngeal cartilage of the dog. (Fr) *Econ. Med. Anim.* 9(1):46-51. Jan./Feb.1968. 41.8 Ec7
- 73545 PIERCE, K. R. On the pathogenesis of lesions in canine hip dysplasia. *Southwest. Vet.* 21(3):181-184. Ref. Spring 1968. 41.8 So82
- 73546 PRASAD, M. C., and MOHAN, K. Hydronephrosis in cat. *Indian Vet. J.* 45(2):107-108. Feb. 1968. 41.8 In2
- 73547 PRICE, W. J., BOWEN, J. M., and WOOLEY, R. E. Efficacy of ethyl alcohol in reducing canine and bovine cutaneous bacterial flora. *Amer. Vet. Med. Ass. J.* 152(7):990-995. Ref. Apr.1,1968. 41.8 Am3
- 73548 PYLE, R. L. Some clinical aspects of heart disease in the dog. *Auburn Vet.* 24(2):47-50. Winter 1968. 41.8 Aul
- 73549 RIEDEL, W. Kidney findings in uremia in cats. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 81(8):159-161. Ref. Apr.15,1968. 41.8 B45  
English summary.
- 73550 ROBERTSON, B. T., and RAMY, C. T. Reversible heart block in a dog. *Amer. Vet. Med. Ass. J.* 152(8):1110-1112. Apr.1968. 41.8 AM3
- 73551 ROBINSON, G. W. A comparison of licensed and hospital dog populations. *Amer. Vet. Med. Ass. J.* 152(9):1383-1389. Ref. May 1968. 41.8 Am3
- 73552 RUBIN, L. F. Medical management of glaucoma. *Mod. Vet. Pract.* 49(5):34-39. Ref. May 1968. 41.8 N812  
Chiefly in the dog.
- 73553 RUIZ PEREZ, M. A chamber for euthanasia. (Sp) *Veterinaria [Madrid]* 33(1):11-14. Jan. 1968. 41.8 V6429  
For dogs.

- 73554 SANDERSLEBEN, J. VON. Malignant mammary tumors of the bitch with special reference to prognosis. (Ge) Deut. Vet. Ges. Ber. 7th Congr.:111-115. Ref. 1968. 41.9 D482 English summary.
- 73555 SANDERSLEBEN, J. VON. Malignant mammary tumours of the bitch with special reference to prognosis. (Ge) Zentralbl. Veterinarmed. Reihe B, 15(1):111-115. Feb.1968. 41.8 Z52 English summary.
- 73556 SCHALM, O. W., and SWITZER, J. W. Bone marrow disease in the cat. I. Atypical granulocytic leukemia. Calif. Vet. 22(2):24-25,27-28. Apr.1968. 41.8 C12
- 73557 SCHIEFER, B. On canine wedge shaped vertebra. (Ge) Berliner Munchener Tierarztl. Wochenschr. 81(8):149-151. Apr.15,1968. 41.8 B45 English summary.
- 73558 SHORT, T. R. Experiences with a mobile support for paraplegic dogs. Amer. Vet. Med. Ass. J. 152(7):973-975. Apr.1,1968. 41.8 Am3
- 73559 SIMIC, V., and JOJIC, D. Anatomical-roentgenological studies of arterial vascularization of esophagus of dogs. (Ge) Tierarztl. Umsch. 23(4):163-166. Apr.1,1968. 41.8 T445
- 73560 SOMA, L., and KLIDE, A. M. Techniques and equipment for inhalation anesthesia in small animals. Amer. Vet. Med. Ass. J. 152(7):957-972. Ref. Apr.1,1968. 41.8 Am3 Chiefly dogs and cats.
- 73561 STRANDE, A. Excision of the femoral head for canine hip joint lesions. Nord. Veterinaarmed. 20(2):75-82. Ref. Feb.1968. 41.8 N813
- 73562 STRANDE, A. Intra-articular injection of osmic acid in chronic osteoarthritis in the dog; a preliminary report. Nord. Veterinaarmed. 20(2):83-85. Feb.1968. 41.8 N813
- 73563 TADIC, M. From experience in the use of Ombredanne's mask. (Se) Vet. Glas. 21(6):511-512. 1967. 41.8 J93 In dog anesthesia.
- 73564 TEODOSIC, S. Prevention of intrauterine ascariasis of puppies by the control of Ascaridae in pregnant dogs. (Se) Vet. Glas. 21(4):335-342. Ref. 1967. 41.8 J93 English summary.
- 73565 THRASHER, J. P., and CLANTON, J. R. Epizootiologic observations of canine filariasis in Georgia. Amer. Vet. Med. Ass. J. 152(10):1517-1520. Ref. May 1968. 41.8 Am3
- 73566 TOIVOLA, B. E., and MATHER, G. W. Puerperal tetany of the bitch. Norden News 43(1):16-17,20-21. Winter 1968. 41.8 N75 Treatment.
- 73567 UBERREITER, O. Clinical findings in mammary tumors in the dog and cat. (Ge) Deut. Vet. Ges. Ber. 7th Congr.:116-123. 1968. 41.9 D482 English summary.
- 73568 UBERREITER, O. Clinical findings in mammary tumours in the dog and cat. (Ge) Zentralbl. Veterinarmed. Reihe B, 15(1):116-123. Feb. 1968. 41.8 Z52 English summary. Includes discussion.
- 73569 VENABLE, J. H., and EWING, S. A. Fine structure of Haemobartonella canis (Rickettsiales, Bartonellaceae) and its relation to the host erythrocyte. J. Parasitol. 54(2):259-268. Apr.1968. 448.8 J824
- 73570 VERWER, M. A. J. Lens extraction in the dog. (Du) Tijdschr. Diergeneesk. 93(8):431-445. Apr.15,1968. 41.8 T431 English summary.
- 73571 WEISENBURG, H. Citarin (Tetramisole) as anthelmintic for dogs. (Ge) Berliner Munchener Tierarztl. Wochenschr. 81(4):69-71. Ref. Feb.15,1968. 41.8 B45 English summary.
- 73572 YAGI, H., and SHIMIZU, T. Detection of antibiotic-fast staphylococci in otitis externa in dogs. (Ja) J. Vet. Med. Ass. J. 21(3):102-106, 118. Mar.1968. 41.9 J275

- 73573 YAKSTIS, J. J., and others. Use of thiabendazole medicated feed for prophylaxis of four common roundworm infections in dogs. J. Parasitol. 54(2):359-367. Apr.1968. 448.8 J824  
J. R. Egerton, W. C. Campbell, and A. C. Cuckler, joint authors.

#### Miscellaneous

- 73574 HURNI, H. Raising laboratory dogs. (Ge) Nord. Veterinaarmed. 20(2):49-67. Ref. Feb. 1968. 41.8 N813 English summary.

#### FUR ANIMALS—PEN RAISED

##### Breeds and Breeding

- 73575 CAPOBIANCO, B. The complex chinchilla. Fur Trade J. Can. 46(2):22-23. Feb.1968. 410 F965 Breeding.
- 73576 LAURIDSEN, J., and CARAWAY, M. E. Basic genetics for the chinchilla breeder. V. Empress Chinchilla 24(3):10. Mar.1968. 412.628 N21
- 73577 LAURIDSEN, J. Basic genetics for the chinchilla breeder. VI. Empress Chinchilla 24(4):12-13. Apr.1968. 412.628 N21

##### Feeds and Feeding

- 73578 KIRK, R. J. Can freshwater fish meal replace whole fish in mink growth diets? Amer. Fur Breeder 41(4):12-13. Apr.1968. 410 Am33
- 73579 MARSH, R. F. Prophylactic feeding practices. Amer. Fur Breeder 41(2):19. Feb.1968. 410 Am33 Uncontaminated feed for minks.

##### Veterinary Medicine

- 73580 AULERICH, R. J., and SWINDLER, D. R. Description of the permanent dentition of ranch mink. Mich. Agr. Exp. Sta. Quart. Bull. 50(3):269-275. Ref. Feb.1968. 100 M58S In relation to fur production.
- 73581 BORISOV, V. N. Botulism in young silver-Black foxes and in the Blue Polar foxes. (Rus) Krolikovod. Zverovod. 1:36-37. Jan./Feb.1968. 40.28 K91
- 73582 BOWNESS, E. R. Light and the pregnant mink. Fur Trade J. Can. 46(2):4-5. Feb.1968. 410 F965
- 73583 FLETCH, A. L. Hemorrhagic pneumonia in mink. Fur Trade J. Can. 46(2):14. Feb.1968. 410 F965
- 73584 LAUERMAN, L. H. Tissue culture mink enteritis vaccine. Nat. Fur News 40(3):11. Apr. 1968. 412.628 R59
- 73585 MARTY, E. W., and SCHWARTZ, T. M. Distemper vaccine stability, the effect of light and heat during the vaccination process. Fur Trade J. 46(4):14-15. Apr.1968. 410 F965 Minks.
- 73586 NORDSTOGA, K. Pseudomonas infections in mink with special reference to Pseudomonas vasculitis in pulmonary lesions. Acta Vet. Scand. 1:33-40. Ref. 1968. 41.8 AC87
- 73587 RUSSELL, J. D., and LESAR, S. Further research on the effect of light on distemper vaccine stability during the vaccination process. Nat. Fur News 40(3):10. Apr.1968. 412.628 R59 Minks.
- 73588 ZDUNKIEWICZ, T., and GRZEBULA, S. Enzootic colibacteriosis in ferrets. (Pol) Medycyna Weterynaryjna 24(2):93-94. Feb.1968. 41.8 M463

#### Miscellaneous

- 73589 SWEENEY, S. Chinchilla reflections. III. Empress Chinchilla 24(4):17-18. Apr.1968. 412.628 N21 Housing.



## HORSES AND MULES

Breeds and Breeding

- 73590 BROWN, S. Stallion parade and judging clinic. West. Horseman 33(4):10,120,122-123. Apr. 1968. 42.8 W522
- 73591 BRUINS, P. J. Breeding of trotters and race-horses in the Netherlands. (Du) Tijdschr. Diergeneesk. 93(7):446-454. Apr.15,1968. 41.8 T431  
English summary.
- 73592 DESKUR, S., and SASIMOWSKI, E. The breeding of full blood horses in the Soviet Union. (Pol) Medycyna Weterynaryjna 24(2):120-124. Ref. Feb.1968. 41.8 M463
- 73593 DUNAVANT, M. L. Equine incoordination (Wobbler syndrome) in a Thoroughbred. Southwest. Vet. 21(3):232-234. Spring 1968. 41.8 So82
- 73594 JOCKEY CLUB. First supplement to volume XXIV of the American Stud Book-foals of 1966. New York, 1968. 967 p. 42.9 Am31
- 73595 KOVACEVIC, I. Possibilities for breeding horses in Yugoslav farms. (Se) Vet. Glas. 21(4):369-371. 1967. 41.8 J93
- 73596 MCGRAW, D. C. A case of scrotal hemotoma in the stallion. Southwest. Vet. 21(3):237-238. Spring 1968. 41.8 So82

Feeds and Feeding

- 73597 CENTRO SPERIMENTALE ZOOTECNICO VETERINARIO "FARMI TALIA" (NERVIANO). Feeding the horses. (It) Riv. Zootec. 41(2):82-86. Feb.1968. 49 R52
- 73598 HOFFMAN, P. E. Equine forced feeding. Norden News 43(2):14-17, 20-21. Spring 1968. 41.8 N75  
Includes equipment.

Veterinary Medicine

- 73599 ALUJA, A. S. DE, and others. Effects of altitude on horses; the effect of movement from sea level to an altitude of 2,200 metres on certain physiological, hematological and biochemical parameters in horses before and after moderate exercise. Vet. Rec. 82(13):368-373. Ref. Mar.1968. 41.8 V641  
D. R. Gross, P. J. McCosker, and J. Svendsen, joint authors.
- 73600 AMBROZ, V. Senecio erraticus Bertol. ssp. barbaraefolius (Wimm. et Grab.) Beger as a cause of poisoning of horses. (Cz) Ziva 14(5):170-171, map. Sept.1966. 409.6 Z6
- 73601 BAKER, J. R. A suspected case of muscular dystrophy in a horse. Vet. Rec. 82(16):170-171. Feb.1968. 41.8 V641
- 73602 BANISTER, W. W., and PURVIS, A. D. Exercise electrocardiography in the horse by radio-telemetry. Amer. Vet. Med. Ass. J. 152(7):1004-1008. Apr.1,1968. 41.8 Am3
- 73603 BIRKELAND, R., and HAAKENSTAD, L. H. Intracapsular bony fragments of the distal tibia of the horse. Amer. Vet. Med. Ass. J. 152(10):1526-1529. May 1968. 41.8 Am3
- 73604 BOHN, F. K. Contribution to the therapy of lung and heart diseases of horse. (Ge) Prakt. Tierarzt 49(3):107-109. Ref. Mar.1,1968. 41.8 P882
- 73605 BURROWS, G. E. Corynebacterium equi infection in two foals. Amer. Vet. Med. Ass. J. 152(1119-1124. Ref. Apr.1968. 41.8 AM3  
Associated with pneumonia in horses.
- 73606 COFFMAN, J. R., and FISHBURN, F. J. Wasting disease of the horse. Norden News 43(1):10-14, 21. Winter 1968. 41.8 N75
- 73607 DOLENC, M. Tasks of veterinary services with regard to the new trends in horse breeding. (Se) Vet. Glas. 21(4):319-322. 1967. 41.8 J93
- 73608 DONAT, K. The so called Musculi brachiocephalicus of the horse. (Ge) Berliner Munchener Tierarztl. Wochenschr. 81(4):71-72. Feb.15,1968. 41.8 B45  
English summary.
- 73609 EVERS, W. D. Effect of furaltadone on stranglers in horses. Amer. Vet. Med. Ass. J. 152(9):1394-1398. May 1968. 41.8 Am3
- 73610 FERRIS, D. H., and others. A note on experimental rabies in the donkey. Cornell Vet. 58(2):270-277. Apr.1968. 41.8 C81  
L. Badiali, M. Abou-Youssef, and P. D. Beam-er, joint authors.
- 73611 FESSI, L. Contribution to "interfering" of horse. (Ge) Wien. Tierarztl. Monatsschr. 55(2):101-103. Feb.1968. 41.8 T345  
English summary.
- 73612 GOLDFIELD, M., and SUSSMAN, O. The 1959 outbreak of Eastern encephalitis in New Jersey. I-II. Amer. J. Epidemiol. 87(1):1-17, map. Ref. Jan.1968. 449.8 Am3
- 73613 GRIGOROVICI, C. Therapeutical suggestions for the control of foal bronchopneumonia. (Rum) Rev. Zootech. Med. Vet. 18(3):68-72. Mar.1968. 49 P943
- 73614 HORT, I. Mandibular fracture and fracture repair in a 26 year old Arab horse. British Vet. J. 124(4):140-142. Ref. Apr.1968. 41.8 V643
- 73615 HORT, I. Paper electrophoretic fractionation and chemical determination of horse serum proteins and lipoproteins. Amer. J. Vet. Res. 29(4):813-815. Ref. Apr.1968. 41.8 Am3A
- 73616 JACOB, M. T. Absence of turbinate bone structure in the equine. Southwest. Vet. 21(3):231-232. Spring 1968. 41.8 So82
- 73617 JAMES, V. S. A family tendency to equine sarcoids. Southwest. Vet. 21(3):235-236. Spring 1968. 41.8 So82
- 73618 KLINSKII, YU. D. Endometrial formations as source of gonadotrophic activity of mare's serum. (Rus) Veterinariya 3:80-83. 1968. 41.8 V6426
- 73619 KOBAYASHI, K., and KATAGIRI, T. Evaluation of some serum colloid tests in clinical practice on horses from the serum protein picture. (Ja) Jap. Vet. Med. Ass. J. 21(2):57-62. Ref. Feb.1968. 41.9 J275  
English summary.
- 73620 KONRAD, J. Bilirubinemia in the course of liver cirrhosis of horse. (Ge) Wien Tierarztl. Monatsschr. 55(2):84-93. Ref. Feb.1968 41.8 T345  
English summary.
- 73621 KONRAD, J. Dynamics of serum protein fractions in acute liver disease in the horse. (Ge) Zentralbl. Veterinarmed. Reihe A, 15(2):123-134. Ref. Mar.1968. 41.8 Z5  
English summary.
- 73622 KOWALISZYN, I. Some observations on the choice of methods of anesthesia in cesarean section of mares. (Pol) Medycyna Weterynaryjna 24(2):125. Feb.1968. 41.8 M463
- 73623 KROOK, L. Dietary calcium-phosphorus and lameness in the horse. Cornell Vet. 58(sup):59-73. Ref. Jan.1968. 41.8 C81  
Includes discussion.
- 73624 LANGNER, P. H. Giving shots. West. Horseman 33(4):22-23, 168. Apr.1968. 42.8 W522  
To horses.
- 73625 LOWE, J. E. Intussusception in three ponies following experimental enterotomy. Cornell Vet. 58(2):288-292. Apr.1968. 41.8 C81
- 73626 MARKEWICZOWA, Z., DZIEDZIUL, S. The level of iron in the blood serum and hematologic indicators of the immunized horses blood. (Pol) Med. Weter. 24(3):154-156. Mar.1968. 41.8 M463  
English summary.  
Immunized against tetanus.
- 73627 MIKUSZ, S. Remarks on intestinal prolapse following the stallion's castration. (Pol) Med. Weter. 24(3):180-181. Mar.1968. 41.8 M463
- 73628 MORGAN, J. P. Radiographic diagnosis of bone and joint diseases in the horse. Cornell Vet. 58(sup.):28-47. Ref. Jan.1968. 41.8 C81  
Includes discussion.
- 73629 NORRIS, H. J., TAYLOR, H. B., and GARNER, F. M. Equine ovarian granulosa tumours. Vet. Rec. 82(14):419-420. Ref. Apr.1968. 41.8 V641

- 73630 OSTROWSKI, L. Mortality of horses and cattle on peasant farms as related to zoohygiene. (Pol) Nowe Roln. 17(3):25-28. Feb.1/15,1968. 20.5 N86
- 73631 RAKER, C. W. Clinical observations of bone and joint diseases in horses. Cornell Vet. 58 (sup.):15-28. Ref. Jan.1968. 41.8 C81
- 73632 REUTER, U. Untersuchungen über die Aerosol-Therapie einiger unter dem Symptomen-Komplex der Pferdegrippe verlaufenden Erkrankungen der Atmungsorgane [Investigations on aerosol therapy of respiratory diseases occurring under the symptom-complex equine influenza]. Munich. Univ. Tierarztl. Fak. [Inaug.-Diss.] 42,88 p. 1967. 41.2 M9222  
English summary.  
Bibliography, p. 74-88.
- 73633 ROONEY, J. R. Biomechanics of equine lameness. Cornell Vet. 58(sup.):49-58. Ref. Jan. 1968. 41.8 C81
- 73634 SIKORA, Z. Contribution to the castration of stallions with abdominal cryptorchism. (Pol) Med. Weter. 24(3):182. Mar.1968. 41.8 M463
- 73635 SOVA, Z., and RICHTER, L. Values obtained in the BSF test in healthy horses during fasting. (Cz) Czech. Min. Zemedel. Lesního Hospodar. Ustav Vedeckotech. Inform. Vet. Med. 1:55-61. Ref. Jan.1968. 41.9 C333  
English summary.  
Bromsulphalein test.
- 73636 SYMPOSIUM ON EQUINE BONE AND JOINT DISEASES. [Papers.]. Cornell Vet. 58(sup.), 186 p. Ref. Jan.1968. 41.8 C81  
Herbert F. Schryver, chairman.
- 73637 U. S. AGRICULTURAL RESEARCH SERV. ANIMAL DISEASE AND PARASITE RESEARCH DIV. Infectious anemia (swamp fever) of horses, mules, and donkeys. U. S. D. A. Farmers' Bull. 2088, slightly rev., 10 p. Mar. 1968. 1 Ag84F
- Miscellaneous
- 73638 BARSALEAU, R. B. Some tips on showing the halter horses. West. Horseman 33(5):90,116-117. May 1968. 42.8 W522
- 73639 CLOSE, P. Leg pressure. West. Horseman 33(4):42-43. Apr.1968. 42.8 W522
- 73640 CLOSE, P., and BETTS, M. Teaching a horse to longe. West. Horseman 33(3):8-9. Mar. 1968. 42.8 W522
- 73641 FOREMAN, M. Cueing for the stop. West. Horseman 33(5):70-71. May 1968. 42.8 W522
- 73642 FREEMAN, J. Start him right. West. Horseman 33(5):42,44. May 1968. 42.8 W522
- 73643 GERMANY, L. How to sell your first horse. West. Horseman 33(2):44. Feb.1968. 42.8 W522
- 73644 MILLER, R. M. The dude string. West. Horseman 33(5):96,220-221. May 1968. 42.8 W522  
Driving horse.
- 73645 TANKERSLEY, H. C., and DUREN, E. Horse sense and safety for the beginner. Idaho. Agr. Coll. Ext. Bull. 492, 25 p. Jan.1968. 100 Id14
- 73646 VOLKER-CARPIN, R. Horses of the first kings of Israel. (Ge) Tierarztl. Umsch. 23(4):179-180,183-184. Apr.1,1968. 41.8 T445
- LABORATORY ANIMALS, SMALL
- Breeds and Breeding
- 73647 WATSON, M. L. Blind--a dominant mutation in mice. J. Hered. 59(1):60-64. Ref. Jan./Feb. 1968. 442.8 Am3
- Feeds and Feeding
- 73648 BAGLIONI, T., and others. Report on feeding exclusively with rape. II. Observations on guinea pigs. (It) Clin. Vet. 91(2):37-41. Ref. Feb.1968. 41.9 C61  
A. Locatelli, L. Longo, and F. Rodenghi, joint authors.  
English summary.  
Studies especially of the blood.
- 73649 HARTSOOK, E. W., and HERSHBERGER, T. V. Tissue cation content of rats: Effect of supplemental dietary amino acids in pyridoxine and potassium deficiencies. J. Nutr. 95(1):31-40. Ref. May 1968. 389.8 J82
- 73650 HOCK, A., and DARGEL, D. Influence of the biological value of dietary proteins on bone growth. (Ge) Arch. Tierernähr. 18(1):17-20. Ref. Feb.1968. 389.78 Ar22  
English summary.  
In rats.
- 73651 JOSHI, H. S. The effect of feeding on Leucaena leucocephala (Lam.) de Wit. on reproduction in rats. Australian J. Agr. Res. 19(2):341-352. Ref. Mar.1968. 23 Au783
- 73652 KORSRUD, G. O., and BELL, J. M. Effects of various heat and moisture treatments on myrosinase activity and nutritive value of solvent-extracted Crambe [abyssinica] seed meal. Can. J. Anim. Sci. 47(2):101-107. Ref. Aug.1967. 41.8 C163  
Experiments with mice.
- 73653 KORSRUD, G. O., and BELL, J. M. The feeding value of solvent-extracted Camelina [sativa] meal. Effects of levels fed, heat treatments and flavor supplements. Can. J. Anim. Sci. 47(2):109-114. Ref. Aug.1967. 41.8 C163  
Experiments with mice.
- 73654 SINGH, K. D., and others. An unrecognized nutrient for the guinea pig. J. Nutr. 94(4):534-542. Ref. Apr.1968. 389.8 J82  
E. R. Morris, W. O. Regan, and B. L. O'Dell, joint authors.
- 73655 SZEPESEI, B., and FREEDLAND, R. A. Time-course of changes in rat liver enzyme activities after initiation of a high protein regimen. J. Nutr. 94(4):463-468. Ref. Apr.1968. 389.8 J82
- Veterinary Medicine
- 73656 ANDREWS, T. L., and MISKUS, R. P. Tetraethylammonium chloride as an antidote for certain insecticides in mice. Science 159(3821):1367-1368. Ref. Mar.22,1968. 470 Sci2
- 73657 BARE, L. N., and others. Suppressed penicillin toxicity in immunized guinea pigs surviving challenge with Western equine encephalitis virus. J. Bacteriol. 95(2):714-715. Feb.1968. 448.3 J82  
R. F. Wiseman, B. O. Moore, and I. Ruchman, joint authors.
- 73658 BARTLET, A. L. An atypical action of acetylcholine on the striped muscle of the guinea-pig oesophagus. Quart. J. Exp. Physiol. Cog. Med. Sci. 53(2):175-180. Apr.1968. 447.8 Q1
- 73659 BARTLET, A. L. The effect of vagal stimulation and eserine on isolated guinea-pig oesophagus. Quart. J. Exp. Physiol. Cog. Med. Sci. 53(2):170-174. Apr.1968. 447.8 Q1
- 73660 BAUMAN, T. R., ANDERSON, R. R., and TURNER, C. W. Thyroid hormone secretion rates and food consumption of the hamster (Mesocricetus auratus) at 25.5° and 4.5°C. Gen. Compar. Endocrinol. 10(1):92-98. Ref. Feb.1968. 444.8 J82
- 73661 BLANE, H. H. The relationship between induced liver pathology and the sleeping time in rats and guinea pigs. Tuskegee Vet. 12(1):18-22. Ref. Fall/Winter 1968. 41.8 T87  
After the administration of chlordane and carbon tetrachloride.
- 73662 BURREN, C. H. Experimental toxocariasis. I-II. Z. Parasitenk. 30(2):152-170. Ref. Mar.5,1968. 442.8 Z33F  
Toxocara canis in mice.
- 73663 COX, H. W., and MILAR, R. Cross protection immunization by Plasmodium and Babesia infections of rats and mice. Amer. J. Trop. Med. Hyg. 17(2):173-179. Ref. Mar.1968. 448.8 Am326
- 73664 FREDETTE, V., GHYS, R., and PLANTE, C. Influence of irradiation on the susceptibility of the guinea-pig to infection with Clostridium welchii type A. J. Pathol. Bacteriol. 95(1):275-287. Ref. Jan.1968. 448.8 J82



- 73665 GEORGII, A., PRECHTEL, K., and LUDWIG, B. Differences in replication and transformation of the polyoma virus in the mouse, hamster and rat. (Ge) Deut. Vet. Ges. Ber. 7th Congr.: 56-64. Ref. 1968. 41.9 D482  
English summary.
- 73666 GEORGII, A., PRECHTEL, K., and LUDWIG, B. Differences in replication and transformation of the polyoma virus in the mouse, hamster and rat. (Ge) Zentralbl. Veterinarmed. Reihe B, 15(1):56-64. Ref. Feb.1968. 41.8 Z52  
English summary.
- 73667 HALLUM, J. V., YOUNGNER, J. S., and MERIGAN, T. C. Molecular species of circulating interferon in mice injected with Newcastle disease virus. Virology 34(4):802-804. Apr. 1968. 44.8 V81
- 73668 HAMILTON, P. B., and HUISINGH, D. Murine toxicity of *Agrobacterium tumefaciens*. J. Bacteriol. 95(3):901-906. Ref. Mar.1968. 44.8 J82
- 73669 HAMMER, D. Immunity to tumors. (Ge) Deut. Vet. Ges. Ber. 7th Congr.:51-55. 1968. 41.9 D482  
English summary.  
Laboratory animals.
- 73670 HUMPHREY, K. W. Induction of decidualomata in normal and histamine-depleted rats. Australian J. Biol. Sci. 21(2):331-339. Ref. Apr. 1968. 44.8 Au72
- 73671 IRAIZOZ LABARTA, A. Research studies on the use of fixed virus (p.V.1 strain) for the determination of the immunizing capacity in guinea pigs of rabies vaccines cultured in chick embryo (Flury LEP strain). (Sp) Veterinaria [Madrid] 32(11):653-662. (Concl.) Nov.1967. 41.8 V6429  
English summary.
- 73672 JONES, A. L. The foot and mouth disease virus content of guinea-pig epidermis after mechanical injury. J. Pathol. Bacteriol. 95(1):233-241. Ref. Jan.1968. 44.8 J82
- 73673 KIMBERLIN, R. H. RNA metabolism in the brains of mice clinically affected with scrapie. J. Compar. Pathol. 78(2):237-241. Ref. Apr. 1968. 44.8 J82
- 73674 KNAAK, J. B., and SULLIVAN, L. J. Metabolism of 3,4-dichlorobenzil N-methylcarbamate in the rat. J. Agr. Food Chem. 16(3):454-459. May/June 1968. 381 J8223
- 73675 LEVIER, R. R., and SPAZIANI, E. Influence of temperature on the incorporation of palmitic acid-U-<sup>14</sup>C into rat testicular lipids. J. Reprod. Fert. 15(3):365-372. Ref. Apr.1968. 44.8 J8222
- 73676 LOBO, A. A. Some considerations on Pasteur vaccine. (Sp) Gac. Vet. 29(208):505-506. Nov. 1967. 41.8 G112  
For anthrax; tests on guinea pigs and rabbits.
- 73677 PASTERNAK, G., and GRAFFI, A. Immunological studies with virus cell reciprocal effects with mouse leukemia virus. (Ge) Deut. Vet. Ges. Ber. 7th Congr.:65-72. Ref. 1968. 41.9 D482  
English summary.
- 73678 PASTERNAK, G., and GRAFFI, A. Immunological studies with virus cell reciprocal effects with a mouse leukemia virus. (Ge) Zentralbl. Veterinarmed. Reihe B, 15(1):65-72. Ref. Feb. 1968. 41.8 Z52  
English summary.
- 73679 POLATNICK, J., VANDE WOUDE, F. G., and ARLINGHAUS, R. B. Changes in protein and nucleic acid metabolism in baby hamster kidney cells infected with foot-and-mouth disease virus. Arch. Gesamte Virusforsch. 23(3):218-226. Ref. 1968. 44.8 Ar23
- 73680 SHIMIZU, T., ITO, Y., and SHIBATA, S. A new type in experimental intraperitoneal infection of staphylococci in mice. Tokyo. Nat. Inst. Anim. Health Quart. 8(1):8-15. Ref. Spring 1968. 41.9 T575Q
- 73681 SLEIGHT, S. D., and SINHA, D. P. Prevention of methemoglobin reduction in blood samples. Amer. Vet. Med. Ass. J. 152(10):1521-1525. May 1968. 41.8 Am3  
Samples from guinea pigs.
- 73682 SMITH, B. S. W., and NISBET, D. I. Biochemical and pathological studies on magnesium deficiency in the rat. I. Young animals. J. Compar. Pathol. 78(2):149-159. Ref. Apr.1968. 41.8 J82
- 73683 STUCK, B. Demonstration of specific antigens in spontaneous and induced tumors in mouse. (Ge) Deut. Vet. Ges. Ber. 7th Congr.:73-80. Ref. 1968. 41.9 D482  
English summary.
- 73684 STUCK, B. Demonstration of specific antigens in spontaneous and induced tumours in the mouse. (Ge) Zentralbl. Veterinarmed. Reihe B, 15(1):73-80. Ref. Feb.1968. 41.8 Z52  
English summary.
- 73685 THIELE, E. H., and others. Detection of R factor-bearing microorganisms in laboratory animals. J. Bacteriol. 95(3):1184. Mar.1968. 44.8 J82  
E. L. Dulaney, M. J. Carey, and D. Hendlin, joint authors.
- 73686 VERA, T., and others. Effect of lysogenicity on the virulence of *Bacillus anthracis*. Amer. J. Vet. 29(5):1059-1066. Ref. May 1968. 41.8 Am3A  
L. C. Grumbles, T. E. Franklin, and P. F. Jungerman, joint authors.
- 73687 WALES, R. G., and BRINSTER, R. L. The uptake of hexoses by pre-implantation mouse embryos in vitro. J. Reprod. Fert. 15(3):415-422. Ref. Apr.1968. 44.8 J8222  
Veterinary research.
- 73688 WILCOX, J. H., and NUSSBAUM, R. E. Observations on the chromosomes of spleen cells of mice affected with scrapie. Vet. Rec. 82(6): 171-172. Feb.1968. 41.8 V641
- 73689 YUNUSOVA, M. I. Agglutination reaction and allergic test for diagnosis of pseudotuberculosis of guinea pigs. (Rus) Veterinariya 3:104-105. 1968. 41.8 V6426  
Miscellaneous
- 73690 FRIIS, C. W. Future prospects for laboratory animals. (Da) Danske Dyrægefor. Medlemsbl. 51(6):214-218. Mar.15,1968. 41.9 D23
- 73691 GARTNER, K. Summary review; on the sociology of laboratory rats, physiological psychology of group and single rearing. (Ge) Deut. Tierärztl. Wochenschr. 75(4):97-100. (Concl.) Feb.15,1968. 41.8 D482

## POULTRY

Breeds and Breeding

- 73692 BENOIT, J., and BRAD, E. Fertile testicular grafts from white Wyandotte chicks inserted into the testicle of Rhode Island Red roosters, previously sterilized by X-rays. (Fr) Acad. Sci. C. R., Ser. D 266(12):1308-1310. Ref. Mar.18,1968. 505 P21
- 73693 CANADA, DEPT. OF AGRICULTURE, INFORMATION DIV. Pictures—ducks. Can. Dept. Agr. Publ. 1349, 9 p. 1968. 7 C16Pu  
Various breeds.
- 73694 CHELMONSKA, B., PODLEWSKA, D., and WACHNIK, Z. Bacteria in the semen of ganders. (Pol) Medycyna Weterynaryjna 24(2): 112-113. Ref. Feb.1968. 41.8 M463  
French summary.
- 73695 DUMITRESCU, R. Poultry breeding in the agricultural cooperatives of production. (Rum) Rev. Zooteh. Med. Vet. 18(2):5-8. Feb.1968. 49 P943
- 73696 JOHARI, D. C., and SINGH, B. P. Studies on internal egg quality. I. Influence of breed, season and age of the birds on internal egg quality. Indian Vet. J. 45(2):139-144. Ref. Feb.1968. 41.8 In2

- 73697 LEROY, P. Divergences between adult hybrid phenotypes born from the crossing of Rhode Island Red M 44, or Rhode Island Red modified with Wyandotte White. (Fr) Acad. Sci. C. R., Ser. D, 266(5):516-518. Jan.29,1968. 505 P21
- 73698 MAZANOWSKI, A., and MAZANOWSKA, A. Observations on the hatching and breeding of quails imported from Italy. (Pol) Med. Weter. 24(3):178-180. Ref. Mar.1968. 41.8 M463
- 73699 OLSEN, M. W., WILSON, S. P., and MARKS, H. L. Genetic control of parthenogenesis in chickens. J. Hered. 59(1):41-42. Jan./Feb. 1968. 442.8 Am3
- 73700 OLSEN, M. W., MARKS, H. L., and WILSON, S. P. Parthenogenetic chick. J. Hered. 59(1): 67-68. Jan./Feb.1968. 442.8 Am3
- 73701 ROZENGURT, J. E., FRETZ, N., and CAPAUL, E. G. Changes in circulating lymphocytes induced by the administration of ACTH in cocks. Acta Physiol. Lat. Amer. Fisiol. Farmacol. Bioquim Cinec. Afines 28(1):82-89. Ref. 1968. 444.8 AC86
- 73702 SAXENA, V. P. Effect of supplementation of groundnut oil on growth rate and mortality of White Leghorn starters during winter months. Indian Vet. J. 45(1):66-70. Ref. Jan.1968. 41.8 In2
- 73703 SKADHAUGE, E. The cloacal storage of urine in the rooster. Compar. Biochem. Physiol. 24 (1):7-18. Ref. Jan.1968. 444.8 C73
- 73704 SOMES, R. G. A multi-trait case of lateral asymmetry in the fowl. J. Hered. 59(1):53-56. Ref. Jan./Feb.1968. 442.8 Am3
- Feeds and Feeding**
- 73705 AKRABAWI, S. S., and KRATZER, F. H. Effects of arginine or serine on the requirement for glycine by the chick. J. Nutr. 95(1):41-48. Ref. May 1968. 389.8 J82
- 73706 BIXLER, E., SCHAIBLE, P. J., and BANDEMER, S. Preliminary studies on the nutritive value of triticales as chicken feed. Mich. Agr. Exp. Sta. Quart. Bull. 50(3):276-280. Ref. Feb. 1968. 100 M58S
- 73707 BUREAU DE LA NUTRITION ANIMALE ET DE L'ELEVAGE. Comment reduire la mortalite des poussins au moment du demarrage [How to reduce chick mortality at time of starting]. Bur. Nutr. Anim. Elevage Rapp. A588. Feb. 1968. 389.79 B89
- Importance of watering.**
- 73708 CARLSON, C. W., and BONZER, B. J. Feeding turkeys. S. Dak. State Univ. Ext. FS 389,4 p. Jan.1968. 275.29 So85Fs
- 73709 DMITRAKOVA, I. S. A source of carotene for chickens. (Rus) Veterinariya 1:79-80. 1968. 41.8 V6426
- From Blakeslea trispora cultures.**
- 73710 DVORAK, J. On the influence of ascorbic acid on the Ca and P level and the activity of alkaline phosphatase in the blood serum of laying hens. (Cz) Czech. Min. Zemedel. Lesniho Hospodar. Ustav Vedeckotech. Inform. Vet. Med. 1:1-8. Ref. Jan.1968. 41.9 C333
- English summary.**
- 73711 ERDEI, M. Influence of fodders with various protein levels on broiler goslings. (Rum) Rev. Zootech. Med. Vet. 18(3):38-47. Mar.1968. 49 P943
- English summary.**
- 73712 GAWECKI, K., LIPINSKA, H., and HARENZA, T. Polfamix A in feeding layers. (Pol) Medycyna Weterynaryjna 24(2):117-119. Feb.1968. 41.8 M463
- 73713 GOODLING, A. C., and others. The effect of ration energy level on laying hens. La. Agr. 11(3):4-5. Spring.1968. 100 L939
- R. S. Woodward, A. B. Watts, and W. A. Johnson, joint authors.**
- 73714 HILL, D. C., and SHAO, T. C. Effect of arginine on weight gain of chicks consuming diets first-limiting in lysine or tryptophan. J. Nutr. 95(1):63-66. Ref. May 1968. 389.8 J82
- 73715 MORAN, E. T., SUMMERS, J. D., and JONES, G. E. Field peas as a major dietary protein source for the growing chick and laying hen with emphasis on high-temperature steam pelleting as a practical means of improving nutritional value. Can. J. Anim. Sci. 48(1):47-55. Ref. Apr.1968. 41.8 C163
- 73716 OSBALDISTON, G. W. The effect of air temperature on food consumption of chickens. Brit. Vet. J. 124(3):110-115. Ref. Mar.1968. 41.8 V643
- 73717 QUISENBERRY, J. H. How much feed for a laying hen? Feedstuffs 40(17):34. Apr.27,1968. 286.81 F322
- 73718 ROBBLEE, A. R., and CLANDININ, D. R. Rapeseed meal in rations for breeder turkeys. Can. J. Anim. Sci. 47(2):127-130. Aug.1967. 41.8 C163
- Experiments with Broad Breasted White and Broad Breasted Bronze males and females.**
- 73719 SUGAHARA, M., and ARIYOSHI, S. The role of dispensable amino acids for the maximum growth of chick[s]. Agr. Biol. Chem. 32(2): 153-160. Feb.1968. 385 Ag8B
- 73720 SUMMERS, J. D., and others. Utilization of rapeseed meal as a source of protein for turkeys. Can. J. Anim. Sci. 47(2):131-136. Aug. 1967. 41.8 C163
- W. F. Pepper, E. T. Moran, and H. S. Bayley, joint authors.**
- 73721 WILDFEUER, I., and others. On the influencing of egg yolk color by addition of carotenoids to the feed. (Ge) Z. Lebensmittel-Untersuchung -Forsch. 136(3):129-136. 1968. 384 Z39
- L. Acker, A. Mehner, W. Rauch, joint authors.**
- Veterinary Medicine**
- 73722 ADAMESTEANU, I., and ADAMESTEANU, C. Gumboro disease in chickens. (Rum) Rev. Zootech. Med. Vet. 18(3):48-53. Ref. Mar.1968. 49 P943
- English summary.**
- 73723 ADLER, H. E., and DAMASSA, A. J. Effect of dextrose in medium for the preparations of Mycoplasma gallisepticum plate antigens. Appl. Microbiol. 16(4):558-562. Apr.1968. 448.3 Ap5
- 73724 AIKAWA, M., HUFF, C. G., and SPRINZ, H. Exoerythocytic stages of Plasmodium gallinaceum in chick-embryo liver as observed electron microscopically. Amer. J. Trop. Med. Hyg. 17(2):156-169. Ref. Mar.1968. 448.8 Am326
- 73725 ANDERSON, D. P., and others. Influence of dust and ammonia on the development of air sac lesions in turkeys. Amer. J. Vet. Res. 29 (5):1049-1058. May 1968. 41.8 Am3A
- 73726 ASHMORE, C. R., DOERR, I., and SOMES, R. G. Microcirculation: loss of an enzyme activity in chickens with hereditary muscular dystrophy. Science 160(3825):319-320. Ref. Apr.19,1968. 470 Sci2
- 73727 BAIDEVLYATOV, A., and YASHCHENKO, A. Treatment of respiratory mycoplasmosis of poultry. (Rus) Ptitsevodstvo 1:43-44. Jan. 1968. 47.8 P95
- 73728 BALLA, L., and CSALAVA, I. Experiments to increase the efficiency and to simplify Newcastle disease vaccination in large scale flocks. (Hu) Magyar Allatorv. Lapja 23(2):90-95. Ref. Feb.1968. 41.8 V644
- English summary.**
- 73729 BARTON, T. L., KAKADE, M. L., and SCHAIBLE, P. J. Growth inhibition and pancreatic enlargement in chicks fed soya flakes extracted with certain solvents. Mich. Agr. Exp. Sta. Quart. Bull. 49(4):445-449. May 1967. 100 M58S
- 73730 BARTOS, J., LEBDUSKA, J., and HORAKOVA, V. Sensitiveness of Escherichia coli isolated from the intestines of broilers in the terrain to chlortetracycline, streptomycin, and furazolidone in 1966. (Cz) Czech. Min. Zemedel. Lesniho Hospodar. Ustav Vedeckotech. Inform. Vet. Med. 1:63-68. Ref. Jan.1968. 41.9 C333
- English summary.**



- 73731 BAUDITZ, H., and HINZ, K. H. Comparative investigations for fluorescent serological detection of *Mycoplasma gallisepticum* with inclusion of the object carrier culture. (Ge) Deut. Tierarztl. Wochenschr. 75(4):83-86. (Cont.) Feb.15, 1968. 41.8 D482
- 73732 BELL, D. J., and CULBERT, J. Plasma lactate in the hen—problems of its origin. Compar. Biochem. Physiol. 25(2):627-637. Ref. May 1968. 444.8 C73
- 73733 BEREND, MRS. G., HODOSY, J., and KOVACS, G. On the control of poultry cannibalism by means of Trioxazin. (Hu) Magyar Allatorv. Lapja 23(2):85-89. Ref. Feb.1968. 41.8 V644  
English summary.
- 73734 BERRY, D. M., and STOKES, K. J. Antigenic variations in isolates of infectious bronchitis virus. Vet. Rec. 82(6):157-160. Ref. Feb. 1968. 41.8 V641
- 73735 BESSARABOV, B. Diagnosis and prevention of respiratory organ diseases of poultry. (Rus) Ptitsevodstvo 1:42-43. Jan.1968. 47.8 P95
- 73736 BHATIA, B. B., and PANDE, B. P. A new eimerian species from guinea fowl; a preliminary note. Acta Vet. [Budapest] 17(4):359-361. 1967. 41.8 Ac83  
Provisionally designated as *Eimeria gorakhpuri*.
- 73737 BOCH, J., JANITSCHKE, K., and ROMMEL, M. Research into German poultry farms for latent *Toxoplasma* infections. (Ge) Berliner Munchener Tierarztl. Wochenschr. 81(5):90-91. Ref. Mar.1,1968. 41.8 B45  
English summary.
- 73738 BOKORI, J. Studies on the passage of food in poultry using marked food. (Hu) Magyar Allatorv. Lapja 23(2):69-76. Ref. Feb.1968. 41.8 V644  
English summary.
- 73739 BOLDIZSAR, H., and KOZMA, M. Correlations between body weight, liver weight and liver RNA content of chicks of various ages. (Hu) Magyar Allatorv. Lapja 23(2):80-82. Ref. Feb.1968. 41.8 V644  
English summary.
- 73740 BONDAR, V. V., and SYURIN, V. N. Immunological and biological properties of vaccine strains of pigeonpox virus. (Rus) Veterinariya 1:31-34. 1968. 41.8 V6426
- 73741 BUREAU DE LA NUTRITIONALE ANIMALE ET DE L'ELEVAGE. Consequences d'un arret de l'abreuvement chez les volailles [Consequences of stopping the watering of poultry]. Bur. Nutr. Anim. Elevage. Rapp. A,591,4 p. Mar.1968. 389.79 B89
- 73742 CARINCI, P., and MANZOLI-GUIDOTTI, L. Ultracentrifugal and electrophoretic analysis of the water-soluble fraction of chick embryo yolk. J. Embryol. 19(1):950101. Ref. Feb. 1968. 442.8 J829
- 73743 CHRISTOPHER, J., and others. Neoplasms of ducks in Andhra Pradesh; a report of four intrahepatic tumors. Indian Vet. J. 45(1):7-9. Jan.1968. 41.8 In2  
P. R. Rao, J. V. Narayana, and G. A. Sastry, joint authors.
- 73744 CHUTE, H. L., and REESE, R. S. Mycoplasma problems in integrated poultry companies. Maine. Agr. Exp. Sta. Bull. 657,17 p. Feb.1968. 100 M285
- 73745 CISZEWSKI, K. Investigation on the effectiveness of copper sulfate ( $\text{CuSO}_4$ ) in the treatment of aspergillosis in ducklings. (Pol) Med. Weter. 24(3):150-151. Ref. Mar.1968. 41.8 M463
- 73746 COOK, J. K. A. Isolation of a C.E.L.O. [Chicken embryo lethal orphan] virus from fertile chicken eggs. Vet. Rec. 82(10,sup.14):294. Mar.1968. 41.8 V641
- 73747 CRITENDEN, L. B. Avian tumor viruses: prospects for control. World's Poultry Sci. J. 24(1):18-36. Ref. Jan./Mar.1968. 47.8 W89
- 73748 DANKO, G., and SARI, I. Skin aspergillosis of one-day-old ducklings. Contributions to warranty problems of the aspergillosis of one-day-old ducklings on the basis of infection tests. (Hu) Magyar Allatorv. Lapja 23(2):77-79. Feb. 1968. 41.8 V644  
English summary.  
Caused by *Aspergillus fumigatus*.
- 73749 DARCEL, C. L., BIDE, R. W., and MERRIMAN, M. Properties of turpentine relative to the effects of fowl plasma in vitro. I-II. Can. J. Chem. 46(5):503-510. Ref. May 1968. 470 C16E
- 73750 DAVID-WEST, T. S., COOKE, P. M., and STEVENSON, J. W. The mode of action of an antiviral substance from *Penicillium cyaneo-fulvum*. Can. J. Microbiol. 14(3):197-204. Ref. Mar.1968. 448.8 C162  
Includes action against Newcastle disease virus.
- 73751 DAVID-WEST, T. S., COOKE, P. M., and STEVENSON, J. W. New methods of production and partial purification of an antiviral substance from *Penicillium cyaneo-fulvum*. Can. J. Microbiol. 14(3):189-196. Ref. Mar.1968. 448.8 C162  
Includes action against Newcastle disease virus.
- 73752 DAVIS, J. E., and GARRISON, N. E. Mean weights of chick embryos correlated with the stages of Hamburger and Hamilton. J. Morphol. 124(1):79-82. Jan.1968. 444.8 J826
- 73753 DELAY, P. D., CASEY, H. L., and TUBIASH, H. S. Comparative study of fowl plague virus and a virus isolated from man. Public Health Rep. 82(7):615-620. July 1967. 151.65 P96
- 73754 DEORANI, V. P. S. Occurrence of diverticulated protuberances on intestinal serosa in ascariasis of poultry and their causation. Vet. Rec. 82(13):388-389. Ref. Mar.1968. 41.8 V641
- 73755 DERZSY, D. A viral disease of goslings. I. Epidemiological, clinical, pathological and aetiological studies. Acta Vet. [Budapest] 17(4):443-448. 1967. 41.8 Ac83  
Reovirus as possible cause.
- 73756 DESSER, S. S., FALLIS, A. M., and GARNHAM, P. C. C. Relapses in ducks chronically infected with *Leucocytozoon simondi* and *Parahaemaphysalis* nettionis. Can. J. Zool. 46(2):281-285. Mar.1968. 470 C16D
- 73757 DONALDSON, W. E., SHEETS, T. J., and JACKSON, M. D. Starvation effects on DDT residues in chick tissues. Poultry Sci. 47(1):237-243. Ref. Jan.1968. 47.8 Am33P
- 73758 EDWARDS, H. M., and WASHBURN, K. W.  $^{59}\text{Fe}$  absorption by chickens. Poultry Sci. 47(1):337-338. Jan.1968. 47.8 Am33P
- 73759 EZHOV, V. I. Peculiarities of tetracycline distribution in chickens and ducks after parenteral injection of ditetracycline. (Rus) Veterinariya 1:68-70. 1968. 41.8 V6426
- 73760 FITZSIMMONS, R. C., and WAIBEL, P. E. Free amino acid composition of the avian egg as related to embryonic development. Poultry Sci. 47(1):219-224. Ref. Jan.1968. 47.8 Am33P
- 73761 FLESAR, M., and others. Study of the occurrence and diagnosis of tuberculosis in geese. (Cz) Veterinarstvi 17(12):543-546. 1967. 41.8 V6439  
J. Balascak, K. Rencz, and J. Kocis, joint authors.
- 73762 FOMINA, A. YA. Results of study of poultry diseases at the All-Union Institute of Experimental Veterinary Medicine. (Rus) Veterinariya 1:15-16. 1968. 41.8 V6426
- 73763 FONTAINE, A. A glance at avian diseases. (Fr) Rev. Elevage 43:127-128,131-132,135-136,139,141-142,145,147,149,151,153. 1968. 49 B462
- 73764 FREEMAN, B. M. Depletion of ascorbic acid from the adrenal of the intact embryo of *Gallus domesticus* by adrenocorticotrophic hormone or histamine. Compar. Biochem. Physiol. 24(3):905-914. Ref. Mar.1968. 444.8 C73

- 73765 FRITZSCHE, K., and BAHNEMANN, H. Recent knowledge of avian osteopetrosis gallinarum (marble bone, thick leg disease). (Ge) Deut. Vet. Ges. Ber. 7th Congr.:87-94. Ref. 1968. 41.9 D482  
English summary.
- 73766 FRITZSCHE, K., and BAHNEMANN, H. Recent knowledge of avian osteopetrosis gallinarum (marble bone, thick leg disease). (Ge) Zentralbl. Veterinarmed. Reihe B, 15(1):87-94. Ref. Feb.1968. 41.8 Z52  
English summary.  
Virus study.
- 73767 GALARNEAU, B., and others. Avian encephalomyelitis in Quebec. (Fr) Econ. Med. Anim. 9(1):56-60. Jan./Feb.1968. 41.8 Ec7  
R. Fillion, E. Di Franco, and P. Marois, joint authors.
- 73768 GERMAN, A., PANOUSE-PERRIN, J., and QUERO, A. M. Study of interferon production by chick embryo cells in ovo and in vitro influenced by alive or inactive Newcastle disease virus. (Fr) Inst. Pasteur. Ann. 14(2):217-235. Ref. Feb.1968. 448.3 An75  
English summary.
- 73769 GOODCHILD, W. M., and COOPER, D. M. Oviduct adenocarcinoma in laying hens. Vet. Rec. 82(13):389-390. Mar.1968. 41.8 V641
- 73770 GOODCHILD, W. M., and TUCKER, J. F. Salmonellae in British wild birds and their transfer to domestic fowl. Brit. Vet. J. 124(3):95-101. Ref. Mar.1968. 41.8 V643
- 73771 GUILDAL, J. A., and SETTLES, O. P. Peritrichal filariosis in a pigeon caused by *Pelecius clava* (Wedl, 1856). Nord. Veterinarmed. 20(2):68-70. Feb.1968. 41.8 N813
- 73772 HAGUENAU, F., and HANAFUSA, H. A quantitative electron microscopic study of the virus particles found in cells infected with Rous sarcoma virus. Virology 34(2):271-281. Ref. 1968. 448.8 V81
- 73773 HANSON, R. P., and others. Comparison of the resistance of different-aged pheasants to eastern encephalitis virus from different sources. Amer. J. Vet. Res. 29(3):723-727. Mar.1968. 41.8 Am3A  
S. Vadlamudi, D. O. Trainer, and R. Anslow, joint authors.
- 73774 HAROVIUC, S., and CRISTEA, I. Aspergillosis in ducklings. (Rum) Rev. Zootech. Med. Vet. 18(3):73-76. Mar.1968. 49 P943  
English summary.
- 73775 HEIN, H. The pathogenic effects of *Eimeria acervulina* in young chicks. Exp. Parasitol. 22(1):1-11. Feb.1968. 436.8 Ex7
- 73776 HEIN, H. Resistance in young chicks to reinfection by immunization with two doses of oocysts of *Eimeria acervulina*. Exp. Parasitol. 22(1):12-18. Feb.1968. 436.8 Ex7
- 73777 HOLEC, J., and HOLICKY, C. The passage of chlortetracycline from feed into the poultry meat. (Cz) Veterinarstvi 17(6):251-253. 1967. 41.8 V6439
- 73778 HOMMA, K., and JINNO, M. Incidence and characteristics of complete twins in the Japanese quail. Poultry Sci. 47(1):130-133. Ref. Jan.1968. 47.8 Am33P
- 73779 INGLIS, M., and COOK, J. K. A. The shedding of *Mycoplasma gallisepticum* in turkey eggs and the effect of treatment with spiramycin. Poultry Rev. 7(4):67-74. Ref. Jan.1968. 47.8 P8699
- 73780 INOUE, I. *Eimeria saitamae* n. sp.: a new cause of coccidiosis in domestic ducks (*Anas platyrhynchos* var. domestica). Jap. J. Vet. Sci. 29(4):209-215. Ref. Aug.1967. 41.8 J27
- 73781 JANKOVIC, B. D., ISAKOVIC, K., and HORVAT, J. Bursa of Fabricius and immunological tolerance. Nature 218(5139):379-380. Ref. Apr.27, 1968. 472 N21  
Antibody response of bursectomized chickens.
- 73782 JANSEN, J. Duck plague. Amer. Vet. Med. Ass. J. 152(7):1009-1016. Ref. Apr.1, 1968. 41.8 Am3
- 73783 JOHNSON, H. S., and RIDLEN, S. F. How to keep laying house mortality in check. Poultry Trib. 74(5):44,46. May 1968. 47.8 P8642
- 73784 JORDAN, F. T. W. Respiratory diseases of poultry. Span 11(1):24-27. 1968. 464.8 Sp2
- 73785 KAPITANAKI, M. V., and others. On tuberculinization of chickens. (Rus) Veterinariya 3:43-45. 1968. 41.8 V6426  
I. S. Dubrov, I. V. Skorobogatchenko, and F. F. Filippov, joint authors.
- 73786 KARASEK, E., and MULLER, H. Investigations into the fluorescence-serological detection of the Newcastle disease virus in infected embryonated hen's eggs. (Ge) Arch. Exp. Veterinarmed. 21(3):685-692. Ref. 1967. 41.8 Ex7  
English summary.
- 73787 KAWAMURA, H., and TSUBAHARA, H. Propagation and cytopathic effect of myxovirus Yucaipa in chicken kidney cell culture. Tokyo. Nat. Inst. Anim. Health Quart. 8(1):1-7. Spring 1968. 41.9 T575Q
- 73788 KLEIN, J. R. Free porphyrin concentrations and porphyrin synthesis in duck tissues. Arch. Port. Sci. Biol. 127(1):220-222. Jan.1968. 442.8 Sol
- 73789 KOSOVAC, A., and others. Study of diagnostic value and efficiency of speedy blood test in the control and eradication of fowl typhoid. I. Diagnostic value and efficiency of speedy blood test in the identification of agents of fowl typhoid in egg-laying poultry. (Se) Vet. Glas. 21(6):479-485. 1967. 41.8 J93  
P. Markovic, B. Nikolic, and M. Jovanovic, joint authors.  
English summary.
- 73790 KRAUSS, H. Avian Reo-viruses. (Ge) Berliner Munchener Tierarztl. Wochenschr. 80(23):458-460. Ref. Dec.1, 1967. 41.8 B45  
English summary.
- 73791 LANGE, E. Two-year use of laying hens for table egg production. (It) Riv. Zootec. 41(1):22-29. Jan.1968. 49 R52
- 73792 LEATHEM, W. D., and BURNS, W. C. Duration of acquired immunity of the chicken to *Eimeria tenella* infection. J. Parasitol. 54(2):227-232. Ref. Apr.1968. 448.8 J824
- 73793 LEIBOVITZ, L., and HWANG, J. Duck plague in American Anseriformes. Wildlife Dis. Ass. Bull. 4(1):13-14. Jan.1968. 41.9 W64B
- 73794 LIN, Y. C., and STURKIE, P. D. Effect of environmental temperatures on the catecholamines of chickens. Amer. J. Physiol. 214(2):237-240. Ref. Feb.1968. 447.8 Am3
- 73795 LOLIGER, H. C. The formal genesis of avian leukosis. (Ge) Deut. Vet. Ges. Ber. 7th Congr.:95-105. Ref. 1968. 41.9 D482  
English summary.
- 73796 LOLIGER, H. C. The formal genesis of avian leucosis. (Ge) Zentralbl. Veterinarmed. Reihe B, 15(1):95-105. Ref. Feb.1968. 41.8 Z52  
English summary.
- 73797 LYSER, K. Early differentiation of motor neuroblasts in the chick embryo as studied by electron microscopy. II. Microtubules and neurofilaments. Develop. Biol. 17(2):117-142. Ref. Feb.1968. 442.8 D49
- 73798 MACHIDA, S., ANDO, K., and KAWAMURA, H. Serological survey on infectious respiratory diseases of poultry in Okinawa. Tokyo. Nat. Inst. Anim. Health Quart. 8(1):55-56. Spring 1968. 41.9 T575Q
- 73799 MACY, R. W., and BELL, W. D. The life cycle of *Astacatreumatula macrocotyla* gen. et sp. n. (Trematoda, Psilostomidae) from Oregon. J. Parasitol. 54(2):319-323. Apr.1968. 448.8 J824  
Isolated from chicks.
- 73800 MAHAPATRO, B. B., PATNAIK, N., and MISRA, H. P. Efficiency of weight gain and rate of passage of feed through the digestive tract of chicks at different levels of feeding. Indian Vet. J. 45(2):145-150. Feb.1968. 41.8 In2
- 73801 MARTIN, C. Effect of para-aminobenzenesulfonamide and nicotinamide on the development of chick embryos of Leghorn and Creeper breeds. Acad. Sci. Compte Rendu 266(12):1320-1322. Mar.18, 1968. 505 P21



- 73802 MCCOSHEN, J. A., and THOMPSON, R. P. A study of clicking and its source in some avian species. *Can. J. Zool.* 46(2):169-172. Ref. Mar. 1968. 470 C16D  
Includes ducks and pigeons.
- 73803 MCCOSHEN, J. A., and THOMPSON, R. P. A study of the effect of egg separation on hatching time and of the source of clicking sounds in the embryo of the domestic chicken. *Can. J. Zool.* 46(2):243-248. Ref. Mar. 1968. 470 C16D
- 73804 MENNEGA, A., and CALHOUN, M. L. Morphology of the lower respiratory structures of the White Pekin duck. *Poultry Sci.* 47(1):266-280. Ref. Jan. 1968. 47.8 Am33P
- 73805 MINOCHA, H. C., CONSIGLI, R. A., and EISENSTARK, A. Concentration and purification of Newcastle disease virus. *Amer. J. Vet. Res.* 29(4):877-882. Apr. 1968. 41.8 Am3A
- 73806 MITROVIC, M. Sulfadimethoxine in prevention of turkey coccidiosis. *Poultry Sci.* 47(1):314-319. Jan. 1968. 47.8 Am33P
- 73807 MONREAL, G. Genetic resistance of chickens to leucosis. (Ge) *Zentralbl. Veterinarmed. Reihe B*, 15(1):106-110. Ref. Feb. 1968. 41.8 Z52  
English summary.
- 73808 MONREAL, G. Genetic resistance of chickens to leukosis. (Ge) *Deut. Vet. Ges. Ber. 7th Congr.*:106-110. Ref. 1968. 41.9 D482  
English summary.
- 73809 MORGAN, W., and GLICK, B. Effects of acetylsalicylic acid and salicylate administration on anaphylaxis and plasma salicylate levels in the chicken. *Poultry Sci.* 47(1):180-185. Ref. Jan. 1968. 47.8 Am33P
- 73810 NAGY, G., and FABIAN, L. Serological response of chickens infected artificially with *Salmonella gallinarum* and treated with Tikofuran. *Acta Vet. [Budapest]* 18(1):53-55. 1968. 41.8 Ac83  
Furazolidone dosages.
- 73811 NAGY, Z., and DERZSY, D. A viral disease of goslings. II. Microscopic lesions. *Acta Vet. [Budapest]* 18(1):3-17. Ref. 1968. 41.8 Ac83
- 73812 NAZERIAN, K., and others. Studies on the etiology of Marek's disease. II. Finding of a herpesvirus in cell culture. *Arch. Port. Sci. Biol.* 127(1):177-182. Ref. Jan. 1968. 442.8 Sol  
J. J. Solomon, R. L. Witter, and B. R. Burmester, joint authors.
- 73813 NEELIN, J. M. Variability in cell-specific and common histones of avian erythrocytes. *Can. J. Biochem.* 46(3):241-247. Ref. Mar. 1968. 470 C16E  
Poultry.
- 73814 NEMETH, I., and JUHASZ, S. Effect of aflatoxin on serum protein fractions of day-old ducklings. *Acta Vet. [Budapest]* 18(1):95-105. Ref. 1968. 41.8 Ac83  
Toxic effects of feed.
- 73815 NESHEIM, M. C. Kidney arginase activity and lysine tolerance in strains of chickens selected for a high or low requirement of arginine. *J. Nutr.* 95(1):79-87. Ref. May 1968. 389.8 J82
- 73816 NIKOLIC, B., and others. Proteins of blood serum of chicks infected with *Eimeria tenella* and *Eimeria necatrix*. (Se) *Vet. Glas.* 21(1):35-41. Ref. 1967. 41.8 J93  
O. Pavlovic, S. Sibalic, and B. Tomanovic, joint authors.  
English summary.
- 73817 NISHIDA, T. Comparative and topographical anatomy of the fowl. X. The blood vascular system of the hind-limb in the fowl. I. The artery. *East Lansing, n. d.* 44 p. QL835.N53  
Translated from Japanese for the USDA Avian Anatomy Project, Dept. of Poultry Science, Michigan State University.  
From the Japanese Journal of Veterinary Science.
- 73818 O'GRADY, J. E. The determination of oestradiol and oestrone in the plasma of the domestic fowl by a method involving the use of labelled derivatives. *Biochem. J.* 106(1):77-86. Ref. Jan. 1968. 382 B52
- 73819 OOKAWA, T., and KADONO, H. Electroencephalogram of the Japanese quail (*Coturnix coturnix japonica*) during non-anesthetized and anesthetized periods. *Poultry Sci.* 47(1):320-325. Ref. Jan. 1968. 47.8 Am33P
- 73820 OSBALDISTON, G. W., and WISE, D. R. Methods for the eradication of *Mycoplasma gallisepticum*. *Poultry Rev.* 7(4):75-79. Ref. Jan. 1968. 47.8 P8699
- 73821 OSBALDISTON, G. W. The relationship between variation and rate of growth for chicken populations. *British Vet. J.* 124(4):143-151. Ref. Apr. 1968. 41.8 V643  
Chiefly effects of temperature.
- 73822 PAPP, M., and BRILES, C. O. Data on the preservation and reactivity of chicken cells in blood typing. *Acta Vet. [Budapest]* 17(4):423-432. Ref. 1967. 41.8 Ac83
- 73823 PAVEL, J., and SVOZIL, B. The distribution of lactic dehydrogenase isoenzymes in the blood serum of surgically and hormonally castrated cockerels. *Poultry Sci.* 47(1):91-94. Ref. Jan. 1968. 47.8 Am33P
- 73824 PAVLAS, M. Distinguishing the *Mycobacterium bovis* and *Mycobacterium avium* infection in poultry by means of simultaneous tuberculation. (Cz) *Czech. Min. Zemedel. Lesniho Hospodar. Ustav Vedeckotech. Inform. Vet. Med.* 41(2):69-73. Feb. 1968. 41.9 C333  
English summary.
- 73825 PEARDON, D. L., and RAMSAY, J. R. Efficacy of p-ureidobenzeneearsonic acid against blackhead in chickens exposed orally with *Heterakis gallinae* ova. *Poultry Sci.* 47(1):312-319. Jan. 1968. 47.8 Am33P
- 73826 PETERS, R. L., FABER, J. E., and DEVOLT, H. M. Identification of *Haemophilus gallinarum* in artificially infected chickens. *Poultry Sci.* 47(1):123-129. Ref. Jan. 1968. 47.8 Am33P  
Causal agent of infectious coryza.
- 73827 PETERSON, D. W., HAMILTON, W. H., and LILYBLADE, A. L. Composition of hypertrophic and atrophic muscles in genetic muscular dystrophy of the chicken. *Arch. Port. Sci. Biol.* 127(1):300-305. Ref. Jan. 1968. 442.8 Sol
- 73828 POLONY, R., and VRTIAK, J. O. The inactivation effect of beta-propiolactone on the virus of the classical fowl plague. (Cz) *Czech. Min. Zemedel. Lesniho Hospodar. Ustav Vedeckotech. Inform. Vet. Med.* 1:31-36. Ref. Jan. 1968. 41.9 C333  
English summary.
- 73829 PROSKY, L., and others. Lipoprotein staining following polyacrylamide disc electrophoresis of chick serum. *Poultry Sci.* 47(1):185-189. Jan. 1968. 47.8 Am33P  
R. G. O'Dell, D. A. Libby, and D. F. Flick, joint authors.
- 73830 PUBOLS, M. H., and CHANG, S. I. Vitamin D<sub>3</sub> induction of a calcium-binding protein in the uterus of the laying hen. *Archiv. Biochem. Biophys.* 125(1):378-380. Apr. 1968. 381 Ar2
- 73831 QUISENBERRY, J. H. Body weight vs. layer performance. *Poultry Trib.* 74(4):26-27, 38. Apr. 1968. 47.8 P8642
- 73832 RAO, N. V. R., VARADARAJULU, P., and REDDY, V. B. Effect of antibiotics on egg production, egg weight and mortality of poultry. *Indian Vet. J.* 45(1):60-65. Ref. Jan. 1968. 41.8 In2  
Study with Terramycin and aureomycin.
- 73833 REINBOLD, R. The role of the tapetum in differentiation of the sclerotic in the chick embryo. (Fr) *J. Embryol.* 19(1):43-47. Feb. 1968. 442.8 J829  
English summary.
- 73834 RICHEY, D. J., and SCHMITTLE, S. C. Inoculating gnotobiotic animals from outside the isolator. *Amer. J. Vet. Res.* 29(5):1117-1118. May 1968. 41.8 Am3A  
A procedure used in poultry.
- 73835 RIGDON, R. H., and MACK, J. Spontaneously occurring scoliosis in the White Pekin duck (*Anas platyrhynchos*). *Amer. J. Vet. Res.* 29(5):1081-1087. Ref. May 1968. 41.8 Am3A

- 73836 ROEPKE, W. J., and LENSING, H. H. Some cases of coccidiosis in the Netherlands caused by *Eimeria brunetti*. (Du) Tijdschr. Diergeneesk. 93(8):508-519. Ref. Apr.15,1968. 41.8 T431  
English summary.  
Poultry.
- 73837 ROSCA, V. Epizootiological and clinical notes on an infectious coryza enzooty in goslings. (Rum) Rev. Zooteh. Med. Vet. 18(2):46-53. Ref. Feb.1968. 49 P943  
English summary.
- 73838 ROSSI, P. J. Adaptation and negative aftereffect to lateral optical displacement in newly hatched chicks. Science 160(3826):430-432. Ref. Apr.26,1968. 470 Sci2
- 73839 RUBANOV, A. A. Trichomoniasis control in turkey poult. (Rus) Veterinariya 1:62. 1968. 41.8 V6426
- 73840 SCHLOER, G., and HANSON, R. P. Plaque morphology of Newcastle disease virus as influenced by cell type and environmental factors. Amer. J. Vet. Res. 29(4):883-895. Ref. Apr. 1968. 41.8 Am3A  
Temperature.
- 73841 SCHOWING, J. Evidence for the inductive role of the brain in the osteogenesis of the chick skull. (Fr) J. Embryol. 19(1):83-94. Ref. Feb.1968. 442.8 J829  
English summary.
- 73842 SCHOWING, J. The inductive influence of the embryonic brain upon the development of the skull in the fowl. I-II. (Fr) J. Embryol. 19(1):9-32. Ref. Feb.1968. 442.8 J829  
I, The effect of removal of anterior neural material upon cranial development; II, the effect of removal of notochord and of mid-brain and hind-brain material upon cranial development.
- 73843 SENDEL, P., and RUSAOUE, M. Histological aspects of the early differentiation of the feather pattern of the chick. (Fr) Acad. Sci. C. R., Ser. D, 266(8):795-797. Feb.19,1968. 505 P21
- 73844 SEREBRYAKOV, A. S., GROSHEVA, G. A., and SHUBIN, V. A. Study of respiratory mycoplasmosis of poultry. (Rus) Veterinariya 1:46-48. 1968. 41.8 V6426
- 73845 SHNEIDER, M. A. Cultivation of erythroblastosis virus in tissue cultures. (Rus) Veterinariya 1:34-37. Ref. 1968. 41.8 V6426
- 73846 SHUBIN, V. A., FOMINA, A. YA, and GROSHEVA, G. A. Pathological and morphological changes in chickens infected with colisepticemia. (Rus) Veterinariya 1:48-51. 1968. 41.8 V6426
- 73847 SIEGMANN, O., and RADKE, E. Occurrence and economic importance of different coccidia species in broiler chicken with regard to the hygienic conditions. (Ge) Deut. Tierarztl. Wochenschr. 75(4):81-83. Feb.15,1968. 41.8 D482  
English summary.  
Chiefly with *Eimeria acervulina* and *E. maxima*.
- 73848 SINGH, A., REINEKE, E. P., and RINGER, R. K. Comparison of thyroid secretion rates in chickens as determined by (1) goiter prevention, (2) thyroid hormone substitution, (3) direct output and (4) thyroxine degradation methods. Poultry Sci. 47(1):205-211. Ref. Jan.1968. 47.8 Am33P
- 73849 SINGH, A., REINEKE, E. P., and RINGER, R. K. Influence of thyroid status of the chick on growth and metabolism, with observations on several parameters of thyroid function. Poultry Sci. 47(1):212-219. Ref. Jan.1968. 47.8 Am33P
- 73850 SKHILADZE, YU. M. Non-specific allergic and serological reactions for diagnosis of poultry tuberculosis. (Rus) Veterinariya 3:27-29. 1968. 41.8 V6426
- 73851 SMITH, L. T., and CHANG, P. W. Avian leukosis, costly killer: URI [University of Rhode Island] studies a genetic solution for cancer in chickens. R. I. Agr. 14(1):8-9. Feb.1968. 100 R342
- 73852 SNEDECOR, J. G. Response of testis and comb of the radiothyroidectomized chick to PMS. Poultry Sci. 47(1):148-151. Ref. Jan.1968. 47.8 Am33P
- 73853 SOLOMON, J. J., and others. Studies on the etiology of Marek's disease. I. Propagation of the agent in cell culture. Arch. Port. Sci. Biol. 127(1):173-177. Jan.1968. 442.8 So1  
R. L. Witter, K. Nazerian, and B. R. Burmester, joint authors.
- 73854 STEARNER, S. P., and CHRISTIAN, E. J. B. Radiation effect on the microcirculation; relation to early mortality in the chick embryo. Radiat. Res. 34(1):138-152. Ref. Apr.1968. 334.8 R11
- 73855 STECK, F. Relationships between the Rous sarcoma virus and avian leukosis viruses. (Ge) Zentrabl. Veterinarmed. Reihe B, 15(1):81-86. Feb.1968. 41.8 Z52  
English summary.
- 73856 STECK, F. Relationships between the Rous sarcoma virus and avian leukosis viruses. (Ge) Deut. Vet. Ges. Ber. 7th Congr.:81-86. 1968. 41.9 D482  
English summary.
- 73857 STEWART, J. C. Newcastle disease; effect of revaccinating laying hens in the face of clinical disease. Vet. Rec. 82(14):405-409. Apr.1968. 41.8 V641
- 73858 STRATIL, A. Transferrin and albumin loci in chickens, Gallus gallus L. Compar. Biochem. Physiol. 24(1):113-121. Ref. Jan.1968. 444.8 C73
- 73859 STURKIE, P. D., and LIN, Y. C. Sex differences in blood norepinephrine of chickens. Compar. Biochem. Physiol. 24(3):1073-1075. Ref. Mar.1968. 444.8 C73
- 73860 SVOBODA, S., and JURAJDA, V. Thiabendazole in the treatment of syngamiasis in poultry. (Cz) Veterinarstvi 17(6):248-251. 1967. 41.8 V6439
- 73861 SWARBRICK, O., and SWARBRICK, J. T. Suspected ergotism in ducks. Vet. Rec. 82(3):76-77. Ref. Jan.20,1968. 41.8 V641  
Resulting from the feeding of wheat with ergot sclerotia.
- 73862 TAHARA, Y., and KOSIN, I. L. Observations on congenital teratology in turkey embryos and its experimental transmission via transplantation. J. Embryol. Exp. Morphol. 18(3):305-319. Ref. Dec.1967. 442.8 J829
- 73863 TAYLOR, J. L. Poultry disease and profit. Scot. Agr. 47(1):34-35. Winter 1967/68. 10 Sco82So
- 73864 THAXTON, P., SADLER, C. R., and GLICK, B. Immune response of chickens following heat exposure or injections with ACTH. Poultry Sci. 47(1):264-266. Ref. Jan.1968. 47.8 Am33P  
Reduction in adrenal cholesterol.
- 73865 TOPOLKO, S., FRAS, A., and PAUKOVIC, C. Frequency of some pathogenic serotypes of *Escherichia coli* in chicks infected with mycoplasmosis. (Se) Vet. Glas. 21(1):43-48. Ref. 1967. 41.8 J93  
English summary.
- 73866 TUCKER, J. F., and GORDON, R. F. The incidence of salmonellae in poultry packing stations. Brit. Vet. J. 124(3):102-109. Ref. Mar. 1968. 41.8 V643  
Low percentage in poultry meat in Great Britain.
- 73867 TUMLIN, J. T. Establishing a poultry practice. Auburn Vet. 24(2):56-61. Winter 1968. 41.8 Aul
- 73868 TUMMONS, J., and STURKIE, P. D. Cardio-accelerator nerve stimulation in chickens. Life Sci. 7(7,pt.1):377-380. Apr.1,1968. 442.8 L62
- 73869 TURBOW, M. M., and BURKHALTER, A. Acetylcholinesterase activity in the chick embryo spinal cords. Develop. Biol. 17(2):233-244. Ref. Feb.1968. 442.8 D49
- 73870 VERSENYI, L. Studies on the endogenous cycle of Tyzzeria perniciosa (Allen, 1935). Acta Vet. [Budapest] 17(4):449-456. 1967. 41.8 Ac83  
Coccidiosis of ducks.



- 73871 WEISS, H. S., FISHER, H., and GRIMINGER, P. Interrelationship among plasma cholesterol, blood pressure, blood coagulation and spontaneous avian atherosclerosis. *Poultry Sci.* 47(1):137-147. Ref. Jan.1968. 47.8 Am33P
- 73872 WEKSTEIN, D. R., and ZOLMAN, J. F. Sympathetic control of homeothermy in the young chick. *Amer. J. Physiol.* 214(4):908-912. Ref. Apr.1968. 447.8 Am3
- 73873 WHITMORE, J. H., SULLIVAN, T. W., and GRACE, O. D. Prophylactic efficacy of vitamin A and certain compounds against histomoniasis in turkeys. *Poultry Sci.* 47(1):159-164. Ref. Jan.1968. 47.8 Am33P
- 73874 WILSON, B. W., and STINNETT, H. O. Respiration of muscle homogenated from selected lines of chickens with inherited muscular dystrophy. *Poultry Sci.* 47(1):165-171. Ref. Jan. 1968. 47.8 Am33P
- 73875 WILSON, R. P., MUHRER, M. E., and BLOOMFIELD, R. A. Comparative ammonia toxicity. *Compar. Biochem. Inform. Vet. Med.* 41(2):97-105. Feb.1968. 444.8 C73  
Poultry and mice.
- 73876 ZIEGLER, K. Vaccination against syngamosis in chicks, young pheasants and turkey-poults. (Cz) *Czech. Min. Zemedel. Lesniho Hospodar. Ustav Vedeckotech. Inform. Vet. Med.* 41(2):97-105. Feb.1968. 41.9 C333  
English summary.

#### Miscellaneous

- 73877 BLOOMFIELD, T. M. Discrimination learning in animals; an analysis through side-effects. *Nature* 217(5132):929-930. Ref. Mar.9,1968. 472 N21  
Tested with pigeons.
- 73878 BRETH, F. E. Periodic forced molting in chicken of two years of age. (Fr) *Rev. Elevage* 23(4):161,163. Apr.1968. 49 B462
- 73879 CHAMPION, L. R., and ZINDEL, H. C. Poultry science research at the Upper Peninsula Experiment Station, Chatham, Michigan. V. The egg laying pattern of females on litter floors and in single and multiple bird cages. *Mich. Agr. Exp. Sta. Quart. Bull.* 50(3):262-268. Feb. 1968. 100 M58S
- 73880 HARMS, R. H., and others. Citrus pulp for poultry litter and its subsequent feeding value for ruminants. *Fla. Agr. Exp. Sta. Tech. Bull.* 724,12 p. Ref. Apr.1968. 100 F66S  
C. F. Simpson, P. W. Waldroup, and C. B. Ammerman, joint authors.
- 73881 HORDERN, G. R. Hatchability of eggs. *New Zeal. J. Agr.* 116(3):55,57. Mar.1968. 23 N48J
- 73882 KONTRIMAVICHUS, L. M., and ELBERT, K. G. Intensive method of goose raising. (Rus) *Veterinariya* 1:94-98. 1968. 41.8 V6426
- 73883 MOISEEVA, I. G., and TQLOKONNIKOVA, E. V. The quality of eggs as related to hatching of chicks. (Rus) *Zhivotnovodstvo* 2:54-56. Feb. 1968. 49 Z6
- 73884 POWERS, R. B., NOLES, R. K., and FORTSON, J. C. Broiler production; a study of the growing operation. *Ga. Agr. Exp. Sta. Res. Bull.* 1,47 p.,map. Mar.1967. S51.E2
- 73885 PROUDFOOT, F. G. Advance note on the hatchability of chicken eggs stored small end up. *Can. J. Anim. Sci.* 47(2):142-143. Aug. 1967. 41.8 C163
- 73886 PROUDFOOT, F. G. The effect of hatchability of shipping eggs after storage for different periods of time in a nitrogen gaseous environment. *Can. J. Anim. Sci.* 47(2):137-138. Aug.1967. 41.8 C163
- 73887 PROUDFOOT, F. G. The hatchability of chicken eggs with fractured shells after storage up to 42 days in nitrogen. *Can. J. Anim. Sci.* 47(2):115-122. Aug.1967. 41.8 C163
- 73888 ROSS, E. Pineapple hay as a litter material for broilers. *Hawaii. Agr. Exp. Sta. Tech. Bull.* 71,12 p. Ref. Jan.1967. 100 H313T

- 73889 SAINSBURY, D. Broiler housing; what the British are doing now. *Poultry Meat* 5(4):18-19. Apr.1968. 47.8 P8656
- 73890 SCHMIDT-KOENIG, K. Distance and accuracy of initial orientation in homing pigeons. (Ge) *Z. Vergleichende Physiol.* 58(3):344-346. 1968. 444.8 Z3  
English summary.
- 73891 VANDEPUTTE-POMA, J. Some data on the composition of pigeon's milk. (Fr) *Z. Vergleichende Physiol.* 58(4):356-363. Ref. 1968. 444.8 Z3  
English summary.

#### RABBITS

##### Breeds and Breeding

- 73892 WALES, R. G., and O'SHEA, T. Fertility in rabbits inseminated with diluted or washed spermatozoa. *Australian J. Biol. Sci.* 21(1):181-183. Feb.1968. 442.8 Au72

##### Feeds and Feeding

- 73893 BAGLIONI, T., and others. Report of feeding exclusively with rape. I. Observations on rabbits. (It) *Clin. Vet.* 91(1):16-22. Ref. Jan. 1968. 41.8 C61  
A. Locatelli, L. Longo, and F. Rodenghi, joint authors.  
English summary.  
Effects on some blood constants.

##### Veterinary Medicine

- 73894 BEIER, H. M. Biochemical and growth physiological studies of blastocyst development in protein environment of rabbits. (Ge) *Zool. Jahrbucher Abt. Anat. Ontog. Tiere* 85(1):72-190. 1968. 410 Z751  
English summary.  
Bibliography p.185-190.
- 73895 COUPLAND, R. E., and WEAKLEY, B. S. Developing chromaffin tissue in the rabbit: an electron microscopic study. *J. Anat.* 103(3):425-455. Ref. Mar.1968. 447.8 J826
- 73896 GURAYA, S. S. A histochemical study of pre-ovulatory and post-ovulatory follicles in the rabbit ovary. *J. Reprod. Fert.* 15(3):381-387. Ref. Apr.1968. 442.8 J8222
- 73897 HOCHSTRASSER, G. Two cases for studying teeth of domestic rabbits. (Ge) *Wien Tierarztl. Monatsschr.* 55(2):107-110. Feb.1968. 41.8 T345  
English summary.
- 73898 ILLES, E. M., and FELKAI, V. Investigation of anthrax sera by the combined application of electrophoresis and indirect haemagglutination. (Hu) *Magyar Allatorv. Lapja* 23(3):146-150. Ref. Mar.1968. 41.8 V644  
English summary.  
Tested on rabbits.
- 73899 JANAKIRAMAN, K., and CASIDA, L. E. Ovulation, corpora lutea development and pituitary LH activity in rabbits with intra-uterine devices. *J. Reprod. Fert.* 15(3):395-399. Ref. Apr.1968. 442.8 J8222
- 73900 MADELEY, C. R. The immunogenicity of heat-inactivated vaccinia virus in rabbits. *J. Hyg.* 66(1):89-107. Ref. Mar.1968. 449.8 J82
- 73901 MADR, V., MACURA, B., and PETLACH, J. Some remarks on the epizootiology of myxomatosis in rabbits. (Cz) *Veterinarstvi* 17(6):247-248. 1967. 41.8 V6439
- 73902 ORTH, G., and CROISSANT, O. Characteristics of cultures of first explantation of papilloma cells caused by Shope virus in the domestic rabbit. (Fr) *Acad. Sci. C. R., Ser. D*, 266(10):1084-1087. Ref. Mar.4,1968. 505 P21
- 73903 RAO, R. R., and HENSON, J. B. The lesions of plasmocid [6-methoxy-8-(3-diethylamino)quinoline] intoxication in the rabbit. *Indian Vet. J.* 45(2):109-114. Ref. Feb.1968. 41.8 In2

- 73904 SENAUD, J., VENDRELY P., and TRONCHE, P. On the nature of toxic substance of cysts of sarcosporidia of sheep (*Toxoplasma*), active in rabbit. (Fr) Acad. Sci. C. R., Ser. D. 266 (11):1137-1138. Mar.11,1968. 505 P21  
*Sarcocystis tenella*.
- 73905 TROLLDENIER, H., and WORSECK, M. On the histotopics of radioiodine in the thyroid gland of rabbits. (Ge) Arch. Exp. Veterinarmed. 21 (3):809-819. Ref. 1967. 41.8 Ex7  
English summary.
- 73906 WALLACE, L. J., and ARRINGTON, L. R. Absence or anomaly of the gall bladder in domestic rabbits. Southwest. Vet. 21(3):199-200. Spring 1968. 41.8 So82
- SHEEP AND GOATS**
- Breeds and Breeding
- 73907 ANHALT, R. Criteria for selection to be introduced in French sheep raising. (Fr) Rev. Elevage 23(4):131-132,135-136,139. Apr.1968. 49 B462
- 73908 APTE, H. G., and PATIL, R. B. Studies on quality of crossbred wools; regional variation in fleeces. Indian Vet. J. 45(1):47-53. Ref. Jan.1968. 41.8 In2  
Decanni X Rambouillet sheep.
- 73909 AUSTRALIAN SOCIETY OF BREEDERS OF BRITISH SHEEP. Flock book for British breeds of sheep in Australia. Volume 60, sect. 1. Melbourne, 1968. 526 p. 45.9 Au72
- 73910 BEAL, A. M., and BUDTZ-OLSEN, O. E. A potassium and sodium balance study in two breeds of sheep. Australian J. Agr. Res. 19 (1):113-117. Ref. Jan.1968. 23 Au783  
Romney Marsh and Merino breeds.
- 73911 BROWN, G. H., and TURNER, H. N. Response to selection in Australian Merino sheep. II. Australian J. Agr. Res. 19(2):303-322. Ref. Mar.1968. 23 Au783
- 73912 CARNEGIE, V. Angora goats. Kenya Farmer 138:36-37. (Concl.) Jan.1968. 24 R812
- 73913 DONEY, J. M., and EVANS, C. C. The influence of season and nutrition on the sulphur content of wool from Merino and Cheviot sheep. J. Agr. Sci. 70(2):111-116. Ref. Apr.1968. 10 J822
- 73914 FESUS, L. Transferrin alleles in some sheep breeds in Hungary. Acta Vet. [Budapest] 17(4):433-438. 1967. 41.8 Ac83
- 73915 FREE, M. J., and VANDEMARK, N. L. Gas tensions in spermatic and peripheral blood of rams with normal and heat-treated testes. Amer. J. Physiol. 214(4):863-865. Ref. Apr.1968. 447.8 Am3
- 73916 HASMAT, M. A. Growth rate of lambs in different breeds of sheep. Indian Vet. J. 45(2):135-139. Feb.1968. 41.8 In2
- 73917 KAUSHIK, S. N., and SINGH, B. P. Comparison of purebred and crossbred ewes for wool production. Indian Vet. J. 45(2):131-134. Feb. 1968. 41.8 In2
- 73918 KOGAN-BERMAN, M. YA., and ZHIRYAKOV, A. M. Improving Tsigai sheep breeding. (Rus) Zhivotnovodstvo 2:40-45. Feb.1968. 49 Z6
- 73919 MOORE, N. W. The survival and development of fertilized eggs transferred between Border Leicester and Merino ewes. Australian J. Agr. Res. 19(2):295-302. Mar.1968. 23 Au783
- 73920 MURDOCH, R. N., and WHITE, I. G. Metabolic studies of testicular, epididymal, and ejaculated spermatozoa of the ram. Australian J. Biol. Sci. 21(1):111-121. Ref. Feb.1968. 442.8 Au72
- 73921 O'SHEA, T., and WALES, R. G. Metabolism of [1-<sup>14</sup>C]sodium lactate and [2-<sup>14</sup>C]sodium lactate by ram spermatozoa. J. Reprod. Fert. 15 (3):337-345. Ref. Apr.1968. 442.8 J8222
- 73922 QUINN, P. J., and WHITE, I. G. Distribution of adenosinetriphosphatase activity in ram and bull spermatozoa. J. Reprod. Fert. 15(3):449-452. Ref. Apr.1968. 442.8 J8222
- 73923 QUINN, P. J., SALAMON, S., and WHITE, I. G. The effect of cold shock and deep-freezing on ram spermatozoa collected by electrical ejaculation and by an artificial vagina. Australian J. Agr. Res. 19(1):119-128. Ref. Jan.1968. 23 Au783
- 73924 QUINN, P. J., SALAMON, S., and WHITE, I. G. Effect of osmotic pressure and temperature gradients on cold shock in ram and bull spermatozoa. Australian J. Biol. Sci. 21(1):133-140. Ref. Feb.1968. 442.8 Au72
- 73925 RUTTLE, J. L., and FINLEY, R. M. Relation of body weight, staple length, and horns in range rams. N. Mex. Agr. Exp. Sta. Res. Rep. 134,5 p. Jan.1968. 100 N465R  
Data for breeding selection.
- 73926 SALAMON, S. Deep freezing of ram semen: recovery of spermatozoa after pelleting and comparison with other methods of freezing. Australian J. Biol. Sci. 21(2):351-360. Ref. Apr.1968. 442.8 Au72
- 73927 SCALES, G. H. Lactation performances of Romney, Corriedale, and Merino ewes in a tussock grassland environment. New Zeal. J. Agr. Res. 11(1):155-170. Ref. Feb.1968. 23 N4892
- 73928 SUFFOLK SHEEP SOCIETY. Suffolk sheep year book 1968. Ipswich, 1968. 64 p.,map. 45.9 Su20
- 73929 TERVIT, H. R., and MCDONALD, M. F. Cleavage of ova in New Zealand Romney ewes. New Zeal. J. Agr. Res. 11(1):39-46. Ref. Feb.1968. 23 N4892
- 73930 TURNER, H. N., DOLLING, C. H. S., and KENNEDY, J. F. Response to selection in Australian Merino sheep. I. Selection for high clean wool weight, with a ceiling on fibre diameter and degree of skin wrinkle. Response in wool and body characteristics. Australian J. Agr. Res. 19(1):79-112. Ref. Jan.1968. 23 Au783
- 73931 VASIL'EV, A. V., and EROKHIN, A. I. Inbreeding as factor of improving the Kuibyshev sheep breed. (Rus) Zhivotnovodstvo 2:45-47. Feb. 1968. 49 Z6
- 73932 VERESS, L. Summer lambing of sheep. (Hu) Magyar Mezőgazdaság 23(8):20-21. Feb.21, 1968. 19 M27
- 73933 WENIGER, J. H., and others. Investigations on the heritability and the mutual relations of production characters in German Merino-Landschaf. (Ge) Zuchtungskunde 40(1):34-50. Ref. Jan./Feb.1968. 49 Z8  
P. Glodek, R. Assadi-Moghaddam, L. Schmidt, and M. Burgkart, joint authors.  
English summary.  
Includes wool production traits.
- 73934 WENSLEYDALE LONGWOOL SHEEP BREEDERS' ASSOCIATION. Flock book of Wensleydale Longwool sheep. Volume LXXIX, 1968. Grange-over-Sands, 1968. 26 p. 45.9 W482
- Feeds and Feeding
- 73935 AL-AZZAWI, I. I., and others. Effect of feeding dried beet pulp on growth rate of Awassi sheep. J. Agr. Sci. 70(2):109-110. Ref. Apr. 1968. 10 J822  
K. E. Ghoneim, H. El-Haidary, and N. T. Kazzal, joint authors.
- 73936 BUNN, C. R., and MATRONE, G. Dietary factors affecting utilization of urea nitrogen by sheep in purified diets. J. Nutr. 95(1):122-128. Ref. May 1968. 389.8 J82
- 73937 CAMERON, C. D. T. Intake and digestibility of nitrogen-fertilized grass hays by wethers. Can. J. Anim. Sci. 47(2):123-125. Ref. Aug. 1967. 41.8 C163
- 73938 CONWAY, A. Intensive fat lamb production in Ireland. Span 11(1):47-49. Ref. 1968. 464.8 Sp2  
Pasture feeding.
- 73939 CORBETT, J. L. Variation in the yield and composition of milk of grazing Merino ewes. Australian J. Agr. Res. 19(2):283-294. Ref. Mar.1968. 23 Au783
- 73940 DE CLEENE, R. T. Ewe nutrition in late pregnancy. New Zealand J. Agr. 116(4):29. Apr. 1968. 23 N48J



- 73941 DZINIC, M., and others. Effects of adding silage to the diet of pregnant ewes on their productive qualities and some characteristics of blood. (Ge) Zuchtungskunde 40(1):51-64. Ref. Jan/Feb.1968. 49 Z8  
D. Ilancic, M. Nadazdin, and F. Pandza, joint authors.  
English summary.
- 73942 DZINIC, M., and others. Linking the feeding of ensiled feed to the losses from listeriosis in sheep raising in mountain areas of Bosnia and Herzegovina. (Se) Vet. Glas. 21(1):15-24. Ref. 1967. 41.8 J93  
M. Nadazdin, M. Hadzimuratovic, and A. Sivcevic, joint authors.  
English summary.
- 73943 ELLER, B. R., and MCARTHUR, J. A. B. Feeding on pasture versus dry lot feeding of early weaned lambs implanted with diethylstilbestrol. Oreg. Agr. Exp. Sta. Spec. Rep. 252, 2 p. Mar.1968. 100 Or3M  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.  
Meat production.
- 73944 FERGUSON, K. A. Can we feed for wool growth? Span 11(1):43-46. Ref. 1968. 464.8 Sp2  
Research on sheep in Australia.
- 73945 FORBES, J. M. The water intake of ewes. Brit. J. Nutr. 22(1):33-43. Ref. Feb.1968. 389.8 B773
- 73946 GALGAN, M. W., and RUSSELL, T. S. Use of Dyna-ferm and monosodium glutamate in rations for lambs. Wash. Agr. Exp. Sta. Bull. 695, 4 p. Apr.1968. 100 W27E
- 73947 GRAHAM, N. M. Effects of feeding frequency on energy and nitrogen balance in sheep given a ground and pelleted forage. Australian J. Agr. Res. 18(3):467-483. Ref. May 1967. 23 Au783  
Alfalfa.
- 73948 GUERIN, P. D., and MULHEARN, C. J. Feeding ewes with barley under drought conditions. S. Australia J. Agr. 71(7):218-226. Feb.1968. 23 So84
- 73949 JUDSON, G. J., and others. The contribution of propionate to glucose synthesis in sheep given diets of different grain content. Brit. J. Nutr. 22(1):69-75. Ref. Feb.1968. 389.8 B773  
E. Anderson, J. R. Luick, and R. A. Leng, joint authors.
- 73950 LARGE, R. V. The effect of nitrogenous fertilizers on animal health. N.A.A.S. (Nat. Agr. Adv. Serv.) Quart. Rev. 79:110-117. Ref. 1968. Spring 1968. 241 G796  
Effects on sheep grazing perennial ryegrass.
- 73951 MACPHERSON, A., and HEMINGWAY, R. G. Effects of liming and various forms of oral copper supplementation on the copper status of grazing sheep. J. Sci. Food Agr. 19(1):53-56. Ref. Jan.1968. 382 So12
- 73952 MATTHEWS, V. B. Tall bluebell [Mertensia arizonica], an important forage plant on aspen [Populus] range. Utah Sci. 29(1):17-19, 23. Mar.1968. 100 Ut1F  
Sheep.
- 73953 MIYAZAKI, A., and UMEZAWA, I. Studies on the effects of nitrate in feed upon the performance of ruminants. II. Methaemoglobin formation in the blood of sheep after administration of various amounts of nitrate. (Ja) Jap. J. Zootech. Sci. 39(1):20-26. Ref. Jan.1968. 49 N62  
English summary.
- 73954 NOTT, J. H. Increasing the stocking rate. New Zeal. J. Agr. 114(6):27. June 1967. 23 N48J  
Sheep.
- 73955 SIMPSON, I. H., and ROBINSON, G. G. Drought feeding at Shannon Vale. Agr. Gaz. New S. Wales 79(2):78-79. Feb.1968. 23 N472  
Sheep.
- Veterinary Medicine
- 73956 ALTON, G. G. Further studies on the duration of the immunity produced in goats by the Rev. 1 Brucella melitensis vaccine. J. Compar. Pathol. 78(2):173-178. Apr.1968. 41.8 J82
- 73957 BAILE, C. A., and MAYER, J. Hypothalamic temperature and the regulation of feed intake in goats. Amer. J. Physiol. 214(3):677-684. Ref. Mar.1968. 447.8 Am3
- 73958 BELVE, A. R., and MCDONALD, M. F. Directional flow of fallopian tube secretion in the Romney ewe. J. Reprod. Fert. 15(3):357-364. Ref. Apr.1968. 442.8 J8222  
New Zealand Romney Marsh ewe.
- 73959 BERILLON, F. A new treatment of foot rot. (Fr) Mouton 23(1):5. Jan.1968. 45.8 M86
- 73960 BEZRUKOV, N. I. The effect of acetylcholine and neurohypophyseal hormones on the contractile ability of the ovary and the intrafollicular pressure in farm animals. (Rus) Akad. Nauk SSSR Dokl. 178(4):983-984. Ref. Feb.1, 1968. 511 p444A  
Sheep and cows.
- 73961 BIRKELAND, R. Comparative investigations on the concentrations of calcium, magnesium, sodium and potassium in the blood plasma and peritoneal fluid of sheep and pig. Nord. Veterinaarmed. 20(3):155-160. Ref. Mar.1968. 41.8 N813
- 73962 BOFFEY, P. M. 6000 sheep stricken near CBW center. Science 159(3822):1442. Mar.29, 1968. 470 Sci2  
Possible poisoning of sheep near the Dugway Proving Ground of the Army, Utah.
- 73963 BORYSIEWICZ, J., and POTEK, Z. Studies on the occurrence of arboviruses in the Cracow province. II. Antibodies against the viruses from encephalitis group A and B in sheep in the Nowy Targ district. (Pol) Medycyna Weterynaryjna 24(2):101-104, map. Ref. Feb.1968. 41.8 M463  
French summary.
- 73964 BRUERE, A. N. The demonstration of a sex chromatin body in amniotic tissue of the sheep. Can. J. Genet. Cytol. 10(1):180-185. Ref. Mar. 1968. 443.8 C16
- 73965 BURTIS, C. A., and others. Effects of glucagon, glycerol, and insulin on phlorizin-induced ketosis in fasted, nonpregnant ewes. Amer. J. Vet. Res. 29(3):647-653. Mar.1968. 41.8 Am3A  
H. F. Troutt, G. D. Goetsch, and H. D. Jackson, joint authors.
- 73966 BUTTERWORTH, M. H., and others. Some observations on the lactation of Blackhead [Persian] ewes and the growth of lambs: the composition and yield of milk. J. Agr. Sci. 70(2):203-207. Ref. Apr.1968. 10 J822  
T. R. Houghton, J. C. Macartney, A. J. Prior, C. P. Middlemiss, and D. E. Edmond, joint authors.
- 73967 CAMPBELL, A. G. M., and others. The release of a bradykinin-like pulmonary vasodilator substance in foetal and new-born lambs. J. Physiol. 195(1):83-96. Ref. Mar.1968. 447.8 J82  
G. S. Dawes, A. P. Fishman, A. I. Hyman, and A. M. Perks, joint authors.
- 73968 CHRISTIE, D. G. Eradicating and controlling brucellosis in sheep. Agr. Gaz. New S. Wales 78(4):221-225. Apr.1967. 23 N472
- 73969 CLARKSON, M. J. Blood and plasma volumes in sheep infected with Trypanosoma vivax. J. Compar. Pathol. 78(2):189-193. Ref. Apr. 1968. 41.8 J82
- 73970 CORDERO DEL CAMPILLO, M. On the epizootiology and prophylaxis of ovine brucellosis. (Sp) Veterinaria [Madrid.] 33(2):69-82. Feb. 1968. 41.8 V6429
- 73971 DAWES, G. S., and others. Vasomotor responses in the hind limbs of foetal and new-born lambs to asphyxia and aortic chemoreceptor stimulation. J. Physiol. 195(1):55-81. Ref. Mar.1968. 447.8 J82  
B. V. Lewis, J. E. Milligan, M. R. Roach, and N. S. Talner, joint authors.

- 73972 DENNIS, S. M. Ante-partum streptococcal infection of lambs. *Vet. Rec.* 82(14):403-404. Apr.1968. 41.8 V641
- 73973 DENNIS, S. M., and LEIPOLD, H. W. Congenital hernias in sheep. *Amer. Vet. Med. Ass. J.* 152(7):999-1003. Ref. Apr.1,1968. 41.8 Am3 Lambs.
- 73974 DHABOLKAR, D. B., GHAFOR, M. A., and NARASAPUR, V. S. *Cysticercus ovis* in the heart of sheep. *Indian Vet. J.* 45(2):169. Feb. 1968. 41.8 In2
- 73975 DHINDSA, D. S. Relationship of brain and live body weight in sheep. *Amer. J. Vet. Res.* 29(4):907-909. Apr.1968. 41.8 Am3A
- 73976 DIAKONOV, L. P. *Haemobartonella markovi* n.sp.—a blood parasite of sheep. (Rus) *Veterinariya* 1:56-59. 1968. 41.8 V6426
- 73977 DOBSON, C. Pathological changes associated with *Oesophagostomum columbianum* infestations in sheep: Haematological observations on control worm-free and experimentally infested sheep. *Australian J. Agr. Res.* 18(3):523-538. Ref. May 1967. 23 Au783
- 73978 DOBSON, C. Pathological changes associated with *Oesophagostomum columbianum* infestations in sheep: Serum protein changes after first infestation. *Australian J. Agr. Res.* 18(5):821-831. Ref. Sept.1967. 23 Au783
- 73979 DOLNIKOV, YU. YA. Copper carbonate against sheep tapeworms. (Rus) *Veterinariya* 3:49-50. 1968. 41.8 V6426
- 73980 DRANE, H. M., and SABA, N. Oestrogenic activity in legumes. *J. Agr. Sci.* 70(2):165-167. Ref. Apr.1968. 10 J822  
Estrogenic effect on grazing wethers.
- 73981 EGAN, D. A., and O'CUILL, T. An attempt to produce swayback in lambs born to ewes dosed with high levels of molybdenum, inorganic sulphate and manganese during pregnancy. *Irish Vet. J. (n.s.)* 22(2):28-32. Ref. Feb.1968. 41.8 Ir4
- 73982 ERNEK, E., KOZUCH, O., and NOSEK, J. Isolation of tick-borne encephalitis virus from blood and milk of goats grazing in the Tribec focus zone. *J. Hyg. Epidemiol. Microbiol. Immunol.* 12(1):32-36. Ref. 1968. 448.8 J826
- 73983 FAICHNEY, G. J. Volatile fatty acids in the caecum of the sheep. *Australian J. Biol. Sci.* 21(1):177-180. Ref. Feb.1968. 442.8 Au72
- 73984 FINDLAY, C. R., and BUNTAIN, D. Enterotoxaemia due to *Clostridium welchii* type C in young lambs. *Vet. Rec.* 82(8):224-225. Feb. 1968. 41.8 V641
- 73985 FLOURNOY, R. W., SZABUNIEWICZ, M., and CAMP, B. J. Cannulation and exteriorization of the carotid artery for cardiovascular studies in the goat. *Southwest. Vet.* 21(3):213-217. Ref. Spring 1968. 41.8 So82  
For the study of blood pressure.
- 73986 FORBES, J. M. The physical relationships of the abdominal organs in the pregnant ewe. *J. Agr. Sci.* 70(2):171-177. Apr.1968. 10 J822
- 73987 FOSTER, N. M., and LUEDKE, A. J. Direct assay for bluetongue virus by intravascular inoculation of embryonating chicken eggs. *Amer. J. Vet. Res.* 29(3):749-753. Ref. Mar. 1968. 41.8 Am3A  
Isolated from sheep.
- 73988 FOSTER, W. N. M., and CAMERON, A. E. Aetiology of enzootic staphylococcal infection (tick pyaemia) in lambs; field investigations into the relationship between tick-borne fever and tick pyaemia. *J. Compar. Pathol.* 78(2):243-250. Apr.1968. 41.8 J82
- 73989 FOSTER, W. N. M. The effect of dipping on tick infestation in young lambs. *Vet. Rec.* 82(11):348-351. Ref. Mar.1968. 41.8 V641
- 73990 FOSTER, W. N. M., FOGGIE, A., and NISBET, D. I. Haemorrhagic enteritis in sheep experimentally infected with tick-borne fever. *J. Compar. Pathol.* 78(2):255-258. Ref. Apr.1968. 41.8 J82
- 73991 FOSTER, W. N. M., and CAMERON, A. E. Thrombocytopenia in sheep associated with experimental tick-borne fever infection. *J. Compar. Pathol.* 78(2):251-254. Apr.1968. 41.8 J82
- 73992 FOWLER, M. E. Exotic plants—a hazard to animals. *Southwest. Vet.* 21(3):195-198. Spring 1968. 41.8 So82  
A case involving *Cotyledon orbiculata* poisoning of sheep.
- 73993 FROYD, G. Field trials with oxyclozanide, a new liver fluke remedy for sheep and cattle. *Brit. Vet. J.* 124(3):116-125. Mar.1968. 41.8 V643
- 73994 GANE, P., and YALCIN, N. Symptoms and lesions in the diagnosis of ovine diseases. (Fr) *Rev. Elevage* 43:119-120,123-124. 1968. 49 B462
- 73995 GARDINER, M. R., and ROYCE, R. D. Poisoning of sheep and cattle in western Australia due to species of *Isotropis* (Papilionaceae). *Australian J. Agr. Res.* 18(3):505-513, map. May 1967. 23 Au783
- 73996 GDOVIN, T., and VRZGULA, L., and BARTKO, P. On treatment and prevention of muscular dystrophy in lambs. (Cz) *Veterinarstvi* 17(4):168-170. 1967. 41.8 V6439
- 73997 GHOSHAL, N. G., and GETTY, R. The arterial supply to the appendages of the sheep (*Ovis aries*). *Iowa State J. Sci.* 42(3):215-244. Ref. Feb.1968. 370 Io9
- 73998 GIBSON, T. E., and PARFITT, J. W. Tetramisole; an evaluation of its efficiency against *Dicrocoelium filaria* in lambs. *Vet. Rec.* 82(9):238-239. Mar.1968. 41.8 V641
- 73999 GILCHRIST, F. M. C., POTGIETER, E., and VOSS, J. B. N. The biuretolytic activity of the ruminal flora of sheep fed practical rations containing biuret. *J. Agr. Sci.* 70(2):157-163. Ref. Apr.1968. 10 J822
- 74000 GODWIN, K. O. Abnormalities in the electrocardiograms of young sheep and lambs grazing natural pastures low in selenium. *Nature* 217(5135):1275-1276. Mar.30,1968. 472 N21
- 74001 GOLOVIN, V. G., MALOV, A. A., and VOLKOV, A. D. Urolithiasis in rams and bulls. (Rus) *Veterinariya* 3:64-66. 1968. 41.8 V6426
- 74002 GRINTESCU, A. Incidental infestation of sheep and swine with *Cysticercus pisiformis*. (Rum) *Rev. Zooteh. Med. Vet.* 18(2):67-69. Feb.1968. 49 P943
- 74003 HAMBERG, M., and SAMUELSSON, B. Oxygenation of unsaturated fatty acids by the vesicular gland of sheep. *J. Biol. Chem.* 242(22):5344-5354. Ref. Nov.25,1967. 381 J824
- 74004 HART, C. B., and TYSZKIEWICZ, K. Mycotic dermatitis in sheep. III. Chemotherapy with potassium aluminium sulphate. *Vet. Rec.* 82(10):272-281. Ref. Mar.1968. 41.8 V641
- 74005 HAZZARD, T. C., and RUSSELL, A. M. Treatment of pregnancy toxemia in sheep. *Vet. Rec.* 82(11):359-360. Mar.1968. 41.8 V641
- 74006 HEATH, G. B. S., and FAWCETT, A. R. Information about helminthiasis in sheep derived from records at a veterinary investigation centre. *Vet. Rec.* 82(11):319-322. Mar.1968. 41.8 V641  
In Great Britain.
- 74007 HILDEBRANDT, J. The effect of Bilevon M against immature and mature stages of *Fasciola gigantica* in artificially infected sheep. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 81(4):66-69. Ref. Feb.15,1968. 41.8 B45  
English summary.
- 74008 HINDSON, J. C., SCHOFIELD, B. M., and TURNER, C. B. Parturient pressures in the ovine uterus. *J. Physiol.* 195(1):19-28. Ref. Mar. 1968. 447.8 J82
- 74009 HORE, D. E., and others. Isolation of parainfluenza-3 virus from the lungs and nasal passages of sheep showing respiratory disease. *J. Compar. Pathol.* 78(2):259-265. Apr.1968. 41.8 J82  
R. G. Stevenson, N. J. L. Gilmour, J. T. Vantsis and D. A. Thompson, joint authors.
- 74010 HOWELL, J. MCC. Observations on the histology and possible pathogenesis of lesions in the central nervous system of sheep with swayback. *Nutr. Soc. Proc.* 27(1):85-88. Ref. Mar. 1968. 389.9 N953



- 74011 ICE, R. D., CHRISTIAN, J. E., and PLUMLEE, M. P. Metabolic fate of orally administered 2,3,5-triiodobenzoic acid in lactating animals. *J. Pharm. Sci.* 57(3):399-404. Ref. Mar.1968. 396.8 J825  
Tests with goats and cows.
- 74012 JACOB, K. Staining media for showing Brucella in tissue sections. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 81(2):29-30. Ref. Jan.15,1968. 41.8 B45  
English summary.  
Sheep.
- 74013 JAKOB, W. Further experimental investigations into the pathogenesis of cerebral listeriosis in sheep. 2. (Ge) *Arch. Exp. Veterinar-med.* 21(3):675-684. Ref. 1967. 41.8 Ex7  
English summary.
- 74014 JANSEN, J. Some observations on the spring rise in sheep. (Du) *Tijdschr. Diergeneesk.* 93(7):422-430. Ref. Apr.1,1968. 41.8 T431  
English summary.  
Relationship between time of lambing and verminosis.
- 74015 JUHASZ, B., and SZEGEDI, B. Pathogenesis of rumen overload in sheep. *Acta Vet. [Budapest]* 18(1):63-80. Ref. 1968. 41.8 Ac83  
Experiments with grain meals.
- 74016 JUHASZ, B., and SZEGEDI, B. The pathogenesis of ruminal digestive disorders caused by easily digestible carbohydrates. (Hu) *Magyar Allatorv. Lapja* 23(2):60-68. Ref. Feb.1968. 41.8 V644  
English summary.  
Sheep.
- 74017 KHANIN, M. A. Comparative evaluation of methods and time of young ram castration. (Rus) *Veterinariya* 3:67-69. 1968. 41.8 V6426
- 74018 KHAROLE, M. U., and RAO, U. R. K. Leptospirosis in goats in India. *Indian Vet. J.* 45(1):14-18. Ref. Jan.1968. 41.8 In2
- 74019 LAZZABO, D. A. Sheep poisoning by sodium hypochlorite. (Sp) *Gac. Vet.* 29(209):549-553. Ref. Dec.1967. 41.8 G112
- 74020 LEPOJEV, O. The effect of mineral fertilizers on developmental forms of some important pasture agents of parasitic diseases in vitro. II. The effect of mineral fertilizers on eggs and larvae of intestinal Strongyloides in sheep and horses and larvae of Dictyocaulus filaria and Protostrongylus rufescens in vitro. (Se) *Vet. Glas.* 21(4):327-333. 1967. 41.8 J93  
English summary.
- 74021 LINZELL, J. L. The magnitude and mechanisms of the uptake of milk precursors by the mammary gland. *Nutr. Soc. Proc.* 27(1):44-52. Ref. Mar.1968. 389.9 N953  
Chiefly goats.
- 74022 LITTLEJOHN, A. I. Psoroptic mange in the goat. *Vet. Rec.* 82(6):148-155. Ref. Feb.1968. 41.8 V641
- 74023 LUEDKE, A. J., and JOCHIM, M. M. Clinical and serologic responses in vaccinated sheep given challenge inoculation with isolates of bluetongue virus. *Amer. J. Vet. Res.* 29(4):841-851. Ref. Apr.1968. 41.8 Am3A
- 74024 LYNN, F. J., and others. Effect of halogeton glomeratus on pH values in rumen of sheep. *Amer. J. Vet. Res.* 29(4):915-917. Apr.1968. 41.8 Am3A  
J. C. Street, J. E. Butcher, J. L. Shupe, joint authors.  
For the study of the toxic effects of oxalate.
- 74025 MARJANOV, M., and JABLANOV, V. Application of stilbestrol to cause estrus and a test with the insemination of sheep during the anestrus. (Se) *Vet. Glas.* 21(11):885-891. Ref. 1967. 41.8 J93  
English summary.
- 74026 MATHUR, T. N. Brucellosis among goats and sheep in Haryana: A practical approach to the investigation of brucellosis. *Indian Vet. J.* 45(2):91-102. Ref. Feb.1968. 41.8 In2
- 74027 MCCARTY, R. T., HAUFLE, M., and MC<sup>2</sup>BETH, C. A. Response of sheep grazing in area sprayed with demeton. *Amer. J. Vet. Res.* 29(4):911-914. Apr.1968. 41.8 Am3A
- 74028 MURDOCH, R. N., and WHITE, I. G. Activity of enzymes in the endometrium, caruncles, and uterine rinsings of progestogen-treated and naturally cycling ewes. *Australian J. Biol. Sci.* 21(1):123-131. Ref. Feb.1968. 442.8 Au72
- 74029 NANDA, B. S., and PATEL, M. R. Normal pattern of the bronchopulmonary segments in goat. *Indian Vet. J.* 45(2):124-127. Ref. Feb.1968. 41.8 In2
- 74030 O'SULLIVAN, B. M. Lumpy wool [mycotic dermatitis] can cause losses in isolated flocks. *Queensland Agr. J.* 94(1):63-64. Jan.1968. 23 Q33
- 74031 O'SULLIVAN, B. M. Ovine posthitis; a good season problem. *Queensland Agr. J.* 94(2):126-127. Feb.1968. 23 Q33
- 74032 PANARETTO, B. A. Body composition in vivo. IX. The relation of body composition to the tritiated water spaces of ewes and wethers fasted for short periods. *Australian J. Agr. Res.* 19(2):267-272. Ref. Mar.1968. 23 Au783
- 74033 PANARETTO, B. A. Some metabolic effects of cold stress on undernourished non-pregnant ewes. *Australian J. Agr. Res.* 19(2):273-282. Mar.1968. 23 Au783
- 74034 PIERSON, R. E. Immunization of feedlot lambs with enterotoxemia toxoid and bacterin. *Amer. Vet. Med. Ass. J.* 152(4):380-381. Feb.15,1968. 41.8 Am3
- 74035 POLOZHENTSEVA, A. A. Detection of dicrocelliasis in liver vein of sheep. (Rus) *Veterinariya* 1:59-60. 1968. 41.8 V6426
- 74036 POTTER, B. J. The influence of previous salt ingestion on the renal function of sheep subjected to intravenous hypertonic saline. *J. Physiol.* 194(2):435-455. Ref. Feb.1968. 447.8 J82
- 74037 RAMACHANDRAN, S., and DHANDA, M. R. Reaction of lung tissue of goats to rinderpest caprinized virus. *Indian Vet. J.* 45(1):1-7. Ref. Jan.1968. 41.8 In2
- 74038 ROBINSON, J. J., FOSTER, W. H., and FORBES, T. J. An assessment of the variation in milk yield of ewes determined by the lamb-suckling technique. *J. Agr. Sci.* 70(2):187-194. Ref. Apr.1968. 10 J822
- 74039 SALJINSKI, T. B., and others. A contribution to the prevention of contagious agalactia in sheep and goats by immunization. (Se) *Vet. Glas.* 21(12):963-967. Ref. Dec.1967. 41.8 J93  
D. Ercegovic, M. Borojevic, and G. Gramatkovski, joint authors.  
English summary.
- 74040 SAWHNEY, A. N. Leptospirosis in goats in Madhya Pradesh: A serological survey. *Indian Vet. J.* 45(2):103-107. Ref. Feb.1968. 41.8 In2
- 74041 SCHANG, P. J. Two incomplete parasitology questions. (Sp) *Gac. Vet.* 30(210):11-15. Jan. 1968. 41.8 G112  
Sarcopic mange and liver flukes of sheep.
- 74042 SCHMIDT, D. Contributions to the knowledge of dermatitis pustulosa of sheep. IV. Cultivating the dermatitis pustulosa virus in a tissue culture. (Ge) *Arch. Exp. Veterinarmed.* 21(3):701-711. 1967. 41.8 Ex7  
English summary.
- 74043 SCHMIDT, D. Experimental contributions to the knowledge of dermatitis pustulosa of sheep. VIII-IX. (Ge) *Arch. Exp. Veterinarmed.* 21(3):713-729. Ref. 1967. 41.8 Ex7  
English summary.  
Includes virus research.
- 74044 SCHULZ, L. C., and WEILAND, F. Pulmonary adenomatosis of sheep in northern Germany. (Ge) *Deut. Vet. Ges. Ber. 7th Congr.*:132-139. Ref. 1968. 41.9 D482  
English summary.
- 74045 SCHULZ, L. C., and WEILAND, F. Pulmonary adenomatosis of sheep in northern Germany. (Ge) *Zentralbl. Veterinarmed. Reihe B*, 15(1):132-139. Ref. Feb.1968. 41.8 Z52  
English summary.

- 74046 SCHUNTNER, C. A., and ROULSTON, W. J. A resistance mechanism in organophosphorus-resistant strains of sheep blowfly (*Lucilia cuprina*). Australian J. Biol. Sci. 21(1):173-176. Ref. Feb.1968. 442.8 Au72  
Tests with C<sup>14</sup>-diazinon.
- 74047 SEAWRIGHT, A. A., MCLEAN, A. E. M., and FORREST, D. T. M. Hepatic oxidative drug metabolism and induced susceptibility in sheep to carbon tetrachloride intoxication. Vet. Rec. 82(7):200-201. Feb.1968. 41.8 V641
- 74048 SEWELL, M. M. H., HAMMOND, J. A., and DINNING, D. C. Studies on the etiology of anemia in chronic fascioliasis in sheep. British Vet. J. 124(4):160-170. Ref. Apr.1968. 41.8 V643
- 74049 SINCLAIR, D. P., and HOWE, M. W. Effect of thiabendazole on *Pithomyces chartarum* (Berk. & Curt.) M. B. Ellis. New Zeal. J. Agr. Res. 11(1):59-62. Ref. Feb.1968. 23 N4892  
To control facial eczema on sheep and cattle.
- 74050 SINCLAIR, K. B. The effect of corticosteroid on the pathogenicity and development of *Fasciola hepatica* in lambs. British Vet. J. 124(4):133-139. Apr.1968. 41.8 V643
- 74051 SKYRME, H. P. Shepherds can be of great help in discovering why lambs die. New Zeal. J. Agr. 115(1):18-19. July 1967. 23 N48J
- 74052 SMITH, J. K. The role of monobasic aliphatic fatty acids in immune agglutination of sheep erythrocytes. J. Immunol. 100(4):863-872. Ref. Apr.1968. 448.8 J8232
- 74053 SMITH, R. E., REYNOLDS, I. M., and CLARK, G. W. Experimental ovine listeriosis. I. Inoculation of pregnant ewes. Cornell Vet. 58(2):169-179. Ref. Apr.1968. 41.8 C81
- 74054 STEBLAY, R. W., and RUDOFISKY, U. Autoimmune glomerulonephritis induced in sheep by injections of human lung and Freund's adjuvant. Science 160(3824):204-206. Ref. Apr.12,1968. 470 Sci2
- 74055 THEODORIDES, V. J., and others. Serum concentrations of chloramphenicol after intraruminal and intra-abomasal administration in sheep. Amer. J. Vet. Res. 29(3):643-645. Mar.1968. 41.8 Am3A  
C. J. DiCuollo, J. R. Guarini, and J. F. Pagano, joint authors.
- 74056 TRAVIS, J. Studies on the active site of sheep trypsin. Biochem. Biophys. Res. Commun. 30(6):730-734. Mar.27,1968. 442.8 B5236
- 74057 VASILININ, M. G. On epizootiology of sheep dictyocaulosis in the Amur Region. (Rus) Veterinariya 3:47-48. 1968. 41.8 V6426
- 74058 VOHNOUT, K., HANSARD, S. L., and MORTON, E. L. Measurement of thyroxine values and degradation in sheep. Amer. J. Vet. Res. 29(3):657-661. Ref. Mar.1968. 41.8 Am3A
- 74059 WESTON, R. H., and HOGAN, J. P. The digestion of chopped and ground roughages by sheep. I-II. Australian J. Agr. Res. 18(5):789-819. Ref. Sept.1967. 23 Au783  
I, The movement of digesta through the stomach; II, The digestion of nitrogen and some carbohydrate fractions in the stomach and intestines.
- 74060 WESTON, R. H. Factors limiting the intake of feed by sheep. III. The mean retention time of feed particles in sections of the alimentary tract. Australian J. Agr. Res. 19(2):261-266. Ref. Mar.1968. 23 Au783
- 74061 WILLIAMS, V. J., HUTCHINGS, T. R., and ARCHER, K. A. Absorption of volatile fatty acids from the reticulo-rumen and abomasum of sheep. Australian J. Biol. Sci. 21(1):89-96. Ref. Feb.1968. 442.8 Au72
- 74062 WROBEL, K. H., and KUHNEL, W. Enzymatic histochemistry of the testis in domestic animals. I. Oxidoreductases in the testis of goat and pig. (Ge) Berliner Munchener Tierarztl. Wochenschr. 81(5):86-90. Ref. Mar.1,1968. 41.8 B45  
English summary.
- Miscellaneous
- 74063 DINESCU, S. Resources of increase and qualitative improvement of mutton production. (Rum) Rev. Zootech. Med. Vet. 18(3):5-9. Mar. 1968. 49 P943
- 74064 GOTTSCHALK, J. S. Current developments in the animal control picture. Nat. Wool Grower 58(4):10-13. Apr.1968. 45.8 N21N  
Predators control.
- 74065 MACARTNEY, A. J. Hints on T-branding travelling sheep. Queensland Agr. J. 94(2):121-122. Feb.1968. 23 Q33
- 74066 MOULE, G. R. Factors limiting sheep and wool production. Span 11(1):36-39. 1968. 464.8 Sp2
- 74067 NATIONAL WOOL GROWERS ASSOCIATION. 1968 platform and program. Dallas, 1968. 9 p. 45.9 N211R
- 74068 OLIVER, M. 1,600 lambs a year—in one house. Beef Sheep Farming 5(2):7,9. Feb.1968. 43.8 B392  
Research in Great Britain.
- 74069 POWELL, T. L. Pedometer measurements of the distance walked by grazing sheep in relation to weather. Brit. Grassland Soc. J. 23(1):98-102. Ref. Mar.1968. 60.19 B773
- 74070 RYDER, M. L. Sheep for the 1970s. Span 11(1):40-42. Ref. 1968. 464.8 Sp2  
Care.
- 74071 U. S. AGRICULTURAL RESEARCH SERV. ANIMAL HUSBANDRY RESEARCH DIV. Slaughtering, cutting, and processing lamb and mutton on the farm. U. S. D. A. Farmers' Bull. 2152, slightly rev., 16 p. Dec.1967. 1 Ag84F
- 74072 UBALDI, L. Sheep raising and feeding the flock. (It) Riv. Zootec. 41(1):14-19. Jan.1968. 49 R52
- SWINE
- Breeds and Breeding
- 74073 BAYER, A., ROHLOFF, D., and JAKUBOWSKI, H. Pulse frequency and systolic pressure in boars during semen collection on the phantom. (Ge) Zentrabl. Veterinarmed. Reihe A, 15(2):114-122. Ref. Mar.1968. 41.8 Z5  
English summary.
- 74074 BRAUDE, R. Factors limiting pig production. Span 11(1):32-35. 1968. 464.8 Sp2  
Breeding and feeding effects on meat production.
- 74075 CSIRE, L. The hybrid swine. (Hu) Magyar Mezogazdasag 23(13):17-19. Mar.1968. 19 M27
- 74076 EDWARDS, C. J. Seedstock selection. Hog Farm Manage. 5(5):56. May 1968. SF391.H6  
Boars.
- 74077 FARRIES, E., and ANGELOWA, L. Comparative investigations on the nutrient digestibility and nitrogen retention of German Improved Landrace swine, wild swine, and F<sub>1</sub> crosses. (Ge) Z. Tierphysiol. Tierernahr. Futtermittelkunde 23(5):263-266. Ref. Apr.1968. 389.78 Z3  
English summary.
- 74078 FLORIDA. UNIVERSITY. AGRICULTURAL EXTENSION SERV. How to profitably increase litter size. Fla. Univ. Ext. Circ. 320.8 p. Jan. 1968. 275.29 F66C  
Swine breeding.
- 74079 FREDEEN, H. T. Breeding development methods for maximum production. Hog Prod. 4(4):10,14-15. Apr.1968. 46.8 H675  
In Canada.
- 74080 HUGH, W. I. Breeding stock selection for commercial swine production. Hawaii. Univ. Ext. Circ. 422.24 p. Nov.1967. 275.29 H312Ac
- 74081 KELLER, F. Importance and advantages of hybridization in swine industry. (Fr) Agriculture [Montreal] 25(1):30,32. Mar.1968. 7 Ag82
- 74082 LUCAS, J. J., PICKETT, B. W., and KOMAREK, R. J. Variance component estimates of some boar semen characteristics and their use in designing experiments. J. Reprod. Fert. 15(3):423-426. Apr.1968. 442.8 J8222



- 74083 MODERN VETERINARY PRACTICE. Our panel reports: What experience (semen collection, estrus synchronization, breeding) have you had with artificial insemination of swine? How do you assess the potential role of veterinarians in this field? *Mod. Vet. Pract.* 49(5): 65-68, 70-71. May 1968. 41.8 N812  
Reports by R. Cockrum, R. K. Gubser, J. A. Robberson, R. A. Grant, and D. Bennett.
- 74084 PATTERSON, R. L. S. Acidic components of boar preputial fluid. *J. Sci. Food Agr.* 19(1): 38-40. Jan. 1968. 382 S012
- 74085 ROY, G. L., BOYLAN, W. J., and SEALE, M. E. Estimates of genetic correlations among certain carcass and performance traits in swine. *Can. J. Anim. Sci.* 48(1):1-6. Apr. 1968. 41.8 C163
- 74086 SCHULD, F. W., and BOWLAND, J. P. Dietary rapeseed meal for swine reproduction. *Can. J. Anim. Sci.* 48(1):57-64. Ref. Apr. 1968. 41.8 C163
- 74087 VYSOTSKI, N. I., REGUZOV, A., and GOLYSHEV, N. Long distance transportation of boar semen with application of oxygenation. (Rus) *Zhivotnovodstvo* 2:57-60. Feb. 1968. 49 Z6
- 74088 WIERZCHOS, F. Comparison of the methods in obtaining semen from boars. (Pol) *Medycyna Weterynaryjna* 24(2):109-112. Ref. Feb. 1968. 41.8 M463
- Feeds and Feeding
- 74089 ANDRZEJEWSKI, R. Suitability of dried potatoes (as compared with steamed potatoes) to fattening hogs. (Pol) *Nowe Roln.* 17(4):29-30. Feb. 16/29, 1968. 20.5 N86
- 74090 BERGNER, H., and MUNCHOW, H. Studies investigating the influence of dietary proteins on the rate of thyroid secretion and deiodation of <sup>131</sup>I-Bengal rose in pigs. (Ge) *Arch. Tierernahr.* 18(1):31-39. Feb. 1968. 389.78 Ar22  
English summary.
- 74091 BERGNER, H., MUNCHOW, H., and WIRTHGEN, B. Studies on the protein estimation in feeding-stuff. 4. (Ge) *Arch. Tierernahr.* 18(1):5-16. Feb. 1968. 389.78 Ar22  
English summary.
- 74092 CLAUSEN, H. The conservation pig will become a reality in Denmark. (Da) *Dansk Landbrug* 87(1):15-18. Jan. 1968. 280.28 V91  
Finishing meat-type pig for processed pork.
- 74093 CUNHA, T. J. Mineral needs of pigs. *Hog Farm Manage.* 5(4):16-18. Apr. 1968. SF391.H6
- 74094 CUNHA, T. J. Mineral needs of pigs. *Hog Farm Manage.* 5(5):12-13. May 1968 SF391.H6  
Chiefly zinc requirements.
- 74095 HALE, O. M., JOHNSON, J. C., and SOUTHWELL, B. L. Influence of dietary protein level on performance and carcass traits of swine. *Ga. Agr. Exp. Sta. Res. Bull.* 13, 19 p. Ref. Sept. 1967. S51.E2
- 74096 HALE, O. M., JOHNSON, J. C., and SOUTHWELL, B. L. Influence of kind and level of fat, carbohydrate source, and breed on performance and carcass traits of swine. *Ga. Agr. Exp. Sta. Res. Rep.* 18, 11 p. Ref. Nov. 1967. S51.E22
- 74097 HALE, O. M., JOHNSON, J. C., and SOUTHWELL, B. L. The value of Abruzzi rye grain for growing and finishing swine. *Ga. Agr. Exp. Sta. Res. Bull.* 14, 17 p. Sept. 1967. S51.E2
- 74098 HANSARD, S. L., and ITOH, H. Influence of limited dietary calcium upon zinc absorption, placental transfer and utilization by swine. *J. Nutr.* 95(1):23-30. Ref. May 1968. 389.8 J82
- 74099 JAMBOR, V. Investigation of the effect of a L-lysine supplement in pig fattening with a low level of nitrogenous substances in the feed ration. (Cz) *Czech. Min. Zemedel. Lesního Hospodar. Ustav Vedeckotech. Inform. Vet. Med.* 1:17-24. Ref. Jan. 1968. 41.9 C333  
English summary.
- 74100 KARPUS', N. M. Proper usage of sugar beets as feed for livestock. (Rus) *Zhivotnovodstvo* 2: 79-81. Feb. 1968. 49 Z6  
Swine.
- 74101 KOCH, D. E., PARR, A. F., and MERKEL, R. A. Fatty acid composition of the inner and outer layers of porcine backfat as affected by energy level, sex and sire. *J. Food Sci.* 33(2): 176-180. Mar./Apr. 1968. 389.8 F7322  
Includes rations.
- 74102 LAMBERT, R., and others. Stimulation of gastric acid secretion in mini-swine with histalog and I.C.I. 50,123. (Fr) *Paris. Soc. Biol. Compt. Rend.* 161(8/9):1712-1715. Feb. 26, 1968. 442.9 P21  
A. Decultieux, C. Andre, and F. Martin, joint authors.
- 74103 NORRISH, J. G. Efficient pig production. *Hog Prod.* 4(4):5, 8, 10. Apr. 1968. 46.8 H675  
Chiefly feeding and management in Canada.
- 74104 OBERST, S. Inheritance and environment. (Ge) *Ubersicht* 19(4):262-265. Apr. 13, 1968. 18 Ub3  
In feed utilization by swine.
- 74105 SCHULD, F. W., and BOWLAND, J. P. Composition of colostrum and milk from sows receiving dietary rapeseed meal or soybean meal. *Can. J. Anim. Sci.* 48(1):65-69. Ref. Apr. 1968. 41.8 C163
- 74106 TEAGUE, H. S. Vitamin requirements of the brood sow. *Feed Bag Mag.* 44(4):32-35. Apr. 1968. 389.78 F32
- 74107 YOUNG, L. G., and others. Relationship of dietary protein levels to performance and carcass merit of market swine. *Can. J. Anim. Sci.* 48(1):71-81. Ref. Apr. 1968. 41.8 C163  
G. C. Ashton, R. P. Forshaw, R. H. Ingram, joint authors.
- Veterinary Medicine
- 74109 AKOPOV, A. A., MISKARYAN, N. D., and DAVYDOVA, N. S. Food assimilation and meat productivity of barrows castrated by various methods. (Rus) *Veterinariya* 3:70-71. 1968. 41.8 V6426
- 74108 ADAMESTEANU, C., and others. Anatomical and histological aspects of the liver of baby pigs. (Fr) *Rec. Med. Vet.* 144(2):141-149. Feb. 1968. 41.8 R24  
I. Baba, M. Gaboreanu, and G. Cozac, joint authors.  
English summary.
- 74110 ANDREEV, M. N., KUDRYAVTSEV, YU. I., and KUDRYAVTSEV, A. P. Toxic dystrophy of liver in pigs. (Rus) *Veterinariya* 1:78-79. 1968. 41.8 V6426
- 74111 ARBUCKLE, J. B. R. The distribution of certain *Escherichia coli* strains in pigs and their environment. *British Vet. J.* 124(4):152-159. Ref. Apr. 1968. 41.8 V643  
Associated with diarrhea and mortality of baby pigs.
- 74112 AYNAUD, J. M. Study of multiplication in one cycle of a clone of regular hog cholera virus by means of immuno-fluorescence. (Fr) *Acad. Sci. C. R., Ser. D*, 266(5):535-537. Jan. 29, 1968. 505 P21
- 74113 BARTH, D. *Hyostrongylus rubidus*, a widespread parasite of swine in Germany. (Ge) *Tierarztl. Umsch.* 23(3):115-118, 121-122. Ref. Mar. 1, 1968. 41.8 T445
- 74114 BEYERBACH, W. U. Behandlungsversuche zur Bekämpfung des Magen-Darmrundwurmefalls des Schweines mit dem Tetramizol "Bayer 9051" [Treatment experiments for control stomach-intestinal roundworms of swine with tetramisole "Bayer 9051"]. Hanover. *Tierarztl. Hochschule. Inaug.-Dis.* 7, 46 p. Ref. 1967. 41.2 H198
- 74115 BIBRACK, B. Research into the occurrence of adenovirus antibodies in pigs of different ages. (Ge) *Munchener Tierarztl. Wochenschr.* 81(7):137-139. Ref. Apr. 1, 1968. 41.8 B45  
English summary.

- 74116 BICKHARDT, K., BAHR, K. H., and GLAWISCH-NIG, E. The half life time of passively acquired maternal immune globulins in baby pigs. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 81(7):132-135. Ref. Apr.1,1968. 41.8 B45  
English summary.  
Electrophoretic determination in serum.
- 74117 BIRO, G., NAGY, B., and KOVACS, A. Studies on edema disease of piglets. I-II. (Hu) *Magyar Allatorv. Lapja* 23(3):137-142. Ref. Mar.1968. 41.8 V644  
English summary.  
Includes intestinal flora studies and effects of feeding.
- 74118 BOCH, J., GERBER, H. C., and HORCHNER, F. Observations about hyostroglyosis of pigs. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 81(7):145-148. Ref. Apr.1,1968. 41.8 B45  
English summary.  
*Hyostroglyus rubidus*.
- 74119 BODON, L., and others. Properties of Aujeszky's disease virus strains isolated from swine pneumonia cases. *Acta Vet. [Budapest]* 18(1):107-109. 1968. 41.8 Ac83  
J. Meszaros, G. Papp-Vid, and J. Romvary, joint authors.
- 74120 BOULANGER, P., and others. Study of the American hog cholera and African swine fever. (Fr) *Econ. Med. Anim.* 9(1):3-11. Ref. Jan./Feb.1968. 41.8 Ec7  
G. L. Bannister, G. M. Ruckerbauer, A. S. Greig, and D. P. Gray, joint authors.  
In Canada.
- 74121 BRONEC, J. Determination of pregnancy in swine. (Cz) *Veterinarstvi* 17(6):260-262. 1967. 41.8 V6439
- 74122 CHRISTY, J. E. Practical porcine proctology. *Ga. Vet.* 20(2):24. Mar./Apr.1968. 41.8 G29
- 74123 CHUMACHENKO, V. E., and others. Effect of crystallized and fodder chlortetracycline on the biosynthesis of vitamin B<sub>12</sub> and riboflavin in organism of swine. (Rus) *Antibiotiki* 13(3):270-272. Mar.1968. 396.8 An84  
E. N. Sel'skova, P. G. Smol'skaya, and Z. A. Piotukh, joint authors.
- 74124 COCKERILL, V. L. The value of "cultures". *Hog Farm Manage.* 5(5):52-53,57. May 1968 SF391.H6  
Bacteria cultures for the prevention of infections in swine.
- 74125 COTTEREAU, P. Symptoms of diseases in swine. (Fr) *Rev. Elevage* 43:93-94,97-98, 100-101,103-104,107-110,113-114,116-117. 1968. 49 B462  
Includes diseases of baby pigs.
- 74126 COURTOIS, J. E., and others. Purification and properties of kidney trehalase of swine. *Acad. Sci. C. R., Ser. D*, 266(9):956-958. Feb.26,1968. 505 P21  
J. F. Demelier, J. Labat, and F. Hargreaves, joint authors.
- 74127 CRIGHTON, D. B. Depletion of rat ovarian ascorbic acid by a factor other than lutenizing hormone present in the blood of the pig. *J. Reprod. Fert.* 15(3):457-459. Apr.1968. 442.8 J8222
- 74128 DIAZ C., C. H. Bacterial necrosis of pigs (necrobacillosis)—a form of treatment. (Sp) *Gac. Vet.* 29(209):554-558. Ref. Dec.1967. 41.8 G112
- 74129 DIXON, J. B. Immunity to *Metastrongylus apri*. *Vet. Rec.* 82(14):417-418. Ref. Apr.1968. 41.8 V641  
Of pigs.
- 74130 DUCHUK, R. V., PRITULO, A. S., and DEMCHENKO, M. P. Economic losses in swine due to virus pneumonia. (Rus) *Veterinariya* 1:45. 1968. 41.8 V6426
- 74131 DUNNE, H. W., and CLARK, C. D. Embryonic death, fetal mummification, stillbirth, and neonatal death in pigs of gilts vaccinated with attenuated live-virus hog cholera vaccine. *Amer. J. Vet. Res.* 29(4):787-796. Ref. Apr.1968. 41.8 Am3A
- 74132 DWIVEDI, J. N. Eosinophilic myositis in a pig. *Indian Vet. J.* 45(1):13-14. Jan.1968. 41.8 In2
- 74133 EKMEIER, H. Observations on the importance of climate in sties where pigs with enzootic pneumonia are housed. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 81(7):140-142. Apr.1,1968. 41.8 B45  
English summary.  
Heating and ventilation.
- 74134 ETO, M., and others. A collective outbreak of transmissible gastroenteritis in swine. 3. Isolation of a virus with cytopathogenic effects and its properties. (Ja) *Jap. Vet. Med. Ass. J.* 21(2):73-76. Feb.1968. 41.9 J275  
K. Uno, M. Mishima, T. Tsunoda, H. Taneno, S. Watanabe, T. Ichihara, and T. Ichihara, joint authors.  
English summary.
- 74135 FUJIWARA, H., MINAMIMOTO, S., and NAMIOKA, S. Enteric lesion with intranuclear inclusion bodies in piglets. *Tokyo. Nat. Inst. Anim. Health Quart.* 8(1):53-54. Spring 1968. 41.9 T575Q  
As a result of scours.
- 74136 GILKA, F. A comparative study on the pathological picture of transmissible gastroenteritis (TGE) and *Escherichia coli* gastroenteritis in newborn piglets with special reference to the gastro-intestinal tract. *Acta Vet. [Budapest]* 18(1):39-50. Ref. 1968. 41.8 Ac83
- 74137 GOIS, M. The culture of *Mycoplasma* from swine lungs. (Cz) *Czech. Min. Zemedel. Lesniho Hospodar. Ustav Vedeckotech. Inform. Vet. Med.* 40(6):331-338. Ref. June 1967. 41.9 C333  
English summary.
- 74138 GREZIN, V. F., and AKSENOV, V. I. Study of toxic effect of hygromycin B in experiments with swine. (Rus) *Veterinariya* 1:65-66. 1968. 41.8 V6426
- 74139 GRUDNIEWSKA, B., KRAUTFORST, W., WIECEK, E. The influence of some factors on the individual growth and development of piglets. (Pol) *Medycyna Weterynaryjna* 24(2):114-117. Ref. Feb.1968. 41.8 M463  
French summary.
- 74140 HAMORI, D. Investigations on atrophic rhinitis of swine. I. Economical importance. (Hu) *Magyar Allatorv. Lapja* 23(3):123-127. Ref. Mar. 1968. 41.8 V644  
English summary.
- 74141 HARDISON, W. G. M., and NORMAN, J. C. Electrolyte composition of the secretin fraction of bile from the perfused pig liver. *Amer. J. Physiol.* 214(4):758-763. Ref. Apr.1968. 447.8 Am3
- 74142 HARRIS, D. L., and SWITZER, W. P. Turbinate atrophy in young pigs exposed to Bordetella bronchiseptica, *Pasteurella multocida*, and combined inoculum. *Amer. J. Vet. Res.* 29(4):777-785. Ref. Apr.1968. 41.8 Am3A
- 74143 HENDE, C. VAN DEN, MUYLLE, E., and OYAERT, W. Enzyme activities of liver, heart- and skeletal muscles of the pig. *Zentralbl. Veterinarmed. Reihe A*, 15(2):135-142. Ref. Mar.1968. 41.8 Z5
- 74144 HOSODA, T., and others. Haemolytic disease of newborn pigs. 3. Histological findings of piglets dead from haemolytic disease. (Ja) *Jap. J. Zootech. Sci.* 39(2):73-77. Feb.1968. 49 N62  
K. Mogi, K. Himeno, K. Ishida, and A. Sato, joint authors.  
English summary.
- 74145 HOVMAND, H. C., and SLOT, P. Microbial formation of nitrite in ventilating shafts. *Acta Vet. Scand.* 1:86-89. 1968. 41.8 AC87  
Toxicity to swine.
- 74146 HOWARTH, J. A., and DE PAOLI, A. An enzootic of pseudorabies in swine in California. *Amer. Vet. Med. Ass. J.* 152(8):1114-1118. Apr.1968. 41.8 AM3
- 74147 JACOBS, D. E. Parasites of sows and pigs in Europe. *Span* 11(1):16-18. 1968. 464.8 Sp2



- 74148 JAGGERS, S. E., and HERBERT, I. V. Studies on the resistance of pigs to the lungworm *Metastrongylus* spp.; infections in minimal disease pigs from eight weeks of age. *J. Compar. Pathol.* 78(2):161-172. Ref. Apr.1968. 41.8 J82
- 74149 JANOWSKI, H. Colibacteriosis in pigs in Poland; investigations on the etiology and pathogenesis. (Pol) *Medycyna Weterynaryjna* 24(2): 89-93. Feb.1968. 41.8 M463
- 74150 JUHASZ, S., and TAMASI, G., and PESTI, L. Studies on some digestive enzymes in swine gastroenteritis. *Acta Vet. [Budapest]* 17(4):413-421. 1967. 41.8 AC83
- 74151 JURACKA, B., and VANEK, J. Fibroma of spleen in swine. (Cz) *Veterinarstvi* 17(6):273. 1967. 41.8 V6439
- 74152 KAST, A., and HANICHEN, T. Rhabdomyoma in pigs' heart. (Ge) *Zentralbl. Veterinarmed. Reihe B*, 15(1):140-150. Ref. Feb.1968. 41.8 Z52  
English summary.
- 74153 KAWAKUBO, A., and others. Field trial of Japanese encephalitis vaccine for the prevention of viral stillbirth among pigs in Shizuoka Prefecture in 1964. (Ja) *Jap. Vet. Med. Ass. J.* 20(6):27-32, 12. June 1967. 41.9 J275  
H. Nakamura, K. Takehara, J. Nakamura, F. Fujii, and S. Hyong, joint authors.
- 74154 KIRILLIN, V. V. Tissue preparations and protein composition in swine blood. (Rus) *Svinovodstvo* 4:40-41. Apr.1968. 46.8 Sv33
- 74155 KNAAK, J. B., and others. The metabolism of carbaryl in man, monkey, pig, and sheep. *J. Agr. Food Chem.* 16(3):465-470. May/June 1968. 381 J8223  
M. J. Tallant, S. J. Kozbelt, and L. J. Sullivan, joint authors.
- 74156 KORONDI, A., and SURJAN, J. Comparative studies with foreign swine fever virus strains. (Hu) *Magyar Allatorv. Lapja* 23(3):134-136. Mar.1968. 41.8 V644  
English summary.
- 74157 KOVES, J. The dwarf swine as experimental animal in medical biology. (Hu) *Magyar Allatorv. Lapja* 23(3):151-152. Mar.1968. 41.8 V644
- 74158 KUBASOVA, M. G. The effect of polymyxin M and chlortetracycline on motor and secretory function of swine stomach. (Rus) *Veterinariya* 1:67-68. 1968. 41.8 V6426
- 74159 KURNOSOV, A. N. To the problem of origin of the hypotrophy in baby pigs. (Rus) *Svinovodstvo* 2:41-42. Feb.1968. 46.8 Sv33
- 74160 L'ECUYER, C. Exudative epidermitis of swine. (Fr) *Econ. Med. Anim.* 9(1):13-17. Ref. Jan./Feb.1968. 41.8 Ec7
- 74161 LELAND, S. E., COMBS, G. E., and WALLACE, L. J. Anthelmintic activity of thiabendazole and trichlorphon against migrating and adult strongyloides ransoni in suckling and weaning pigs. *Amer. J. Vet. Res.* 29(4):797-806. Apr.1968. 41.8 Am3A
- 74162 LESKOVA, R., and ONDESCHEKA, K. Electrophoretic investigations of the colostrum and milk of swine. (Ge) *Z. Tierphysiol. Tierernahr. Futtermittelkunde* 23(5):257-262. Ref. Apr.1968. 389.78 Z3  
English summary.
- 74163 LOAN, R. W., and STORM, M. M. Propagation and transmission of hog cholera virus in non-porcine hosts. *Amer. J. Vet. Res.* 29(4):807-811. Ref. Apr.1968. 41.8 Am3A
- 74164 LOFGREN, J. A., and SOLAC, R. B. Pests and parasites of hogs. *Minn. Univ. Ext. Ext. Folder* 208, rev., 8 p.-folder. 1968. 275.29 M66Ex  
Chemical control.
- 74165 LOGTESTIJN, J. G. VAN. Pregnancy in a hermaphrodite sow. (Du) *Tijdschr. Diergeneesk.* 93(8):523-525. Apr.15, 1968. 41.8 T431  
English summary.
- 74166 MCCONNELL, S., SPERTZEL, R. O., and SHIVELY, J. N. Isolation, characterization, and serologic comparison of selected porcine enteroviruses by plaque reduction test. *Amer. J. Vet. Res.* 29(2):245-251. Ref. Feb.1968. 41.8 Am3A
- 74167 MCERLEAN, B. A. *Salmonella dublin* meningitis in piglets. *Vet. Rec.* 82(9):257-258. Mar. 1968. 41.8 V641
- 74168 MENGELING, W. L. A fluorescent microplaque assay for hog cholera virus. *Arch. Gesamte Virusforsch.* 23(1/2):27-39. 1968. 448.3 Ar23
- 74169 MEYLING, A., and SCHJERNING-THIESEN, K. Study of the practicability of various diagnostic methods in the demonstration of swine fever virus of high and low virulence in organs of experimentally infected pigs. *Acta Vet. Scand.* 1:50-64. Ref. 1968. 41.8 AC87  
Studies in Norway.
- 74170 MIKEL, C. J. Hog cholera in southeast Georgia counties. *Ga. Vet.* 20(2):18. Mar./Apr.1968. 41.8 G29
- 74171 MUSSGAY, M., and WITTMANN, G. The present stage of research on the development of foot-and-mouth disease vaccines for pigs. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 81(7):124-129. Apr.1, 1968. 41.8 B45  
English summary.  
Review of the literature.
- 74172 NAGY, Z., and PESTI, L. Microscopic lesions in the pancreas of swine with gastroenteritis. *Acta Vet. [Budapest]* 17(4):401-411. 1967. 41.8 AC83
- 74173 NECHAEV, P. A. Immunization of swine with mixed vaccines against hog cholera and swine erysipelas. (Rus) *Svinovodstvo* 4:41. Apr. 1968. 46.8 Sv33
- 74174 NEUBRAND, K. The veterinarian and concentration in pig farming. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 81(7):142-143. Apr.1, 1968. 41.8 B45  
English summary.
- 74175 NIELSEN, N. O., and SAUTTER, J. H. Infection of ligated intestinal loops with hemolytic *Escherichia coli* in the pig. *Canad. Vet. J.* 9(4):90-97. Ref. Apr.1968. 41.8 R3224
- 74176 NIEPOLD, D. Sufficient supply of iron as necessary pre-requisite of profitable rearing of healthy piglet. (Ge) *Tierarztl. Umsch.* 23(3): 138-140. Mar.1, 1968. 41.8 T445
- 74177 NORMAN, J. O., MCCLURKIN, A. W., and BACHRACH, H. L. Infectious nucleic acid from a transmissible agent causing gastroenteritis in pigs. *J. Compar. Pathol.* 78(2):227-235. Ref. Apr.1968. 41.8 J82
- 74178 NORRISH, J. G., and others. Performance of partially and completely castrated pigs. *Can. J. Anim. Sci.* 48(1):27-33. Apr.1968. 41.8 C163  
G. H. Bowman, F. H. Ingram, O. P. Miniats, joint authors.  
Carcass traits.
- 74179 OLSON, L. D. Inexpensive isolation units made of cardboard for baby pigs. *Amer. J. Vet. Res.* 29(4):921-923. Apr.1968. 41.8 Am3A  
For the study of transmissible gastroenteritis.
- 74180 OPITZ, H. G. Jaresubersicht 1965 der Schweinebehandlungen in einer tierarztlichen Praxis von Winsen/Luhe, Niedersachsen [Annual survey, 1965 of swine treatment in a veterinary practice at Winsen/Luhe, Lower Saxony]. *Hanover. Tierarztl. Hochsch. Inaug.-Diss.* 15, 35 p. Ref. 1967. 41.2 H198
- 74181 PHILLIPS, C. E. In vitro potency tests for anti-hog cholera antibodies: A test for anti-hog cholera serums and a test for herd exposure. *Amer. J. Vet. Res.* 29(5):1097-1102. May 1968. 41.8 Am3A  
A combination of the neutralization test and fluorescent antibody technique.
- 74182 PHILLIPS, W. E. J., and BRIEN, R. L. Ubiquinone, vitamin A, and sterol levels in liver of neonatal pigs. *Can. J. Biochem.* 46(3):291-293. Ref. Mar.1968. 470 C16E
- 74183 PIRTLE, E. C., and KNAZEFF, A. J. Susceptibility of cultured mammalian cells to infection with virulent and modified hog cholera viruses. *Amer. J. Vet. Res.* 29(5):1033-1040. Ref. May 1968. 41.8 Am3A

- 74184 PLOWRIGHT, W., PARKER, J., and STAPLE, R. F. The growth of a virulent strain of African swine fever virus in domestic pigs. *J. Hyg.* 66(1):117-134. Ref. Mar.1968. 44.8 J82
- 74185 PRICE, M. A., NEWTON, W. H., and HAMMAN, P. J. External parasites attacking swine in Texas; fact sheet. *Tex. Agr. Mech. Univ. Ext.* L-706, 2 p. Apr.1967. 275.29 T313  
Lice, mites and *Cochliomyia hominivorax*.
- 74186 PRITULIN, P. I., KONOPATKIN, A. A., and RYZHENKO, V. P. Complex immunization of hogs against hog cholera, erysipelas, paratyphoid, and pasteurellosis. (Rus) *Veterinariya* 3:41-43. 1968. 41.8 V6426
- 74187 PRITULIN, P. I. Research on swine diseases at the All-Union Institute of Experimental Veterinary Medicine. (Rus) *Veterinariya* 1:13-15. 1968. 41.8 V6426
- 74188 REKSA, M. Vetsulid in the treatment of salmonellosis in pigs. (Pol) *Medycyna Weterynaryjna* 24(2):126-127. Ref. Feb.1968. 41.8 M463
- 74189 REXROTH, E. A new and changed picture of the so-called edema disease in the differential diagnosis of swine pest. 3. (Ge) *Tierarztl. Umsch.* 23(3):128-130, 133-138. Ref. Mar.1, 1968. 41.8 T445
- 74190 REYNOLDS, I. M., MILNER, P. W., and SMITH, R. E. *Salmonella meningitis*; a case report. *Cornell Vet.* 58(2):180-185. Apr.1968. 41.8 C81  
In baby pigs.
- 74191 RITCHIE, A. E., and FERNELIUS, A. L. Direct immuno-electron microscopy and some morphological features of hog cholera virus. *Arch. Gesamte Virusforsch.* 23(3):292-298. Ref. 1968. 44.8 Ar23
- 74192 ROBERTS, D. H. Serological diagnosis of *Mycoplasma hyopneumoniae* infection in pigs. *Vet. Rec.* 82(11):362-363. Ref. Mar.1968. 41.8 V641  
Causative agent of virus pneumonia.
- 74193 ROOK, J. A. F., and WITTER, R. C. Diet and milk secretion in the sow. *Nutr. Soc. Proc.* 27(1):71-76. Ref. Mar.1968. 389.9 N953
- 74194 RUDOLPH, W. On the histopathology of skin modifications during experimental erysipelas infection of pigs. I-III. (Ge) *Arch. Exp. Veterinarmed.* 21(3):629-673. Ref. 1967. 41.8 Ex7  
English summary.
- 74195 SAVIC, I., and DINIC, J. The significance of finding *Salmonella* in meat and organs of clinically healthy swine. (Se) *Vet. Glas.* 21(1):63-67. Ref. 1967. 41.8 J93  
English summary.
- 74196 SCHOLL, E. The supervision of health in pig farms in Switzerland. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 81(7):135-137. Ref. Apr.1, 1968. 41.8 B45  
English summary.
- 74197 SCHULER, A. Exudative depigmentary myopathy of swine and its meat inspectional evaluation. (Ge) *Schweiz. Arch. Tierheilk.* 110(3):154-158. Mar.1968. 41.8 Sch9  
English summary.
- 74198 SINHA, B. K. On the helminth parasites of domestic pigs (*Sus scrofa domestica*) in Bihar (India). *Indian Vet. J.* 119-123. Ref. Feb.1968. 41.8 In2
- 74199 SKODA, R. Immunization of Aujeszky's disease with live vaccine. I. The occurrence of Aujeszky's disease in swine immunized with BUK vaccine. (Cz) *Czech. Min. Zemedel. Lesniho Hospodar. Ustav Vedeckotech. Inform. Vet. Med.* 40(6):283-292. June 1967. 41.9 C333  
English summary.
- 74200 STRANDE, A. Epidural anesthesia in young pigs, dosage in relation to the length of the vertebral column. *Acta Vet. Scand.* 1:41-49. 1968. 41.8 AC87
- 74201 SUAREZ, C. A., and others. Renal function and nephron structure in the miniature pig. *Amer. J. Vet. Res.* 29(5):995-1007. Ref. May 1968. 41.8 Am3A  
A. A. Guerrero, G. Musil, and W. H. Hulet, joint authors.
- 74202 SUPPERER, R., PFEIFFER, H., and KUTZER, E. Parasite control in connection with modern pig farming. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 81(7):129-132. Apr.1, 1968. 41.8 B45  
English summary.  
Endo- and ectoparasites.
- 74203 SWARBRICK, O. Farrowing fever. *Pig Farming* 16(5):26-27, 31. May 1968. 46.8 P623
- 74204 SWARBRICK, O. The porcine agalactia syndrome; clinical and histological observations. *Vet. Rec.* 82(9):241-252. Ref. Mar.1968. 41.8 V641
- 74205 SWEENEY, E. J. *Escherichia coli* in enteric disease of swine: observations on herd resistance. *Irish Vet. J. (n.s.)* 22(3):42-46. Ref. Mar.1968. 41.8 Ir4  
*Coli-enterotoxemia*.
- 74206 SZAZADOS, I. Recent occurrence of swine leucoses in slaughter house material. (Hu) *Magyar Allatorv. Lapja* 23(3):113-117. Ref. Mar. 1968. 41.8 V644  
English summary.
- 74207 SZENT IVANYI, T., and SZEKY, A. On the differential diagnosis of Teschen disease and similar conditions. (Hu) *Magyar Allatorv. Lapja* 23(3):129-133. Mar.1968. 41.8 V644  
English summary.
- 74208 TAKASHINO, H., and others. Detection of swine cysticercosis among adult pigs imported from Korea. (Ja) *Jap. Vet. Med. Ass. J.* 20(6):18-24. Ref. June 1967. 41.9 J275  
K. Shinohara, H. Tomioka, H. Iwasaki, M. Suzuki, H. Naito, R. Seguchi, K. Utuki, K. Ishimoto, T. Tomono, N. Kaneki, M. Ikeda, T. Oda, N. Watanabe, and R. Ito, joint authors.  
English summary.
- 74209 TANYI, J., and KUDRON, E. Frequently occurring *Streptococcus* induced diseases of pigs. (Hu) *Magyar Allatorv. Lapja* 23(3):117-123. Mar.1968. 41.8 V644  
English summary.  
Chiefly in piglets.
- 74210 TOPEL, D. G., and others. Porcine stress syndrome. *Mod. Vet. Pract.* 49(5):40-41, 59-60. May 1968. 41.8 N812  
E. J. Blacknell, K. S. Preston, L. L. Christian, and C. Y. Matsushima, joint authors.
- 74211 TRAN-VAN-DU, and HUARD, M. Study of enzootic pneumonia of swine in Vietnam. I. Characteristics of the infectious agent and comparison with the agent of swine virus pneumonia. (Fr) *Rec. Med. Vet.* 144(2):103-125. Ref. Feb. 1968. 41.8 R24  
English summary.
- 74212 TROJNACKI, Z., and others. Histological and histochemical investigations in the course of healing of the wound of uterine muscle in connection with different suturing materials. (Pol) *Medycyna Weterynaryjna* 24(2):73-77. Ref. Feb.1968. 41.8 M463  
I. B. Rubaj, S. Uchacz, and R. Sikorski, joint authors.  
French summary.  
Surgery of swine and dogs.
- 74213 U. S. AGRICULTURAL RESEARCH SERV. ANIMAL HEALTH DIV. African swine fever; an expanding threat to American hogs. U. S. D. A. PA-817, 8 p.-folder, map. Feb. 1968. 1 Ag84Pro  
U. S. Agricultural Research Service, Animal Disease and Parasite Research Division, co-operating.
- 74214 U. S. AGRICULTURAL RESEARCH SERV. ANIMAL HEALTH DIV. Cooperative State-Federal hog cholera eradication program, progress report 1967. U. S. Agr. Res. Serv. ARS 91-67, 39 p.-map. Feb.1968. A41.9 R315Ar
- 74215 VRBANAC, I. Some observations on the trembling of newly born baby pigs. (Se) *Vet. Glas.* 21(1):69-72. 1967. 41.8 J93  
English summary.
- 74216 VRCHLABSKY, J. The influence of lorry transport on certain properties of the meat of pigs. (Cz) *Czech. Min. Zemedel. Lesniho Hospodar. Ustav Vedeckotech. Inform. Vet. Med.* 41(2):127-136. Ref. Feb.1968. 41.9 C333  
English summary.



- 74217 WITTE, K. H., TAJIMA, M., and EASTERDAY, B. C. Morphologic characteristics and nucleic acid type of transmissible gastroenteritis virus of pigs. Arch. Gesamte Virusforsch. 23(1/2):53-70. 1968. 448.3 Ar23
- 74218 WOLKE, R. E., NIELSEN, S. W., and ROUSSEAU, J. E. Bone lesions of hypervitaminosis A in the pig. Amer. J. Vet. Res. 29(5):1009-1024. Ref. May 1968.
- 74219 WZIAŁEK, A. Swallowed foreign bodies by pigs as a cause of colon occlusion. (Pol) Medycyna Weterynaryjna 24(2):124. Feb.1968. 41.8 M463
- 74220 ZEE, Y. C., HACKETT, A. J., and MADIN, S. H. Electron microscopic studies on vesicular exanthema of swine virus: Intracytoplasmic viral crystal formation in cultured pig kidney cells. Amer. J. Vet. Res. 29(5):1025-1032. Ref. May 1968. 41.8 Am3A
- 74221 ZEE, Y. C., HACKETT, A. J., and TALENS, L. T. Electron microscopic studies on the vesicular exanthema of swine virus. II. Virology 34(4):596-607. Ref. Apr.1968. 448.8 V81
- 74222 ZUFFA, A., and others. Determination of the hog cholera virus in tissue culture by immunofluorescent method. (Cz) Czech. Min. Zemedel. Lesního Hospodár. Ústav Vedeckotech. Inform. Vet. Med. 40(6):303-310. Ref. June 1967. 41.9 C333  
J. Matis, O. Zak, and J. Fragner, joint authors.  
English summary.

Miscellaneous

- 74223 ALDERSON, E. Looking at sow tie-ups; do tie-ups spell "success or failure?" Hog. Prod. 4 (4):12-13. Apr.1968. 46.8 H675
- 74224 GANIEV, M. K., and others. Disinfection of swine houses with petroleum wastes. (Rus) Svinovodstvo 2:40-41. Feb.1968. 46.8 Sv33  
A. A. Askerov, D. Ragimov, and M. Aliev, joint authors.
- 74225 GLASNAK, V. Polymorphism of beta<sub>1</sub>-caseins in sow's milk. Folia Biol. [Praha] 14(1):70-73. 1968. 442.8 F712
- 74226 GORDON, J. What's happening in west Africa. Pig Farming 16(5):39. May 1968. 46.8 P623  
Care in Nigeria.
- 74227 GRAUVOGL, A. Aims of research into behaviour of pigs. (Ge) Berliner Munchener Tierarztl. Wochenschr. 81(7):143-145. Ref. Apr.1, 1968. 41.8 B45  
English summary.
- 74228 GREAT BRITAIN, AGRICULTURAL RESEARCH COUNCIL. Index of current research on pigs. XIV. London, 1968. 168 p. 46.9 G79





## ENGINEERING

References on bee-keeping equipment and malaria control equipment are classified with Entomology; references on forestry equipment with Forestry; references on industrial equipment with Agricultural Products; and references on irrigation equipment and drainage equipment with Soils.

## GENERAL AND MISCELLANEOUS

- 74229 BURCH, T. A. Farm machinery custom rates, South Carolina. S. C. Agr. Exp. Sta. AE 311, 46 p., map. Feb. 1968. 281.9 C59
- 74230 HOWARD, E. R. Rural fire defense program. Forest. Res. Notes 22(7):16-19. Mar. 1968. 99.8 F7692  
Includes forest fire control in Florida.
- 74231 U. S. FOREST SERV. Engineering field tables. Ed. 3. Washington, 1967. 185 p. aTA332.A5U5 1967.  
U. S. Department of the Interior, Bureau of Land Management, cooperating.  
Chiefly surveying.

## FARM MACHINES AND EQUIPMENT

- 74232 ALLEN, W. S., and others. Make sure that your portable equipment is properly grounded! Tex. Agr. Mech. Univ. Ext. L-695, 4 p. 1967? 275.29 T313  
W. E. McCune, R. C. Jaska, and T. Neumann, joint authors.  
Electric.
- 74233 AMERICAN VEGETABLE GROWER. Tomato mechanization in the East and West. Amer. Veg. Grower 16(3):24,26,80-81. Mar. 1968. 80 C733
- 74234 BARTLE, W. H. New machinery. Sports Turf Res. Inst. J. 43:61-80. 1967, pub. Mar. 1968. 60.19 B772
- 74235 BASIN, V., KUZNETSOV, B., and MANYAKIN, S. A. A new universal sugar beet machine. (Rus) Sakh. Svekla 3:20-22. Mar. 1968. 66.8 Su393
- 74237 BEZRUKII, L. Cultivating potatoes on drained peat bogs. (Rus) Tekh. Sel'skom Khoz. 4:9-12. 1968. 58.8 M11  
Chiefly equipment.
- 74236 BERGMANN, F. The loading trailer—its technique and possibilities. (Ge) Traktor Landmasch. 30(4):232-240. (Cont.) Mar. 1, 1968. 58.8 T678Ag
- 74238 BIGI, F. Mechanization and tropical agriculture. (It) Macch. Motori Agr. 26(4):101-107. Apr. 1968. 58.8 M13  
Africa.
- 74239 BOTTROFF, E. G. Primary industry faces vital decision. Power Farming Australia New Zeal. Better Farming Dig. 77(2):9,73. Feb. 1968. 58.8 P87  
Deterioration of farm machinery.
- 74240 BOURNAS, L. The evolution of agricultural mechanization and cultural techniques in France. (Fr) France. Centre Nat. Etud. Exp. Mach. Agr. Bull. Inform. 121:15-22. Feb. 1968. 58.9 F843B
- 74241 BRETH, F. E. Automation changes the appearance of the dairy farms in California. (Fr) Rev. Elevage 23(4):39,41-42,45-46,51. Apr. 1968. 49 B462  
Includes types of dairy barns.
- 74242 BUGRIMOV, E. I. The livestock farm in the future. (Rus) Zhivotnovodstvo 2:21-27. Feb. 1968. 49 Z6  
Mechanization and designs.
- 74243 BUYANOV, A. I. The agricultural machine industry of the Soviet Union and prospects of its development. I. (Hu) Jarmuvek, Mezogazdasagi Gepek 15(3):81-87. Mar. 1968. 58.8 J29  
English summary, p. 4 of content.
- 74244 COLYER, D., and VOGT, F. Farm machinery investment decisions using mixed integer programming. Mo. Agr. Exp. Sta. Res. Bull. 931, 22 p. Dec. 1967. 100 M693

- 74245 DIEMEL, H. Plant husbandry with DLG [Deutsche Landwirtschafts-Gesellschaft] approved equipment. (Ge) Landmasch.-Markt 47(5):21-22. Mar. 1, 1968. 58.8 L239  
English summary.  
Potato and beet equipment.
- 74246 DROZDOV, N. I., and GULIN, M. A. Investigation of durability of agricultural equipment, operated on high speed. (Rus) Trakt. Sel'khoz-mash. 4:19-21. Apr. 1968. 58.8 T68
- 74247 GYORI, B. Technical-mechanical basis of agriculture. I. (Hu) Magyar Mezogazdasag 23(4):8-9. Jan. 24, 1968. 19 M27  
Repair-technical stations.
- 74248 IGOSHIN, N., and KUZNETSOV, A. Experience with maintenance of equipment. (Rus) Tekh. Sel'skom Khoz. 4:58-60. 1968. 58.8 M11
- 74249 IMPLEMENT AND TRACTOR. 1968 product file number. Impl. Tractor 83(8), 310 p. Mar. 31, 1968. 58.8 W41
- 74250 KNYAZEY, A. F. New equipment for mechanization of livestock. (Rus) Trakt. Sel'khoz-mash. 3:39-40. Mar. 1968. 58.8 T68
- 74251 KOCHETKOV, V. P., SIDORENKO, V. I., and SENN, M. F. Mechanization of carrot growing. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 132:155-161. 1967. 20 M857
- 74252 LACOMBE, R. Mechanization in cattle raising. (Fr) Coop. Agr. [Paris] 15(171):34-35. Apr. 1968. 280.28 C78972
- 74253 MEDRI, E. Provisions for mechanization. (It) G. Agr. 78(12):142. Mar. 24, 1968. 16 It1G  
Under the second Green Plan.
- 74254 NORTHWEST FARM EQUIPMENT JOURNAL. 1968 buyers manual edition. Northwest Farm Equip. J. 82(3), 98 p. Mar. 1968. 58.8 F222
- 74255 PETUKHOV, B. Experience with specialization of repair facilities in the Kirov Region. (Rus) Tekh. Sel'skom Khoz. 4:65-68, map. 1968. 58.8 M11
- 74256 PYLE, H. Safety—its demands and rewards. Agr. Eng. 49(4):197,236-237. Apr. 1968. 58.8 Ag83
- 74257 SCOTT, J. T., and CAGLEY, C. E. The economics of machinery choice in corn production. Ill. Agr. Exp. Sta. Bull. 729, 26 p. Ref. Apr. 1968. 100 IL6S
- 74258 SUDAK, V., and DENISOV, G. New equipment for the wide-span poultry house. (Rus) Tekh. Sel'skom Khoz. 4:20-22. 1968. 58.8 M11
- 74259 TAMOZHNIKOV, N. D. The problem of determining the most suitable number and structure of machine and tractor fleet. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 129:157-162. 1967. 20 M857  
On the state farm.
- 74260 VERENIGING ONTWIKKELING ARBEIDSKUNDE. RAAD ARBEIDSKUNDE IN DE LANDBOUW. STUDIEGROEP ERGONOMIE. Ergonomic checklist for machines and implements. Int. Union Forest. Res. Organ. Papers, 14th Congr., v. 8:775-791. 1967. 99.9 In82

## Animal Husbandry Equipment

- 74261 DENES, F. Automation of feeding in some foreign swine fattening systems. (Hu) Magyar Mezogazdasag 23(8):18-20. Feb. 21, 1968. 19 M27
- 74262 DICKSON, A. J. High flow valve for farm trough. New Zealand J. Agr. 116(4):26-27. Apr. 1968. 23 N48J  
For cattle.
- 74263 ELRINGTON, J. D. Facts on low-line milking. Queensland Agr. J. 94(2):76-81. Feb. 1968. 23 Q33  
Machines.
- 74264 FEHER, K. The selection of milking machines is greater. (Hu) Magyar Mezogazdasag 23(14):16-17. Apr. 3, 1968. 19 M27
- 74265 FELL, L. R. Management of modern milk machines. New Zealand J. Agr. 116(4):18-21. Apr. 1968. 23 N48J

- 74266 GRANT, B. Cutting rawhide strings. West. Horseman 33(4):79-80. Apr.1968. 42.8 W522
- 74267 GROMMERS, F. J. The "cow-trainer," a new element in the Dutch barn. (Du) Tijdschr. Diergeneesk. 93(8):520-522. Apr.15,1968. 41.8 T431  
English summary.  
Electric prodder.
- 74268 KULAKOVSKII, I. V., and OMEL'CHENKO, A. A. Determination of load on scrapers of the feed conveying and distributing equipment. (Rus) Trakt. Sel'khoz mash. 3:33-35. Mar.1968. 58.8 T68  
Swine feeding equipment.
- 74269 MARTINOT. The problems of equipment for dairy cattle on the family farm. (Fr) France. Centre Nat. Etud. Exp. Mach. Agr. Bull. Inform. 121:23-27. Feb.1968. 58.9 F843B  
Chiefly feeding and milking equipment and barns.
- 74270 PEGG, S. E. Faster milking on Queensland farms. Queensland Agr. J. 94(2):116-118. Feb.1968. 23 Q33  
Equipment and technique.
- 74271 PICKHAVER, G. S. Why test milking machines. S. Australia J. Agr. 71(7):250-254. Feb.1968. 23 So84
- 74272 RANDOLPH, H. Here are tips on plastic tubing care. Dairy Herd Manage. 4(3):52-53. Mar. 1968. SF191.D3  
Milking machine sanitation.
- 74273 RIGLER, F. The effect of detergent Zlatol on the microorganisms of milking machines. (Se) Vet. Glas. 21(1):79-83. 1967. 41.8 J93  
English summary.
- 74274 SHUL'GA, V. What hinders introduction of milking machines. (Rus) Tekh. Sel'skom Khoz. 4:22-23. 1968. 58.8 M11
- 74275 STEFFEN, R. Horse equipment of the Middle Ages. West. Horseman 33(4):50-52. (Cont.) Apr.1968. 42.8 W522
- 74276 STEFFEN, R. Horse equipment of the Middle Ages. West. Horseman 33(5):100-101,216. (Cont.) May 1968. 42.8 W522
- 74277 TWOMEY, A. Cleaning milking machinery by reverse flow. Span 11(1):59-62. 1968. 464.8 Sp2  
Methods used in New Zealand.
- 74288 SIEG, R. The plow and its problems by the increase of tractor performance. (Ge) Traktor Landmasch. 30(6):335-341. Apr.1968. 58.8 T678Ag
- 74289 SOLOV'EV, S. P. Breaking soil with wide angle. (Rus) Mekh. Elek. Sots. Sel. Skhoz. 3:9-10. 1968. 58.8 M46  
Cultivators.
- 74290 UKRAINETS, V. Mechanized cultivation and afterharvest processing of poppy seeds. (Rus) Tekh. Sel'skom Khoz. 2:11-15. 1968. 58.8 M11
- 74291 VALEEV, A. Setting cultivator shovels. (Rus) Tekh. Sel'skom Khoz. 4:55-56. 1968. 58.8 M11
- 74292 VETTERLEIN, R. Practice oriented tillage combinations for seedbed preparation. (Ge) Landmasch.-Markt 47(4):14,16-17. Feb.21, 1968. 58.8 L239
- 74293 VOGT, C. Evaluation of soil cultivator combinations. (Ge) Lohnunternehmen 23(4):97-98. Apr.15,1968. 58.8 D81

#### Fertilizing and Planting Equipment

#### Cultivation and Tillage Equipment

- 74278 BORK, D. Automatic reset plows. Hoard's Dairyman 113(9):618. May 10,1968. 44.8 H65
- 74279 FISCHER, K. Plows for heavy tractor. (Ge) Lohnunternehmen 23(4):104,106-108. Apr.15, 1968. 58.8 D81
- 74280 GASANOV, S., and POPOV, YU. An aggregate for cultivation of heavy soils. (Rus) Kartoffel' Ovoshchi 1:22-23. Jan.1968. 75.8 K147
- 74281 GIL'SHTEN, P. M. Deep plows used on bogbrush pastures. (Rus) Trakt. Sel'khoz mash. 3:22. Mar.1968. 58.8 T68
- 74282 HLADIK, J. Rotary lawn-mower for mulching grasses. (Cz) Zahradnicke Listy 61(2):63. 1968. 80 Z12
- 74283 KUCZKOWSKI, H., and ZOLNIERCZYK, CZ. Possibilities of mechanization of sugar beet thinning. (Pol) Nowe Roln. 17(5):8-10. Mar.1/15,1968. 20.5 N86
- 74284 MAJKUTH, J. Minimum tillage in corn culture. (Hu) Magyar Mezogazdasag 23(7):10-11. Feb.14,1968. 19 M27  
Mechanical.
- 74285 OEHRING, J. Spring tillage and technique. (Ge) DLZ-Landtech. Z. 19(3):124-126. Mar. 1968. 58.8 T677
- 74286 SAMOKHODSKAYA, I., and SHASHKOV, B. Mechanized soil tillage and application of fertilizers. (Rus) Zemledelie 4:17-23. Apr.1968. 20 Z44
- 74287 SCHIFFER, W. Quick spring tillage through equipment coupling. (Ge) Genossensch. Rat-schlage Bauernhof, Mar.1968:2-3. 384 C4292
- 74294 ARTUS, C. H. Anhydrous ammonia hose. Agr. Nitrogen News 18(2):42,44. Mar./Apr.1968. 381 Ag82
- 74295 BACHTHALER, G. Liquid fertilizing. (Ge) DLZ-Landtech. Z. 19(3):126-128. Mar.1968. 58.8 T677  
Mechanical.
- 74296 BALSER, R. L. Ammonia equipment design. Agr. Nitrogen News 18(2):28,30. Mar./Apr. 1968. 381 Ag82  
Anhydrous ammonia.
- 74297 BALSER, R. L. Sprinkler irrigation systems. Agr. Nitrogen News 18(3):23,25. May/June 1968. 381 Ag82  
Use for nitrogen fertilizer application.
- 74298 BANYAI, ZS., and GOCKLER, L. Modern mechanization of mineral fertilizing. (Hu) Magyar Mezogazdasag 23(5):10-11. Jan.31, 1968. 19 M27
- 74299 BOWERS, W. Calibrate your corn planter. Hoard's Dairyman 113(8):522,549. Apr.25, 1968. 44.8 H65
- 74300 BUKATOV, V. Mechanized loading of potato planting equipment. (Rus) Kartoffel' Ovoshchi 1:9. Jan.1968. 75.8 K147
- 74301 CHAPLIEV, V., and CHAPLIEVA, T. New equipment for planting and harvesting potatoes. (Rus) Tekh. Sel'skom Khoz. 4:12-15. 1968. 58.8 M11
- 74302 CUCCHIA, F. Technical aspects and economy of mechanical sowing. (It) Macch. Motori Agr. 26(4):75-82. Ref. Apr.1968. 58.8 M13
- 74303 DIEMEL, H. Spring cultivation with DLG [Deutsche-Landwirtschafts-Gesellschaft] approved machines. (Ge) Landmasch.-Markt 47(4):20,22. Feb.21,1968. 58.8 L239  
Sowing machines.
- 74304 FILA, L., and SZASZ, A. Grain weed control with aircraft. (Hu) Magyar Mezogazdasag 23(17):12-13. Apr.24,1968. 19 M27
- 74305 GIBBS, D. Fertigation lets you spoon feed crops. Doane's Agr. Rep. 31(14):30-32. May 8, 1968. 281.8 D652
- 74306 GUARELLA, P. Machines and equipment for new technique in fertilizing. (It) Macch. Motori Agr. 26(4):49-73. Ref. Apr.1968. 58.8 M13  
Includes liquid fertilizers.
- 74307 HANNUSCH, L. New methods of application of nitrogen in spring. (Ge) Deut. Agrartech. 18(2):83-85. Feb.1968. 58.8 D482
- 74308 HOHNE, H. Machinery and equipment for industrial application of lime. (Ge) Deut. Agrartech. 18(2):80-82. Feb.1968. 58.8 D482
- 74309 KARMANOV, S., and KUZ'MIN, B. Experience with mechanized potato planting. (Rus) Tekh. Sel'skom Khoz. 4:51-53. 1968. 58.8 M11
- 74310 KNOLLE, W. Method for increasing labor productivity. (Ge) Lohnunternehmen Land-Forstwirtschaft. 23(2):45-46. Feb.15,1968. 58.8 D81  
Sowing equipment.



- 74311 KVACH, V., and ZAMCHEVSKAYA, A. Improving sowing apparatus for castorbeans. (Rus) Tekh. Sel'skom Khoz. 4:60-61. 1968. 58.8 M11
- 74312 LEVI, S. A. Peculiarities of disk type planting apparatus. (Rus) Trakt. Sel'khoz mash. 4:31-33. Apr.1968. 58.8 T68 Vegetables.
- 74313 LIPKAN, V. D., SOKUL'SKII, O. V., and TITARENKO, P. V. Universal stand for checking seed planters. (Rus) Trakt. Sel'khoz mash. 4:39-40. Apr.1968. 58.8 T68
- 74314 MEINES, M. K. Mechanical seedbed mulch pickup works well with Juniper. Tree Planters' Notes 19(1):18-19. Mar.1968. 1.962 C5T71 Nebraska.
- 74315 NOHE, E. Plant cultivation problems in the sowing technique. (Ge) Landmasch.-Markt 47 (4):11-13. Feb.21,1968 58.8 L239 Equipment.
- 74316 PRAPUOLENIS, A. Isotopes are determining the uniformity of potato planting. (Rus) Kartoffel' Ovoshchi 1:11-12. Jan.1968. 75.8 K147
- 74317 PRIBORKIN, YA. A furrow slice shredder—fertilizers distributor. (Rus) Tekh. Sel'skom Khoz. 4:80-81. 1968. 58.8 M11
- 74318 RAZUNOV, G. V., VARLAMOV, G. P., and KHRISTIN, I. A. Operation of fertilizer transporting and disseminating equipment. (Rus) Trakt. Sel'khoz mash. 3:28-30. Mar.1968. 58.8 T68
- 74319 SEMENOV, S. Filling potato planters with fertilizers. (Rus) Kartoffel' Ovoshchi 1:10-11. Jan.1968. 75.8 K147
- 74320 SOKIRKO, V. P. Apparatus for planting corn seeds in the small rates. (Rus) Selekt. Semenovodstvo 1:72. Jan./Feb.1968. 61.9 Se5
- 74321 VARLAMOV, G. P. New equipment for application of organic fertilizers. (Rus) Trakt. Sel'khoz mash. 4:37-39. Apr.1968. 58.8 T68
- 74322 VERKHOVSKII, V., BEILIS, V., and NECHITAILO, I. The technique of fertilizer application. (Rus) Kartoffel' Ovoshchi 1:2-4. Jan.1968. 75.8 K147 Potatoes.
- 74323 VINOKUROV, V. Markers with the track pointers should be installed on each planting equipment. (Rus) Tekh. Sel'skom Khoz. 4:57-58. 1968. 58.8 M11 Grain planters.
- Harvesting Equipment**
- 74324 ARNOLD, R. E. Combine convenience and comfort. Power Farming 40(1):6-7. Jan.1968. 58.8 P872 Design features.
- 74325 BABITSKII, V., and GALUTKIN, G. Experience with repairing potato harvesters. (Rus) Tekh. Sel'skom Khoz. 4:68-71. 1968. 58.8 M11
- 74326 DREW, L. O., and others. Mechanical harvesting of snap beans for fresh market. S. C. Agr. Exp. Sta. Bull. 538,28 p. Dec.1967. 100 So8 C. E. Hood, W. L. Ogle, and G. R. Von Tungetn, joint authors.
- 74327 ELIA, P., and LISA, L. First results of mechanical harvesting of grape with an experimental grape gatherer in steep vineyards. (It) Macch. Motori Agr. 26(4):85-89. Apr.1968. 58.8 M13
- 74328 GORDKIPANIDZE, T. G. Determination of the most suitable parameters of tea harvesting equipment. (Rus) Trakt. Sel'khoz mash. 3:35-38. Mar.1968. 58.8 T68
- 74329 GUTKOV, A., and EGOROV, I. Picking up installations on the melon harvesting equipment. (Rus) Kartoffel' Ovoshchi 1:33-35. Jan.1968. 75.8 K147
- 74330 KEMP, J. G., and HERGERT, G. B. The Ottawa single-row harvester for experimental plots. Can. J. Plant Sci. 48(3):345-348. May 1968. 450 C16
- 74331 MECHANICAL grape harvesting come of age. Wines Vines 49(2):24-25. Feb.1968. 05.8 C122
- 74332 MEHWALD, J. The problem of mechanizing the harvest in industrial vegetable culture. (Ge) Indus. Obst- Gemuseverwertung 53(5):147-150. Mar.7,1968. 389.8 K832
- 74333 SEMENOV, I. Harvesting and sorting onions in Hungary. (Rus) Tekh. Sel'skom Khoz. 4:90-91. 1968. 58.8 M11 Equipment chiefly.
- 74334 TSYTSIV, M. V., and others. To the problem of applying vibration method by harvesting grapes for industrial purposes. (Rus) Trakt. Sel'khoz mash. 4:29-31. Apr.1968. 58.8 T68 A. I. Dushkin, M. M. Gervol'skii, and V. I. Popov, joint authors.
- 74335 VALLANCE, L. G. Developments in mechanical harvesting on Queensland cane fields. Austral. Sugar J. 59(12):719,721. Mar.1968. 65.8 Au7
- 74336 VORONOV, YU. I. Investigating pulling apparatus for stacking up of flax stems. (Rus) Trakt. Sel'khoz mash. 4:24-26. Apr.1968. 58.8 T68
- 74337 WAGENINGEN, INSTITUUT VOOR LANDBOW-TECHNIEK EN RATIONALISATIE. Beproeving trommelschudders (in groepsverband). Series test of overtop tedders. Wageningen. Inst. Landbouwtch. Ration. Publ. 116,98 p. Jan. 1968. 58.9 W12 English summary.
- 74338 WIDMER, R. Baler twine, a valuable aid in hay and grain harvesting. (Ge) Traktor Landmasch. 30(6):343-347. Apr.1968. 58.8 T678Ag Made of sisal.
- Processing Equipment Used on the Farm**
- 74339 BORDACS, I. New trends in the production of Hevesi tobacco. (Hu) Magyar Mezogazdasag 23(14):10-11. Apr.3,1968. 19 M27 Drying, chiefly.
- 74340 BUCHMILLER, M. K. Hay cubers—off go the wheels. Doane's Agr. Rep. 31(14):34-35. May 8,1968. 281.8 D652
- 74341 GEOFFREY, J. Equipment carriers for farmers on the go. Farm Quart. 23(3):58-61. Summer 1968. 6 F22995
- 74342 MAMIN, V., and DOROKHOV, A. Effectiveness of soil separation. (Rus) Kartoffel' Ovoshchi 1:12-13. Jan.1968. 75.8 K147 Potato cleaning equipment.
- 74343 MCDOW, J. J. Modern ways to handle your forages. Hoard's Dairyman 113(9):580,603. May 10,1968. 44.8 H65 Silage mechanical handling on the farm.
- 74344 PETROV, G. D., and BATYAEV, F. I. Automatic separation of foreign matter from root crop tubers. (Rus) Trakt. Sel'khoz mash. 4:22-24. Apr.1968. 58.8 T68
- 74345 RAYMOND, W. F. Grass drying. Great Brit. Min. Agr. Fish. Food. Agr. 75(4):156-160. Apr.1968. 10 G79J
- 74346 STUCKEY, N. Haymaking—"dramatic revolution." Beef Sheep Farming (sup.)5(4):xiv-xv, xvii. Apr.1968. 43.8 B392 In Great Britain.
- 74347 ZIMMERMAN, M. Which machine is best for field shelling? Impl. Tractor 83(11):24-27. May 7,1968. 58.8 W1 Corn.
- Repair, Maintenance, and Construction Equipment**
- 74348 MARKARYAN, S., MRKTCHYAN, L., and OGANESYAN, S. A reciprocating scraper for removal of muck. (Rus) Sel'skom Khoz. 4:24-25. 1968. 58.8 M11
- 74349 MUEHLING, A. J. Waste management. Hog Farm Manage. 5(5):24-25. May 1968. SF391.H6 Swine manures disposal.
- 74350 OSTRANDER, C. E. What eggmen are doing about manure disposal. Poultry Trib. 74(4):28-29,54-56. Apr.1968. 47.8 P8642

- 74351 REITMEIER, W. How do we equip a repair shop. (Ge) Lohnunternehmen 23(4):112-114. (Cont.) Apr.15,1968. 58.8 D81
- 74352 ZERMATTI, M. Cooperative workshops for farm machinery repair. (It) Macch. Motori Agr. 26(4):97-99. Apr.1968. 58.8 M13

### Spraying and Dusting Equipment

- 74353 BERGE, O. I. Apply a uniform amount of spray. Hoard's Dairyman 113(9):610-611. May 10,1968. 44.8 H65
- 74354 BREHM, W. L. Care and maintenance of the one-gallon stainless steel sprayer. Pest Contr. 36(5):16,18,20. May 1968. 44.8 Ex8
- 74355 DELFINO, E. P. Equipment to fit the need. Calif. Weed Conf. Proc., 20th Annu. Conf. Proc.:24-26. 1968. 79.9 C122
- 74356 DOWLER, L. A. Where do we stand now? Aerial Appl. 6(4):6-7. Apr.1968. 333.8 Ae8  
Costs of aircraft spraying and prices.
- 74357 FILITSIN, V. V. Spraying equipment of 1968. (Rus) Zashch. Rast. 3:26-28. 1968. 421 Z1
- 74358 GOHLICH, H., and ZASKE, J. Influencing spray distribution by nozzle species and arrangements in field sprayers. (Ge) Landtechnik 23 (6):162-166,170. Mar.1968. 58.8 L235
- 74359 HAASE, H. Plant protection techniques on the farm. (Ge) Landmasch.-Markt 47(5):27-28. Mar.1,1968. 58.8 L239  
English summary.
- 74360 HEINRICH. Modern plant protection equipment for field cultivation. (Ge) Landmasch.-Markt 47(5):14-17. Mar.1,1968. 58.8 L239  
English summary.
- 74361 HIMEL, C. M. New concept in aerial spraying for pest control. Forest. Res. Notes 22(7):34. Mar.1968. 99.8 F7692
- 74362 KEFFORD, R. O. The do's and don'ts of aerial spraying. J. Agr. [Melbourne] 66(2):50-52. Feb.1968. 23 V66J  
Legislation on chemical spraying in Australia.
- 74363 KOCH, H. Official testing of plant protection equipments. (Ge) Lohnunternehmen Land-Forstwirtschaft. 23(2):30,32,34. Feb.15,1968. 58.8 D81  
At the Biologische Bundesanstalt für Land- und Forstwirtschaft of Brunswick.
- 74364 MARTYNA, S. Effectiveness of spraying fruit trees as affected by level of mechanization. (Pol) Nowe Roln. 17(4):22-24. Feb.16/29,1968. 20.5 N86
- 74365 MOLODOZHENOV, A. G. Agricultural mechanized teams are helping. (Rus) Zashch. Rast. 3:8-9. 1968. 421 Z1  
In application of spraying equipment.
- 74366 OSTARHILD, H. Status of technique in plant protection machinery construction. (Ge) Landtechnik 23(6):155-158,160-161. Mar.1968. 58.8 L235
- 74367 RAAB, R. New and the well known in plant protection technique—what is the proper nozzle? (Ge) Lohnunternehmen 23(4):110-112. Apr.15, 1968. 58.8 D81  
On herbicide sprayers.
- 74368 SERGEENKO, V. G. A sprayer from vacuum cleaner. (Rus) Zashch. Rast. 4:45. 1968. 421 Z1
- 74369 SHTERENTAL', M. I. Effect of operation of aerosol generators on the quality of aerosols. (Rus) Trakt. Sel'khoz mash. 3:22-24. Mar.1968. 58.8 T68
- Used in control of plant pests and diseases.
- 74370 VELETSKII, I. N. Herbicide application equipment. (Rus) Zashch. Rast. 2:27-28. 1968. 421 Z1
- 74371 VOSS, C. M. A primer for dealers: The practical use of aerial application. Agr. Chem. 23 (3):25-28. Mar.1968. 381 Ag8  
Handling on agricultural chemicals application service.
- 74372 WASHBURN, B. Equipment for orchard and vineyard weed control. Calif. Weed Conf. Proc.:63-67. 1968. 79.9 C122

- 74373 ZAMOTAEV, A. I., MOSIN, M. A., and CHERNIKOV, V. I. Mechanized treatment of potato tubers with economic poisons. (Rus) Zashch. Rast. 4:30-31. 1968. 421 Z1  
A special type of planting equipment.
- 74374 ZAPEVALOV, P. P., MILASHCHENKO, N. Z., and MARINCHENKO, M. Z. Application of 2,4-D without emulsifier. (Rus) Zashch. Rast. 4: 32. 1968. 421 Z1

### Vehicles

- 74375 BAILLIE, W. F., and VASEY, G. H. Tractor tests; eight tractors in the 35-45 HP class. 2. West. Australia. Dep. Agr. J. (ser.4)8(12):511-512,515-518. Dec.1967. 23 W52J
- 74376 BORISOV, I. An installation for washing of tractors. (Rus) Tekh. Sel'skom Khoz. 4:82. 1968. 58.8 M11
- 74377 BUTORIN, I. Problems of statistical studies of using tractor fleet. (Rus) Vestnik Statist. 2:70-73. 1968. 267 V63  
On the collective and state farms.
- 74378 EVDOKIMENKO, I. Lifting and transporting vehicle for milk containers. (Rus) Tekh. Sel'skom Khoz. 4:26. 1968. 58.8 M11
- 74379 HEINRICH. Agricultural aviation in the Federal Republic of Germany. (Ge) Landmasch.-Markt 47(5):24-26. Mar.1,1968. 58.8 L239  
English summary.
- 74380 HEUER, G. Air brakes. (Ge) Landmasch.-Markt 47(4):29-30. Feb.21,1968. 58.8 L239  
For tractors and trailers.
- 74381 HOFFMEISTER, C., and LOESCH, G. Reverse running of tractors with trailers particularly in stables. (Ge) Deut. Agrartech. 18(2):95. Feb. 1968. 58.8 D482
- 74382 LONG, M. E. Check fluid in hydraulic system. Hoard's Dairyman 113(8):526,540. Apr.25,1968. 44.8 H65  
Tractor maintenance.
- 74383 LONG, M. E. Turning horsepower into traction. Impl. Tractor 83(7):24-27. Mar.21,1968. 58.8 W41  
On tractors.
- 74384 MCLAUCHLAN, G. Tractor safety frames, will have to pass tests. New Zeal. J. Agr. 114 (6):15-16. June 1967. 23 N48J  
Includes cabs.
- 74385 NEGRO, F. Use of metallurgical materials in farm tractors and in earth-moving machinery. (It) Macch. Motori Agr. 26(4):109-110. Apr. 1968. 58.8 M13
- 74386 ONALA, N. New regulations for OECD [Organisation for Economic Cooperation and Development] tractor tests. (Ge) Traktor Landmasch. 30(6):348-349. Apr.1968. 56.8 T678Ag
- 74387 PECHONYI, KH. Calculation of the tractor aggregate performances in transportation. (Rus) Ekon. Sel'skogo Khoz. 1:102-109. 1968. 281.8 So73
- SCHWEIZERISCHER TRAKTORVERBAND.  
74388 Forty-first activity report [of the Swiss Tractor Association] for the period July 1, 1966 to June 30, 1967. (Ge) Traktor Landmasch. 30 (4):215-221. (Cont.) Mar.1,1968. 58.8 T678Ag
- 74389 ZAUNMULLER, G. T. Suitable tires for trucks in agriculture. (Ge) Deut. Agrartech. 18(2):86-89. Feb.1968. 58.8 D482

### FARM STRUCTURES AND RURAL HOUSING

- 74390 BINZ, R. Cooperation of the land consolidation authorities in the decision of the building license authorities. (Ge) Recht Landwirt. 20(1): 9-11. Ref. Jan.1968. 30.58 R24
- 74391 BOYD, J. S. Pole building buying guide and specification sheet. Mich. State Univ. Ext. Ext. Bull. E-617,4 p. Mar.1968. 275.29 M58B



Animal Shelters and Animal Service Buildings

- 74392 DOROSHENKO, N. YA., and KHRAPACH, E. I. Housing and feeding practices on the mechanized sheep farms in Ukraine. (Rus) Zhivotnovodstvo 2:11-14. Feb.1968. 49 Z6
- 74393 GLASSEY, L. H. Layout & siting of small farm dairies. New Zealand J. Agr. 116(4):76-77. Apr.1968. 23 N48J
- 74394 HALASZ, F. P. Modernization of swine housing. (Hu) Magyar Mezogazdasag 23(15):18-19. Apr.10,1968. 19 M27
- 74395 LANGER, K. Stallklimatische Untersuchungen in Rinderställen des Landkreises Freising [Stall climate studies in cattle stalls in the Freising district]. Munich. Univ. Tierarztl. Fak. [Inaug.-Diss.] 41,90 p. 1967. 41.2 M9222 English summary Bibliography, p.85-89. Includes sanitation aspects.
- 74396 LEHMANN, S. Device for determining heat absorption by ambient air and stall floor slabs. (Ge) Deut. Agrartech. 18(2):90-91. Feb.1968. 58.8 D482
- 74397 LOOKER, M. Budget for underfloor heating. Pig Farming 16(5):42-43. May 1968. 46.8 P623 Research in Great Britain.
- 74398 MESSINGER, MRS. G. Four-lane cattle stall accomodating 208. (Hu) Magyar Mezogazdasag 23(5):14-15. Jan.31,1968. 19 M27
- 74399 MUNKACSI, L. Some experiences in the loose housing of cattle. (Hu) Magyar Mezogazdasag 23(5):18-19. Jan.31,1968. 19 M27
- 74400 PHELPS, A. Fresh thinking on ventilation. Poultry Internat. 7(4):44-47. Apr.1968. 47.8 P8698
- 74401 ROMER, H. Stallklimatische Untersuchungen in Schweineställen des Kreises Ehingen unter besonderer Berücksichtigung der Ferkelverluste [Stall climate studies in swine stalls of Ehingen district with special emphasis on piglet losses]. Munich. Univ. Tierarztl. Fak. [Inaug.-Diss.] 43,97 p. 1967. 41.2 M9222 Bibliography, p.82-91.
- 74402 RYAN, D. M. Cold hog finishing houses with either slats or bedding. Minn. Univ. Ext. M-133,rev.,9 p. Mar.1968. 275.29 M66Ps Designs.
- 74403 SCOTT, D. Sophisticated A-frame. Farm Quart. 23(3):52-55,119. Summer 1968. 6 F22995 Swine housing.
- 74404 SEXTON, H. G. C. Full circle in cow housing. Country Life [London] 143(3711):1001-1002. Apr.18,1968. 80 C83
- 74405 SMYTHE, E. B. Circular cattle yards have many advantages. New Zeal. J. Agr. 116(3):15-17. Mar.1968. 23 N48J
- 74406 TARDIF, H. Ventilation and feeding in pigsty. (Fr) Rev. Elevage 23(4):115-116,119,121-122,125. Apr.1968. 49 B462
- 74407 TUCHSEN, R. V. Needed: Thoroughbred stall space. West. Horseman 33(4):86. Apr.1968. 42.8 W522
- 74408 WAGENBACH, H. The breeding stall. (Ge) Chem. Tech. Landwirt. 19(3):82,84. 1968. 384 C4292 For swine.
- 74409 WILLIAMS, L. J. Lamb wintering sheds. Great Brit. Min. Agr. Fish. Food. Agr. 75(4):191-192. Apr.1968. 10 G79J

Farmhouses and Farmsteads

- 74410 FRYER, N. T. Welsh versatility in stone: vernacular houses of Merioneth. Country Life [London] 143(3712):1066-1068. Apr.25,1968. 80 C83
- 74411 U. S. AGRICULTURAL RESEARCH SERV. Cabin with dormitory loft; cooperative farm building plan No. 6013. U. S. D. A. Misc. Publ. 1074,2 p. Mar.1968. 1 Ag84M

- 74412 U. S. AGRICULTURAL RESEARCH SERV. Pole-farm cabin; cooperative farm building plan No. 6004. U. S. D. A. Misc. Publ. 1076, 2 p. Apr.1968. 1 Ag84M
- 74413 U. S. AGRICULTURAL RESEARCH SERV. 3-bedroom tenant house; cooperative farm building plan No. 7182. U. S. D. A. Misc. Publ. 1072,2 p. Mar.1968. 1 Ag84M
- 74414 WELLER, J. B. Rural housing—the special design considerations. Farm Bldg. Dig. 3(14):27-31. Spring 1968. 241.4 F22

Greenhouses and Plant Service Buildings

- 74415 PATTERSON, J. M. Container growing. 6. Nursery work buildings. Amer. Nurseryman 77(6):15-16,34,36. Mar.15,1968. 80 Am371
- 74416 POPANDOPULO, KH. F., and VOLOBOEV, V. G. Mechanized lifting of the hotbed frames. (Rus) Tabak 1:58-59. 1968. 69.8 T112 Tobacco.
- 74417 TSEKLEEV, G. Study on the air humidity in polythene greenhouses. (Bu) Gradinar. Lozar. Nauk. 5(1):27-35. 1968. 87 G75 English summary.
- 74418 TUNNICLIFFE, C. G. Comparison of light and heat transmission of horticultural glass and translucent rigid PVC [poly vinyl chloride]. New Zeal. J. Agr. Res. 11(1):219-222. Feb. 1968. 23 N4892 For greenhouses.

Storage Structures

- 74419 PODKOWKA, W. Covering silage with plastic sheets. (Pol) Nowe Roln. 17(4):34. Feb.16/29, 1968. 20.5 N86
- 74420 U. S. AGRICULTURAL RESEARCH SERV. Potato storage, 60,000 cwt., cross alley; cooperative farm building plan No. 6018. U. S. D. A. Misc. Publ. 1069,2 p. Mar.1968. 1 Ag84M

Walls and Fences

- 74421 BLATTMANN, W. New and old ideas on the electric fence. (Ge) Chem. Tech. Landwirt. 19(4):124,126. 1968. 384 C4292

FARM UTILITIESElectricity and Electrification

- 74422 BISHOP, W. M. Economies in the rural distribution of electricity. Inst. Elec. Eng. J. 14:154-156. Apr.1968. 335.9 TN72 Great Britain.
- 74423 CLAYDON, E. Electrical installations for farm buildings. Farm Bldg. Dig. 3(14):21-22. Spring 1968. 241.4 F22
- 74424 KOSTRUBA, S., MISHKIN, V., and NIKOL'SKII, O. Contact and lightning protection of animals. (Rus) Tekh. Sel'skom Khoz. 2:39-41. 1968. 58.8 M11
- 74425 LAVERTON, S. Electrifying agriculture and horticulture. New Sci. 38(594):182-183. Apr. 25,1968. 472 N42
- 74426 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. REA legislation. Hearings Eighty-ninth Congress, second session on H.R. 14000, H. R. 14048, H.R. 14837, and H.R. 15162, May 31, June 1, 2, 3, 7, 8, 14, 22, and July 13, 1966. Washington, 1966. 808 p. PREP 1117
- 74427 U. S. CONGRESS. SENATE. COMMITTEE ON COMMERCE. Electric power reliability. Hearings—Ninetieth Congress, first session on S. 1934 amending the Federal Power Act and related bills, S. 683, S. 1834, and S. 2227. Washington, 1967. 189 p. PREP 1982

Heating, Lighting, and Radiation

- 74428 ORLINSKI, J. Possibilities of lowering fuel outgo on large-scale farms. (Pol) Nowe Roln. 17(3):33-36. Feb.1/15,1968. 20.5 N86

Power Plants, Motors and Engines on the Farm

- 74429 SHEFTER, YA. New windmills. (Rus) Tekh. Sel'skom Khoz. 4:17-20. 1968. 58.8 M11

Sewage and Waste Disposal

- 74430 GNADINGER, F. A contribution to hygiene in the harmless removal of animal material in carcass disposal establishments. (Ge) Tierarztl. Umsch. 23(4):159-160,163. Apr.1,1968. 41.8 T445
- 74431 KOVAC, M. Harmless removal of animals perished in natural disaster. (Cz) Veterinarstvi 17(4):183-184. 1967. 41.8 V6439
- 74432 KUCEL, J. On harmless removal of animal carcasses and rejected animal products. (Se) Vet. Glas. 21(6):499-504. 1967. 41.8 J93
- 74433 SOUTAR, D. S., and BAXTER, S. H. Disposal of effluent from the piggery. Great Brit. Min. Agr. Fish. Food. Agr. 75(4):165-170. Apr.1968. 10 G79J

Water Supply

- 74434 FELSZEGHY, B. Water system within the farm. (Hu) Magyar Mezogazdasag 23(13):11-12. Mar.1968. 19 M27  
In reference to article by G. Sziky.
- 74435 GELA, G. Economical water supplying installations of farms. (Hu) Magyar Mezogazdasag 23(15):12-13. Apr.10,1968. 19 M27
- 74436 LEE, J. Village water problems in Papua and New Guinea. S. Pac. Bull. 18(1):44-45. First Q.1968. 280.8 So89
- 74437 MACKAY, A. Pure domestic water supply for the farm. New Zealand J. Agr. 116(4):65,67. Apr.1968. 23 N48J
- 74438 NELSON, K. D. Let's look at those dams. J. Agr. [Melbourne] 66(2):53-59. Feb.1968. 23 V66J  
Construction of farm dams and water supply in Australia.



## ENTOMOLOGY

Contains references chiefly on general entomology, and taxonomic and geographic entomology. Some references on pests of crops and products are included in the Bibliography, but for more detailed coverage of the literature on pests and their control, consult the Pesticides Documentation Bulletin, a biweekly publication of the National Agricultural Library.

GENERAL ENTOMOLOGY  
(EXCEPT TAXONOMIC AND GEOGRAPHIC)

- 74439 BARTNETT, R. E., and STEPHENSON, R. G. Effect of mechanical barrier mesh size on light trap collections in Harris County, Texas. *Mosquito News* 28(1):108-109. Mar.1968. 421 M85
- 74440 BESSE, N. De, and CAZAL, M. Effect of extracts of perisymphatic organs and of corpora cardiaca on diuresis of some insects. (Fr) *Acad. Sci. C. R., Ser. D*, 266(6):615-618. Ref. Feb.5,1968. 505 P21
- 74441 CACCIA, D. A. Yes, we love our predators! *Org. Gard. Farming* 15(2):62-64. Feb.1968. 57.8 Or32  
Control of insect pest in the garden by birds and beneficial insects.
- 74442 CHERKOVA, O. A. Rules for collecting of insects. (Rus) *Zashch. Rast.* 4:39. 1968. 421 Z1
- 74443 DOANE, J. F., and ALLAN, R. K. A chamber for studying the effect of relative humidity and soil moisture on insect eggs. *Can. Entomol.* 100(4):358-362. Apr.1968. 421 C16
- 74444 FLITTERS, N. E. Insect body temperatures determined with microthermoelectric thermometry. *Entomol. Soc. Amer. Ann.* 61(1):36-38. Jan.1968. 420 En82
- 74445 GOEDEN, R. D., and RICKER, D. W. The phytophagous insect fauna of Russian thistle (*Salsola kali* var. *tenuifolia*) in Southern California. *Entomol. Soc. Amer. Ann.* 61(1):67-72., map. Ref. Jan.1968. 420 En82
- 74446 HARRIS, P., and ZWOLFER, H. Screening of phytophagous insects for biological control of weeds. *Can. Entomol.* 100(3):295-303. Ref. Mar.1968. 421 C16  
Study of insects' biology.
- 74447 HORSBURGH, R. L., and ASQUITH, D. A lightweight cage to confine small insect predators with their prey on the host plant. *J. Econ. Entomol.* 61(2):572-573. Apr.15,1968. 421 J822
- 74448 JANZEN, D. H., and SCHOENER, T. W. Differences in insect abundance and diversity between wetter and drier sites during a tropical dry season. *Ecology* 49(1):96-110. Ref. Winter 1968. 410 Ec7
- 74449 KINGSOLVER, J. M., and SANDERSON, M. W. A selected bibliography of insect-vascular plant associational studies. *U. S. Agr. Res. Serv. ARS-33-115*, 33 p. Apr.1967. A420 R31
- 74450 LEUCK, D. B., and others. Insect visitors to flowers of blue lupine, *Lupinus angustifolius*. *J. Econ. Entomol.* 61(2):573. Apr.15,1968. 421 J822  
I. Forbes, R. E. Burns, and J. R. Edwardson, joint authors.
- 74451 LOY, V. A., BARNHART, C. S., and THERRIEN, A. A. A collapsible, portable vehicle-mounted insect trap. *Mosquito News* 28(1):84-87. Mar.1968. 421 M85
- 74452 MACNEILL, N. On the possible function of the pterostigmata. *Entomologist [London]* 101 (1258):60-63. Ref. Mar.1968. 421 En8  
A structure of insect wings.
- 74453 MALEJ, J. Abnormal variations of water level in the Slupia River and their influence on the biocenosis of that river. *Water Econ. [Select. Articles]* 20(12):645-654. 1966. (TT 63-11363) HD1697.P7S4  
Includes aquatic insects.  
Translation from *Gospodarka Wodna* 20(12): 531-534. 1960.  
Issued by CFSTI.
- 74454 MCFARLANE, J. E. Fatty acids, methyl esters, and insect growth. *Compar. Biochem. Physiol.* 24(2):377-384. Ref. Feb.1968. 444.8 C73
- 74455 MILNE, L., and MILNE, M. Eggs any style. *Frontiers* 32(4):4-7. Apr.1968. 410 F92  
Includes insect eggs.
- 74456 MOSS, W. W. Experiments with various techniques of numerical taxonomy. *Syst. Zool.* 17 (1):31-47. Ref. Mar.1968. 410 Sy8  
Applicable to classification in entomology.
- 74457 O'DONALD, P. The evolution of dominance by selection for an optimum. *Genetics* 58(3):451-460. Mar.1968. 442.8 G28  
With reference to Batesian mimicry in insects.
- 74458 PICKENS, E. G., GERLOFF, K., and BURG-DORFER, W. Spirochete from the rabbit tick, *Haemaphysalis leporispalustris* (Packard). I. Isolation and preliminary characterization. *J. Bacteriol.* 95(2):291-299. Ref. Feb.1968. 448.3 J82
- 74459 PLESS, C. D. A lightweight, weather-resistant field insect cage. *J. Econ. Entomol.* 61(2):501-503. Apr.15,1968. 421 J822
- 74460 POINAR, G. O., and LEUTENEGGER, R. Anatomy of the infective and normal third stage juveniles of *Neoplectana carpocapsae* Weiser (Steinernmatidae, Nematoda). *J. Parasitol.* 54 (2):340-350. Apr.1968. 448.8 J824  
Parasites of insects.
- 74461 PROKOP'EVA, M. G. Consumption of oxygen by larvae of the soil insects, dependent upon its intensity. (Rus) *Zool. Zh.* 47(2):301-303. Feb.1968. 410 R92
- 74462 SHAPIRO, I. D., and VILKOVA, N. A Problems of plant immunity to pests. *Zashch. Rast.* 2: 18-20. 1968. 421 Z1  
Insects.
- 74463 STEFAN, A. W. Elektraphididae, Aphidonorum nova familia e sucino baltico (Insects, Homoptera, Phylloxeroidea). *Zool. Jahrbucher Abt. Syst. Okol. Geogr. Tiere* 95(1/2):1-15. Ref. 1968. 410 Z751S  
Text in German.
- 74464 TOBIAS, V. I. A tropic relict in the desert fauna of braconids (Hymenoptera, Braconidae) of Central Asia. (Rus) *Zool. Zh.* 47(2):304-305. Feb.1968. 410 R92  
English summary.  
Paleoentomology.
- 74465 TURNER, E. C., and EARP, U. F. A timing device for direct current New Jersey light traps. *Mosquito News* 28(1):75-76. Mar.1968. 421 M85
- 74466 TUXEN, S. L. Entomologisk Forenings historie [History of the Danish Entomological Society], 1868-1968. *Entomol. Medd.* 36(1), 125 p. Jan.30,1968. 421 En82  
English summary.
- 74468 U. S. AGRICULTURAL RESEARCH SERV. PLANT PEST CONTROL DIV. METHODS IMPROVEMENT OPERATIONS. Traps attached to aircraft for sampling of insect populations. *U. S. Agr. Res. Serv. ARS-81-22*, 6 p. Ref. Sept.1967. A423.9 R31
- 74467 U. S. AGRICULTURAL RESEARCH SERV. PLANT PEST CONTROL DIV. METHODS IMPROVEMENT OPERATIONS. An aircraft insect-trap dispenser. *U. S. Agr. Res. Serv. ARS-81-27*, 7 p. Oct.1967. A423.9 R31
- 74469 VALENTINE, E. W. A list of the hosts of entomophagous insects of New Zealand. *New Zeal. J. Sci.* 10(4):1100-1210. Dec.1967. 514 N482  
Bibliography, p.1189-1201.
- 74470 VAN HANDEL, E. Utilization of injected maltose and sucrose by insects: evidence for non-intestinal oligosaccharidases. *Compar. Biochem. Physiol.* 24(2):537-541. Feb.1968. 444.8 C73

General Entomology  
Arachnida, Myriapoda, etc.

- 74471 BESSE, G. Study of the neurohumoral control of ovary maturation and parturition molting at *Porcellio dilatatus* Brandt. Acad. Sci. C.R., Ser. D, 266(9):917-919. Feb.26,1968. 505 P21
- 74472 BONESS, M. Outbreaks of mites in fungi cultures. (Ge) Anz. Schadlingskunde 41(3):41-42. Mar.1968. 421 An9
- 74473 CARRICABURU, P., and CHERRAK, M. Electoretinogram of the scorpion *Androctonus australis* responding to periodic lights. (Fr) Acad. Sci. C. R., Ser. D 266(12):1299-1301. Mar.18,1968. 505 P21
- 74474 CEUCA, T. Diplopoda of Tunisia, with the description of a new species [*Heterocookia tunisiaca*]. (Fr) Acad. Polon. Sci. Bull. Ser. Sci. Biol. 15(9):551-554. 1967. 512 W262
- 74475 CUNNINGTON, A. M., and GREGORY, P. H. Mites in bedroom air. Nature 217(5135):1271-1272. Mar.30,1968. 472 N21
- Pyroglyphid *Dermatophagoides pteronyssinus* abundant in mattress dust in Great Britain.
- 74476 CZECHUGA, B., and CZERPAK, R. Pigments occurring in *Hydrachna geografica* and *Piona nodata* (Hydracarina, Arachnoidea). Experientia 24(3):218-219. Ref. Mar.15,1968. 475 Ex7
- 74477 CZECHUGA, B., and CZERPAK, R. The presence of carotenoids in *Eylais hamata* (Koenike, 1897) (Hydracarina, Arachnoidea). Compar. Biochem. Physiol. 24(1):37-46. Ref. Jan. 1968. 444.8 C73
- 74478 DALENS, H. Physiology of intersexes in *Chaetophiloscia sicula* Verhoeff (Isopoda, Oniscoidae, Oniscidae). Acad. Sci. C. R., Ser. D, 266 (9):920-922. Feb.26,1968. 505 P21
- 74479 GABE, M. Cytological and histochemical characteristics of the coxal gland of spiders. (Fr) Acad. Sci. C. R., Ser. D. 266(11):1142-1144. Mar.11,1968. 505 P21
- 74480 HOLLEY, A. Cardiac inhibition in a crustacean isopod [*Porcellio dilatatus*]: electrophysiological study. (Fr) Paris. Soc. Biol. Compt. Rend. 161(8/9):1786-1792. Feb.26,1968. 442.9 P21
- 74481 JUBERTHIE-JUPEAU, L. Experimental production of double monsters in *Glomeris marginata* (Villiers), Myriapoda, Diplopoda. (Fr) Acad. Sci. C. R., Ser. D, 266(15):1610-1612. Apr.15,1968. 505 P21
- Induced by heat.
- 74482 KUZNETSOV, V. G. Methods of collection and storage of ixodic ticks. (Rus) Med. Parazit. Parazitarn. Bolezni 37(1):99-101. Jan./Feb. 1968. 448.8 M469
- English summary.
- 74483 MISHRA, N. K. A note on the contribution of hepatopancreas to the development of oocytes in the scorpion (*Palamnaeus bengalensis*). Experientia 24(3):260. Mar.15,1968. 475 Ex7
- 74484 MITCHELL, R. Site selection by larval water mites [*Arrenurus mitoensis*, and *A. agrionicolus*] parasitic on the damselfly *Cercion hieroglyphicum* Brauer. Ecology 49(1):40-47. Winter 1968. 410 Ec7
- 74485 NEEDHAM, A. E. Integumental pigments of the millipede *Polydesmus angustus* (Latzel). Nature 217(5132):975-977. Mar.9,1968. 472 N21
- 74486 NUTTING, W. B., TISDEL, M. O., and EMEJUIWE, S. O. Y-shaped ovum of a demodid from *Clethrionomys gapperi*. J. Parasitol. 54 (2):393-394. Apr.1968. 448.8 J824
- 74487 PEPONNET, F., and QUIOT, J. M. Culture of cells of the scorpion. (Fr) Acad. Sci. C. R., Ser. D, 266(15):1589-1592. Apr.15,1968. 505 P21
- Androctonus australis* and *Buthus occitanus*.
- 74488 PILLAI, P. R. P., and WINSTON, P. W. Culture and nutrition of *Caloglyphus anomalus* (Acarina: Acaridae). Entomol. Soc. Amer. Ann. 61(1):56-60. Ref. Jan.1968. 420 En82
- 74489 PRASAD, V. Three moth mites (Acarina: Mesostigmata) from Hawaii, with description of a new species. Entomol. Soc. Amer. Ann. 61(1):129-132. Jan.1968. 420 En82
- Neocypholaelaps lindquisti* n. sp., *Proctolaelaps lobatus*, and *Blattisocius keegani*.
- 74490 SHEVCHENKO, V. G., and DE MILLO, A. YA. The life cycle of *Trisetacus kirghizorum* V. Shev. (Acarina, Tetrápodili)—the pest of *Junipers semiglobosa* Rgl. (Rus) Leningrad. Univ. Vestnik. Ser. Biol. 1:60-67. 1968. 442.9 L542V
- English summary.
- 74491 ZWICKY, K. T. Innervation and pharmacology of the heart of *Urodacus [novaehollandiae]*, a scorpion. Compar. Biochem. Physiol. 24(3): 799-808. Ref. Mar.1968. 444.8 C73
- 74492 ZWICKY, K. T. A light response in the tail of *Urodacus*, a scorpion. Life Sci. 7(6,pt.2):257-262. Mar.15,1968. 442.8 L62

General Entomology  
Coleoptera

- 74493 AMOS, T. G. Some observations on *Oryzaephilus surinamensis* L. (Col., Silvanidae) in a temperature-moisture gradient. Entomologist [London] 101(1258):67-70. Mar.1968. 421 En8
- Behavior and biology.
- 74494 ANDERSON, D. M. Observations on the pupae of *Anthonomus grandis grandis* Boheman and *A. grandis thurberiae* Pierce (Coleoptera: Curculionidae). Entomol. Soc. Amer. Ann. 61(1): 125-129. Jan.1968. 420 En82
- 74495 AWILLING, R. Development of endopeptidases. IV.  $\alpha$  and  $\beta$  protease from *Tenebrio molitor*. (Ge) Hoppe-Seyler's Z. Physiol. Chem. 349 (3):326-332. 1968. 384 Z38
- English summary.
- 74496 BAKER, J. E., and others. Para-hydroxybenzaldehyde and other phenolics as feeding stimulants for the smaller European bark beetle [*Scolytus multistriatus*]. Forest Sci. 14(1):91-95. Mar.1968. 99.8 F7632
- D. P. Rainey, D. M. Norris, and F. M. Strong, joint authors.
- 74497 BERRYMAN, A. A. Estimation of oviposition by the fir engraver, *Scolytus ventralis* (Coleoptera: Scolytidae). Entomol. Soc. Amer. Ann. 61(1):227-228. Jan.1968. 420 En82
- 74498 BETZ, N. L., NETTLES, W. C., and NOVAK, A. F. Physiochemical characteristics of glycogen from *Anthonomus grandis* Boheman. Compar. Biochem. Physiol. 24(1):163-175. Jan.1968. 444.8 C73
- 74499 BORDEN, J. H. Antennal morphology of *Ips confusus* (Coleoptera: Scolytidae). Entomol. Soc. Amer. Ann. 61(1):10-13. Ref. Jan.1968. 420 En82
- 74500 BUCK, J., and BUCK, E. Mechanism of rhythmic synchronous flashing of fireflies [*Pterotyx malaccas*]. Science 159(3821):1319-1327. Ref. Mar.22,1968. 470 Sci2
- 74501 BULL, D. L., and LINDQUIST, D. A. Cholinesterase in boll weevils, *Anthonomus grandis* Boheman. I. Distribution and some properties of the crude enzyme. Compar. Biochem. Physiol. 25(2):639-649. Ref. May 1968. 444.8 C73
- 74502 CALDERON, M., and NAVARRO, S. Sensitivity of three stored product insect species exposed to different low pressures. Nature 218(5137): 190. Apr.13,1968. 472 N21
- Sitophilus oryzae*, *Callosobruchus maculatus*, and *Trogoderma granarium*.
- 74503 CALKINS, C. O., and MANGLITZ, G. R. Seasonal changes in daily activity periods of the sweetclover weevil [*Sitona cylindricollis*]. J. Econ. Entomol. 61(2):391-394. Apr.15,1968. 421 J822
- Nebraska.



- 74504 CHARAKAS, C. Adaptation power of *Ips* sex-dentatus Boerner against various conifers; study of the reaction of the insect in presence of the resinous secretion of the biotope. (Fr) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.5:668-680. 1967. 99.9 In82
- 74505 CONDRASHOFF, S. F. Biology of *Steremnius carinatus* (Coleoptera: Curculionidae), a re-forestation pest in coastal British Columbia. Can. Entomol. 100(4):386-394. Ref. Apr.1968. 421 C16  
Pest of Coniferae.
- 74506 CONNOLA, D. P. Three years of cage testing for resistance in eastern white pine (*Pinus strobus* L.) to the white pine weevil (*Pissodes strobi* (Pack)). Int. Union Forest. Res. Organ. Papers, 14th Congr., v.3:891-901. 1967. 99.9 In82
- 74507 CROW, W. R., PUTTLER, B., and DAUGHERTY, D. M. *Beauveria bassiana* infecting adult clover root curculios [*Sitona hispidula*]. J. Econ. Entomol. 61(2):576-577. Apr.15,1968. 421 J822
- 74508 DOANE, J. F. The influence of soil moisture on survival of eggs of the prairie grain wireworm, *Ctenicera destructor*. Can. Entomol. 100(4):362-373. Ref. Apr.1968. 421 C16
- 74509 FARRAR, R. J., and KERR, T. W. A preliminary study of the life history of the broad-necked root borer [*Prionus laticollis*] in Rhode Island. J. Econ. Entomol. 61(2):563-564. Apr.15,1968. 421 J822
- 74510 FAVIS, G. R. F. Glutamic acid requirements of the saw-toothed grain beetle, *Oryzaephilus surinamensis* (L.) (Coleoptera, Silvanidae). Compar. Biochem. Physiol. 24(2):395-401. Ref. Feb.1968. 444.8 C73
- 74511 GOUGER, R. J., and BRAY, D. F. Two semi-artificial oviposition media for the smaller European elm bark beetle [*Scolytus multistriatus*]. J. Econ. Entomol. 61(2):564-565. Apr.15,1968. 421 J822
- 74512 HEATWOLE, H., and HEATWOLE, A. Movements, host-fungus preferences, and longevity of *Bolitotherus cornutus* (Coleoptera: Tenebrionidae). Entomol. Soc. Amer. Ann. 61(1):18-23. Ref. Jan.1968. 420 En82  
*Fomes applanatus* and *Polyporus tsugae*.
- 74513 HUIGNARD, J. Effect of duration of copulation on the fecundity of female *Acanthoscelides obtectus* Say (Coleoptera). (Fr) Acad. Sci. C. R., Ser. D.266(12):1311-1313. Mar.18,1968. 505 P21
- 74514 KELSEY, J. M. Oviposition preference by *Coselytra zealandica* (White). II. New Zeal. J. Agr. Res. 11(1):206-210. Feb.1968. 23 N4892
- 74515 KISHI, Y., and others. Luciferin and luciferin isolated from the Japanese firefly, *Luciola cruciata*. Tetrahedron Lett. 24:2847-2850. Ref. Apr.1968. 385 T29  
S. Matsuura, S. Inoue, O. Shimomura, and T. Goto, joint authors.
- 74516 KLASSEN, W., NORLAND, J. F., and BORKOVEC, A. B. Potential chemosterilants for boll weevils [*Anthonomus grandis*]. J. Econ. Entomol. 61(2):401-407. Ref. Apr.15,1968. 421 J822
- 74517 KOBAKHIDZE, D. N., and others. Populations of *Dendroctonus micans* Kugel. in the areas of different vertical zones of *Picea orientalis* (L.) Link. in Georgia. (Rus) Akad. Nauk Gruz. SSR. Soobshch. 49(1):227-230. Jan.1968. 511 Ak146  
B. V. Murusidze, T. G. Nizharadze, T. Sh. Imnadze, and T. D. Kobakhidze, joint authors. Ecology chiefly.
- 74518 KOVAL', YU. V. Insects—predators of Colorado potato beetle. (Rus) Zashch. Rast. 4:52. 1968. 421 Z1  
*Leptinotarsa decemlineata*.
- 74519 LADD, T. L. Some effects of three triphenyltin compounds on the fertility and longevity of Japanese beetles [*Popillia japonica*]. J. Econ. Entomol. 61(2):577-578. Apr.15,1968. 421 J822
- 74520 LIGONDES, J. DE. Click-beetles at the wedding. (Fr) Entomologiste [Paris] 24(1):23-25. Feb.1968. 421 En814
- 74521 LIPPOLD, P. C., GAMBRELL, F. L., and MASSEY, L. M. Effects of ionizing radiation on the European chafer, the plum curculio, and the large milkweed bug. Entomol. Soc. Amer. Ann. 61(1):151-158. Ref. Jan.1968. 420 En82  
*Amphimallon majalis*, *Conotrachelus nenuphar*, and *Oncopeltus fasciatus*, respectively, treated with cobalt-60.
- 74522 MAKAROV, M. *Plagionotus floralis* Pall. (Bu) Rast. Zashch. 2:13-16. 1968. 423.92 So2  
Biology chiefly.
- 74523 MENDOZA, C. E., and PETERS, D. C. Histochemical effects of apholate on the reproductive organs of southern corn rootworm [*Diabrotica undecimpunctata howardi*]. J. Econ. Entomol. 61(2):416-420. Ref. Apr.15,1968. 421 J822
- 74524 MITLIN, N., WIYGUL, G., and MAULDIN, J. K. The free amino acids in the haemolymph of the maturing adult boll weevil, *Anthonomus grandis* Boheman. Compar. Biochem. Physiol. 25(1): Ref. Apr.1968. 444.8 C73
- 74525 MUSGRAVE, A. J., and GRINYER, I. Membranes associated with the disintegration of mycetomal micro-organisms in *Sitophilus zeamais* (Mots.) (Coleoptera). J. Cell Sci. 3(1): 65-70. Ref. Mar.1968. QH301.J6
- 74526 PITMAN, G. B., and others. Bark beetle attractants: trans-verbenol isolated from *Dendroctonus*. Nature 218(5137):168-169. Ref. Apr.13,1968. 475 N21  
J. P. Vite, G. W. Kinzer, and A. F. Fentiman, joint authors.  
Sex attractant pheromones in *Dendroctonus brevicornis*, *D. ponderosae*, and *D. frontalis*.
- 74527 REDDY, K. R., RAO, D. R., and EMADUDDIN, M. Biological control of fresh water snails by aquatic beetles—*Dytiscus marginalis* and *Hydrophilus triangularis*. Indian Vet. J. 44(9): 748-751. Sept.1967. 41.8 In2
- 74528 SCHWARTZ, P. H. Distribution of released Japanese beetles [*Popillia japonica*] in a grid of traps. J. Econ. Entomol. 61(2):423-426. Apr.15,1968. 421 J822
- 74529 TUMLINSON, J. H., and others. Boll weevil [*Anthonomus grandis*]. Sex attractant: isolation studies. J. Econ. Entomol. 61(2):470-473. Apr.15,1968. 421 J822  
D. D. Hardee, J. P. Minyard, A. C. Thompson, R. T. Gast, and P. A. Hedin, joint authors.
- 74530 VAGO, C., and others. A new spindle virus observed in *Lucanidae* [*Figulus*] (Coleoptera) from Madagascar. (Fr) Acad. Sci. C. R., Ser. D. 266(15):1621-1623. Apr.15,1968. 505 P21  
P. Monsarrat, J. L. Duthoit, A. Amargier, G. Meyandier, and D. Van Waerebeke, joint authors.
- 74531 VITE, J. P., and PITMAN, G. B. Bark beetle aggregation: effects of feeding on the release of pheromones in *Dendroctonus* and *Ips*. Nature 218(5137):169-170. Ref. Apr.13,1968. 472 N21
- 74532 VITE, J. P., and PITMAN, G. B. Concepts in research on bark beetle attraction and manipulation. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.5:683-701. Ref. 1967. 99.9 In82  
Olfactory responses governed by host odors and insect produced substances.
- 74533 WADA, S., and SCHNEIDER, G. Circadian rhythm of pupillary diameter in the ommatidium of *Tenebrio molitor*. (Ge) Z. Vergleichende Physiol. 58(4):395-397. 1968. 444.8 Z3  
English summary.
- 74534 WEBB, R. E., and SMITH, F. F. Fertility of eggs of Mexican bean beetles [*Epilachna varietis*] from females mated alternately with normal and apholate-treated males. J. Econ. Entomol. 61(2):521-523. Apr.15,1968. 421 J822
- 74535 WILLIAMS, J. H., and WILBUR, D. A. Respiratory environments of grain-infesting weevils. I. Comparison of culture-jar and laboratory rearing-room atmospheres. J. Econ. Entomol. 61(2):345-348. Apr.15,1968. 421 J822  
*Sitophilus zeamais*.

- 74536 WOOD, D. L., and others. Response of *Ips confusus* to synthetic sex pheromones in nature. *Science* 159(3821):1373-1374. Mar.22,1968. 470 Sci2
- L. E. Browne, W. D. Bedard, P. E. Tilden, R. M. Silverstein, and J. O. Rodin, joint authors.
- General Entomology  
Diptera
- 74537 ADAMS, T. S., and NELSON, D. R. Bioassay of crude extracts for the factor that prevents second matings in female *Musca domestica*. *Entomol. Soc. Amer. Ann.* 61(1):112-116. Jan. 1968. 420 En82
- 74538 ADAMS, T. S., and MULLA, M. S. Ovarian development, pheromone production, and mating in the eye gnat, *Hippelates collusor*. *J. Insect Physiol.* 14(5):627-635. Ref. May 1968. 421 J825
- 74539 ALLFREY, V. G., and others. Histone acetylation in insect chromosomes. *Science* 159 (3812):314-316. Ref. Jan.19,1968. 470 Sci2
- B. G. T. Pogo, V. C. Littau, E. L. Gershey, and A. E. Mirsky, joint authors.
- Chironomus thummi* and *Drosophila melanogaster*.
- 74540 ARMITAGE, P. D. Some notes on the food of the chironomid larvae of a shallow woodland lake in South Finland. *Ann. Zool. Fenn.* 5(1):6-13. 1968. 410 An712
- 74541 BANEGAS, A. D., and MOURIER, H. Effects of gamma radiation on the fertility of torsalo, *Dermatobia hominis* (Diptera: Cuterebridae). *Entomol. Soc. Amer. Ann.* 61(1):23-26. Jan. 1968. 420 En82
- 74542 BERCZIK, A. Chironomidae of a mossaufwuchs in northern Hungary. (Ge) *Ann. Zool. Fenn.* 5 (1):17-21, map. Ref. 1968. 410 An712
- 74543 BERCZIK, A. Chironomidae of Hungary, living in creeks. *Acta Zool. [Budapest]* 14(1/2):15-25. Ref. 1968. 410 Ac85
- 74544 BERRIDGE, M. J., and GUPTA, B. L. Fine-structural localization of adenosine triphosphatase in the rectum of *Calliphora* [erythrocephala]. *J. Cell Sci.* 3(1):17-32. Ref. Mar.1968. QH301.J6
- 74545 BODNARYK, R. P., and MORRISON, P. E. Asynchronous ovarian development in the house fly, *Musca domestica* L. (Diptera: Muscidae), caused by dietary gamma-aminobutyric acid (GABA). *Compar. Biochem. Physiol.* 24 (2):573-579. Ref. Feb.1968. 444.8 C73
- 74546 BODNARYK, R. P. Dietary amino acid and nucleic acid imbalance leading to altered tumour frequency in the adult housefly, *Musca domestica*. *J. Insect Physiol.* 14(2):223-242. Ref. Feb.1968. 421 J825
- 74547 BOTNARIUC, N., and ALBU, P. Some problems concerning population studies of the Chironomidae. (Fr) *Ann. Zool. Fenn.* 5(1):22-26. Ref. 1968. 410 An712
- 74548 BRAUN, V., CRICHTON, R. R., and BRAUNTZER, G. Hemoglobins. XV. Monomer and dimer insect hemoglobins (*Chironomus thummi*). (Ge) *Hoppe-Seyler's Z. Physiol. Chem.* 349 (2):197-210. 1968. 384 Z38
- English summary.
- 74550 BRIDGES, R. G., and RICKETTS, J. The effect of 2-aminobutan-1-ols on the growth of the house fly (*Musca domestica*). *Compar. Biochem. Physiol.* 25(2):383-400. Ref. May 1968. 444.8 C73
- 74551 BROERSMA, D. B., and LUCKMAN, W. H. Frequency of mating by the female onion maggot [*Hylemya antiqua*] adult. *J. Econ. Entomol.* 61(2):568-569. Apr.15,1968. 421 J822
- 74552 CHAPMAN, H. C., and others. New records of parasites of *Ceratopogonidae*. *Mosquito News* 28(1):122-123. Mar.1968. 421 M85
- J. J. Petersen, D. B. Woodard, and T. B. Clark, joint authors.
- 74553 CHUKANOVA, L. N. Parasite of frit fly. (Rus) *Zashch. Rast.* 4:55. 1968. 421 Z1
- Rhoptromeris eucera* as parasite of *Oscinella* frit.
- 74554 CRYSTAL, M. M. Sulfonic acid esters as chemosterilants of screw-worm flies [*Cochliomyia hominivorax*] with particular reference to methanediol dimethanesulfonate. *J. Econ. Entomol.* 61(2):446-449. Ref. Apr.15,1968. 421 J822
- 74555 ENGELS, W. Anaerobic tests with *Musca domestica*; age and sex differences in survival rate and recovery capacity. (Ge) *J. Insect Physiol.* 14(2):253-260. Ref. Feb.1968. 421 J825
- English summary.
- 74556 FLITTERS, N. E., and BENSCHOTER, C. A. Survival of screw-worm [*Cochliomyia hominivorax*] pupae exposed to simulated winter temperatures from selected sites in Texas. *Entomol. Soc. Amer. Ann.* 61(1):65-67. Jan.1968. 420 En82
- 74557 FRAENKEL, G., and HSIAO, C. Manifestations of a pupal diapause in two species of flies, *Sarcophaga argyrostoma* and *S. bullata*. *J. Insect Physiol.* 14(5):689-705. Ref. May 1968. 421 J825
- 74558 FRAENKEL, G., and HSIAO, C. Morphological and endocrinological aspects of pupal diapause in a fleshfly, *Sarcophaga argyrostoma*. *J. Insect Physiol.* 14(5):707-718. Ref. May 1968. 421 J825
- 74559 GEIGY, R., KAUFFMANN, M., and DIEHL, P. On the trypanosome infection rate of *Glossina morsitans* in the Ulanga District (Tanzania). *Acta Trop.* 25(1):72-77. 1968. 475 Ac8
- 74560 GROSSBACH, U. Cell differentiation in the salivary glands of *Camptochironomus tentans* and *C. pallidivittatus*. *Ann. Zool. Fenn.* 5(1):37-40. Ref. 1968. 410 An712
- 74561 HAIR, J. A., and TURNER, E. C. Preliminary host preference studies on Virginia *Culicoides* (Diptera: Ceratopogonidae). *Mosquito News* 28 (1):103-107. Ref. Mar.1968. 421 M85
- 74562 HASHIMOTO, H. Seasonal variation in the marine chironomid, *Clunio tsushimensis* Tokunaga (Diptera). *Ann. Zool. Fenn.* 5(1):41-48. Ref. 1968. 410 An712
- Morphological study.
- 74563 HOELSCHER, C. E., COMBS, R. L., and BRAZZEL, J. R. Horn fly [*Haematobia irritans*] dispersal. *J. Econ. Entomol.* 61(2):370-373. Ref. Apr.15,1968. 421 J822
- Mississippi.
- 74564 HULLEY, P. E. Mitotic chromosomes of *Glossina pallidipes* Austen. *Nature* 217(5132): 977-979. Mar.9,1968. 472 N21
- 74565 INTERNATIONAL SYMPOSIUM ON CHIRONOMIDAE RESEARCH, 2, HELSINKI, 1967. [Papers], edited by E. Palmen. *Ann. Zool. Fenn.* 5(1):1-158. Ref. 1968. 410 An712
- 74566 KAJAK, Z., and WARDA, J. Feeding of benthic non-predatory Chironomidae in lakes. *Ann. Zool. Fenn.* 5(1):57-64. Ref. 1968. 410 An712
- 74567 KAJAK, Z., DUSOGE, K., and STANCZYKOWSKA, A. Influence of mutual relations of organisms, especially Chironomidae, in natural benthic communities, on their abundance. *Ann. Zool. Fenn.* 5(1):49-56. Ref. 1968. 410 An712
- 74568 KOKOLIS, N. Biochemical studies of purine catabolism in *Ceratitis capitata*. *Compar. Biochem. Physiol.* 25(2):683-691. Ref. May 1968. 444.8 C73
- 74569 KOSKINEN, R. Seasonal and diel emergence of *Chironomus salinarius* Kieff. (Dipt., Chironomidae) near Bergen, Western Norway. *Ann. Zool. Fenn.* 5(1):65-70, map. Ref. 1968. 410 An712
- 74570 KOSKINEN, R. Seasonal emergence of *Clunio marinus* Haliday (Dipt., Chironomidae) in Western Norway. *Ann. Zool. Fenn.* 5(1):71-75, map. Ref. 1968. 410 An712



- 74571 KRAMER, J. P. An octosporeosis [Octosporea muscaedomesticae] of the black blow fly, *Phormia regina*: incidence rates of host and parasite. *Z. Parasitenk.* 30(1):33-39. Jan.9,1968. 442.8 Z33F Illinois.
- 74572 LALL, S. B., and DAVIES, D. M. Comparative studies of the labellar sensitivity of female tabanids (Diptera) to sucrose and sodium chloride. *Entomol. Soc. Amer. Ann.* 61(1):222-225. Ref. Jan.1968. 420 En82  
*Chrysops vittatus*, *Hybomitra lasiophthalma*, and *Tabanus lineola*.
- 74573 LELLAK, J. Positive phototaxis of Chironomidae larvae as the regulating factor of their distribution in back waters. (Ge) *Ann. Zool. Fenn.* 5(1):84-87. Ref. 1968. 410 An712
- 74574 LINDEBERG, B. Population differences in *Tanytarsus gracilentus* (Holmgr.) (Dipt., Chironomidae). *Ann. Zool. Fenn.* 5(1):88-91. Ref. 1968. 410 An712
- 74575 LIPINSKA-SKAWINSKA, B., and CHMURZYSKI, J. A. Phototactic choice between two white light sources of various intensity in blowfly, *Calliphora erythrocephala* Meig. *Experientia* 24(3):283-284. Mar.15,1968. 475 Ex7
- 74576 LITVINOVA, N. F. Materials on biology and ecology of *Triceratopyga calliphoroides* Rohdendorf (Calliphoridae, Diptera). (Rus) *Med. Parazitol. Parazitarn. Bolezni* 37(1):32-35. Jan./Feb.1968. 448.8 M469  
English summary.
- 74577 MARKAR'YANTS, L. A., and GADZHEI, E. F. Contamination of synanthropic flies with eggs of helminths in the western Pamir. (Rus) *Med. Parazitol. Parazitarn. Bolezni* 37(1):103-104. Jan./Feb.1968. 448.8 M469  
English summary.
- 74578 MILLER, S., and PERRY, A. S. RNA synthesis in the developing ovary of the house fly; incorporation of  $^{14}\text{C}$ -formate. *J. Insect Physiol.* 14(5):581-589. Ref. May 1968. 421 J825
- 74579 MÖRIL, T., and KITAOKA, S. The laboratory colonization of *Culicoides arakwae* (Diptera: Ceratopogonidae). Tokyo. *Nat. Inst. Anim. Health Quart.* 8(1):26-30. Ref. Spring 1968. 41.9 T575Q
- 74580 MOTHESS, G. Some Chironomidae of ecological interest from the Stechlinsee area. (Ge) *Ann. Zool. Fenn.* 5(1):92-96. Ref. 1968. 410 An712  
*Corynocera ambigua*, *Tanytarsus curticornis*, and *Pagastiella orophila*.
- 74581 MUUS, J. Gel electrophoresis of some dehydrogenases from flight muscles of tsetse flies (*Glossina morsitans*) and house flies (*Musca domestica*). *Compar. Biochem. Physiol.* 24(2):527-536. Ref. Feb.1968. 444.8 C73
- 74582 OLIVER, D. R. Adaptations of Arctic Chironomidae. *Ann. Zool. Fenn.* 5(1):111-118. Ref. 1968. 410 An712
- 74583 PATTERSON, R. S., CARDINALE, T. A., and GLENN, B. B. Chironomids [Glyptotendipes paripes] as possible carriers of coliform bacteria. *Mosquito News* 28(1):111. Mar.1968. 421 M85
- 74584 POORBAUGH, J. H., ANDERSON, J. R., and BURGER, J. F. The insect inhabitants of undisturbed cattle droppings in northern California. *Calif. Vector Views* 15(3):17-35. Ref. Mar.1968. 449.8 C12  
Chiefly Diptera.
- 74585 PROKOPY, R. J. Influence of photoperiod, temperature, and food on initiation of diapause in the apple maggot [*Rhagoletis pomonella*]. *Can. Entomol.* 100(3):318-329. Ref. Mar.1968. 421 C16
- 74586 RAW, F., JONES, M. G., and GREGORY, P. H. The food of female wheat bulb flies (*Leptohyemia coarctata* (Fall.)). *Plant Pathol.* 17(1):23-25. Mar.1968. 464.8 P692
- 74587 READ, D. C. Some comments on a recent paper by D. G. R. McLeod and G. R. Driscoll concerning diapause in the cabbage maggot [*Hydomyza brassicae*]. *Can. Entomol.* 100(3):304-308. Mar.1968. 421 C16
- 74588 SOKOLOWA, N. J. Ecology of Chironomidae in the Utscha reservoir. (Ge) *Ann. Zool. Fenn.* 5(1):139-143. Ref. 1968. 410 An712
- 74589 STEFFAN, A. W. Evolution and significance of epizotic mode of life of the Chironomidae larvae (Diptera). (Ge) *Ann. Zool. Fenn.* 5(1):144-150. Ref. 1968. 410 An712
- 74590 SUN, G. Y., and BROOKES, V. J. The deposition of lipid and the composition of neutral lipids in the fat body of *Sarcophaga bullata* (Diptera). *Compar. Biochem. Physiol.* 24(1):177-185. Ref. Jan.1968. 444.8 C73
- 74591 SYRJAMAKI, J. A. A peculiar swarming mechanism of an Arctic chironomid (Diptera) at Spitsbergen. *Ann. Zool. Fenn.* 5(1):151-152. 1968. 410 An712
- 74592 TAUBER, M. J., and TAUBER, C. A. Biology and leaf-mining behaviour of *Phytomyza lanati* (Diptera: Agromyzidae). *Can. Entomol.* 100(4):341-349. Ref. Apr.1968. 421 C16  
Pest of *Heracleum lanatum*.
- 74593 THOMAS, W. A. Calcium content of *Mycodiplosis alternata* (Diptera: Cecidomyiidae) galls. *Entomol. Soc. Amer. Ann.* 61(1):234-235. Jan.1968. 420 En82  
Host plant *Cornus florida* had been tagged with radioactive calcium.
- 74594 TREECE, R. E., and MILLER, T. A. Observations on *Heterotylenchus autumnalis* in relation to the face fly [*Musca autumnalis*]. *J. Econ. Entomol.* 61(2):454-456. Apr.15,1968. 421 J822  
Gonadotrophic cycle.
- 74595 TRIBE, M. A., and BOWLER, K. Temperature dependence of "standard metabolic rate" in a poikilotherm. *Compar. Biochem. Physiol.* 25(2):427-436. Ref. May 1968. 444.8 C73  
*Calliphora erythrocephala*.
- 74596 VALSET, K. Observations on the development of the raspberry cane maggot, *Pegomia rubivora* (Coq.) and growth symptoms in affected plants. (No) *Forsk. Forsok Landbruket* 19(1):67-80. Ref. 1968. 11 F772  
English summary.
- 74597 WEST, J. A., CANTWELL, G. E., and SHORTING, T. J. Embryology of the house fly, *Musca domestica* (Diptera: Muscidae), to the blastoderm stage. *Entomol. Soc. Amer. Ann.* 61(1):13-17. Jan.1968. 420 En82
- 74598 WILSON, L. F. Life history and habits of the pine cone willow gall midge, *Rhabdophaga strobiloides* (Diptera: Cecidomyiidae), in Michigan. *Can. Entomol.* 100(4):430-433. Apr.1968. 421 C16  
Pest of *Salix eriocephala*.
- 74599 WOOL, D., and KUGLER, J. Laboratory culture of chironomid species from the Hula Nature Preserve, Israel. *Ann. Zool. Fenn.* 5(1):153-154. 1968. 410 An712  
*Glyptotendipes glaucus*, *Chironomus calipterus*, and *Kiefferulus chloronatus*.
- 74600 YANG, Y. J., and DAVIES, D. M. Digestion, emphasizing trypsin activity, in adult simuliids (Diptera) fed blood, blood-sucrose mixtures, and sucrose. *J. Insect Physiol.* 14(2):205-222. Ref. Feb.1968. 421 J825

General Entomology  
Culicidae

- 74601 ALGER, N. E. Individually humidified closed plastic cages for rearing anopheline mosquitoes. *Mosquito News* 28(1):121-122. Mar.1968. 421 M85

- 74602 ANUFRIEVA, V. N. Age composition of populations of blood-sucking mosquitoes in a focus of arbovirus infection in the Zaisan District of the eastern Kazakhstan Region. (Rus) Med. Parazit. Parazitarn. Bolezni 37(1):23-28. Ref. Jan./Feb.1968. 448.8 M469 English summary.
- 74603 BAFORT, J. Primary exo-erythrocytic forms of *Plasmodium vinckei*. Nature 217(5135):1264-1265. Mar.30,1968. 472 N21 Isolated from *Anopheles dureni*.
- 74604 BIDLINGMAYER, W. L. Larval development of *Mansonia* mosquitoes in central Florida. Mosquito News 28(1):51-57. Mar.1968. 421 M85 *Mansonia perturbans*, *M. indubitans*, and *M. titillans*.
- 74605 BRYAN, J. H. Results of consecutive matings of female *Anopheles gambiae* species B with fertile and sterile males. Nature 218(5140):489. May 4,1968. 472 N21
- 74606 BUFFINGTON, J. D. A circadian pattern in the respiration of larvae of the mosquito *Culex pipiens*. Mosquito News 28(1):95-98. Mar. 1968. 421 M85
- 74607 COLLINS, W. E., and others. Transmission of *Plasmodium fieldi* by *Anopheles maculatus*, *A. stephensi*, and *A. balabacensis*. J. Parasitol. 54(2):376. Apr.1968. 448.8 J824 P. G. Contacos, E. G. Guinn, and J. R. Held, joint authors.
- 74608 DARROW, D. I. The effect of gamma irradiation on reproduction and life span of the mosquito *Culex tarsalis* Coquillett. Mosquito News 28(1):21-24. Mar.1968. 421 M85
- 74609 DUDKINA, M. S., and TVERSKAYA, R. M. Analysis of population of *Anopheles* mosquitoes in Lvov and its vicinity during 1947-1965. (Rus) Med. Parazit. Parazitarn. Bolezni 37(1):28-31. Jan./Feb.1968. 448.8 M469 English summary.
- 74610 FAY, R. W. A trap based on visual responses of adult mosquitoes. Mosquito News 28(1):1-7. Mar.1968. 421 M85 Tests with *Aedes aegypti*.
- 74611 FILSHIE, B. K., and REHACEK, J. Studies of the morphology of Murray Valley encephalitis and Japanese encephalitis viruses growing in cultured mosquito [*Aedes aegypti*] cells. Virology 34(3):435-443. Mar.1968. 448.8 V81
- 74612 HAYES, D. E. The successful induced copulation of *Culiseta melanura* (Coquillett). Mosquito News 28(1):109-110. Mar.1968. 421 M85
- 74613 HINTON, H. E. Structure and protective devices of the egg of the mosquito *Culex pipiens*. J. Insect Physiol. 14(2):145-161. Feb.1968. 421 J825
- 74614 KEIRANS, J. E., PERRY, A. S., and FAY, R. W. Preliminary observations on the effect of alcohol and oil films on the oviposition of *Culex pipiens quinquefasciatus* (Say). Mosquito News 28(1):71-74. Mar.1968. 421 M85
- 74615 KHAN, A. A., MAIBACH, H. I., and STRAUSS, W. G. Response of the yellow-fever mosquito [*Aedes aegypti*] to varying areas of human skin. J. Econ. Entomol. 61(2):555-557. Apr.15,1968. 421 J822
- 74616 KHELEVIN, N. V. Biology of *Aedes* mosquitoes in the flood plain of the central Russian SFSR. (Rus) Med. Parazit. Parazitarn. Bolezni 37(1):105-106. Jan./Feb.1968. 448.8 M469 English summary.
- 74617 LOWRIE, R. C., and GUBLER, D. J. A time-saving method for the rearing of mosquitoes in the laboratory. Mosquito News 28(1):115-117. Mar.1968. 421 M85
- 74618 MADELIN, M. F. Studies on the infection by *Coelomomyces indicus* of *Anopheles gambiae*. Elisha Mitchell Sci. Soc. J. 84(1):115-124. Ref. Spring 1968. 500 EL4
- 74619 MEANS, R. G. Host preferences of mosquitoes (Diptera: Culicidae) in Suffolk County, New York. Entomol. Soc. Amer. Ann. 61(1):116-120. Ref. Jan.1968. 420 En82
- 74620 MULLER, W. The distance and contact orientation of mosquitoes (*Aedes aegypti*); host finding, biting, and blood-sucking. (Ge) Z. Vergleichende Physiol. 58(3):241-303. 1968. 444.8 Z3 English summary. Bibliography, p.299-303. Includes chemoreception.
- 74621 OKTYABR'SKAYA, T. A., DEREVITSKAYA, V. V., and SHERINA, L. Biology of *Culex pipiens* in the Moscow suburbs. (Rus) Med. Parazit. Parazitarn. Bolezni 37(1):18-22. Jan./Feb.1968. 448.8 M469 English summary.
- 74622 PELEG, J. Growth of arboviruses in primary tissue culture of *Aedes aegypti* embryos. Amer. J. Trop. Med. Hyg. 17(2):219-223. Ref. Mar.1968. 448.8 Am326
- 74623 PETERS, T. M., and CHEVONE, B. I. Marking *Culex pipiens* Linn. larvae with vital dyes for larval ecological studies. Mosquito News 28(1):24-28. Mar.1968. 421 M85
- 74624 PILLAI, J. S., and MACNAMARA, F. N. A portable mosquito trap for use with a bantam fowl. Mosquito News 28(1):87-90. Mar.1968. 421 M85
- 74625 QURAIISHI, M. S. Uptake of P32 by yellow-fever mosquito [*Aedes aegypti*] larvae of equal age, and those pupating synchronously: its loss and transfer during development, mating, and oviposition. J. Econ. Entomol. 61(2):530-533. Ref. Apr.15,1968. 421 J822
- 74626 ROSAY, B. An autogenous gynandromorph of *Culex tarsalis* Coq. Mosquito News 28(1):120. Mar.1968. 421 M85
- 74627 ROWLEY, W. A., and GRAHAM, C. L. The effect of age on the flight performance of female *Aedes aegypti* mosquitoes. J. Insect. Physiol. 14(5):719-728. Ref. May 1968. 421 J825
- 74628 SCHRECK, C. E., and JAMES, J. Broth cultures of bacteria [*Bacillus cereus*] that attract female mosquitoes [*Aedes aegypti*]. Mosquito News 28(1):33-38. Ref. Mar.1968. 421 M85
- 74629 SELF, L. S., and PANT, C. P. Parous/nulliparous condition of unfed *Anopheles gambiae* and *Anopheles funestus* captured in exit traps. Mosquito News 28(1):62-64. Mar.1968. 421 M85 Northern Nigeria.
- 74630 SJOGREN, R. D. Notes on *Culex tarsalis* Coquillett breeding in sewage. Calif. Vector Views 15(4):42-43. Apr.1968. 449.8 C12
- 74631 SOLLERS-RIEDEL, H. Literature references to mosquitoes and mosquito-borne diseases. Mosquito News 28(1):128-140. Mar.1968. 421 M85
- 74632 STEELMAN, C. D., and others. A collapsible truck-boat trap for collecting blood-fed mosquitoes and tabanids. Mosquito News 28(1):64-67. Mar.1968. 421 M85 C. G. Richardson, R. E. Schaefer, and B. H. Wilson, joint authors.
- 74633 TAKAHASHI, M. Laboratory rearing of *Culex* (Melanoconion) portesi Senevet and Abonnenc. Mosquito News 28(1):82-84. Mar.1968. 421 M85
- 74634 UMPHLETT, C. J. Ecology of *Coelomomyces* infections of mosquito [*Anopheles quadrimaculatus*] larvae. Elisha Mitchell Sci. Soc. J. 84(1):108-114. Ref. Spring 1968. 500 EL4

#### General Entomology *Drosophila*

- 74635 ANDERSON, W. W., and others. Genetics of natural populations. XXXIX. A test of the possible influence of two insecticides on the chromosomal polymorphism in *Drosophila pseudoobscura*. Genetics 58(3):423-434. Ref. Mar. 1968. 442.8 G28 C. Oshima, T. Watanabe, T. Dobzhansky, and O. Pavlovsky, joint authors.



- 74636 BARIGOZZI, C., and GORLA, M. S. Chromosomal and extrachromosomal transmission of cellular melanization in the freckled phenotype in *Drosophila melanogaster*. *Genet. Res.* 11(2):141-150. Apr. 1968. 443.8 G283
- 74637 BATEMAN, A. J. The influence of dose and germ-cell stage on X-ray induced crossovers in male *Drosophila*. *Mutation Res.* 5(2):243-257. Ref. Mar./Apr. 1968. 443.8 M98
- 74638 CORWIN, H. O. The mutagenic effect of N-nitrosomethylurea on the dumpy locus in *Drosophila melanogaster*. *Mutation Res.* 5(2):259-270. Ref. Mar./Apr. 1968. 443.8 M98
- 74639 DUFFY, J. P. Beta-alanine metabolism in *Drosophila melanogaster* adults. *J. Insect. Physiol.* 14(2):199-204. Ref. Feb. 1968. 421 J825
- 74640 DUMOUCHEL, W. H., and ANDERSON, W. W. The analysis of selection in experimental populations. *Genetics* 58(3):435-449. Ref. Mar. 1968. 442.8 G28  
Tests with *Drosophila* but applicable to any population.
- 74641 EHRHARDT, W. Experiments with *Drosophila melanogaster* and the chemosterilant apholate. (Ge) *Z. Pflanzenkr. (Pflanzenpathol.) Pflanzenschutz* 75(1):32-34. Jan. 1968. 464.8 Z3  
English summary.
- 74642 EHRMAN, L. Frequency dependence of mating success in *Drosophila pseudoobscura*. *Genet. Res.* 11(2):135-140. Apr. 1968. 443.8 G283
- 74643 HUNTER, A. S. Effects of temperature on *Drosophila*. IV. Adaptation of D. immigrants. *Compar. Biochem. Physiol.* 24(2):327-333. Feb. 1968. 444.8 C73
- 74644 KALE, P. G. Spontaneous crossing over in the males of *Drosophila ananassae*: two-way selection for recombination values. *Jap. J. Genet.* 43(1):27-31. Ref. Mar. 1968. 442.9 J27
- 74645 MANGE, E. J. Temperature sensitivity of segregation-distortion in *Drosophila melanogaster*. *Genetics* 58(3):399-413. Ref. Mar. 1968. 442.8 G28
- 74646 MARINKOVIC, D. Selection for higher fitness in populations of *Drosophila pseudoobscura*. *Science* 160(3824):199-200. Apr. 12, 1968. 470 Sci2
- 74647 MASON, H. C., and SMITH, F. F. Suppression of populations of *Drosophila melanogaster* in tomato field plots with chemosterilant baits. *J. Econ. Entomol.* 61(2):362-367. Apr. 15, 1968. 421 J822
- 74648 MILLER, D. H., and others. Variation of scutellar bristles in *Drosophila [melanogaster]*. XIII-XIV. *Australian J. Biol. Sci.* 21(1):61-87. Ref. Feb. 1968. 442.8 Au72  
A. S. Fraser, W. Brenton, and L. Erway, joint authors.  
XIII, Effects of scute alleles; XIV, Effects of temperature and crowding.
- 74649 PURDOM, C. E., DYER, K. F., and PAPWORTH, D. G. Allelic clusters among spontaneous mutations in *Drosophila*. *Mutation Res.* 5(2):305-307. Mar./Apr. 1968. 443.8 M98
- 74650 RATNAYAKE, W. E. Effects of storage on dominant lethals induced by alkylating agents (triethylene melamine and ethylenimine). *Mutation Res.* 5(2):271-278. Ref. Mar./Apr. 1968. 443.8 M98  
Mutagenic effects on spermatozoa of *Drosophila melanogaster*.
- 74651 SAMEOTÖ, D. D., and MILLER, R. S. Selection of pupation site by *Drosophila melanogaster* and *D. simulans*. *Ecology* 49(1):177-180. Winter 1968. 410 Ec7
- 74652 SCOWCROFT, W. R. Variation of scutellar bristles in *Drosophila [melanogaster]*. XI. *Genet. Res.* 11(2):125-134. Ref. Apr. 1968. 443.8 G283
- 74653 SLIZYNSKA, H. Triplications and the problem of non-homologous crossing-over. *Genet. Res.* 11(2):201-208. Ref. Apr. 1968. 443.8 G283  
*Drosophila melanogaster* treated with triethylene melamine and mustard gas.
- 74654 SMITH, P. D., KOENG, P. B., and LUCCHESI, J. C. Inhibition of development in *Drosophila* by cortisone. *Nature* 217(5135):1286. Mar. 30, 1968. 472 N21  
RNA synthesis inhibited.
- 74655 STREAMS, F. A. Defense reactions of *Drosophila* species (Diptera: Drosophilidae) to the parasite *Pseudeucoila bochei* (Hymenoptera: Cynipidae). *Entomol. Soc. Amer. Ann.* 61(1):158-164. Ref. Jan. 1968. 420 En82
- 74656 WATSON, W. A. F. Induced lethality in a ring-X chromosome—a new approach. *Mutation Res.* 5(2):308-309. Mar./Apr. 1968. 443.8 M98  
Experiments with *Drosophila*; mutagenic effects of tretamine.
- 74657 ZIMMERMAN, W. F., PITTEDRIGH, C. S., and PAVLIDIS, T. Temperature compensation of the circadian oscillation in *Drosophila pseudoobscura* and its entrainment by temperature cycles. *J. Insect. Physiol.* 14(5):669-684. Ref. May 1968. 421 J825
- General Entomology  
Hemiptera (Heteroptera and Homoptera)
- 74658 ATKINS, M. D., and WOODS, T. A. D. Survival of the balsam woolly aphid [*Adelges piceae*] on *Abies [grandis]* logs. *Can. Entomol.* 100(4):412-420, map. Apr. 1968. 421 C16  
Dissemination when moving the logs.
- 74659 BANKS, C. J., and MACAULAY, E. D. M. Cannibalism and predation by aphids. *Nature* 218(5140):491. May 4, 1968. 472 N21
- 74660 BERRY, R. E., and RANEY, L. W. A recording photometer for biological studies. *Ecology* 49(1):161-162. Winter 1968. 410 Ec7  
In study of aphids.
- 74661 BHALLA, O. P., and ROBINSON, A. G. Effects of chemosterilants and growth regulators on the pea aphid [*Acyrtosiphon pisum*] fed an artificial diet. *J. Econ. Entomol.* 61(2):552-555. Apr. 15, 1968. 421 J822
- 74662 COUPE, T. R., and SCHULZ, J. T. The influence of controlled environments and grass hosts on the life cycle of *Endria inimica* (Homoptera: Cicadellidae). *Entomol. Soc. Amer. Ann.* 61(1):74-77. Jan. 1968. 420 En82
- 74663 EVANS, D. A., and MEDLER, J. T. Laboratory investigations of flight activity and production of alatae in the corn leaf aphid, *Rhopalosiphum maidis* (Homoptera: Aphididae). *Entomol. Soc. Amer. Ann.* 61(1):60-64. Ref. Jan. 1968. 420 En82
- 74664 FINKE, C. Sound production and phonobehavior of *Sigara striata* and *Callicorixa praeusta* (Corixidae Leach, Hydrocorisae Latr.). (Ge) *Z. Vergleichende Physiol.* 58(4):398-422. Ref. 1968. 444.8 Z3  
English summary.
- 74665 GOURANTON, J. Composition, structure, and formation of mineral concretions in the intestines of Homoptera, Cercopidae. (Fr) *J. Cell Biol.* 37(2):316-328. Ref. May 1968. 442.8 J828  
English summary.
- 74666 GOURANTON, J. Observations on the histochemistry and enzymology of the digestive tube of some Homoptera: Cercopidae and Jassidae. (Fr) *J. Insect Physiol.* 14(5):569-479. Ref. May 1968. 421 J825  
English summary.
- 74667 GUSTIN, R. D., and STONER, W. N. Biology of *Deltocephalus sonorus* (Homoptera: Cicadellidae). *Entomol. Soc. Amer. Ann.* 61(1):77-82. Ref. Jan. 1968. 420 En82
- 74668 HEIN, A. Small cages for observing aphids. (Ge) *Z. Pflanzenkr. (Pflanzenpathol.) Pflanzenschutz* 75(3):160-161. Mar. 1968. 464.8 Z3
- 74669 KALOOSTIAN, G. H. Chemosterilization of male pear psylla [*Psylla pyricola*] with tepa. *J. Econ. Entomol.* 61(2):573-574. Apr. 15, 1968. 421 J822

- 74670 KAMP, H. Investigations of humoral immunity in *Pyrrhocoris apterus* L. and *Galleria mellonella* F. (Ge) Z. Vergleichende Physiol. 58 (4):441-464. Ref. 1968. 444.8 Z3  
English summary.  
To bacteria.
- LOEWUS, M. W. Analysis of chromatin in male and female mealy bugs [*Planococcus citri*]. Nature 218(5140):474-476. May 4, 1968. 472 N21
- 74671 LORD, F. T. Influence of the proportion of fruiting to non-fruiting clusters on the distribution of insect predators on apple trees. Can. Entomol. 100(3):308-312. Mar. 1968. 421 C16  
Chiefly Miridae.
- 74672 MCLEAN, D. L., and WEIGT, W. A. An electronic measuring system to record aphid salivation and ingestion. Entomol. Soc. Amer. Ann. 61(1):180-185. Ref. Jan. 1968. 420 En82  
*Acyrtosiphon pisum*.
- 74673 MUNK, R. The directions of the flow of food in the alimentary tract of the leafhopper *Euscelidius variegatus* Kbm. (Jassidae). (Ge) Z. Vergleichende Physiol. 58(4):423-428. 1968. 444.8 Z3  
English summary.
- 74674 NIELSON, M. W., and TOLES, S. L. Observations on the biology of *Acinopterus angulatus* and *Aceratagallia curvata* in Arizona (Homoptera: Cicadellidae). Entomol. Soc. Amer. Ann. 61(1):54-56. Jan. 1968. 420 En82
- 74675 POLIVANOVA, E. N. Formation and activity of the neurosecretory system of protocerebrum in the course of embryogenesis in *Eurygaster integriceps* Put. (Rus) Akad. Nauk SSSR. Dokl. 176(2):486-488. Ref. 1967. 511 P444A
- 74676 RETNAKARAN, A., and BECK, S. D. Amino acid requirements and sulfur amino acid metabolism in the pea aphid, *Acyrtosiphon pisum* (Harris). Compar. Biochem. Physiol. 24(2):611-619. Ref. Feb. 1968. 444.8 C73
- 74677 RIDGWAY, R. L., and JONES, S. L. Plant feeding by *Geocoris pallens* and *Nabis americana* Forster. Entomol. Soc. Amer. Ann. 61(1):232-233. Jan. 1968. 420 En82
- 74678 SESHAN, K. R. The phenomena of neurosecretion in the ventral nervous system of *Iphita limbata*. (Fr) Acad. Sci. C. R., Ser. D, 266(6): 619-622. Ref. Feb. 5, 1968. 505 P21
- 74679 SLAMA, K., SUCHY, M., and SORM, F. Natural and synthetic materials with insect hormone activity. 3. Biol. Bull. 134(1):154-159. Ref. Feb. 1968. 442.8 B52  
Tested on *Pyrrhocoris apterus* and *Neodysdercus intermedius*.
- 74680 TAMAKI, Y. Isolation of tetradecan-1,14-dioic acid from the Comstock mealybug, *Pseudococcus comstocki* Kuwana (Homoptera: Pseudococcidae). Lipids 3(2):186-187. Mar. 1968. QP751.L5
- 74681 TOSELLI, P. A., and PEPE, F. A. The fine structure of the ventral intersegmental abdominal muscles of the insect *Rhodnius prolixus* during the molting cycle. I-II. J. Cell Biol. 37 (2):445-481. Ref. May 1968. 442.8 J828
- General Entomology  
Hymenoptera
- SEE ALSO Apiculture and *Apis mellifera*.
- 74682 ATTFIELD, H. D. Stingless bees: their curious mode of life. Amer. Bee J. 108(5):186-187. May 1968. 424.8 Am3  
*Melipona* and *Trigona*.
- 74683 BROUSSAL, G. Effect of temperature on the fecundity of *Asaphes vulgaris* Walker (Hymenoptera, Pteromalidae). (Fr) Acad. Sci. C. R., Ser. D, 266(15):1586-1588. Apr. 15, 1968. 505 P21
- 74684 BUCKINGHAM, G. R. Pygidial glands in male *Opius* (Hymenoptera: Braconidae). Entomol. Soc. Amer. Ann. 61(1):233-234. Jan. 1968. 420 En82
- 74685 CLARK, A. M., GOULD, A. B., and POTTS, M. R. Mosaicism in *Habrobracon juglandis* associated with the ebony locus. Genetics 58 (3):415-422. Mar. 1968. 442.8 G28
- 74686 DAVIS, H. G., and others. New chemical at tractant for yellow jackets (*Vespula* spp.). J. Econ. Entomol. 61(2):459-462. Apr. 15, 1968. 421 J822  
T. P. McGovern, G. W. Eddy, T. E. Nelson, K. M. R. Bertun, M. Beroza, and J. C. Ingangi, joint authors.  
102 synthetic organic compounds tested.
- 74687 FLUKER, S. S., HUDDLESTON, E. W., and BEARDSLEY, J. W. Some effects of the big-headed ant [*Pheidole megacephala*] on populations of the pink sugarcane mealybug [*Saccharicoccus sacchari*]. J. Econ. Entomol. 61(2):474-477. Ref. Apr. 15, 1968. 421 J822  
Hawaii.
- 74688 FRANCOEUR, A., and BEIQUE, R. Supplement to the myrmecological fauna of Quebec. (Fr) Nature Can. 95(1):227-229. Jan./Feb. 1968. 410 N216  
*Aphaenogaster tennesseensis*, *Lasius minutus*, and *Formica reflexa*.
- 74689 HORT, I., and HERZ, A. The influence of bee venom on the osmotic fragility of human red blood cells. Experientia 24(3):254-255. Mar. 15, 1968. 475 Ex7
- 74690 ISHAY, J., and IKAN, R. Gluconeogenesis in the oriental hornet *Vespa orientalis* F. Ecology 49(1):169-171. Ref. Winter 1968. 410 Ec7
- 74691 IVES, W. G. H. Larch sawfly [*Pristiphora erichsonii*] survival in relation to water levels and microtopography in tamarack [*Larix laricina*] bogs. Can. Entomol. 100(4):373-385. Apr. 1968. 421 C16
- 74692 KIEPENHEUER, J. Capacity for color vision in the red forest ant *Formica polycetena* Forster. (Ge) Z. Vergleichende Physiol. 57(4): 409-411. Jan. 11, 1968. 444.8 Z3  
English summary.
- 74693 KING, P. E., and RICHARDS, J. G. Accessory nuclei and annulate lamellae in hymenopteran oocytes. Nature 218(5140):488. Ref. May 4, 1968. 472 N21  
*Nasonia vitripennis* and *Ophion luteus*.
- 74694 LACHANCE, L. E., and LEVERICH, A. P. Chemosterilant studies on Bracon (Hymenoptera: Braconidae) sperm. I. Sperm inactivation and dominant lethal mutations. Entomol. Soc. Amer. Ann. 61(1):164-173. Ref. Jan. 1968. 420 En82
- 74695 LEONG, J. K., and OATMAN, E. R. The biology of *Campoplex haywardi* (Hymenoptera: Ichneumonidae), a primary parasite of the potato tuberworm [*Phthorimaea operculella*]. Entomol. Soc. Amer. Ann. 61(1):26-36. Jan. 1968. 420 En82
- 74696 LEWIS, W. J., and VINSON, S. B. Immunological relationships between the parasite *Cardiochiles nigriceps* Vierick and certain *Heliothis* species. J. Insect Physiol. 14(5):613-626. Ref. May 1968. 421 J825  
*Heliothis virescens* and *H. zea*.
- 74697 MADDEN, J. L. Behavioural responses of parasites to the symbiotic fungus [*Amylostereum*] associated with *Sirex noctilio* F. Nature 218(5137):189-190. Apr. 13, 1968. 472 N21  
Study of biological control.
- 74698 SKAIFE, S. H. Experiments on the effects of radiation on ants. Australian Natur. Hist. 16 (1):27-28. Mar. 1968. 475 Au7  
*Iridomyrmex humilis* and *Crematogaster peringueyi*.
- 74700 SMIRNOFF, W. A. The nature of cysts found in pupae and adults of *Neodiprion swainei*. Can. Entomol. 100(3):313-318. Mar. 1968. 421 C16
- 74701 STEIN, J. D. Labeling larvae of the elm sawfly [*Cimbex americana*] with P<sup>32</sup>. J. Econ. Entomol. 61(2):508-510. Apr. 15, 1968. 421 J822



- 74702 TAYLOR, J. S. Notes on some South African bees and wasps. *Entomol. Rec. Variation* 80 (3):69-72. Mar.1968. 421 En89  
Biology and behavior in artificial nests.

General Entomology  
Lepidoptera

SEE ALSO Sericulture and the Silkworm.

- 74703 BARBIER, R. Experimental study and observations with electron microscope on the deposition of endocuticle and exocuticle of the larvae of *Galleria mellonella* L. (Lepidoptera, Pyralidae). (Fr) *Acad. Sci. C. R., Ser. D*, 266(15): 1613-1615. Apr.15,1968. 505 P21
- 74704 BERGER, R. S., and CANERDAY, T. D. Specificity of the cabbage looper [*Trichoplusia ni*] sex attractant. *J. Econ. Entomol.* 61(2):452-454. Apr.15,1968. 421 J822
- 74705 BUTT, B. A., and others. Synthetic chemical sex stimulants for the codling moth [*Carpocapsa pomonella*]. *J. Econ. Entomol.* 61(2):570-572. Apr.15,1968. 421 J822  
M. Beroza, T. P. McGovern, and S. K. Freeman, joint authors.
- 74706 CARLSON, S. D., SMITH, J. S., and STANLEY, J. M. Moth [*Manduca sexta*] visual potentials in response to middle UV-radiation. *Experientia* 24(3):289-291. Ref. Mar.15,1968. 475 Ex7
- 74707 CHALMERS-HUNT, J. M. *Argyresthia laevigatella* H. -S.- *Atmoriella Bankes* (Lep. Tineina) in Kent. *Entomol. Rec. Variation* 80(3):85. Mar.1968. 421 En89
- 74708 CHALMERS-HUNT, J. M. *Lithocolletis embe-rizaepennella Bouche* (Lep. Tineina) mining the leaves of snowberry (*Symphoricarpos rivularis*). *Entomol. Rec. Variation* 80(3):84. Mar. 1968. 421 En89
- 74709 CHIANG, H. C., KEASTER, A. J., and REED, G. L. Differences in ecological responses of three biotypes of *Ostrinia nubilalis* from the North Central United States. *Entomol. Soc. Amer. Ann.* 61(1):140-146. Ref. Jan.1968. 420 En82
- 74710 CLARET, J. Physiological variations caused by photoperiodism during prediapause in the larvae of *Pieris brassicae* L. (Fr) *Acad. Sci. C. R., Ser. D*. 266(11):1156-1159. Mar.11,1968. 505 P21
- 74711 FLINT, H. M., and KRESSIN, E. L. Gamma irradiation of the tobacco budworm [*Heliothis virescens*]: sterilization, competitiveness, and observations on reproductive biology. *J. Econ. Entomol.* 61(2):477-483. Ref. Apr.15,1968. 421 J822
- 74712 GUERRA, A. A., OUYE, M. T., and BULLOCK, H. R. Effect of ultraviolet irradiation on egg hatch, subsequent larval development, and adult longevity of the tobacco budworm [*Heliothis virescens*] and the bollworm [*H. zea*]. *J. Econ. Entomol.* 61(2):541-542. Apr.15,1968. 421 J822
- 74713 HEINRICHS, E. A. Seasonal lipid content of bagworm [*Thyridopteryx* sp.] larvae. *J. Econ. Entomol.* 61(2):585. Apr.15,1968. 421 J822
- 74714 HSIAO, T. H., and FRAENKEL, G. The influence of nutrient chemicals on the feeding behavior of the Colorado potato beetle, *Leptinotarsa decemlineata* (Coleoptera: Chrysomelidae). *Entomol. Soc. Amer. Ann.* 61(1):44-54. Ref. Jan.1968. 420 En82
- 74715 JACOBSON, M., and HARDING, C. Insect sex attractants. IX. Chemical conversion of the sex attractant of the cabbage looper [*Trichoplusia ni*] to the sex pheromone of the fall armyworm [*Spodoptera frugiperda*]. *J. Econ. Entomol.* 61(2):394-396. Apr.15,1968. 421 J822
- 74716 JERATH, M. L. Parasites of sugarcane stem borers in Nigeria. *J. Econ. Entomol.* 61(2): 435-436. Apr.15,1968. 421 J822  
Parasites of Lepidoptera.
- 74717 KAUFMANN, T. Observations on the biology and behavior of the evergreen bagworm moth, *Thyridopteryx ephemeraeformis* (Lepidoptera: Psychidae). *Entomol. Soc. Amer. Ann.* 61(1): 38-44. Jan.1968. 420 En82
- 74718 KHARE, B. P., and MILLS, R. B. Development of Angoumois grain moths [*Sitotroga cerealella*] in kernels of wheat, sorghum, and corn affected by site of feeding. *J. Econ. Entomol.* 61(2):450-452. Apr.15,1968. 421 J822
- 74719 KLUN, J. A. Isolation of a sex pheromone of the European corn borer [*Ostrinia nubilalis*]. *J. Econ. Entomol.* 61(2):484-487. Apr.15,1968. 421 J822
- 74720 LINDE, R. J. VAN DER. Population dynamical investigations on land ecological principles of browntail moth [*Euproctis chrysorrhoea*], gypsy moth [*Lymantria dispar*] and annular caterpillar [*Malacosoma neustria*]. (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.5:635-649, map. Ref. 1967. 99.9 In82  
Forest pests in Netherlands.
- 74721 MANGUM, C. L., and RIDGWAY, W. O. Photo-static response of first-instar larvae of the pink bollworm [*Pectinophora gossypiella*] to light of different wavelengths. *J. Econ. Entomol.* 61(2):396-398. Apr.15,1968. 421 J822
- 74722 MCFADDEN, M. W. Observations on feeding and movement of tobacco hornworm larvae [*Manduca sexta*]. *J. Econ. Entomol.* 61(2):352-356. Apr.15,1968. 421 J822
- 74723 MERZHEEVSKAYA, O. I. The effect of temperature upon the development of *Agrotis exclamans* L. (Rus) *Zool Zh.* 47(2):254-260. Ref. Feb.1968. 410 R92  
English summary.
- 74724 MYERS, A. A. The diet of the *Hadena rivularis* Fab. (Lep. Hadeninae) group of species. *Entomologist [London]* 101(1257):35-36. Feb. 1968. 421 En8  
Restricted to the Caryophyllaceae.
- 74725 NELSON, D. R., and SUKKESTAD, D. R. Fatty acid composition of the diet and larvae and biosynthesis of fatty acids from  $^{14}\text{C}$ -acetate in the cabbage looper, *Trichoplusia ni*. *J. Insect Physiol.* 14(2):293-300. Ref. Feb.1968. 421 J825
- 74726 NESBITT, D. H., and ZIMMACK, H. L. Preliminary report of the effects of bacterial species upon the European corn borer [*Ostrinia nubilalis*]. *J. Econ. Entomol.* 61(2):462-464. Apr.15,1968. 421 J822  
*Escherichia coli* and *Serratia marcescens*.
- 74727 OSANAI, M. Tyrosinase activity in *Hestina japonica* larvae at the beginning of overwintering. (Ge) *J. Insect Physiol.* 14(2):261-267. Feb.1968. 421 J825  
English summary.
- 74728 PEARSON, F. R. A link with the past. *Entomologist [London]* 101(1257):42. Feb.1968. 421 En8  
Claude Rippon, lepidopterist.
- 74729 POLUAKOVA, R. V. Fall webworm. (Rus) *Zashch. Rast.* 4:50-51. 1968. 421 Z1  
Chiefly biology of *Hyphantria cunea*.
- 74730 PROCACCINI, D. J., and GYVES, M. T. Description and biometrics of variation in maculation pattern in *Papilio gallienus gallienus* Distant (Lepidoptera: Papilionidae). *Entomol. News [Philadelphia]* 79(4):102-108. Apr.1968. 421 En88
- 74731 PROKOPY, R. J. Parasites of the leaf rollers *Archips argyrospilus* and *A. griseus* in Connecticut. *J. Econ. Entomol.* 61(2):348-352. Ref. Apr.15,1968. 421 J822
- 74732 ROSENTHAL, J. D., and others. Influence of temperatures and light regimens on diapause of *Samia cynthia pryeri*. *J. Econ. Entomol.* 61(2):578-579. Apr.15,1968. 421 J822  
W. N. Sullivan, V. E. Adler, and J. U. Mc-Guire, joint authors.

- 74733 SCHAEFER, C. H. The relationship of the fatty acid composition of *Heliothis zea* larvae to that of its diet. *J. Insect Physiol.* 14(2):171-178. Ref. Feb.1968. 421 J825
- 74734 SCHAFER, J., GRAU, P., and TERRIERE, L. C. Temperature-induced wing malformation in alfalfa loopers [*Autographa californica*] and variegated cutworms [*Peridromia saucia*]. *J. Econ. Entomol.* 61(2):575-576. Apr.15,1968. 421 J822
- 74735 SEVASTOPULO, D. G. The genetics of East African Lepidoptera. IX. *Acraea encedon encedon* Linnaeus. *Entomologist [London]* 101 (1258):49-50. Mar.1968. 421 En8
- 74736 SIRO, L. A., and SHEVKUNOVA, V. S. Embryonal polyhedroses of cabbage owl moth. (Rus) *Zashch. Rast.* 2:53-54. 1968. 421 Z1  
Mamestra brassicae.
- 74737 SOLOMON, J. D. Gallery construction by the carpenterworm, *Prionoxystus robiniae*, in over-cup [*Quercus lyrata*] oak (Lepidoptera: Cossidae). *Entomol. Soc. Amer. Ann.* 61(1):72-74. Jan.1968. 420 En82  
Mississippi.
- 74738 STEVENSON, E. Carbohydrate metabolism in the flight muscle of the southern armyworm moth, *Prodenia eridania*. *J. Insect Physiol.* 14(2):179-198. Ref. Feb.1968. 421 J825
- 74739 SZOCS, J. Some unknown data concerning miners (Lepidoptera). *Acta Zool. [Budapest]* 14(1/2):225-231. Ref. 1968. 410 Ac85  
Biology.
- 74740 THYGESEN, T. Cutworms [Noctuidae]. Investigations on biology and control 1959-66. (Da) *Tidsskr. Planteavl* 71(4):429-443, map. Ref. 1968. 11 T439  
English summary.
- 74741 TOSHEVA-TSVETKOVA, TS. Study of the emergence of moths of hibernating *Laspeyresia funebrana*. (Bu) *Rast. Zashch.* 16(3):15-16. 1968. 423.92 So2
- 74742 VANDERZANT, E. S. Dietary requirements of the bollworm, *Heliothis zea* (Lepidoptera: Noctuidae), for lipids, choline, and inositol and the effect of fats and fatty acids on the composition of the body fat. *Entomol. Soc. Amer. Ann.* 61(1):120-125. Ref. Jan.1968. 420 En82
- 74743 VINSON, S. B. Source of a substance in *Heliothis virescens* (Lepidoptera: Noctuidae) that elicits a searching response in its habitual parasite *Cardiochiles nigriceps* (Hymenoptera: Braconidae). *Entomol. Soc. Amer. Ann.* 61(1):8-10. Jan.1968. 420 En82
- 74744 WILLIAMS, C. M. Ecdysone and ecdysone-analogues: their assay and action on diapausing pupae of the cynthia silkworm [*Samia cynthia*]. *Biol. Bull.* 134(2):344-355. Ref. Apr.1968. 448.8 B52  
Phytoecdysone and synthetic ecdysone.
- General Entomology  
Orthoptera
- 74745 ADIYODI, R. G., and ADIYODI, K. G. Ovary-inhibiting effect of extract of crab eyestalk on female American cockroaches. *Gen. Compar. Endocrinol.* 10(1):14-20. Ref. Feb.1968. 444.8 G82
- 74746 ANDERSON, R. L., and MUTCHMOR, J. A. Temperature acclimation and its influence on the electrical activity of the nervous system in three species of cockroaches. *J. Insect Physiol.* 14(2):243-251. Ref. Feb.1968. 421 J825  
*Periplaneta americana*, *Leucophaea maderae*, and *Blaberus craniifer*.
- 74747 ARONSON, J. N., FISH, J. R., and MUCKENTHALER, F. A. Lactic dehydrogenase isozymes in the grasshopper [*Melanoplus differentialis*]. *Compar. Biochem. Physiol.* 24(2):657-659. Ref. Feb.1968. 444.8 C73
- 74749 AWASTHI, V. B. The functional significance of the nervi corporis allati 1 and nervi corporis allati 2 in *Gryllobates sigillatus*. *J. Insect Physiol.* 14(2):301-304. Ref. Feb.1968. 421 J825
- 74749 BOADLE, M. C., and BLASCHKO, H. Cockroach [*Periplaneta americana*] amine oxidase: classification and substrate specificity. *Compar. Biochem. Physiol.* 25(1):129-138. Ref. Apr.1968. 444.8 C73
- 74750 CASSIER, P., and PAPILLON, M. Effects of Corpora allata implantations of the reproduction of grouped females of *Schistocerca gregaria* (Forsk.) and on the polymorphism of their offspring. (Fr) *Acad. Sci. C. R., Ser. D* 266 (10):1048-1051. Ref. Mar.4,1968. 505 P21
- 74751 CASSIER, P., and FAIN-MAUREL, M. A. Golgi apparatus origin and evolution of vacuolar bodies involved in the degeneration of molting glands in *Locusta migratoria migratorioides* (R. and F.). (Fr) *Acad. Sci. C. R., Ser. D* 266 (12):1290-1292. Mar.18,1968. 505 P21
- 74752 CASSIER, P., and FAIN-MAUREL, M. A. The presence of microtubules in the ergastoplasm and the perinuclear space of oenocytoids of *Locusta migratoria migratorioides* (R. and F.). (Fr) *Acad. Sci. C. R., Ser. B* 266(17):686-689. Ref. Feb.12,1968. 505 P21
- 74753 CAZAL, M., and GIRARDIE, A. Humoral control of water relations in *Locusta migratoria migratorioides*. (Fr) *J. Insect Physiol.* 14(5):655-668. Ref. May 1968. 421 J825  
English summary.
- 74754 CHERNYAKHOVSKII, M. E. Types of feeding and the structure of mandibles in different life forms of grasshoppers (Acridoidea). (Rus) *Zool Zh.* 47(2):238-248. Feb.1968. 410 R92  
English summary.
- 74755 CHUANG, T. F., and others. Cs<sup>137</sup> metabolism in *Blatta orientalis* at various temperatures. *Compar. Biochem. Physiol.* 24(3):997-1002. Ref. Mar.1968. 444.8 C73  
M. B. Snipes, C. S. Crawford, and M. L. Riedel, joint authors.
- 74756 EDNEY, E. B. The effect of water loss on the haemolymph of *Arenivaga* sp. and *Periplaneta americana*. *Compar. Biochem. Physiol.* 25(1):149-158. Ref. Apr.1968. 444.8 C73
- 74757 FARLEY, R. D., and CASE, J. F. Sensory modulation of ventilative pacemaker output in cockroach, *Periplaneta americana*. *J. Insect. Physiol.* 14(5):591-601. Ref. May 1968. 421 J825
- 74758 GAMEZ, R., and BLACK, L. M. Particle counts of wound tumor virus during its peak concentration in leafhoppers. *Virology* 34(3):444-451. Ref. Mar.1968. 448.8 V81
- 74759 JANDER, R., and BARRY, C. K. The phototactic push-pull-coupling between dorsal ocelli and compound eyes in the phototropotaxis of locusts and crickets (*Saltator*: *Locusta migratoria* and *Gryllus bimaculatus*). (Ge) *Z. Vergleichende Physiol.* 57(4):432-458. Ref. Jan.11,1968. 444.8 Z3  
English summary.
- 74760 KAUFMANN, T. A laboratory study of feeding habits of *Melanoplus differentialis* in Maryland (Orthoptera: Acrididae). *Entomol. Soc. Amer. Ann.* 61(1):173-180. Ref. Jan.1968. 420 En82
- 74761 LAPITSKII, V. P. Functional characteristics of cercal receptors of Orthoptera. (Rus) *Leningrad. Univ. Vestnik. Ser. Biol.* 1:129-135. 1968. 442.9 L542V  
English summary.  
*Gryllus domesticus*.
- 74762 LUDICKE, M., and FUCHS, H. J. The deposition of radioactive sulfur in the wings of Acrididae after application of radioactive sodium sulfate and radioactive sulfur-L-cystine solutions. (Ge) *Experientia* 24(3):291-292. Mar.15,1968. 475 Ex7  
English summary.  
Tested with *Psophus stridulus* and *Oedipoda coerulescens*.



- 74763 LUSCHER, M. Oocyte protection—a function of a corpus cardiacum hormone in the cockroach, *Nauphoeta cinerea*. *J. Insect. Physiol.* 14(5):685-688. May 1968. 421 J825
- 74764 MILLS, R. R., ANDROUNY, S., and FOX, F. R. Correlation of phenoloxidase activity with ecdysis and tanning hormone release in the American cockroach [*Periplaneta americana*]. *J. Insect. Physiol.* 14(5):603-611. Ref. May 1968 421 J825
- 74765 MURRAY, M. J. Fibre groups in the auditory nerve of the locust [*Locusta migratoria*]. *Nature* 218(5136):95-96. Apr. 6, 1968. 472 N21
- 74766 NIELSEN, D. J., and MILLS, R. R. Changes in electrophoretic properties of haemolymph and terminal oocyte proteins during vitellogenesis in the American cockroach [*Periplaneta americana*]. *J. Insect Physiol.* 14(2):163-170. Ref. Feb. 1968. 421 J825
- 74767 ROTH, L. M. Oothecae of the Blattaria. *Entomol. Soc. Amer. Ann.* 61(1):83-111. Ref. Jan. 1968. 420 En82  
Includes illustrations.
- 74768 ROTH, L. M. Ovarioles of the Blattaria. *Entomol. Soc. Amer. Ann.* 61(1):132-140. Ref. Jan. 1968. 420 En82
- 74769 ROUNDS, H. D. KC1-induced "spreading depression" and ventilation in the cockroach [*Periplaneta americana*]. *Compar. Biochem. Physiol.* 24(2):653-655. Ref. Feb. 1968. 444.8 C73
- 74770 SCHAEFER, C. W. Inhibition by acetylcholine of Malpighian tubule muscle of the cockroach *Periplaneta americana*. *Entomol. Soc. Amer. Ann.* 61(1):226-227. Ref. Jan. 1968. 420 En82
- 74771 SINOIR, Y., BOULAY, C., and LE BERRE, J. R. Study of the sensory apparatus of labrum of *Locusta migratoria migratorioides* larvae (F. and R.). (Fr) *Acad. Sci. C. R., Ser. D*, 266(14): 1505-1507. Ref. Apr. 1, 1968. 505 P21
- 74772 STOBART, R. H. Ion movements and water transport in the rectum of the locust *Schistocerca gregaria*. *J. Insect Physiol.* 14(2):269-275. Ref. Feb. 1968. 421 J825
- 74773 WALDRON, I. The mechanism of coupling of the locust [*Schistocerca gregaria*] flight oscillator to oscillatory inputs. *Z. Vergleichende Physiol.* 57(4):331-347. Ref. Jan. 11, 1968. 444.8 Z3
- 74774 WAREHAM, A. C., DUNCAN, C. J., and BOWLER, K. Permeability and excitation of insect muscle [*Periplaneta americana*]. *Nature* 217 (5132):970-972. Ref. Mar. 9, 1968. 472 N21
- 74775 WHARTON, D. R. A., LOLA, J. E., and WHARTON, M. L. Growth factors and population density in the American cockroach, *Periplaneta americana*. (Fr) *J. Insect Physiol.* 14(5): 637-653. Ref. May 1968. 421 J825  
Physical contact one factor.
- 74776 WILSON, D. M. The flight-control system of the locust. *Sci. Amer.* 218(5):83-90. May 1968. 470 Sci25
- 74777 ABUSHAMA, F. T. The role of chemical stimuli in the feeding behaviour of termites. *Roy. Entomol. Soc. London. Proc. Ser. A, Gen. Entomol.* 42(4/6):77-82. June 27, 1967. 420 L84Pa  
*Zootermopsis angusticollis* and *Kaloterms jouteli*.
- 74778 AFFELTRANGER, C. E. Feeding by *Reticulitermes* spp. on radiation-processed wood-plastic combinations. *J. Econ. Entomol.* 61(2): 398-401. Apr. 15, 1968. 421 J822
- 74779 CASSAGNAU, P., JUBERTHIE, C., and RAYNAL, G. Structure of the nerves, neurosecretion and endocrine organs of the order Collembola. III. The cerebral complex of *Symphyleona*. (Fr) *Gen. Compar. Endocrinol.* 10(1):61-69. Feb. 1968. 444.8 J82  
English summary.  
*Boulettiella radula* and *Sminthurus viridis*.
- 74780 COOPER, J. E. Some notes on fleas (Siphonaptera) of domestic animals in northern Tanzania (East Africa). *Entomologist [London]* 101(1257): 43-45. Feb. 1968. 421 En8  
Biology.
- 74781 KINZELBACH, R. K. Mycosis of male puparia of *Xenos vesparum* Rosso, 1794 (Strepsiptera, Insecta). (Ge) *Z. Parasitenk.* 30(2):113-116. Mar. 5, 1968. 442.8 Z33F  
English summary.  
Parasite of *Polistes gallicus*; fungus probably *Penicillium* sp.
- 74782 KRISHNA, S. S., and SINGH, N. B. Sugar-dye movement through the alimentary canal of *Odontotermes obesus* (Isoptera: Termitidae). *Entomol. Soc. Amer. Ann.* 61(1):230. Jan. 1968. 420 En82
- 74783 LUDWIG, H. W., and THIEMES, M. Rearing the hog louse *Haematopinus suis* on mice. (Ge) *Z. Parasitenk.* 30(2):176-178. Mar. 5, 1968. 442.8 Z33F  
English summary.
- 74784 MALPUS, C. M. Fatigue-dependent facilitation of the slow skeletal muscle response of dragonfly [*Aeschna*] nymphs. *Compar. Biochem. Physiol.* 25(2):739-742. May 1968. 444.8 C73
- 74785 PEARSON, W. D., and FRANKLIN, D. R. Some factors affecting drift rates of Baetis and Simuliidae in a large river. *Ecology* 49(1): 75-81. Ref. Winter 1968. 410 Ec7  
Includes light and temperature.
- 74786 SAMARINA, G. P., ALEKSEEV, A. N., and SHIRANOVICH, P. I. The study of fertility of rat fleas (*Xenopsylla cheopis* Roths. and *Ceratophyllus fasciatus* Bosc.) by feeding them on different animals. (Rus) *Zool. Zh.* 47(2): 261-268. Ref. Feb. 1968. 410 R92  
English summary.
- 74787 WATERS, T. F. Diurnal periodicity in the drift of a day active stream invertebrate [*Oligophlebodes sigma*]. *Ecology* 49(1):152-153. Winter 1968. 410 Ec7

## TAXONOMIC AND GEOGRAPHIC ENTOMOLOGY

- 74788 ADEYEMI, A. O. Storage pests of cereals (maize, millet, guinea corn) and their control in Nigeria. *Sols Afr.* 12(2/3):159-166. Ref. Apr./Dec. 1967. 56.8 So4
- 74789 ALLEN, A. A. Nomenclature and common sense. *Entomol. Rec. Variation* 80(3):73-80. Mar. 1968. 421 En89  
Criticism of the International Code of Zoological Nomenclature.
- 74790 ARRU, G. M. Resistance to insects in poplars grown in Italy. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v. 3:861-866. Ref. 1967. 99.9 In82
- 74791 COWAN, C. F. Any number can join;—BUT! *Entomol. Red. J. Variation* 80(4):109-112. Apr. 1968. 421 En89  
Nomenclature, Linnaeus, and the International Code of Zoological Nomenclature.
- 74792 HARTSTACK, A. W., HOLLINGSWORTH, J. P., and LINDQUIST, D. A. A technique for measuring trapping efficiency of electric insect traps. *J. Econ. Entomol.* 61(2):546-552. Ref. Apr. 15, 1968. 421 J822
- 74793 HOLLINGSWORTH, J. P., HARTSACK, A. W., and LINDQUIST, D. A. Influence of near-ultra-violet output of attractant lamps on catches of insects by light traps. *J. Econ. Entomol.* 61(2): 515-521. Apr. 15, 1968. 421 J822
- 74794 KUDLER, J. Problem of forest insect defoliators in Ghana. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v. 5:618-628. Ref. 1967. 99.9 In82

General Entomology  
Smaller Orders

- 74777 ABUSHAMA, F. T. The role of chemical stimuli in the feeding behaviour of termites. *Roy. Entomol. Soc. London. Proc. Ser. A, Gen. Entomol.* 42(4/6):77-82. June 27, 1967. 420 L84Pa  
*Zootermopsis angusticollis* and *Kaloterms jouteli*.
- 74778 AFFELTRANGER, C. E. Feeding by *Reticulitermes* spp. on radiation-processed wood-plastic combinations. *J. Econ. Entomol.* 61(2): 398-401. Apr. 15, 1968. 421 J822

- 74795 KURCZEWSKI, F. E., and BREZNER, J. A use for the densitometer in insect taxonomy. *Entomol. Soc. Amer. Ann.* 61(1):230-232. Jan. 1968. 420 En82
- 74796 STUBBS, A. E. Geology as an ecological factor in the distribution of insects. *Entomol. Rec. Variation* 80(3):80-83. (Concl.) Mar. 1968. 421 En89
- 74797 TAYLOR, J. S. Insects at light: Hilton, Natal. *Entomol. Rec. J. Variation* 80(4):93-96. Apr. 1968. 421 En89
- 74798 WILDBOLZ, T. Sampling branches in fruit culture, 1967-68. (Ge) Schweiz. Z. Obst-Weinbau 104(4):77-80, map. Feb. 17, 1968. 80 Sch9  
For insect pests.
- 74799 YORK, G. T. Insect pests of cereal crops in west Africa. *Sols Afr.* 12(2/3):145-151. Apr./Dec. 1967. 56.8 So4
- 74800 ZAHL, P. A. Nature's year in Pleasant Valley. *Nat. Geogr.* 133(4):488-525, map. Apr. 1968. 470 N213  
Survey of insects and flora in Maryland.

Taxonomic and Geographic Entomology  
Arachnida, Myriapoda, etc.

- 74801 COSTANTINO, G. *Aculus pelekassi*, citrus mite. (It) *Ital. Agr.* 105(1):87-97. Ref. Jan. 1968. 16 It1
- 74802 CRABILL, R. E. Concerning the true identities of *Gosiphilus* and *Chomatobius*, with re-description of the latter's type-species (*Chilopoda: Geophilomorpha Himantariidae*). *Entomol. News* [Philadelphia] 79(4):108-112. Apr. 1968. 421 En88
- 74803 FEDYUSHIN, A. V. A finding of the Kirghizian "Black death" spider [*Latrodectus tredecimguttatus* Ross] in Omsk. (Rus) *Zool. Zh.* 47(2):296-297. Feb. 1968. 410 R92  
English summary.
- 74804 GRISHINA, L. G. A new species of the oribatid mite (*Perlohmannia altaica* sp. n.) from Altai. (Rus) *Zool. Zh.* 47(2):297-298. Feb. 1968. 410 R92
- 74805 HOOGSTRAAL, H., and PARRISH, D. W. Studies on Southeast Asian *Haemaphysalis* ticks (*Ixodoidea, Ixodidae*); H. (*Kaiseriana*) *luzonensis* sp. n. from Philippine deer and boars. *J. Parasitol.* 54(2):402-410. Apr. 1968. 448.8 J824
- 74806 JORGENSEN, C. D. Mites of *Crataegus* and *Amelanchier* in Hood River Valley, Oregon. *J. Econ. Entomol.* 61(2):558-562. Ref. Apr. 15, 1968. 421 J822  
Population sampling.
- 74807 KLYUSHKINA, E. A. Distribution and biology of tick *Rhipicephalus sanguineus* Latr. in the Crimea. (Rus) *Med. Parazitol. Parazitarn. Bolezni* 37(1):46-50. Ref. Jan./Feb. 1968. 448.8 M469  
English summary.
- 74808 LEVI, H. W. The spider family *Hadrotarsidae* and the genus *Hadrotarsus*. *Amer. Microscop. Soc. Trans.* 87(2):141-145. Ref. Apr. 1968. 440.9 Am33
- 74809 MAHUNKA, S. The scientific results of the Hungarian Soil Zoological Expedition to South America, 4 Acari: *Scutacaridae*. I. A survey of the scutacarid fauna of Chile. *Acta Zool. [Budapest]* 14(1/2):139-166. 1968. 410 Ac85  
Includes n. spp. in *Pygmodispus*, *Imparipes*, *Heterodispus*, and *Scutacarus*.
- 74810 MCGINTY, M. M., and HIGGINS, R. P. Ontogenetic variation of taxonomic characters of two marine tardigrades with the description of *Batillipes bullacaudatus* n. sp. *Amer. Microscop. Soc. Trans.* 87(2):252-262. Ref. Apr. 1968. 440.9 Am33

- 74811 MOSS, W. W., OLIVER, J. H., and NELSON, B. C. Karyotypes and developmental stages of *Harpyrhynchus novoplumaris* sp. n. (Acari, Cheyletoidea *Harpyrhynchidae*), a parasite of North American birds. *J. Parasitol.* 54(2):377-392. Ref. Apr. 1968. 448.8 J824
- 74812 NACHEV, P. A study on the eriophyid acarids in Bulgaria. (Bu) *Rast. Zashch.* 2:20-24. 1968. 423.92 So2  
A list of fruit pests.
- 74813 SEYD, E. L. Studies on the moss mites of *Snowdonia* (Acari: Oribatei, I. Moel Hebog). *Entomologist [London]* 101(1257):37-41. Ref. Feb. 1968. 421 En8  
Wales.
- 74814 THOMPSON, R. P. A survey of ectoparasite infestations on poultry flocks in Nova Scotia and Prince Edward Island. *Can. Entomol.* 100(4):402-407. Apr. 1968. 421 C16  
Lice, mites, and fleas.
- 74815 YOUNG, W. C. New species of *Midea*, *Piona*, and *Sperchon* (*Hydracarina*) from Colorado. *Amer. Microscop. Soc. Trans.* 87(2):165-177. Apr. 1968. 440.9 Am33

Taxonomic and Geographic Entomology  
Coleoptera

- 74816 BOTTIMER, L. J. On the location of types of five species of *Bruchidae* with notes on early American literature of *Acanthoscelides obtectus*. *Can. Entomol.* 100(3):284-289. Ref. Mar. 1968. 421 C16
- 74817 BURNS, D. P., and GIBSON, L. P. The leaf-mining weevil [*Odontopus calceatus*] of yellow-poplar [*Liriodendron tulipifera*]. *Can. Entomol.* 100(4):421-429. Apr. 1968. 421 C16  
Distribution, biology, and life cycle.
- 74818 CAMPBELL, J. M. A revision of the New World Micropeplinae (Coleoptera: Staphylinidae) with a rearrangement of the world species. *Can. Entomol.* 100(3):225-267, map. Ref. Mar. 1968. 421 C16  
Includes n. spp. in *Micropeplus* and *Peplomicrocrus* (raised to generic status).
- 74819 CARPEZÁ, G. *Leptura scutellata* F. (f. typ.) in the forest of Reta (Aisne). (Fr) *Entomologiste [Paris]* 24(1):22-23. Feb. 1968. 421 En814
- 74820 CIESLA, W. M., and BELL, J. C. The pine engraver, *Ips pini* (Coleoptera: Scolytidae), in the Southern Appalachian Mountains. *Entomol. Soc. Amer. Ann.* 61(1):235-236, map. Jan. 1968. 420 En82
- 74821 CROWSON, R. A. Concerning immunotaxonomy of Coleoptera. *Syst. Zool.* 17(1):95-97. Mar. 1968. 410 Sy8  
Reply by J. E. Butler and C. A. Leone, p. 97-98.
- 74822 ENDRODY-YOUNGA, S. Monograph of Palearctic species of the *Cybocephalidae* family (Coleoptera, *Clavicornia*). *Acta Zool. [Budapest]* 14(1/2):27-115. 1968. 410 Ac85  
Includes n. spp. in *Cybocephalus*, *Hierronius* n. g., and *Pastillodes* n. g.
- 74823 FYE, R. E. Populations of boll weevil [*Anthonomus grandis*] in selected fields in Arizona in 1965 and 1966. *J. Econ. Entomol.* 61(2):377-380, map. Apr. 15, 1968. 421 J822
- 74824 JOHNSON, C., and AUBROOK, E. W. *Oxyptoda nigricornis* Motschulsky (Col., Staphylinidae) new to Britain. *Entomologist [London]* 101(1258):71-72. Mar. 1968. 421 En8
- 74825 JOHNSON, C. Six species of Coleoptera new to the British list. *Entomologist [London]* 101(1257):28-34. Feb. 1968. 421 En8
- 74826 JOHNSON, C. Two new British species of Coleoptera from Yorkshire. *Entomologist [London]* 101(1258):64-66. Mar. 1968. 421 En8  
*Ptiliolum sahlbergi* and *Atheta paracrassicornis*.



- 74827 PETROVITZ, R. Five new Trichiorhyssemus species from the Oriental Region (Aphodiinae, Scarabaeidae, Coleoptera). (Ge) Entomol. Nachrichtenbl. 15(1/2):6-12. Jan/Feb.1968. QL461.E55
- 74829 PETROVITZ, R. A new Ochodaeus species from Greece (Ochodaeinae, Scarabaeidae, Coleoptera). (Ge) Entomol. Nachrichtenbl. 15(1/2):15-13. QL461.E55  
Ochodaeus graecus n. sp.
- 74829 RABIL, J. Oh, that Gresigne! 2. (Fr) Entomologiste [Paris] 24(1):8-15. Feb.1968. 421 En814  
Collecting Coleoptera in France.
- 74830 SCHULER, L. The importance of female sex organs in the Coleoptera, Carabidae. (Fr) Entomologiste [Paris] 24(1):16-22. Feb.1968. 421 En814  
In taxonomy.
- 74831 SOREL, C. A propos Cicindela silvicola Latr. and Aepopsis robini Lab. (Fr) Entomologiste [Paris] 24(1):15-16. Feb.1968. 421 En814  
Found in France.
- 74832 SPANGLER, P. J. A new Psephenus [P. oresbius n. sp.] and its larva from Mexico (Coleoptera: Psephenidae). Entomol. News [Philadelphia] 79(4):91-97. Apr.1968. 421 En88
- 74833 THOMAS, H. A. A description of the pupa of the pales weevil Hylobius pales, and a method for identifying its sex. Can. Entomol. 100(4): 434-437. Apr.1968. 421 C16
- 74834 TIBERGHEN, G. Third note concerning some interesting Coleoptera or some localized in the Pyrenees and adjacent regions. (Fr) Entomologiste [Paris] 24(1):3-8. Feb.1968. 421 En814
- 74835 WOOD, F. E. The taxonomic status of Dineutus serrulatus and Dineutus analis in North America (Gyrinidae: Coleoptera). U. S. Nat. Mus. Proc. 124(3646), 9 p. 1968. 500 Sm65P
- Taxonomic and Geographic Entomology  
Diptera
- 74836 ALBU, P. Pseudosmittia mathildae sp. n. (Diptera, Chironomidae). Ann. Zool. Fenn. 5(1):4-5. 1968. 410 An712
- 74837 BECK, W. M., and BECK, E. C. The concept of genus in the family Chironomidae. Ann. Zool. Fenn. 5(1):14-16. Ref. 1968. 410 An712
- 74839 CARPENTER, S. J., and WOMELDORF, D. J. Distribution and ecology of Aedes bicristatus Thurman and Winkler. Calif. Vector Views 25(4):37-41, map. Apr.1968. 449.8 C12
- 74839 CHAN, K. L. Observations on Toxorhynchites splendens (Wiedemann) (Diptera: Culicidae) in Singapore. Mosquito News 28(1):91-95. Ref. Mar.1968. 421 M85
- 74840 DEJOUX, C. Lake Chad and the Chironomidae of its eastern area. (Fr) Ann. Zool. Fenn. 5(1):27-32, map. Ref. 1968. 410 An712
- 74841 FITTKAU, E. J. The scope of genera of the Chironomidae. (Ge) Ann. Zool. Fenn. 5(1):33-36. Ref. 1968. 410 An712
- 74842 FRYVOGEL, T. A., and KHAULE, P. M. Report on a limited anopheline survey at Ifakara, south eastern Tanzania. Acta Trop. 25(1):17-28, map. Ref. 1968. 475 Ac8  
Anopheles gambiae and A. funestus.
- 74843 GAGNE, R. J. A taxonomic revision of the genus Asteromyia (Diptera: Cecidomyiidae). Entomol. Soc. Amer. Misc. Publ. 6(1), 40 p. Ref. Apr.1968. 420 En82M  
Includes A. euthamiae n. sp.
- 74844 HART, J. W. Occurrence of Toxorhynchites rutilus septentrionalis (Dyar & Knab) in Indiana. Mosquito News 28(1):118. Mar.1968. 421 M85
- 74845 KUGLER, J., and WOOL, D. Chironomidae (Diptera) from the Hula Nature Preserve, Israel. Ann. Zool. Fenn. 5(1):76-83, map. Ref. 1968. 410 An712
- 74846 OLANDER, R., and PALMEN, E. Taxonomy, ecology and behaviour of the northern Baltic Clunio marinus Halid. (Dipt., Chironomidae). Ann. Zool. Fenn. 5(1):97-110, map. Ref. 1968. 410 An712
- 74847 PARMENTER, L. Flies over the Atlantic. Entomol. Rec. Variation 80(3):85. Mar.1968. 421 En89  
Scaeva pyrastris and Syrphus corollae taken northwest of Spain.
- 74849 PARMENTER, L. Rhamphomyia (Amydromeura) hirsutipes Collin in Sussex. Entomol. Rec. J. Variation 80(4):120. Apr.1968. 421 En89
- 74849 REISS, F. Distribution of lacustrine Chironomidae (Diptera) in the Alps (Ge) Ann. Zool. Fenn. 5(1):119-125. Ref. 1968. 410 An712
- 74850 SCHLEE, D. Phylogenetic studies on Chironomidae (Dipt.), with special reference to the Corynoneura group. Ann. Zool. Fenn. 5(1):130-138. Ref. 1968. 410 An712
- 74851 SCHLEE, D. Preparation of Chironomidae. II. (Ge) Ann. Zool. Fenn. 5(1):127-129. 1968. 410 An712
- 74852 SMITH, L. W., and ENNS, W. R. A list of Missouri mosquitoes. Mosquito News 28(1):50-51. Mar.1968. 421 M85
- 74853 STONE, A., and HAIR, J. A. A new Culex (Melanoconion) from Florida (Diptera, Culicidae). Mosquito News 28(1):39-41. Mar.1968. 421 M85  
Culex cedecei n. sp.
- 74854 WALLACE, C. H. Rhamphomyia (Amydromeura) hirsutipes (Collin) (Dip. Empididae) in Shropshire. Entomol. Rec. J. Variation 80(4): 119-120. Apr.1968. 421 En89
- 74855 WILLS, H. J. Diptera from Monks Wood National Nature Reserve. Entomol. Rec. J. Variation 80(4):115-119. (Cont.) Apr.1968. 421 En89
- 74856 WULKER, W., SUBLETTE, J. E., and MARTIN, J. Cytotaxonomy of North American Chironomus species. (Ge) Ann. Zool. Fenn. 5(1):155-158. Ref. 1968. 410 An712
- Taxonomic and Geographic Entomology  
Hemiptera (Heteroptera and Homoptera)
- 74857 BENEDEK, P., and JASZAI, V. E. On some species of the genus Tuponia Reuter, 1875 (Heteroptera, Miridae, Phyllinae). Acta Zool [Budapest] 14(1/2):7-13. 1968. 410 Ac85  
Includes n. spp.
- 74859 DUBOVSKII, G. K. New species of leafhopper (Cicadellidae, Melicharellinae) from Uzbekistan. (Rus) Zool. Zh. 47(2):298-301. Feb. 1968. 410 R92  
In Paramacroceps, Symphypygma, and Melicharella.
- 74859 EMEĻ'YANOV, A. F. Notes on the tribe Stirelini (Homoptera, Cicadellidae). (Rus) Zool. Zh. 47(2):249-253. Feb.1968. 410 R92  
English summary.  
Includes Stirellus aristidae and Nephrotettix africanus n. spp.
- 74860 LEONARD, M. D., and BURBUTIS, P. P. The aphids or plant lice of Delaware, (Homoptera: Aphididae). Del. Agr. Exp. Sta. Bull. 363, 18 p. Ref. June 1967. 100 D37S
- 74861 RICHARDS, W. R. Glyphina longiseta, a new alder-infesting aphid from Nova Scotia (Homoptera: Aphididae). Can. Entomol. 100(3):330-333. Mar.1968. 421 C16
- 74862 RICHARDS, W. R. New combination and redescription of Monellia californica with a key to the species of Monelliopsis (Homoptera: Aphididae). Can. Entomol. 100(4):437-440. Apr. 1968. 421 C16  
Transferred to Monelliopsis.

- 74863 ROBINSON, A. G. Two new species of aphids (Homoptera: Aphididae) from Canada. Can. Entomol. 100(3):275-279. Mar.1968. 421 C16  
Macrosiphum hamiltoni n. sp. and Kakimia canadensis n. sp.
- 74864 SMITH, C. F., and DILLERY, D. G. The genus Drepanaphis Del Guercio (Homoptera: Aphididae). Entomol. Soc. Amer. Ann. 61(1):185-204. Ref. Jan.1968. 420 En82  
Includes n. spp.
- 74865 U. S. AGRICULTURAL RESEARCH SERV. General catalogue of the Homoptera. Fascicle VI. Cicadelloidea. 10. Euscelidae. I-II, by Z. P. Metcalf. Washington, 1967. 2074 p.  
431 H78Gc  
Contribution from North Carolina Agricultural Experiment Station.
- 74866 U. S. AGRICULTURAL RESEARCH SERV. General catalogue of the Homoptera. Fascicle VI. Cicadelloidea. 10. Euscelidae. III, by Z. P. Metcalf. Washington, 1967. p.2075-2695.  
431 H78Gc  
Contribution from North Carolina Agricultural Experiment Station.
- 74867 WOOLDRIDGE, A. W., and HARRISON, F. P. Effects of soil fertility on abundance of green peach aphids [Myzus persicae] on Maryland tobacco. J. Econ. Entomol. 61(2):387-391. Apr.15,1968. 421 J822
- Taxonomic and Geographic Entomology  
Hymenoptera
- 74868 ALLEN, H. W. A monographic study of the genus Paratiphia. Amer. Entomol. Soc. Trans. 94(1):25-109, map. Ref. Mar.1968. 420 P53  
Includes n. spp.
- 74869 DREA, J. J. A new species of Microctonus [M. colesi] (Hymenoptera: Braconidae: parasitizing the alfalfa weevil [Hypera postica]). News [Philadelphia] 79(4):97-102. Apr.1968. 421 En88
- 74870 MANI, E., and STALDER, L. The larva of Ametastegia glabrata Fall. as pest of fruit. (Ge) Schweiz. Z. Obst- Weinbau 104(4):85-87. Feb.17,1968. 80 Sch9  
Switzerland.
- 74871 MOCZAR, L. Three new species of Cnephia (Hymenoptera). Acta Zool. [Budapest] 14 (1/2):167-173. 1968. 410 Ac85
- 74872 PASFIELD, G. Argentine ants [Iridomyrmex humilis]. Australian Natur. Hist. 16(1):12-15. Mar.1968. 475 Au7
- 74873 SZELENYI, G. On some new species of Tetramesa Walk., with notes on their parasites (Hymenoptera, Chalcidoidea). Acta Zool. [Budapest] 14(1/2):213-224. 1968. 410 Ac85  
Bruchophagus gallicola n. sp. as parasite.
- 74874 UNDERWOOD, G. R., and TITUS, F. A. Description and seasonal history of a leaf miner on poplar Messa populifoliella (Hymenoptera: Tenthredinidae). Can. Entomol. 100(4):407-411. Apr.1968. 421 C16  
Populus eugenei pest.
- 74875 WHEELER, G. C., and WHEELER, J. The ant larvae of the subfamily Formicinae (Hymenoptera: Formicidae). Entomol. Soc. Amer. Ann. (sup.)61(1):205-222. Ref. Jan.1968. 420 En82
- Taxonomic and Geographic Entomology  
Lepidoptera
- 74876 BRUCE, C. G. In search of Autographa gracilis Lempke. Entomol. Rec. Variation 80(3):83-84. Mar.1968. 421 En89
- 74877 CHALMERS-HUNT, J. M. Abundance of the larvae of Bedellia sommentella Zell. (Lep. Tineina) in 1967. Entomol. Rec. Variation 80 (3):85. Mar.1968. 421 En89
- 74878 CHALMERS-HUNT, J. M. The butterflies and moths of Kent: A critical account. II. Entomol. Rec. Variation 80(3,sup.):377-(380). (Cont.) Mar.1968. 421 En89
- 74879 CHALMERS-HUNT, J. M. Mompha conturbatella Hubn. (Lep. Tineina) in Suffolk. Entomol. Rec. Variation 80(3):85. Mar.1968. 421 En89
- 74880 CLARKE, J. F. G. The correct name for the Mimosa webworm (Lepidoptera: Glyphipterygidae). Entomol. Soc. Amer. Ann. 61(1):228-229, map. Jan.1968. 420 En82  
Homadaula anisocentra Meyrick.
- 74881 COATES, D. L. Lepidoptera from the Stirling area. Entomol. Rec. J. Variation 80(4):104-109. (Cont.) Apr.1968. 421 En89  
Scotland.
- 74882 COWAN, C. F. A note on Eooxylides tharis distanti Riley (Lepidoptera—Lycaenidae). Entomologist [London] 101(1258):51. Mar.1968. 421 En8
- 74883 DICKSON, C. G. A further new species of the Phasis wallengrenii (Trimen) complex (Lepidoptera: Lycaenidae). Entomol. Rec. J. Variation 80(4):89-92. Apr.1968. 421 En89  
Phasis macmasteri n. sp. from the Republic of South Africa.
- 74884 DUDDINGTON, J. H. The death's head hawk-moth (Acherontia atropos). Entomologist [London] 101(1258):72. Mar.1968. 421 En8  
In Lincolnshire.
- 74885 DUDDINGTON, J. H. Enargia paleacea (Lep.) extension of range in Lincolnshire. Entomologist [London] 101(1258):50. Mar.1968. 421 En8
- 74886 GOZMANY, L. A. Some tineid moths of the Ethiopian Region in the collections of the British Museum (Nat. Hist.). I. Acta Zool. [Budapest] 14(1/2):117-138. 1968. 410 Ac85  
Includes n. spp. in Ceratophaga, Perissomastix, Hyperbola, Episcardia, and Etnodona.
- 74887 HARDICK, D. F. Three new Californian species of Euxoa (Lepidoptera: Noctuidae) belonging to the westernmanni group. Can. Entomol. 100 (3):268-274. Mar.1968. 421 C16  
Euxoa cryptica, E. austrina, and E. juliae n. spp.
- 74888 HARPAP, G. W. Inverness-shire in 1967. Entomol. Rec. J. Variation 80(4):100-102. Apr.1968. 421 En89  
Lepidoptera.
- 74889 HOWAT, I. Quest for exotic rarities. Entomol. Rec. Variation 80(3):67-69. Mar.1968. 421 En89  
Papilio homerus and P. marsellinus in Jamaica.
- 74890 JOHNSON, J. H. Lepidoptera in north-east Derbyshire in 1967. Entomol. Rec. J. Variation 80(4):112-114. (Cont.) Apr.1968. 421 En89  
Collecting.
- 74891 MACKAY, M. R. About lepidopterous immatures. Can. Entomol. 100(4):337-341. Ref. Apr.1968. 421 C16  
Plea for more interest in their study for purpose of taxonomy and morphology.
- 74892 MASTERS, J. H. Euphydras phaeton in the Ozarks (Lepidoptera: Nymphalidae). Entomol. News [Philadelphia] 79(4):85-91, map. Ref. Apr.1968. 421 En88
- 74893 MUNROE, E. New Pyralidae (Lepidoptera) from the Papuan Region. II. Can. Entomol. 100(4):394-401. Apr.1968. 421 C16  
New spp. in Haritala, Aphytoceros, and Talanga from New Guinea.
- 74894 MUNROE, E. New species of Apilocrocis with a key to known species (Lepidoptera: Pyralidae). Can. Entomol. 100(4):441-448. Apr.1968. 421 C16  
4 new spp.
- 74895 REISS, H. New subspecies in the genus Zygaena Fabricius (Lep., Zygaenidae). Entomol. Rec. J. Variation 80(4):96-100. Ref. Apr.1968. 421 En89  
Zygaena cynarae slovakica n. subsp.
- 74896 ROBINSON, G. S. Lepidoptera at Heversham—addenda et corrigenda. Entomol. Rec. J. Variation 80(4):120. Apr.1968. 421 En89



- 74897 SEVASTOPULO, D. G. Observations on the larvae of *Hippotion celerio* L. (Lepid., Sphingidae) in Tanzania. *Entomologist [London]* 101 (1258):50. Mar.1968. 421 En8
- 74898 SIGGS, L. W. New Forest mercury vapour light records for 1967. *Entomol. Rec. J. Variation* 80(4):92-93. Apr.1968. 421 En89 Lepidoptera.
- 74899 SILCOCKS, T. B. Early appearances in Somerset. *Entomol. Rec. Variation* 80(3):66. Mar. 1968. 421 En89 Lepidoptera in January 1968.
- 74900 WARREN, B. C. S. On the Nearctic species of the bryoniae and oleracea groups of the genus *Pieris*. *Entomol. Rec. Variation* 80(3):61-66. Mar.1968. 421 En89

Taxonomic and Geographic Entomology  
Orthoptera

- 74901 BALAZUC, J., and REVEILLET, P. New captures of *Saga pedo* Pall. (=serrata F.) in the Rhone Basin (Orthoptera, Ensifera, Tettigonidae). (Fr) *Entomologiste [Paris]* 24(1):1-3. Feb.1968. 421 En814
- 74902 GOODWIN, J. T., and POWDERS, V. N. The Gryllotalpidae and Tridactylidae (Orthoptera) of Tennessee. *Tenn. Acad. Sci. J.* 43(1):28-29. Jan.1968. 500 T25A
- 74903 IVANOVA, I. V. Grasshoppers in the Krasnoyarsk Territory. (Rus) *Zashch. Rast.* 4:48-49. 1968. 421 Z1

Taxonomic and Geographic Entomology  
Smaller Orders

- 74904 ASPOCK, H., and ASPOCK, U. Two additional new species of the genus *Dilar* Rambur (Neuroptera, Planipennia) from Asia (preliminary note). (Ge) *Entomol. Nachrichtenbl.* 5(1/2):3-6. Jan/Feb.1968. QL461.E55  
*Dilar geometroides* and *D. dochaner* n. spp.
- 74905 BILEK, A. On softening Odonata and fat-bodied Lepidoptera. (Ge) *Entomol. Z.* 78(7):77-78. Apr.1,1968. 421 En85  
Equipment for preservation.
- 74906 GANGOLA, C. Studies on the Dermaptera of Kumaon Hills. II. Carcinophoridae and Labiduridae. *Entomologist [London]* 101(1258):52-59. Mar.1968. 421 En8  
Includes n. spp. in *Euborellia* and *Labidura*.
- 74907 GOODWIN, J. T. Additions to the list of Odonata from Tennessee. *Tenn. Acad. Sci. J.* 43(1):27. Jan.1968. 500 T25A
- 74908 HAJELA, K. P., and TANDAN, B. K. Two new Mallophaga species of the genus *Ardeicola* Clay, 1935 (Ischnocera: Philopteridae). *Entomol. Soc. Amer. Ann.* 61(1):146-151. Jan.1968. 420 En82  
*Ardeicola nippon* and *A. emersoni* n. spp.
- 74909 MARRIOTT, R. W. Some small-mammal and bird fleas from north-east Norway. *Entomologist [London]* 101(1257):25-27. Feb.1968. 421 En8
- 74910 NEBEKER, A. V., and GAUFIN, A. R. The winter stoneflies of the Rocky Mountains (Plecoptera, Capniidae). *Amer. Entomol. Soc. Trans.* 94(1):1-24. Ref. Mar.1968. 420 P53
- 74911 OHM, P. Preliminary description of a new European Aleuropteryx species (Neuroptera, Coniopterygidae). (Ge) *Entomol. Nachrichtenbl.* 15(1/2):12-13. Jan./Feb.1968. QL461.E55  
*Aleuropteryx juniperi* n. sp.
- 74912 SIMON, H. R. A red springtail [*Neamura aurantiaca*] in the southern Calcareous Alps (Collembola). (Ge) *Entomol. Z.* 78(7):73-77. Apr.1,1968. 421 En85  
Austria.
- 74913 VESELINOV, D. List of thrips, wheat pests in Bulgaria. (Bu) *Rast. Zashch.* 16(3):16-17. 1968. 423.92 So2

APICULTURE AND APIS MELLIFERA

- 74914 BANKER, R. A two-queen method used in commercial operations. *Amer. Bee J.* 108(5):180-182. May 1968. 424.8 Am3
- 74915 CAILLAS, A. Bee puncture in the service of acupuncture. (Fr) *Gaz. Apic.* 69(727):4-5. Jan.1968. 424.8 G25  
Bee venom used in human therapeutics.
- 74916 COMIN, G. Note on scale colonies. (Fr) *Apiculteur* 112(2):42-43. Feb.1968. 424.8 Ap3  
Construction details.
- 74917 DODS, J. C. What the landing board can tell. *Amer. Bee J.* 108(5):193-194. May 1968. 424.8 Am3  
In the different seasons.
- 74918 DOULL, K. M. Recent developments in pollen supplement research. *Amer. Bee J.* 108(4):139-140. Apr.1968. 424.8 Am3
- 74919 ESCH, H., and BASTIAN, J. Mechanical and electrical activity in the indirect flight muscles of the honey bee. *Z. Vergleichende Physiol.* 58(4):429-440. Ref. 1968. 444.8 Z3
- 74920 FARRAR, C. L. Productive management of honey-bee colonies. *Amer. Bee J.* 108(4):141-142. Apr.1968. 424.8 Am3
- 74921 FARRAR, C. L. Productive management of honey-bee colonies. *Amer. Bee J.* 108(5):183-185. (Cont.) May 1968. 424.8 Am3
- 74922 FOOTE, L. Ethylene oxide tests in California. *Amer. Bee J.* 108(4):136-137. Apr.1968. 424.8 Am3  
Against American foulbrood disease.
- 74923 GARY, N. E. A glass-walled observation hive. *Amer. Bee J.* 108(4):143-144,146. (Cont.) Apr. 1968. 424.8 Am3
- 74924 GIBSON, G. Our pesticide problem. *Amer. Bee J.* 108(5):196. May 1968. 424.8 Am3  
Includes Beekeeper Indemnification legislation to be introduced in the U. S. Congress.
- 74925 GMUR, O. Improving the bee pasture in the forest. *Schweiz. Bienen-Zeitung* 91(3):117-119. Mar.1968. 424.8 Sch9  
Planting pollen bearing plants and not thinning and pruning too much.
- 74926 GUNNISON, A. F., and MORSE, R. A. Source of the ether-soluble organics of stings of the honey bee, *Apis mellifera* (Hymenoptera: Apidae). *Entomol. Soc. Amer. Ann.* 61(1):5-8. Jan.1968. 420 En82
- 74927 HEWITT, P. J. The Hewitt beehive underboard and its uses. *Amer. Bee J.* 108(5):202. May 1968. 424.8 Am3
- 74928 HONEYDEW flow in the forest and its source. (Ge) *Schweiz. Bienen-Zeitung* 91(3):119-120. Mar.1968. 424.8 Sch9  
Aphids and silver fir.
- 74929 JOHANSEN, C. Consequence of the honey bee poisoning problem in Washington. *Amer. Bee J.* 108(4):156. Apr.1968. 424.8 Am3  
Caused by Sevin.
- 74930 KAISER, A. What does the bee tell us about the latest data on breeding? (Ge) *Schweiz. Bienen-Zeitung* 91(1):15-19; (2):63-68; (3):104-109. (Cont.) Jan.-Mar.1969. 424.8 Sch9
- 74931 KOBEL, F. Bee breeding in 1967. (Ge) *Schweiz. Bienen-Zeitung* 91(1):11-14. Jan. 1968. 424.8 Sch9
- 74932 LOUIS, J., and LEFEBRE, J. Quantitative study of divergence in the morphological development of certain infraspecific entities of *Apis mellifica* L. *Acad. Sci. C. R., Ser. D.* 266(11):1131-1133. Mar.11,1968. 505 P21
- 74933 MADER, W. New methods in teaching beekeepers. (Ge) *Schweiz. Bienen-Zeitung* 91(2):55-56. Feb.1968. 424.8 Sch9  
Short courses.
- 74934 MARTIN, E. C. The economics of pollination. (Sum.) *Amer. Bee J.* 108(4):148,150. Apr. 1968. 424.8 Am3  
Services.

- 74935 NACHBAUR, A. J. Feeding liquid pollen. Amer. Bee J. 108(5):187. May 1968. 424.8 Am3
- 74936 PALMER-JONES, T., and CLINCH, P. G. Effect on honey bees of dichlorvos and bromophos applied as sprays to white clover (*Trifolium repens* L.). New Zeal. J. Agr. Res. 11(1):138-141. Feb. 1968. 23 N4892  
Apis mellifera as pollinators.
- 74937 PARTIOT, L. A new disease. (Fr) Gaz. Apic. 69(727):12-14, 10. Jan. 1968. 424.8 G25
- 74938 PAUL, H. Operation honeybee in Morocco. (Fr) Apiculteur 112(2):31-40. Feb. 1968. 424.8 Ap3
- 74939 ROUSSY, L. Contribution to the study of the history of apiculture; colonies lodged in chests. (Fr) Gaz. Apic. 69(727):6-7. Jan. 1968. 424.8 G25
- 74940 SCHNEIDER-RAFF, S. Round about the sugar sack. (Ge) Schweiz. Bienen-Zeitung 91(3):127-130. Mar. 1968. 424.8 Sch9  
Feeding.  
Includes remarks by W. Luterbacher.
- 74941 SITBON, G. Study of determinism of group effect in honey bees. (Fr) Acad. Sci. C. R., Ser. D 266(12):1305-1307. Ref. Mar. 18, 1968. 505 P21
- 74942 TERZIC, L. Two cases of poisoning of bees with insecticide Sevin. (Se) Vet. Glas. 21(5):431-432. 1967. 41.8 J93
- 74943 TRAYNOR, J. The insecticide problem. Amer. Bee J. 108(5):188-189. May 1968. 424.8 Am3  
Toxicity to honey bees.
- 74944 WATKINS, L. H. California's first honey bees. Amer. Bee J. 108(5):190-191. May 1968. 424.8 Am3
- 74945 WATKINS, L. H. The myth of the Russian bees in California. Amer. Bee J. 108(4):145-146. Apr. 1968. 424.8 Am3
- 74946 WEHNER, R. The influence of the width of black stripes on visual goniometry of the honey bee (*Apis mellifica*). (Ge) Z. Vergleichende Physiol. 58(3):322-343. Ref. 1968. 444.8 Z3  
English summary.  
Training the bees.
- 74947 WEIERSMULLER, A. We beekeepers and advisory services. (Ge) Schweiz. Bienen-Zeitung 91(3):121-124. Mar. 1968. 424.8 Sch9
- 74948 WHITEFOOT, L. O., and DETRÖY, B. F. Pollen-milling and storing. Amer. Bee J. 108(4):138. Apr. 1968. 424.8 Am3  
As feed supplement.
- SERICULTURE AND THE SILKWORM**
- 74949 BAUD, L. Utilization of glycogen during fasting in *Bombyx mori* L. (Lepidoptera). (Fr) Paris. Soc. Biol. Compt. Rend. 161(8/9):1748-1750. Feb. 26, 1968. 442.9 P21
- 74950 BIANCHEDI, A. Promising future for silkworm culture. (It) G. Agr. 78(12):146. Mar. 24, 1968. 16 It1G
- 74951 EVANS, J. J. T. Natural substrates of the phenoloxidase in the pupal blood of the silkmoths, *Antheraea pernyi* and *A. eucalypti*. J. Insect Physiol. 14(2):277-291. Ref. Feb. 1968. 421 J825
- 74952 FUKAZAWA, C., and SHIMURA, K. The demonstration of species specificity of histones by immunological techniques. Biochim. Biophys. Acta 154(3):618-620. Apr. 9, 1968. 381 B522  
From silk glands of *Bombyx mori* larvae and calf thymus.
- 74953 KITAHARA, K., KINOSHITA, D., and TANI-GUCHI, Y. A punched card code for silkworm breeding. (Ja) Jap. J. Breeding 18(1):53-54. Feb. 1968. 64.8 J27
- 74954 ONODERA, K., and others. Deoxyribonucleoside monophosphokinases of silkworm pupae infected and uninfected with nuclear polyhedrosis virus. Agr. Biol. Chem. 32(2):185-190. Ref. Feb. 1968. 385 Ag8B  
M. Himeno, F. Sakai, and I. Morishima, joint authors.
- 74955 TSYGANOK, D. F. Shelkovody rasskazyvayut [The silkworm farmers are summing up]. Kishinev, Kartya Moldovenyaske, 1967. 22 p. SF553.M65T75  
On cultural practices.



## FOOD AND HUMAN NUTRITION

Publications of the U. S. Department of Agriculture, State Agricultural Experiment Stations, and State Agricultural Extension Services on cookery and other subjects not ordinarily covered in the Bibliography of Agriculture will be included in this list.

## GENERAL

- 74956 BAMJI, M. S. Are vitamins medicines or food? *Nutrition* 2(2):18-22. Jan.1968. TX341.N8
- 74957 BEGUM, A. Serum tocopherol levels of normal preschool children and children with protein-calorie malnutrition in South India. *Arch. Port. Sci. Biol.* 127(1):91-95. Ref. Jan.1968. 442.8 So1
- 74958 BERRY, W. T. C. Nutritional aspects of food policy. *Nutr. Soc. Proc.* 27(1):1-8. Ref. Mar. 1968. 389.9 N953  
Great Britain.
- 74959 DAVIES, E. M., and HARGREAVES, W. S. Education of the general public. *Nutr. Soc. Proc.* 27(1):40-43. Mar.1968. 389.9 N953  
Great Britain.
- 74960 DONG, A., and FEENEY, M. C. The nutrient intake of Indian and non-Indian school children. *Can. J. Public Health* 59(3):115-118. Ref. Mar. 1968. 449.8 P964
- 74961 EGAN, M. C. Recent legislation affecting child nutrition. *Amer. Diet. Ass. J.* 52(5):377-380. May 1968. 389.8 Am34
- 74962 GORMAN, R. National School Lunch Week. *Sch. Lunch J.* 22(4):31. Apr.1968. 389.8 Sch6
- 74963 GRANT, J. The feeding of the elderly in their own homes; defining the need. *Nutr. Soc. Proc.* 27(1):35-37. Mar.1968. 389.9 N953
- 74964 HILL, M. M. State and local nutrition committees. *Nutr. Program News*, Jan./Feb.1968, 4 p. 1.982 A2N955
- 74965 MACDONALD, P. Happy retirement—dream or reality. *Food Nutr. News* 39(4):1,4. Jan. 1968. 389.8 F7332  
Nutrition.
- 74966 MASSLER, M. Nutrition and dental decay. *Food Nutr. News* 39(5):1,4. Feb.1968. 389.8 F7332
- 74967 MIKESH, V., and KEAN, T. Game animals from field to kitchen. *Minn. Univ. Ext. Bull.* 345,15 p. 1968. 275.29 M66S  
Chiefly cookery.
- 74968 PEARSON, R. C. M. Feeding the elderly in their own homes; meeting the need. *Nutr. Soc. Proc.* 27(1):37-40. Mar.1968. 389.9 N953
- 74969 PHARAON, H. M., and WILSON, C. S. A year-long study of nutriture of Jordanian children. *Nutr. Rev.* 25(10):289-293. Oct.1967. 389.8 N953
- 74970 RAO, B. S. N. How much protein do we need? *Nutrition* 2(2):23-30. Jan.1968. TX341.N8
- 74971 SCHMIDT, G. The importance of minerals in human nutrition. (Ge) *Lebendige Erde* 1:34-40. Ref. Jan./Feb.1968. 18 L49
- 74972 U. S. AGRICULTURAL RESEARCH SERV. HUMAN NUTRITION RESEARCH DIV. Poultry in family meals: A guide for consumers. U. S. D. A. Home Gard. Bull. 110, slightly rev., 30 p. Nov.1967. 1 Ag84Hg  
Chiefly cookery.
- 74973 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. The Child Nutrition Act and the Special Milk Program for children. Hearings—Eighty-ninth Congress, second session on H.R. 13361 and bills to amend and make permanent the special milk program for children, June 23 and 24, 1966. Washington, 1966. 52 p. PREP 1122
- 74974 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. A review of the administration by the U.S. Department of Agriculture of the special milk and school lunch programs. Hearings—Eighty-ninth Congress, second session, February 18, 1966. Washington, 1966. 27 p. PREP 1119
- 74975 U. S. CONGRESS. SENATE. COMMITTEE ON LABOR AND PUBLIC WELFARE. Hunger and malnutrition in America. Hearings—Ninetieth Congress, first session on hunger and malnutrition in America, July 11 and 12, 1967. Washington, 1967. 311 p. PREP 1720
- 74976 U.S. CONSUMER AND MARKETING SERV. Rolled oats (quick cooking); a good choice for the thrifty family. U. S. Consum. Marketing Serv. C&MS-59,4 p. Feb.1968. A280.39 C762  
U.S. Agricultural Research Service, cooperating.
- 74977 WHORTON, W. J. Extension Service intensifies help for the poor. *Agr. Marketing [Washington]* 13(5):10-11. May 1968. A280.38 Ag8  
Nutritional education
- 74978 WOFINDEN, R. F., and CHAPMAN, M. The case for, and the work of, a community dietitian. *Nutr. Soc. Proc.* 27(1):28-29. Mar.1968. 389.9 N953  
Great Britain.
- 74979 ZUCKER, H. Production and quality of food in the age of urbanization. (Ge) *Umschau* 68(6):174-176. Mar.14,1968. 474 Um7  
Nutritive value and hygiene.

## FOOD HABITS

- 74980 ADINE, A. M. Today should be an end to food heresies. (Fr) *Rev. Conserv.* 24,i.e.23(3):92-95. Mar.1968. 389.8 R326
- 74981 CHITWOOD, M. B., VALESQUEZ, C., and SALAZAR, N. G. *Capillaria philippinensis* sp. n. (Nematoda, Trichinellida), from the intestine of man in the Philippines. *J. Parasitol.* 54(2):368-371. Apr.1968. 448.8 J824  
Victims had unusual food habits.
- 74982 GASCON, H. C., and ORR, K. J. About Filipino foods. Hawaii. Univ. Ext. Home Econ. Circ. 347,6 p.-folder. Dec.1967. 275.29 H312H  
Food habits and recipes.
- 74983 GASCON, H. C., and ORR, K. J. About [Hawaiian] island vegetables. Hawaii. Univ. Ext. Home Econ. Circ. 346,6 p.-folder. Dec.1967. 275.29 H312H  
Food habits and cookery.
- 74984 GASCON, H. C., and ORR, K. J. About Korean foods. Hawaii. Univ. Ext. Home Econ. Circ. 344,6 p.-folder. Dec.1967. 275.29 H312H  
Food habits and recipes.
- 74985 GASCON, H. C., and ORR, K. J. About Portuguese foods. Hawaii. Univ. Ext. Home Econ. Circ. 345,6 p.-folder. Dec.1967. 275.29 H312H  
Food habits and recipes.
- 74986 GASCON, H. C., and ORR, K. J. Pupus—hors d'oeuvres—Hawaiian style. Hawaii. Univ. Ext. Home Econ. Circ. 342,6 p.-folder. Dec.1967. 275.29 H312H  
Food habits and recipes.
- 74987 MOREL, P. Food habits in Western Europe. *S. Afr. Sugar J.* 52(1):28-29,31. Jan.1968. 65,8 So8
- 74988 OJIAMBO, J. A. A background study of the food habits of the Abasamia of Busia district—Western Province, Kenya; a preliminary study 1965—1966. *Nutrition* 21(4):216-221. Winter 1967. 389.8 N959
- 74989 ORR, K. J., and GASCON, H. C. About Chinese foods. Hawaii. Univ. Ext. Home Econ. Circ. 314,6 p.-folder. Dec.1967. 275.29 H312H  
Food habits and recipes.
- 74990 ORR, K. J. About Hawaiian foods and ancient food customs. Hawaii. Univ. Ext. Home Econ. Circ. 343,6 p.-folder. Dec.1967. 275.29 H312H  
Food habits and recipes.
- 74991 ORR, K. J., and GASCON, H. C. About Japanese foods. Hawaii. Univ. Ext. Home Econ. Circ. 340,6 p.-folder. Dec.1967. 275.29 H312H  
Food habits and recipes.

## NUTRITIVE AND VITAMIN CONTENT

- 74992 BARTNIK, J., and others. Nutritive value of Polish breads. (Pol) Warsaw. Panstw. Zakl. Hog. Rocz. 19(1):45-50. Ref. 1968. 449.9 W26  
I. Trzebska-Jeske, I. Lipinska, H. Mochnacka-Lawacz, B. Secomska, and I. Pantorin, joint authors.  
English summary.
- 74993 BRINK, M. F. Comparing nutritonal values of filled and imitation milks. Amer. Dairy Rev. 30(4):32-33, 102-105. Apr. 1968. 44.8 Am38
- 74994 COONS, C. M. Selected references on cereal grains in protein nutrition; human and experimental animal studies of major and minor cereals, 1910-1966. U. S. Agr. Res. Serv. ARS 61-5,150 p. Jan. 1968. A389.9 R31
- 74995 GANOWIAK, Z. Canned fish chemical composition and its nutritive value. (Pol) Medycyna Weterynaryjna 24(2):107-109. Feb. 1968. 41.8 M463
- 74996 MCGANDY, R. B. Fortification of cereals with amino acids. Econ. Bot. 22(1):26-28. Jan./Mar. 1968. 450 Ec7  
Improving human nutrition by adding lysine to wheat, lysine and tryptophan to corn, and lysine and threonine to rice.
- 74997 MLODECKI, H., LASOTA, W., and TREIA, A. Chemical evaluation of the nutritional value of *Boletus edulis*. (Pol) Warsaw. Panstw. Zakl. Hig. Rocz. 19(1):85-88. Ref. 1968. 449.9 W26  
English summary.
- 74998 THE NUTRITIVE content of type "A" lunches. Sch. Lunch J. 22(4):11-18. Apr. 1968. 389.8 Sch6
- 74999 PATTON, S. Potential nutritive value of plankton. (Ge) Umschau 68(7):216. Mar. 1968. 474 Um7



## FORESTRY

## GENERAL

- 75000 ANDRESEN, J. W. The forester of the future—as seen by the educator. *J. Forest.* 66(4):340-341. Apr.1968. 99.8 F768
- 75001 BAYLY, G. H. Upwards from the Plateau. *Forest. Chron.* 44(2):11-13. Apr.1968. 99.8 F7623
- Foresters role in forest land management.
- 75002 BOND, R. S., and MAWSON, J. C. Some attitudes of students and professional foresters about forestry. *J. Forestry.* 66(3):181-186. Mar.1968. 99.8 F768
- 75003 BURNETT, F. B., CORCORAN, T. J., and SHOTTAFFER, J. E. Technical education needs and employment potential in forestry-based occupations in Maine. *Maine. Agr. Exp. Sta. Bull.* 650, 51 p., map. Ref. Aug.1967. 100 M28S
- 75004 CONSULTING foresters. *Forest. Res. Notes* 22(7):115-120. Mar.1968. 99.8 F7692
- 75005 COULTER, C. H. Florida's developing forestry program. *Forest Farmer* 27(8):8-10, 42. Apr.1968. 99.8 F7692
- 75006 FELLOWS, E. S. Upwards from the Plateau—a consulting forester's view. *Forest. Chron.* 44(2):14-16. Apr.1968. 99.8 F7623
- 75007 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. SECRETARIAT. Actual and potential role of man-made forests in the changing world pattern of wood consumption. *World Symp. Man-Made Forests Indus. Import. [Position Paper] 1/1, 47 p.* 1967. SD391.W6 1967a
- Includes statistics on forest areas planted.
- 75008 FOURCHY, P. Notes on the cembra pine (*Pinus cembra* L.) in the French Alps. (Fr) *Rev. Forest. Franc.* 2:77-94, map. Feb.1968. 99.8 R329
- Distribution.
- 75009 FRAUENDORFER, R. Prognosis on economical development of forestry of Austria up to the year 1975. (Ge) *Forstarchiv* 39(2):33-37. Feb. 1968. 99.8 F7723
- 75010 GAL'PERIN, M. Forest in the poetry of N. A. Nekrasov. (Rus) *Les. Khoz.* 1:88-89. Jan. 1968. 99.8 L5622
- 75011 GILL, T. World union for forestry. *J. Forestry.* 66(3):178-180. Mar.1968. 99.8 F768
- History of the proposed International Union of Societies of Foresters.
- 75012 GUSEV, N. N., and MOSHONKIN, N. P. Forestry in the Republic of Congo (Brazzaville). (Rus) *Les. Khoz.* 1:90-93. Jan.1968. 99.8 L5622
- 75013 HAGEN, C. Extent and presentation of regional, district and stand history. (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.1: 180-192. 1967. 99.9 In82
- 75014 HAUSER, A. The beginning of mountain forestry in Switzerland. (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.1:138-162. Ref. 1967. 99.9 In82
- 75015 HERMANN, R. K. Some observations on forestry in present-day Germany. *J. Forest.* 66(3): 174-177, map. Mar.1968. 99.8 F768
- 75016 HERNDON, T. G. Extension forestry. *Forest Farmer* 27(8):24. Apr.1968. 99.8 F7692
- State extension service in Florida.
- 75017 INTERNATIONAL UNION OF FORESTRY RESEARCH ORGANISATIONS. *Papers*, XIV. IUFR0- Congress, Munich, 1967. 9 v. 99.9 In82
- Papers in English, French or German.
- 75018 JENKS, O. C. The vegetation of Ashdown Forest; some historical notes. *Quart. J. Forest.* 62(1):46-52. Ref. Jan.1968. 99.8 Q2
- 75019 KELTS, L., and VERTS, J. Current literature. *J. Forest.* 66(4):361. Apr.1968. 99.8 F768
- 75020 KERNAN, H. S. After Vietnam—what? *Amer. Forests* 74(4):15-16, 42. Apr.1968. 99.8 F762
- Forestry outlook.
- 75021 LAWRIE, J. J. The role of the Commonwealth Forestry Association. *Commonwealth Forest. Rev.* 47(1):66-71. Mar.1968. 99.8 Em72
- 75022 LEATHART, P. S. A tour in Finland. *Quart. J. Forest.* 62(1):8-22. Jan.1968. 99.8 Q2
- 75023 LEIBUNDGUT, H. The forest in the service of mountain help. (Ge) *Agrarpolit. Rev.* 24(4): 113-120. Apr.1968. 281.8 Ag824
- Switzerland.
- 75024 LESLIE, A. J. Tropical forestry and economic development. *Commonwealth Forest. Rev.* 47 (1):40-51. Ref. p.13. Mar.1968. 99.8 Em72
- Developing countries.
- 75025 LIESE, W. Tasks and possibilities of research institutes of industrialized countries for cooperation with developing countries. (Ge) *Forstarchiv* 39(2):38-40. Feb.1968. 99.8 F7723
- 75026 NEWBY, F. L. Man-nature-beauty; a research dilemma. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.7:227-238. Ref. 1967. 99.9 In82
- 75027 NOGENT-SUR-MARNE. CENTRE TECHNIQUE FORESTIER TROPICAL. 50th anniversary of the center for research on tropical woods. (Fr) *Bois Forests Trop.* 177:3-12. Jan./Feb.1968. 99.8 B632
- Report of a colloquium held Oct.25-27, 1967 to mark the anniversary.
- English summary.
- 75028 PRODAN, M. Report on electronic evaluation of forestry research methods in central and eastern Europe. (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.6:146-157. Ref. 1967. 99.9 In82
- 75029 RAO, V. S. Indian forestry and the Commonwealth. *Indian Forest.* 94(1):13-15. Jan.1968. 99.8 In2
- 75030 RUBNER, H. Power and freedom in forest history. (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.1:71-82. Ref. 1967. 99.9 In82
- 75031 SEIGWORTH, K. J. Forestry plus...in the Tennessee Valley. *J. Forest.* 66(4):324-328, map. Apr.1968. 99.8 F768
- Resource development.
- 75032 SHAFER, E. L. Forest aesthetics—a focal point in multiple-use management and research. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.7:47-71. Ref. 1967. 99.9 In82
- 75033 SINGH, H. The ninth Commonwealth Forestry Conference in India. *Indian Forest.* 94(1):2-4. Jan.1968. 99.8 In2
- Short history of the previous conferences.
- 75034 SOCIETY OF AMERICAN FORESTERS. Membership directory, March 1968. *J. Forest.* 66 (3):223-311. Mar.1968. 99.8 F768
- 75035 SPENCER, R. S. The Florida Forestry Association—what it is, what it does. *Forest Farmer* 27(8):23, 40-41. Apr.1968. 99.8 F7692
- 75036 SRIVASTAVA, T. N. Research and education at Forest Research Institute and Colleges, Dehra Dun. *Indian Forest.* 94(1):5-12. Jan. 1968. 99.8 In2
- 75037 WORLD SYMPOSIUM ON MAN-MADE FORESTS AND THEIR INDUSTRIAL IMPORTANCE, CANBERRA, 1967. [Position papers]. Rome, Food and Agriculture Organization of the United Nations, 1967. 60 pieces in 1 v. (Food and Agriculture Organization of the United Nations. FO/MMF: 67) SD391.W6 1967a
- Some papers in French or Spanish with English summaries.
- 75038 ZILLGITT, W. M. Forest research activities in Florida. *Forest Farmer* 27(8):13-15, 34, 36. Apr.1968. 99.8 F7692
- Includes U. S. Forest Service facilities.

## EDUCATION

- 75039 BOUCSEIN, H. The role of the Giessen University [Giessen Justus-Liebig Universität] in forest science and forestry. (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.1:123-137. Ref. 1967. 99.9 In82
- 75040 GRAY, J. L. Training the foresters of tomorrow. *Forest Farmer* 27(8):20-21. Apr.1968. 99.8 F7692
- University of Florida, School of Forestry.

- 75041 KNUDSEN, W. R. The Forest Ranger School. Forest Farmer 27(8):22,42. Apr.1968. 99.8 F7692  
At Lake City, Florida.
- 75042 KOZIKOWSKI, K. On post-graduate studies. (Pol) Las Polski 42(8):3-5. Apr.16/30,1968. 99.8 L33
- 75043 MARCHWORTH, G. D. Statistics from schools of forestry; degrees granted and enrollments. J. Forest. 66(4):333-339. Apr.1968. 99.8 F768
- 75044 SCISLOWSKI, W. Present status and future of the Forestry Faculty of the Agricultural College [Wyzsza Szkola Rolnicza, Wydzial Lesny] at Poznan. (Pol) Las Polski 42(7):14-15. Apr.1/15,1968. 99.8 L33
- FOREST RESOURCES
- 75045 BERGER, J. M. Timber resource statistics for central Oregon. U. S. Forest Serv. Resour. Bull. PNW-24,38 p.,map. 1968. A99.9 F7625Un
- 75046 BROWN, E. E., KUNZE, J. H., and LAPLANTE, M. G. The use of forestry and water resources in the economic development of the Slash Pine Planning and Development Commission Area. Ga. Agr. Exp. Sta. Res. Bull. 22,57 p.,map. Ref. Oct.1967. S51.E2  
Slash Pine Area Planning and Development Commission (Georgia), cooperating.
- 75047 KHLATIN, S. A. Forest resources of Baikal Lake area. (Rus) Les. Khoz. 1:16-21. Jan. 1968. 99.8 L5622
- 75048 QUIGLEY, K. L., and LINDMARK, R. D. Timber resources. Walnut Workshop Papers 1966: 6-12, map. aSD397.W3W3
- 75049 SMIRNOV, A. V. Present state of mountain forests in southern part of the Lake Baikal area. (Rus) Les. Khoz. 1:21-22. Jan.1968. 99.8 L5622
- 75050 STARR, J. T. The forests of Scotland. Amer. Forests 74(4):24-26,50. Apr.1968. 99.8 F762
- 75051 U. S. FOREST SERV. National forest system, areas as of June 30, 1967. Washington, 1968. 20 p.,map. 1 F765
- 75052 U. S. FOREST SERV. INTERMOUNTAIN REGION. National forests in profiles; 1967 year-book. Ogden, Utah, 1968. 27 p.,map. A99.9 F7635
- 75053 VASIL'EV, P. V. Zemlya lesnaya; ocherki o sovetskikh i zarubezhnykh lesakh [Forests; outlines on Soviet and foreign forests]. Moskva: Nauka, 1967. 238 p.,map. Ref. (Akademiya Nauk SSSR. Nauchno-Populiarnaya Seriya) SD131.V3
- 75054 WISE, J. O., and BROWN, E. E. Forest and water resources in the Appalachian Area of Georgia. Ga. Agr. Exp. Sta. Res. Bull. 12, 31 p.,map. June 1967. S51.E2
- FOREST INFLUENCES
- 75055 BACON, E. M. Relation of man-made forests to soil, water, recreation, community development and multiple use of natural resources. World Symp. Man-Made Forests Indus. Import. [Position Paper] 3/1,15 p. 1967. SD391.W6 1967a
- 75056 BITTERLICH, W. General evaluation of "forest welfare influences" for forests close to housing areas. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.7:406-414. 1967. 99.9 In82  
English summary.
- 75057 CASTELLANI, E., and PREVOSTO, M. Investigation on the negative effects of poplar rows on some agricultural crops. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.1:203-214. 1967. 99.9 In82  
Windbreak effects on rice and wheat yield in Italy.
- 75058 FAVRE, R. Y. Windbreaks and shelterbelts in the semiarid regions of Argentina. (Sp) World Symp. Man-Made Forests Indus. Import. [Position Paper] 11a/2,8 p. 1967. SD391.W6 1967a  
English summary.  
Planting and management.
- 75059 FREYMAN, S. Spectral distribution of light in forests of the Douglas fir [*Pseudotsuga menziesii*] zone of southern British Columbia. Can. J. Plant Sci. 48(3):326-328. May 1968. 450 C16
- 75060 HARLAN, R. L., and WHITE, D. P. Soil moisture accretion and depletion patterns under an old growth hardwood forest. Mich. Agr. Exp. Sta. Quart. Bull. 50(3):304-315. Ref. Feb.1968. 100 M58S
- 75061 JONES, R. W. Meteorology aids the forest farmer. Forest. Res. Notes 22(7):11-12. Mar. 1968. 99.8 F7692  
Weather information services in Georgia.
- 75062 KERFOOT, O. Mist precipitation on vegetation. Forest. Abs. 29(1):8-20. Jan.1968. 241.01 Im7  
Review of the literature  
Fog drip in forests.
- 75063 LOFTHOUSE, R. G. A. Shelter research. Great Brit. Min. Agr. Fish. Food. Agr. 75(4): 174-180. Apr.1968. 10 G79J  
Windbreak planting and management.
- 75064 MALAISSE, F. Contribution to the study of beech forests of western Europe. 6. Climatological and phenological relation of beech forests situated in the Belgian Ardennes-Provence area. (Fr) Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.2:325-334, map. Res. 1967. 99.9 In82
- 75065 MILLER, D. H. Measurements of snowfall interception in Japan. J. Forest. 66(3):197. Mar.1968. 99.8 F768
- 75066 OSTROM, C. E., and READ, R. A. Shelterbelts and windbreaks. World Symp. Man-Made Forests Indus. Import. [Position Paper] 11a/1, 25 p.,map. Ref. 1967. SD391.W6 1967a  
Planting and management.
- 75067 PAGE, G. Some effects of conifer crops on soil properties. Commonwealth Forest. Rev. 47(1):52-62. Ref.,p.57-58. Mar.1968. 99.8 Em72
- 75068 PRICE, R. Possibilities of increasing stream-flow from forest and range watersheds by manipulating the vegetative cover. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.1:487-504, map. Ref. 1967. 99.9 In82  
Arizona.
- 75069 SCHOMAKER, C. E. Solar radiation measurements under a spruce and a birch canopy during May and June. Forest Sci. 14(1):31-38. Ref. Mar.1968. 99.8 F7632
- 75070 YAKOBI, D., and ZOHAR, Y. Microclimate and crop growth as affected by wind shelter in the arid western Negev of Israel. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.1: 195-202. 1967. 99.9 In82
- FOREST INJURIES AND PROTECTION
- 75071 ALEXANDER, R. R. Windfall after clearcutting on Fool Creek, Fraser Experimental Forest, Colorado. U. S. Forest Serv. Res. Note RM-92, 11 p.,map. 1967. A99.9 F7632Us
- 75072 ANDERSON, R. F. The influence of forest management on insect control. Forest. Res. Notes 22(7):23-25. Mar.1968. 99.8 F7692
- 75073 ANDERSON, R. F. Limitations in the use of some newer methods for controlling forest insects. Forest. Res. Notes 22(7):26-27. Mar. 1968. 99.8 F7692  
Sterilization and use of chemical attractants.
- 75074 BRUNIG, E. F. Protection against inorganic damage—types of damage other than fire. World Symp. Man-Made Forests Indus. Import. [Position Paper] 16b/2,11 p. Ref. 1967. SD391.W6 1967a
- 75075 CAVALCASELLE, B., and DE BELLIS, E. Preliminary experiments for the control of *Cryptorhynchus lapathi* L. by means of ionizing radiations. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.5:571-586. Ref. 1967. 99.9 In82  
Poplar and willow pest sterilization experiments.



- 75076 CHATTERJEE, P. N., and SEN-SARMA, P. K. Important current problems of forest entomology in India. *Indian Forest*. 94(1):112-117. Jan. 1968. 99.8 In2  
Damages caused by various pests.
- 75077 CHENG, H. H., and LEROUX, E. J. Control of the birch leaf miner [*Fenusa pusilla*] with disulfoton. *Can. Entomol.* 100(4):350-357. Ref. Apr. 1968. 421 C16  
Pest of *Betula caerulea grandis*.
- 75078 CIESLA, W. M. Detection and evaluation of bark beetle infestations. *Forest. Res. Notes* 22(7):28-29. Mar. 1968. 99.8 F7692
- 75079 DENTON, R. E., and TUNNOCK, S. Low-volume application of malathion by helicopter for controlling larch casebearer [*Coleophora laricella*]. *J. Econ. Entomol.* 61(2):582-583. Apr. 15, 1968. 421 J822  
Pest of *Larix occidentalis* in the West.
- 75080 EBEL, B. H., MERKEL, E. P., and KOWAL, R. J. Key to forest tree insects of the south. *Forest. Res. Notes* 22(7):40-43. Mar. 1968. 99.8 F7692  
Destructive forest insects.
- 75081 FRANKLIN, R. T. Sex attractants as a factor in bark beetle control. *Forest. Res. Notes*. 22(7):32-33. Mar. 1968. 99.8 F7692
- 75082 FRANZ, J. M., KRIEG, A., and REISCH, J. Experiences in the use of *Bacillus thuringiensis* Berliner for control of the oak leafroller (*Tortrix viridana* L. Lep. Tortricidae). (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.5:662-667. 1967. 99.9 In82  
English summary.
- 75083 HOLLOWAY, C. W. The protection of man-made forests from wild life. *World Symp. Man-Made Forests Indus. Import.* [Position Paper] 15c/1, 13 p. Ref. 1967. SD391.W6 1967a
- 75084 HUMINSKI, K. Wild damages in forests. (Pol) *Las Polski* 42(8):9-11. Apr. 16/30, 1968. 99.8 L33
- 75085 INSECTS attacking forest trees in the south. *Forest. Res. Notes* 22(7):36-39. Mar. 1968. 99.8 F7692
- 75086 KAILIDIS, D. S. Observations on two *Populus* pests in Greece. (Ge) *Anz. Schadlingskunde* 41(3):38-41. Ref. Mar. 1968. 421 An9  
*Phloeomyzus redelei* and *Melanophila picta* and their parasites and chemical control.
- 75087 KOEHLER, W. Considerations for the discussion on the use of *Trichogramma* sp./Hymenoptera-Chalcidoidea/ in the biological method of forest protection. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.5:587-596. 1967. 99.9 In82  
Against *Acantholyda nemoralis* in Poland.
- 75088 KONIG, E. The effect of water and sugar content of some tree barks on the peeling damage caused by red deer. (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.5:597-617. Ref. 1967. 99.9 In82  
English summary.
- 75089 KOWAL, R. J. Importance of insects and diseases in management of private stands. *Forest. Res. Notes* 22(7):20-22. Mar. 1968. 99.8 F7692  
Control.
- 75090 KRONFELLNER, G. New aspects in measuring straight torrent-dams on basis of various material testing. (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.1:215-239. 1967. 99.9 In82  
Austria.
- 75091 LANDGRAF, A. E. Pilot projects what they are—and what they mean in pest control. *Forest. Res. Notes* 22(7):35. Mar. 1968. 99.8 F7692
- 75092 LAPIETRA, G. Importance of natural enemies in the control of *Paranthrene tabaniformis* Rott. in northern Italy. (Fr) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.5:629-634. 1967. 99.9 In82  
Pest of poplar.
- 75093 LORIO, P. L. Soil and stand conditions related to southern pine beetle [*Dendroctonus frontalis*] activity in Hardin County, Texas. *J. Econ. Entomol.* 61(2):565-566. Apr. 15, 1968. 421 J822  
Pest of *Pinus taeda* and *P. echinata*.
- 75094 MATUSZ, S. Machines and tools used in preventing wild damages in forestry. (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.8:653-669. 1967. 99.9 In82
- 75095 MCLINTOCK, T. F. Most pressing problems in protection. *Forest. Res. Notes* 22(7):6-7. Mar. 1968. 99.8 F7692
- 75096 PIERCE, D. A. Activity and control of woodland insects. *Agr. Chem.* 23(5):33, 36-37. May 1968. 381 Ag8
- 75097 RAUSCHENBERGER, J. L. Considerations and decisions in the control of bark beetles. *Forest. Res. Notes* 22(7):30-31. Mar. 1968. 99.8 F7692  
*Dendroctonus frontalis* of pine.
- 75098 RUDNEV, D. F., and SMELYANETS, V. P. The comparative resistance of the *Pinus pallasiana* Lamb. and *P. sylvestris* L. to insect pests at the low Dnieper River sands. (Rus) *Zool. Zh.* 47(2):231-236. Feb. 1968. 410 R92  
English summary.
- 75099 RUSSELL, E. J. Windthrow, ice damages and flood. *Forest. Res. Notes* 22(7):52-53. Mar. 1968. 99.8 F7692
- 75100 SARTZ, R. S. Hail can seriously damage eastern white pine [*Pinus strobus*]. *J. Forest.* 66(4):353. Apr. 1968. 99.8 F768
- 75101 SCHREAD, J. C. Control of lace bugs on broad-leaf evergreens. *Conn. Agr. Exp. Sta. Bull.* 684, 7 p. Mar. 1968. 100 C76St  
Tingidae.
- 75102 SIERPINSKI, Z. Effect of industrial air pollution on population dynamics of some primary spruce pests. (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.5:518-531. 1967. 99.9 In82  
Poland.
- 75103 SINDELAR, J., and HOCHMUT, R. Variability of larch (*Larix* sp.) invasion caused by woolly aphids *Adelges laricis* Vall. and *Sacchiphantes viridis* Rats. (Adelgidae, Homopt.). *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.3:902-926. Ref. 1967. 99.9 In82  
Includes resistance studies.
- 75104 SPIERINGS, F. Experimental methods for determination of resistance differences. (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.5:567-570. 1967. 99.9 In82  
Air pollution resistance of trees.
- 75105 SYMPOSIUM ON WILD MAMMALS IN GREAT BRITAIN AND THEIR CONTROL, LONDON, 1967. *Proceedings of the Association of Applied Biologists*, Nov. 10, 1967. *Ann. Appl. Biol.* 61(2):303-349, map. Ref. Apr. 1968. 442.8 An72  
Partial contents: Deer and forestry, by P. F. Garthwaite, p.330-334; British wild mink, by H. V. Thompson, p.345-349.
- 75106 TALLOS, P. Light net in services of forest insect damage prognosis. (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.5:659-661. 1967. 99.9 In82  
Hungary.
- 75107 THATCHER, R. C. Pine sawfly *Neodiprion excelsus* Roh. U. S. Forest Serv. Forest Pest Leaflet 105, 4 p. Apr. 1967. A423.9 F764  
Life history, and chemical and natural control.
- 75108 TORRENT, J. A., and ROMANYK, N. Pest control. (Sp) *World Symp. Man-Made Forests Indus. Import.* [Position Paper] 15b/1, 28 p. Ref. 1967. SD391.W6 1967a  
English summary.
- 75109 U. S. FOREST SERV. PACIFIC NORTHWEST FOREST AND RANGE EXPERIMENT STATION. Aerial photographic techniques for estimating damage by insects in Western forests, by J. F. Wear, R. B. Pope, and P. W. Orr. Portland, Oregon, 1966. 79 p. aSD387.A25W4  
Bibliography, p.75-79.

- 75110 VOLK, K. Storm damages in south Baden. (Ge) Allg. Forst- Jagdzeitung 139(3):45-56, map. Ref. Mar.1968. 99.8 AL3 English summary.
- 75111 WATSON, H. Beaver damage. Forest. Res. Notes 22(7):54-55. Mar.1968. 99.8 F7692
- Forest Fire Prevention and Control
- 75112 ARNOLD, R. K. The forest conflagration consequences of management decisions. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.5:782-788. 1967. 99.9 In82 Policies for control.
- 75113 BOX, T. W. Brush, fire, and west Texas rangeland. Tall Timbers Fire Ecol. Conf., Proc., 6th Annu. Conf.:7-19. Ref. 1967. 99.9 T142
- 75114 CLARK, W. J. Forest fire compacts, what they are and how they work. Forest. Res. Notes 22(7):13. Mar.1968. 99.8 F7692 Activities of the Southeastern States Forest Fire Compact Commission.
- 75115 CONNELL, C. A. The problem facing fire research, as seen by a forest officer. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.5:724-731. 1967. 99.9 In82 Control aspects.
- 75116 COOPER, R. W. Developments in forest fire research and their application to forest fire control. Forest. Res. Notes 22(7):8-10. Mar. 1968. 99.8 F7692 Southern States.
- 75117 EDEN, L. T. E. Forest fire insurance. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.5:789-801. 1967. 99.9 In82
- 75118 KARLIKOWSKI, T. The evaluation of applicability of prognostic method of status of forest fire hazard during years 1965-1966. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.5:802-818. 1967. 99.9 In82 Includes burning index in Poland.
- 75119 KILL, A. D. Weight of the fuel complex in 70-year-old lodgepole pine stands of different densities. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.5:819-829. Ref. 1967. 99.9 In82 Canada.
- 75120 KOURTZ, P. H. Computers and forest fire detection. Forest. Chron. 44(2):22-24. Apr.1968. 99.8 F7623
- 75121 KOURTZ, P. H. Resource allocation for forest fire control. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.5:830-842. Ref. 1967. 99.9 In82
- 75122 LIEBENEINER, E. Comparison of forest fire control of North America and Germany. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.5:732-746. 1967. 99.9 In82
- 75123 MCARTHUR, A. G. Fire behaviour in eucalypt forests. Australia. Forest. Timber Bur. Leaflet. 107, 36 p. Ref. 1967. 99.8 Au73 Includes combustibility study in relation to forest fire danger and control burning practices.
- 75124 MCARTHUR, A. G. Fire protection of man-made forests. World Symp. Man-Made Forests Indus. Import. [Position Paper] 16a/1, 21 p. Ref. 1967. SD391.W6 1967a
- 75125 PECH, GY. The association between atmospheric humidity and fuel moisture. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.5:866-888. Ref. 1967. 99.9 In82
- 75126 SOFRONOV, M. A. Lesnye pozhary v gorakh yuzhnoi Sibiri [Forest fires in the mountains of southern Siberia]. Moskva, Nauka, 1967. 148 p. SD421.S6 Bibliography, p.142-148. Includes control.
- 75127 STEL'MAKHOV, G. K. Calculation of strength and measures needed for control of forest fires. (Rus) Les. Khoz. 1:52-54. Jan.1968. 99.8 L5622
- 75128 TURNER, J. C. Techniques and tools of fire protection. Forest. Res. Notes 22(7):14-15. Mar.1968. 99.8 F7692
- 75129 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Forest fire prevention and control. Hearing—Eighty-ninth Congress, second session held at Santa Barbara, California, April 15, 1966. Washington, 1966. 137 p. PREP 1108
- 75130 VAN WAGNER, C. E. Fire behaviour mechanisms in a red pine [*Pinus resinosa*] plantation; field and laboratory evidence. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.5:747-781. Ref. 1967. 99.9 In82 Canada.
- 75131 VAN WAGNER, C. E. The line intersect method in forest fuel sampling. Forest Sci. 14(1):20-26. Mar.1968. 99.8 F7632 In relation to measuring fuel quantities in fire research.
- FOREST MANAGEMENT
- 75132 ALGVERE, K. V. Cost structure in European forestry. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.8:168-177. 1967. 99.9 In82
- 75133 ANDERSON, W. C. Rating investments for improving Georgia timber stands. Land Econ. 44(1):121-127. Feb.1968. 282.8 J82 Budgeting for forest management alternatives.
- 75134 BENNOUNA, A. Use of machines in establishing forest belt in eastern Morocco. (Fr) World Symp. Man-Made Forests Indus. Import. [Position Paper] 9a/3, 9 p., map. Ref. 1967. SD391.W6 1967a English summary.
- 75135 BOTWIN, M. Theoretical basis of optimizing the decision in forest management process. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.8:257-265. 1967. 99.9 In82
- 75136 BRABANDER, H. D. Profit and loss accounting in forestry. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.8:57-71. Ref. 1967. 99.9 In82 English summary.
- 75137 BRABANDER, H. D. Report on the activities of Working Group on Forest Accountancy. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.7:2-7. 1967. 99.9 In82
- 75138 BROMLEY, W. S. Forest farming and the Fair Labor Standards Act. Forest. Res. Notes 22(7):70. Mar.1968. 99.8 F7692
- 75139 BUDOWSKI, G. National parks, their philosophy and national requirements. (Sp) Turrialba 18(1):64-67. Ref. Jan./Mar.1968. 8 T86 English summary. Costa Rica.
- 75140 CEYLON. CONSERVATOR OF FORESTS. Administration report for 1965-1966. Colombo, 1967. 75 p. 1967. 99.9 C33 Text also in Sinhalese.
- 75141 CORMACK, W. M. The treatment of the valuation of growing stock in forestry accounts. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.8:52-56. 1967. 99.9 In82
- 75142 CURTIS, H. S. Wildlife for forest recreation in Australia. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.7:125-131, map. 1967. 99.9 In82
- 75143 D'ADAMO, O. A. Financing forestry plantations in South America. (Sp) World Symp. Man-Made Forests Indus. Import. [Position Paper] 24/2, 13 p. 1967. SD391.W6 1967a English summary.
- 75144 DHARMAKUMARSINHJI, K. S. Browsing behaviour of (*Gazella G. bennetti*) and (*Antelope cervicapra*) in captivity and natural habitat. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.7:424-465. Ref. 1967. 99.9 In82 India.
- 75145 DZIECIOLŌWSKI, R. Food of the red deer, (*Cervus elaphus* L.) in annual cycle. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.7:132-146. Ref. 1967. 99.9 In82 Poland.
- 75146 ELSSMANN, H. Formula for estimation of stand values on valuation object. (Ge) Forstar-chiv 39(2):55-56. Feb.1968. 99.8 F7723



- 75147 ENDSJO, P. C. Comparative cost of production of man-made forests up to harvesting in different regions. World Symp. Man-Made Forests Indus. Import. [Position Paper] 14a/2,6 p. 1967. SD391.W6 1967a
- 75148 EVANS, B. Showdown for the Wilderness Alps of Washington's North Cascades. Sierra Club Bull. 53(4):7-16, map. Apr.1968. 500 Sa53
- 75149 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. COMMITTEE FOR THE EXPLOITATION OF FORESTS IN TROPICAL REGIONS. First meeting, Rome, Oct.18-20, report by A. Chollet. (Fr) Bois Forests Trop. 117:13-16. Jan./Feb.1968. 99.8 B632 English summary.
- 75150 FRAUENDORFER, R. Valuation of growing timber stock according to market value for profit and loss accounting. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.8: 8-28. 1967. 99.9 In82
- 75151 GOULD, E. M. Simulation and forestry. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.6:96-104. 1967. 99.9 In82  
Computers and forest management.
- 75152 HABERLE, S. Method of determining required time in forestry work. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.8:522-549. Ref. 1967. 99.9 In82
- 75153 HANAN, A. M. S. John Fitzgerald Kennedy Memorial Park. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.2:787-791. 1967. 99.9 In82  
In Dublin, Ireland.
- 75154 HAUGLAND, R. How to plan insurance covering your mobile personal property. Forest Indus. 95(4):34-35. Apr.1968. 99.81 W52
- 75155 HERMANSEN, N. K. Cost price calculation according to Howard Grons system. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.8: 117-121. 1967. 99.9 In82
- 75156 HERMANSEN, N. K. Cultivation costs. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.8:122-130. 1967. 99.9 In82  
Denmark.
- 75157 HEYMANOWSKI, K. The larch in the Kampinos National Park. (Pol) Las Polski 42(7):10-11. Apr.1/15,1968. 99.8 L33
- 75158 HILF, H. The significance of work systems for the investigation and development of new working methods in forest management. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.8:706-711. 1967. 99.9 In82  
Text also in German.
- 75159 ILLENCICK, G., and FALLA RAMIREZ, A. Pre-investment project for the establishment of industrial forests in the mountain region of Colombia. (Sp) World Symp. Man-Made Forests Indus. Import. [Position Paper] 24/3,7 p. 1967. SD391.W6 1967a  
English summary.
- 75160 INGLE, J. H. Social security and the forest farmer. Forest. Res. Notes 22(7):71-73. Mar. 1968. 99.8 F7692  
Includes labor.
- 75161 JEFFERS, J. N. R. The Advisory Group of Forest Statisticians a service to forest research and management. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.6:31-36. 1967. 99.9 In82
- 75162 JONES, A. R. C. A practical approach to private forest management in Canada. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.8: 281-294. Ref. 1967. 99.9 In82
- 75163 JORGENSEN, F. Cost registrations. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.8:92-100. 1967. 99.9 In82
- 75164 KAMINSKY, G. Principles of network planning technique in forestry. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.8:712-728. 1967. 99.9 In82
- 75165 KENNEY, N. T. New national park proposed, the spectacular North Cascades. Nat. Geogr. 133(5):642-667, map. May 1968. 470 N213
- 75166 KIKKAWA, J., and WEBB, L. J. Niche occupation by birds and the structural classification of forest habitats in the wet tropics, North Queensland. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.7:466-482, map. Ref. 1967. 99.9 In82
- 75167 KROTH, W. Valuation of forests for taxation purposes in western Europe. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.8: 218-239. 1967. 99.9 In82
- 75168 KUNNAS, H. J. Productivity trends in Finland's forestry in 1948-1961. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.8:178-201. 1967. 99.9 In82
- 75169 LAMB, F. B. Nuts and bolts conservation: the tyranny of numbers. Amer. Forests 74(5):14-16,60-61. May 1968. 99.82 F762  
Forests and natural resource conservation.
- 75170 LARSON, J. S. Forest, wildlife, and habitat management: A critical examination of practice and need. U. S. Forest Serv. Res. Paper SE-30,28 p. Ref. Dec.1967. A99.9 F7623U
- 75171 MAHALAHA, S. H. Objective surveys for dynamic forestry and forest industries development in India. Indian Forest. 94(1):99-103. Jan.1968. 99.8 In2
- 75172 MAKONEN, O. Compensation of forest labor and equalizing the differences of opinions in wage problems in Finland. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.8: 564-566. 1967. 99.9 In82
- 75173 MALDAGUE, M. Multiple use management of forest and conservation of nature. (Fr) Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.7:72-84. Ref. 1967. 99.9 In82  
English summary.
- 75174 MATYAS, K. Organizational prerequisites of better economical situation in forestry. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.8:729-739. 1967. 99.9 In82
- 75175 MAYS, D. A., and BENGTON, G. W. Equipment for fertilizing experimental tree plots. J. Forest. 66(4):350. Apr.1968. 99.8 F768
- 75176 MEADOWS, J. C., and YOHO, J. G. How to meet the cost-price squeeze in forest farming. Forest Farmer 27(6):6-8,17. Mar.1968. 99.8 F7692
- 75177 MERRIAM, L. C. Wilderness studies in the northern Rocky Mountains, Montana, United States of America. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.7:183-199, map. Ref. 1967. 99.9 In82
- 75178 MOSTYN, H. P. The role of plantations in the industrial economy of Zambia. World Symp. Man-Made Forests Indus. Import. [Position Paper] 2b/2,13 p. 1967. SD391.W6 1967a
- 75179 MURPHY, P. J. Forest management statistics for Canada; 1967 questionnaire of the Canadian Institute of Forestry. Forest. Chron. 44(2):20-21. Apr.1968. 99.8 F7623
- 75180 NEVZOROV, N. V. Experience in long-term planning of regional forestry. (Rus) Les. Khoz. 1:9-14. Jan.1968. 99.8 L5622
- 75181 PECHANEC, J. F. Opportunities for improving game habitat in difficult environments, including arid regions. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.7:30-46. Ref. 1967. 99.9 In82
- 75182 POISSONET, J. Management of hunting and ecology of Grande Sologne. (Fr) Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.7: 286-309, map. 1967. 99.9 In82
- 75183 PRACTICAL accomplishment of profit and loss accounting in forestry of various countries. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.8:72-81. 1967. 99.9 In82  
Papers by N. K. Hermansen, E. Saari, S. Nakamura, J. H. Becking, R. Frauendorfer, H. D. Brabander, and P. A. Wardle.
- 75184 QUEENSLAND. DEPT. OF FORESTRY. Annual report for the year 1966-67. Brisbane, 1967. 30 p. 1967. 99.9 Q312
- 75185 RIEBOLD, R. J. Florida's national forests. Forest Farmer 27(8):16-17,41. Apr.1968. 99.8 F7692

- 75186 ROWLAND, R. Safety regulations and woodlands machinery. *Quart. J. Forest.* 62(1):22-28. Jan.1968. 99.8 Q2
- 75187 RUSSELL, E. J., and SMOLINSKI, H. J. Simplify your record-keeping. *Forest. Res. Notes* 22(7):68-69. Mar.1968. 99.8 F7692
- 75188 SASKATCHEWAN, DEPT. OF NATURAL RESOURCES. Annual report, Saskatchewan natural resources, 1967. Regina, 1968? 48 p. 279.9 Sa7  
Includes forest resources and recreation.
- 75189 SCHWOTZER, W. Expense calculation. (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.8:101-116. Ref. 1967. 99.9 In82
- 75190 SEGELQUIST, C. A., and GREEN, W. E. Deer food yields in four Ozark forest types. *J. Wild-life Manage.* 32(2):330-337. Apr.1968. 410 J827  
Arkansas.
- 75191 SIEGEL, W. C. Analysis of timber loans in the Federal Land Bank System. *Banking* 60 (1):86,90-91, map. May 1968. 284.8 Am3
- 75192 SIEGEL, W. C., and GUTTENBERG, S. Timber leases and long-term cutting contracts in the south. *Forest Indus.* 95(4):62-64, map. Apr. 1968. 99.81 W52
- 75193 SIKORA, B. Determination of conversion of trees in the stand structure. (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.6: 505-514. 1967. 99.9 In82
- 75194 SIREN, G. Mechanising forest regeneration in Sweden. *World Symp. Man-Made Forests Indus. Import. [Position Paper]* 6/5,8 p. 1967. SD391.W6 1967a
- 75195 SKOG, R. E. Fifteen-year results of managing a former sugar bush for timber. *Mich. Agr. Exp. Sta. Quart. Bull.* 50(3):316-323. Feb.1968. 100 M58S
- 75196 SPEIDEL, G. Analysis of costs and performance in forestry. (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.8:145-154. 1967. 99.9 In82
- 75197 STRANSKY, J. J., and HALLS, L. K. Timber and game food relations in pine-hardwood forests of the southern United States. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.7: 208-217, map. 1967. 99.9 In82
- 75198 SWIFT, E. Trees for Tomorrow. 1. A study in grass roots conservation. *Amer. Forests* 74 (4):20-23, 46. Apr.1968. 99.8 F762  
History of the organization.
- 75199 SZELESS, S. Establishing a work organization in forestry. (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.8:686-705. 1967. 99.9 In82
- 75200 TAYLOR, C. J. The French Forest Service. *Commonwealth Forest. Rev.* 47(1):34-39. Mar. 1968. 99.8 Em72  
History of the Office National des Forets.
- 75201 TRAMPLER, T., and DOBRZANSKA, J. Calculation of the expectation value of stands. (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.8:214-217. 1967. 99.9 In82
- 75202 UECKERMANN, E. The importance of observation railing for forest and game management, exemplified in North-Rhine-Westphalia. (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.7:246-264, map. 1967. 99.9 In82
- 75203 WARDLE, P. A. Valuation in accounts—a comparison of methods. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.8:29-51. 1967. 99.9 In82
- 75204 WARTENÄ, R. 1400-1800, four centuries of forest management in Gelderland. (Du) *Ned. Heidemaatsch. Tijdschr.* 79(1):33-40. (Cont.) Jan.1968. 12 N282
- 75205 WENCL, J. Audiometric investigations on forest laborers. (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.8:678-685. 1967. 99.9 In82  
In relation to injurious effects of sound and vibration by machines.
- 75206 WENDELKEN, W. J. Records of plantation history; expenditure and revenue accounts. *World Symp. Man-Made Forests Indus. Import. [Position Paper]* 14b/1,15 p., map. Ref. 1967. SD391.W6 1967a
- 75207 WENGER, K. F. Multiple-use silviculture in the United States. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.4:619-630. Ref. 1967. 99.9 In82
- 75208 WIKSTROM, J. H., and ALLEY, J. R. Cost control in timber growing on the National Forests of the Northern Region. *U. S. Forest Serv. Res. Paper INT-42*, 37 p. 1967. A99.9 F764U
- 75209 WILLIAMS, E. T. Valuation of forest land and timber under the property tax in the United States. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.8:240-256. 1967. 99.9 In82
- Forest Description and Mensuration
- 75210 ALEXANDER, R. R. Site indexes for Engelmann spruce [*Picea engelmannii*] in the central Rocky Mountains. *U. S. Forest Serv. Res. Paper RM-32*, 7 p. 1967. A99.9 F7632U
- 75211 ASTERIS, C., and KOURTIS, M. Contribution to the knowledge on the relation of crown and stem diameter of fir trees. (Fr) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.6: 250-254. 1967. 99.9 In82
- 75212 ATTIWILL, P. M., and OVINGTON, J. D. Determination of forest biomass. *Forest Sci.* 14 (1):13-15. Mar.1968. 99.8 F7632  
*Pinus sylvestris*.
- 75213 AVERY, T. E. The magic aura of remote sensing. *J. Forest.* 66(3):166-173. Mar.1968. 99.8 F768  
Forestry application in relation to aerial photography.
- 75214 AVERY, T. E., and BURKHART, H. Screening tests for rating photo interpreters. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.6: 20-30. Ref. 1967. 99.9 In82
- 75215 BARE, B. B., and BEERS, T. W. The unbiasedness of horizontal and vertical point sampling for estimating forest volume. *Ind. Agr. Exp. Sta. Res. Progr. Rep.* 312, 6 p. July 1967. 100 In2Res
- 75216 BONNOR, G. M. Stem diameter estimates from crown width and tree height. *Commonwealth Forest. Rev.* 47(1):8-13. Mar.1968. 99.8 Em72
- 75217 BOON, D. A., and STELLINGWERF, D. A. Report on training in photo-interpretation of forest areas in tropical countries. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.6: 12-19. 1967. 99.9 In82
- 75218 BUNN, E. H., and FENTON, B. T. Growth rates, yield and yield prediction, continuous inventory and changes in productivity. Rotations in man-made forests. *World Symp. Man-Made Forests Indus. Import. [Position Paper]* 13/1, 19 p. Ref. 1967. SD391.W6 1967a
- 75219 CHROUST, L. Growth acceleration effect in young pine stand. (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.6:262-273. 1967. 99.9 In82
- 75220 CUNIA, T. Management inventory (CFI, Continuous Forest Inventory) and some of its basic statistical problems. *J. Forest.* 66(4):342-350. Apr.1968. 99.8 F768
- 75221 CZARNOWSKI, M. S., HUMPHREYS, F. R., and GENTLE, S. W. Site index as a function of soil and climatic characteristics. *World Symp. Man-Made Forest Indus. Import. [Position Paper]* 4a/2,10 p. 1967. SD391.W6 1957a  
Australia.
- 75222 DECOURT, N. Relationship between the maximum circumference and the thinning intensity. (Fr) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.6:235-241. 1967. 99.9 In82  
English summary.
- 75223 DERFOLDI, A. Commercial timber estimation and sortiment planning according to volume groups. (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.6:274-281. 1967. 99.9 In82



- 75224 ELLENBERG, H. Decisive site factors and their plant conforming evaluation. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:72-74. 1967. 99.9 In82
- 75225 EVERS, F. H. On the problem of relations between site, stand type, growth and nutrient conditions of soils. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:177-193. Ref. 1967. 99.9 In82
- 75226 EVERT, F. Form height and volume per square foot of basal area. J. Forest. 66(4):358-359. Ref. Apr.1968. 99.8 F768
- 75227 FRANZ, F. Experiences to derive yield level-estimated values for spruce from singly raised stand sizes. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.6:287-303. 1967. 99.9 In82
- 75228 GEORGOPULOS, A., and ASTERIS, K. The accuracy of measuring diameter growth with increment borer. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.6:189-197. Ref. 1967. 99.9 In82
- 75229 GIORDANO, G. Note on the growth of *Araucaria angustifolia* in northern Argentina. (Fr) World Symp. Man-Made Forests Indus. Import. [Position Paper] 13/8,4 p. 1967. SD391.W6 1967a  
English summary.  
Mensuration.
- 75230 GOLUBOVIC, U. Investigation into the most-profitable management diameter sub-class of silver fir (*Abies alba* L.) for sawmill conversion. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.8:266-280. 1967. 99.9 In82
- 75231 GOOSSENS, R. Investigation on the possibilities of using X-rays for measuring annual rings on cores. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.6:334-343. 1967. 99.9 In82
- 75232 GOOSSENS, R. Theoretical calculation for an oval basal surface area. (Fr) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.6:344-355. 1967. 99.9 In82
- 75233 HAKKILA, P. Variation of bark weight within the stem in Finnish pine, spruce and birch timber. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.8:415-424. 1967. 99.9 In82
- 75234 HARTMANN, F. K. Evaluation of growth deciding site factors according to sociological-ecological groups of species—possibilities, limits. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:200-218. Ref. 1967. 99.9 In82
- 75235 HILDEBRANDT, G., and SCHINDLER, C. Area inventories in medium-size inventory areas by aerial photo interpretation of non-uniform length radial lines. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.5:105-114. 1967. 99.9 In82
- 75236 HOLSTENER-JERGENSEN, H. Texture as a site factor on Danish moraine clay. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:219-229. 1967. 99.9 In82
- 75237 INTERNATIONAL UNION OF FORESTRY RESEARCH ORGANIZATIONS. WORKING GROUP ON TERRAIN CLASSIFICATION. Proposal for international system of terrain classification. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.8:756-764. 1967. 99.9 In82
- 75238 JAAKKOLA, S. On the use of variable size plots for increment research. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.6:371-378. Ref. 1967. 99.9 In82
- 75239 JACK, W. H. Single tree sampling in even-aged plantations for survey and experimentation. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.6:379-403. Ref. 1967. 99.9 In82
- 75240 JACKSON, D. S. A neglected criterion for assessing site factors. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:230-238. Ref. 1967. 99.9 In82  
Advantages of periodic increment data.
- 75241 KULOW, D. L., and TRYON, E. H. Yellow-poplar [*Liriodendron tulipifera*] twins reliable for determining site index. J. Forest. 66(3):198. Mar.1968. 99.8 F768
- 75242 LEAF, A. L., and LEONARD, R. E. Measurement of environmental characteristics of a forest stand. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:282-297. 1967. 99.9 In82  
Includes bibliography of forest fertilization and tree nutrition research at the Charles Lathrop Pack forest from 1928 through present, p.291-297.
- 75243 LOETSCH, F., HALLER, E., and HENNING, N. Contribution to mathematical formulation of decreasing stem distributions. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.6:168-181. 1967. 99.9 In82  
English summary.
- 75244 LUST, N. Formulation of equilibrium curve of many trees deduced from the upper diameter classes. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.4:371-385. Ref. 1967. 99.9 In82
- 75245 MADGWICK, H. A. I. Seasonal changes in biomass and annual production of an old-field *Pinus virginiana* stand. Ecology 49(1):149-152. Winter 1968. 410 Ec7
- 75246 MAKOSA, K. Forestry soil-site maps in Poland and principles for their production. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:318-324. 1967. 99.9 In82
- 75247 MEZERA, A. Forest types as units of natural classification and determination of site class of commercial forests. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.4:401-411. 1967. 99.9 In82
- 75248 MLINSEK, D. Growth and reaction capacity of virgin beeches on the Balkan Peninsula (Bosnia). (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.4:425-435. Ref. 1967. 99.9 In82
- 75249 NELSON, T. C. Trends in mensuration research in the southern United States. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.6:404-409. Ref. 1967. 99.9 In82
- 75250 NISHIZAWA, M. Growth estimation by the angle method. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.6:410-425. 1967. 99.9 In82
- 75251 NOVOTNY, M., and PAREZ, J. A simple method of optimum repartition of chief timber assortment production to subordinate units. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.8:295-301. 1967. 99.9 In82
- 75252 NYSSONEN, A. Photographic volume estimation in forest inventory. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.6:1-11. Ref. 1967. 99.9 In82
- 75253 OHTOMO, E. Researches on the angle-count method based upon the sampling theory. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.6:439-456. Ref. 1967. 99.9 In82
- 75254 PLAVSIC, M. Investigations on maturity of largest volume production in fir selection forests. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.8:302-313. 1967. 99.9 In82  
English summary.  
Measurement.
- 75255 POLLANSCHUTZ, J. Volume increment determination with sampling inventories. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.6:457-469. 1967. 99.9 In82
- 75256 POPESCU-ZELETIN, I., and DISCESCU, R. Classification according to the structure of uneven-aged stands in the Romanian Carpathians. (Fr) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.6:470-479. Ref. 1967. 99.9 In82
- 75257 POPESCU-ZELETIN, I. Experiments for determining structure equalization in uneven-aged stands. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.6:480-489. 1967. 99.9 In82
- 75258 POPESCU-ZELETIN, I. Stem plasticity and increment measurement with increment borer. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.6:198-203. 1967. 99.9 In82

- 75259 RADZIMINSKI, S. Dimensional structure of pine sawn timber in relation to loading for forestry transport. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.8:474-480. 1967. 99.9 In82
- 75260 RALSTON, C. W. Recognition and mapping of site types for afforestation. World Symp. Man-Made Forests Indus. Import. [Position Paper] 4a/1, 16 p. Ref. 1967. SD391.W6 1967a
- 75261 REINHOLD, F. Increment conditions and constitutive elements in *Nothofagus obliqua*-robble type of the moderate rain forests of the "little south" in Chile. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.6:129-145. 1967. 99.9 In82
- 75262 SATOO, T. Efficiency and quantity of leaves of closed stands of *Cryptomeria japonica* as influenced by site quality. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:396-404. Ref. 1967. 99.9 In82
- 75263 SCHOPFER, W. A special slide rule for forestry. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.6:492-504. Ref. 1967. 99.9 In82
- 75264 SHOULDERS, E. Growth of slash and longleaf pines [*Pinus elliotii* and *P. palustris*] after cultivation, fertilization, and thinning. U. S. Forest Serv. Res. Note SO-59, 3 p. 1967. A99.9 F7628U
- 75265 SOERANGGADJIWA, M. H. The applicability of Krenn's mean tree tariff for volume determination of *Pinus merkusii* in Indonesia. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.6:515-523. 1967. 99.9 In82
- 75266 STEELE, R. C. Some major uses of vegetation recording in woodland conservation. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.7:330-338. 1967. 99.9 In82
- 75267 STRAND, L. Annual ring index based on continuous sampling. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.6:524-531. 1967. 99.9 In82
- 75268 TEPPER, H. B., WILCOX, H. E., and VALENTINE, F. A. The effect of fertilization and depth to ground water on wood deposition in red pine [*Pinus resinosa*]. Forest Sci. 14(1):2-6. Mar. 1968. 99.8 F7632
- 75269 TIJHONEN, P. Results of experiments for determining the accuracy in estimating height increment. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.6:532-545. 1967. 99.9 In82
- 75270 TRIMBLE, G. R. Multiple stems and single stems of red oak (*Quercus rubra*) give same site index. J. Forest. 66(3):198. Mar. 1968. 99.8 F768
- 75271 TURNBULL, K. J. Analysis of tree increment relative to stand increment trend. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.6:356-360. 1967. 99.9 In82
- 75272 VAN DEUSEN, J. L. Conversion of tree heights in logs to heights in feet: Black Hills ponderosa pine. U. S. Forest Serv. Res. Note RM-94, 2 p. 1967. A99.9 F7632Us
- 75273 VOLKOV, V. D. Determination of current annual increment of birch-type forests. (Rus) Les. Khoz. 1:36-39. Jan. 1968. 99.8 L5622
- 75274 WRIGHT, H. L. Plantation inventory in developing countries. World Symp. Man-Made Forests Indus. Import. [Position Paper] 13/2, 8 p. 1967. SD391.W6 1967a
- 75275 YOUNG, H. E., ROBBINS, W. C., and WILSON, S. Errors in volume determination of primary forest products. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.6:546-562. 1967. 99.9 In82
- 75277 GANE, M. Policy, profits and predictions in forestry. Commonwealth Forest Rev. 47(1):27-33. Mar. 1968. 99.8 Em72
- 75278 U. S. FOREST SERV. 1969 budget, explanatory notes. n.p., 1967. 181 p., map. A99.9 F76Ex

#### Legislation and Taxation

- 75279 BRIGGS, C. W. Capital gain and loss treatment for timber. Forest. Res. Notes 22(7):62-67. Mar. 1968. 99.8 F7692
- 75280 PATTERSON, A. E. Why do some licensing bills pass, some fail? J. Forest. 66(4):368-370. Apr. 1968. 99.8 F768

#### FOREST PRODUCTS AND UTILIZATION

- 75281 BUYER, X. DE. The great autumn sales 1967 in forests submitted to forest management. (Fr) Rev. Forest. Franc. 2:103-127. Feb. 1968. 99.8 R329
- 75282 COULTER, C. H. Timber industry is still on the move in Florida. Fla. Cattleman Livestock J. 32(8):24, 26-27. May 1968. 43.8 F66
- 75283 ELLIOT, C. S. Utilisation of Eucalyptus wood. World Symp. Man-Made Forests Indus. Import. [Position Paper] 19/1, 16 p. 1967. SD391.W6 1967a
- 75284 FOREST PRODUCTS RESEARCH SOCIETY. Abstracts of selected papers presented at the 22nd annual meeting. Forest Prod. J. 18(5):14-18. May 1968. 99.9 F7662J
- 75285 HUGHES, J. F. Utilisation of the wood of low altitude tropical pines. World Symp. Man-Made Forests Indus. Import. [Position Paper] 20/1, 13 p. Ref. 1967. SD391.W6 1967a
- 75286 MACKNEY, A. W. Possibilities of man-made forests for the integration of forest industries. World Symp. Man-Made Forests Indus. Import. [Position Paper] 21/1, 13 p. 1967. SD391.W6 1967a
- 75287 MLINSEK, D. Utilization of hardwood sortiments in southeastern area of Europe. (Ge) Int. Union Forest. Res. Organ. Paper, 14th Congr., v.4:443-448. 1967. 99.9 In82
- 75288 MORGAN, H. E. Not by trees alone. Ala. Forest Prod. 11(4):5, 9-11. Apr. 1968. 99.82 AL1
- 75289 RADNEY, T. Your forest and public opinion. Ala. Forest Prod. 11(4):13-17, 20, 22. Apr. 1968. 99.82 AL1
- 75290 RAWLS, M. G. The role of wood-using industries. Forest Farmer 27(8):11-12, 38, 40. Apr. 1968. 99.8 F7692
- 75291 RICHARDS, E. G. Appraisal of national wood production and consumption trends and their interplay with regional and world trends. World Symp. Man-Made Forests Indus. Import. [Position Paper] 22/1, 10 p. 1967. SD391.W6 1967a
- 75293 YOUNG, H. E. Challenge of complete tree utilization. Forest Prod. J. 18(4):83-86. Apr. 1968. 99.9 F7662J
- 75292 SCHWEITZER, D. L., and LINDELL, G. R. Product diversification and income stability. Forest Prod. J. 18(4):61-65. Apr. 1968. 99.9 F7662J

#### Lumbering and Logging

- 75294 BAUER, E. Characteristic features of the Spanish forestry policy in the 19th century. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.1:83-105. 1967. 99.9 In82
- 75294 BOL, M., and TROMP, P. H. M. New methods in the cutting, processing, and transportation of logs. II. (Du) Ned. Heidemaatsch. Tijdschr. 79(1):8-15. Jan. 1968. 12 N282



- 75295 DOSTAL, D. W. Work experiences in hauling and conversion of large hardwood on slope. (Ge) Lohmununternehmen 23(4):100,102-103. Apr.15,1968. 58.8 D81
- 75296 ESTEVE, J. Log skidding with pneumatic wheel tractors in Gabon. (Fr) Bois Forests Trop. 117:49-68. Jan./Feb.1968. 99.8 B632 English summary.
- 75297 HANSON, A. G. Logging and transport methods in man-made forests. World Symp. Man-Made Forests Indus. Import. [Position Paper] 17/1, 12 p. 1967. SD391.W6 1967a Australia.
- 75298 HEIKINHEIMO, L., and KUNNAS, H. On the absolute level of productivity of wood harvesting for some Finnish pulp mills. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.8: 202-213. 1967. 99.9 In82
- 75299 HENSEL, J. S. Limbing devices. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.9: 325-335. Ref. 1967. 99.9 In82
- 75300 HERMANSEN, N. K. Examples from private forestry in Denmark. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.8:139-144. 1967. 99.9 In82 Felling costs.
- 75301 JORGENSEN, F. Transport costs. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.8: 131-138. 1967. 99.9 In82 Log hauling.
- 75302 KAHALA, M. Influence of limbing device, quality of limbing and length on the felling output of spruce pulpwood. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.8:425-433. 1967. 99.9 In82
- 75303 KAMINSKI, E. Summer felling of pine and preservation against blue stain of the wood. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.8:434-440. 1967. 99.9 In82
- 75304 KATO, S. Standard density of the forest road system in the mountain forests of Japan. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.8:567-581. 1967. 99.9 In82
- 75305 LANDSCHUTZ, W. Theory of predicting required time values in wood felling practice. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.8:550-563. Ref. 1967. 99.9 In82
- 75306 MARCHENKO, N. D., and ZHAROV, V. I. Results of tests of pick-up-loader tractors. (Rus) Les. Khoz. 1:58-63. Jan.1968. 99.8 L5622 Used chiefly in logging.
- 75307 MCINTOSH, J. A., and KERBES, E. L. Tree shears reduce felling costs, offer other savings. Can. Forest. Indus. 88(3):42-47. Mar.1968. 99.81 C16
- 75308 MEYR, R. Modern logging experiments in the mountains. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.8:582-606. 1967. 99.9 In82
- 75309 MOROTO, T. Operational problems in steep mountain regions—the latest developments in private Japanese forestry. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.8:617-638, map. Ref. 1967. 99.9 In82 Logging.
- 75310 PARKER, H. W., GIBSON, H. G., and PHILLIPS, R. A. Wheeled skidder experiments in Appalachia. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.8:364-384. 1967. 99.9 In82
- 75311 PLATZER, H. B. Problems of standard time in scale of wages for felling. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.8: 510-521. Ref. 1967. 99.9 In82
- 75312 STAUD, V., DRESSLER, M., and SVENDA, A. Experiences in research of logging operation and wood transport in the mountains. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.8:607-616. 1967. 99.9 In82
- 75313 TRAMPLER, T. Theoretical prerequisites and calculation of optimal felling age. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.8:314-321. 1967. 99.9 In82
- 75314 VAISANEN, U. Logging and transportation plan of a forest area. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.8:492-509, map. 1967. 99.9 In82 Road utilization.
- 75315 WALL, B. R. 1966 Oregon timber harvest. U. S. Forest Serv. Resour. Bull. PNW-22,2 p. Dec.1967. A99.9 F7625Un
- 75316 WHAYMAN, A. A pygmy skidder for extracting thinnings. Pulp Pap. Mag. Can. 69(5):81-83. Mar.1,1968. 302.8 P96

#### Sawmills

- 75317 MCKILLOP, W., and HOYER-NIELSEN, S. Planning sawmill production and inventories using linear programming. Forest Prod. J. 18 (5):83-88. May 1968. 99.9 F7662J

#### Processing and Woodworking

- 75318 BARZ, E. Contribution to service life extension of wood-working machines by reduction of free surface wear. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.8:385-402. 1967. 99.9 In82
- 75319 CECH, M. Y., and GOULET, M. Transverse compression treatment of wood to improve its drying behavior. Forest Prod. J. 18(5):90-91. May 1968. 99.9 F7662J
- 75320 HOBBS, L. H. Lumber manufacturing defects in the planing mill. N. C. Univ. Ext. Misc. Ext. Publ. 25,31 p. Ref. Oct.1967. S544.3.N6N6
- 75321 QUIRK, J. T., KOZLOWSKI, T. T., and BLOMQUIST, R. F. Effects of adhesive formulation and age on strength of bonded butt joints. U. S. Forest Serv. Res. Note FPL-0178,17 p. Ref. Dec.1967. A99.9 F7634Un
- 75322 QUIRK, J. T., KOZLOWSKI, T. T., and BLOMQUIST, R. F. Location of failure in adhesive-bonded butt joints. U. S. Forest Serv. Res. Note FPL-0177,16 p. Ref. Dec.1967. A99.9 F7634Un Anatomy discussed.
- 75323 YOUNG, R. A., and MEYER, J. A. Heartwood and sapwood impregnations with vinyl monomers. Forest Prod. J. 18(4):66-68. Apr.1968. 99.9 F7662J

#### Seasoning, Conditioning, and Finishing

- 75324 DINEEN, N. J. Dry kiln pressure venting and lumber drying. Forest Prod. J. 18(5):19-23. May 1968. 99.9 F7662J
- 75325 MCMILLEN, J. M. Transverse strains during drying of 2-inch ponderosa pine [Pinus ponderosa]. U. S. Forest Serv. Res. Paper FPL-83,26 p. Ref. Jan.1968. A99.9 F7634U
- 75326 REHMAN, M. A. Development of wood seasoning and timber industries in India. Indian Forest. 94(1):28-31. Jan.1968. 99.8 In2
- 75327 VICK, C. B. Low-temperature drying of 1-inch sweetgum [Liquidambar styraciflua]. Forest Prod. J. 18(4):29-32. Apr.1968. 99.9 F7662J

#### Wood Preservation and Damage

- 75328 AMERICAN WOOD-PRESERVERS' ASSOCIATION. Proceedings, sixty-third annual meeting, Atlanta, Georgia, April 24-26,1967. Washington, D.C., 1967. 427 p. 300.9 Am3
- 75329 BEHR, E. A. Preservative treatment of beech [Fagus grandifolia] by soaking. Mich. Agr. Exp. Sta. Quart. Bull. 49(4):459-465. May 1967. 100 M58S
- 75330 BRAVERY, A. F. Microbiological breakdown of cellulose in the presence of alternative carbon sources. J. Sci. Food Agr. 19(3):133-135. Mar.1968. 382 S012 Wood-destroying fungi.

- 75331 BUCHT, B., and others. Extracellular enzyme system utilized by the rot fungus *Stereum sanguinolentum* for the breakdown of cellulose. I-III. Arch. Biochem. Biophys. 124(1/3):135-153. Ref. Mar.20,1968. 381 Ar2  
K. E. Eriksson, B. Pettersson, and H. Björndal, joint authors.  
I, Studies on the enzyme production; II, Purification of the cellulase; III, Characterization of two purified cellulase fractions.
- 75332 DREITZLER, R. F., and others. Report of Special Committee S-1, revision of glossary of terms used in wood preservation. Amer. Wood-Preserv. Ass. Proc., 63d Annu. Meet.: 44. 1967. 300.9 Am3  
J. O. Blew, R. H. Colley, R. E. Meyers, and W. R. Yeager, joint authors.
- 75333 GURD, J. M., and LUMSDEN, G. Q. Twenty six year performance of Douglas fir [*Pseudotsuga menziesii*] poles Boucherie treated with several inorganic salt solutions. Amer. Wood-Preserv. Ass. Proc., 63d Annu. Meet.:80-87. 1967. 300.9 Am3
- 75334 LUND, A. E., and DREHER, W. A. Field test evaluates termite tubing on wood treated with preservatives. Pest Contr. 35(5):74-78. May 1968. 449.8 Ex8
- 75335 NAZARENKO, N. L. Fungi—wood-destroying. (Rus) Zashch. Rast. 2:37-38. 1968. 421 Z1  
Includes wood preservation.
- 75336 RICARD, J. L., SEED, T. E., and BOLLEN, W. W. B. Control of incipient decay with gases in Douglas-fir [*Pseudotsuga menziesii*] poles. Forest Prod. J. 18(4):45-51. Ref. Apr.1968. 99.9 F7662J  
With methyl bromide.
- 75337 RITCHIE, D. Invasion of some tropical timbers by fungi in brackish waters. Elisha Mitchell Sci. Soc. J. 84(1):221-226. Spring 1968. 500 EL4
- 75338 ROCHE, J. N. The growth of shore and beach construction and what it means to pressure-treated wood. Amer. Wood-Preserv. Ass. Proc., 63d Annu. Meet.:15-19. 1967. 300.9 Am3  
Includes discussion.
- 75339 STASSE, H. L. 1958 cooperative creosote project: IV. Marine tests; analysis of marine panels after exposure for six and a half years. Amer. Wood-Preserv. Ass. Proc., 63d Annu. Meet.: 95-105. 1967. 300.9 Am3
- 75340 TESAROVA, M., and SCHANEL, L. Humus acids as a nutrition source for some white-rot fungi. Biol. Plant. 10(2):135-141. Ref. 1968. 450 B52  
Wood-rotting fungi.
- 75341 VERRALL, A. F. Keep wood dry or use preservatives to control decay fungi in structures. Pest Contr. 36(4):54,69-70. Apr.1968. 449.8 Ex8
- 75342 WETSCH, A. F. Wood pole maintenance. Amer. Wood-Preserv. Ass. Proc., 63d Annu. Meet.:198-203. 1967. 300.9 Am3
- Lumber and Rough Products
- 75343 BORODZIK, E. Once again on the log grading service. (Pol) Las Polski 42(7):7-9. Apr.1/15, 1968. 99.8 L33
- 75344 BRUCE, R. W. Marketing sawmill products in a customer-oriented economy. Forest Prod. J. 18(4):10-13. Ref. Apr.1968. 99.9 F7662J
- 75345 DOYLE, D. V., and MARKWARDT, L. J. Tension parallel-to-grain properties of southern pine dimension lumber. U. S. Forest Serv. Res. Paper FPL-84,36 p.,map. Dec.1967. A99.9 F7634U
- 75346 DUNMIRE, D. E., and ENGLERTH, G. H. Development of a computer method for predicting lumber cutting yields. U. S. N. Cent. Forest Exp. Sta. U. S. Forest Serv. Res. Paper NC-15, 7 p. Aug.1967. aSD11.A34
- 75347 ERICKSON, J. R. Crosscut shearing of wood. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.8:324-337. 1967. 99.9 In82
- 75348 GATCHELL, C. J. Machine-driving of wood posts. (Extracts) Australian Timber J. Building Prod. Merchandiser 34(2):79,81,83-84. Mar.1968. 99.81 Au7
- 75349 HEISKANEN, V. Some aspects of the grading of coniferous sawlogs. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.9:148-165. Ref. 1967. 99.9 In82  
Finland.
- 75350 JOHNSTON, J. S. Investigations of some variables in the cross cutting of small logs by shear blades. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.8:338-363. 1967. 99.9 In82
- 75351 KALLIO, E., and SESCO, J. A. Residential fencing in a metropolitan area and three small towns. U. S. N. Cent. Forest Exp. Sta. U. S. Forest Serv. Res. Paper NC-14,8 p. Aug.1967. aSD11.A34  
Expanding market for lumber.
- 75352 KUBLER, H. Semitubular boards—a new sawing method. Forest Prod. J. 18(5):24-25. May 1968. 99.9 F7662J  
Logs.
- 75353 MALCOLM, F. B. Sacrificing short butt log to chips may reduce lodgepole [*Pinus contorta*] stud warping. Forest Indus. 95(5):88-89. May 1968. 99.81 W52
- 75354 MARK, R. E., ADAMS, S. F., and MAITI, M. Design of a composite pole laminate. Forest Prod. J. 18(4):23-28. Ref. Apr.1968. 99.9 F7662J  
Wood and reinforced plastic.
- 75355 MARKETS for your timber. Forest. Res. Notes 22(7):74-84. Mar.1968. 99.8 F7692  
Location of lumber yards.
- 75356 MOSS, J. S. Prolonging the useful life and maintaining the supply of railway sleepers. Australian Timber J. Building Prod. Merchandiser 34(2):41,43. Mar.1968. 99.81 Au7
- 75357 MUELLER, L. A., and KOVNER, J. L. Lumber production from selected Black Hills ponderosa pine. U. S. Forest Serv. Res. Paper RM-31, 20 p.,map. 1967. A99.9 F7632U  
*Pinus ponderosa* measurement of lumber recovery; includes grading.
- 75358 PISKULA, F. The timber yard—an important part of the modern logging process. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.8: 452-473. Ref. 1967. 99.9 In82
- 75359 RESCH, H., CHOONG, E. T., and SMITH, H. H. Sorting incense cedar [*Libocedrus decurrens*] types for drying. Forest Prod. J. 18(4):40-44. Ref. Apr.1968. 99.9 F7662J
- 75360 STERN, E. G., and PLETTA, D. H. All-nailed lumber truss of 60 to 80-ft. span. Va. Polytech. Inst. Wood Res. Lab. [Bull.] 63,43 p. Nov.1967. 99.9 V8142
- 75361 SUDDARTH, S. K., and REARDON, G. F. Lightweight truss research at Purdue University. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.9:39-55. Ref. 1967. 99.9 In82
- Construction
- 75362 BOHANNAN, B. Structural engineering research in wood. Amer. Soc. Civil Eng. J. 94 (ST2,proc.paper 5784):403-416. Feb.1968. 290.9 Am3Ps
- 75363 COOPER, G. A. Hardwood siding performance. U. S. N. Cent. Forest Exp. Sta. U. S. Forest Serv. Res. Paper NC-16,11 p. Aug.1967. aSD11.A34
- 75364 HOYLE, R. J. Background to machine stress grading. Forest Prod. J. 18(4):87-97. Apr. 1968. 99.9 F7662J  
Review of the literature.  
Structural lumber.
- 75365 MASANI, N. J. From laboratory know-how to field show-how in timber engineering. Indian Forest. 94(1):69-78. Jan.1968. 99.8 In2
- 75366 STRENGE, F. A. New building ideas goal of current FPL [Forest Products Laboratory] research. Forest Prod. J. 18(4):16-17. Apr. 1968. 99.9 F7662J



## Veneers, Plywood, and Adhesives

- 75367 BRYANT, B. S. A new fiber-overlay process for plywood. *Forest Prod. J.* 18(5):51-58. May 1968. 99.9 F7662J
- 75368 FEIHL, O. Design and performance of roller pressure bars for veneer lathes. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.9: 1-24. 1967. 99.9 In82
- 75369 GUTTENBERG, S., and FASICK, C. Economics of plywood production in the southern pine region. *Forest Prod. J.* 18(5):43-47. May 1968. 99.9 F7662J
- 75370 LENEY, L., and MOIR, R. H. Veneer characteristics as related to failure in plywood tension-shear specimens. *Forest Prod. J.* 18(4): 33-39. Apr. 1968. 99.9 F7662J
- 75371 LUTZ, J. F., MERGEN, A., and PANZER, H. Effect of moisture content and speed of cut on quality of rotary-cut veneer. *U. S. Forest Serv. Res. Note FPL-0176*, 13 p. Nov. 1967. A99.9 F7634Un
- 75372 LUTZ, J. F. A survey of some developments in slicing and veneer cutting. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.9:25-38. 1967. 99.9 In82
- 75373 MCGLENN, J., and HARTZ, B. J. Finite element analysis of plywood plates. *Amer. Soc. Civil Eng. J.* 94(ST2, proc. paper 5821):551-563. Feb. 1968. 290.9 Am3Ps
- 75374 MCKIMM, A. Marine plywood. *New Zeal. Stand. Bull.* 14(1):16-18. Jan. 1968. 309.8 N48  
Standard of New Zealand plywood for marine craft.
- 75375 NORTHCOTT, P. L., KREIBICH, R. E., and CURRIER, R. A. First replications comparing bond-degrade-accelerating systems. *Forest Prod. J.* 18(5):58-65. May 1968. 99.9 F7662J
- 75376 RAMSING, K. D. Linear programming for the plywood mix problem. *Forest Prod. J.* 98-101. Apr. 1968. 99.9 F7662J

## Furniture

- 75377 JOHNSON, J. S. Furniture refinishing. *Ark. Univ. Ext. Circ.* 478, rev., 22 p. Oct. 1967. 275.29 Ar4

## Pulp and Paper

- 75378 BRAATHE, P., and OKSTAD, T. Trade of pulpwood based on weighing and dry-matter samples. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.9:236-242. 1967. 99.9 In82  
Norway.
- 75379 CLERMONT, L. P., and BENDER, F. Further studies on the delignifying action of solutions of SO<sub>2</sub>, NO<sub>2</sub> and Cl<sub>2</sub> in dimethylsulphoxide. *Pulp Pap. Mag. Can.* 69(5):75-80. Mar. 1, 1968. 302.8 P96
- 75380 DUBOIS, R. The paper industry in Uruguay: the present situation and the future outlook. (Fr) *Bois Forests Trop.* 117:31-48, map. Jan./Feb. 1968. 99.8 B632  
English summary.  
Includes pulpwood.
- 75381 DYER, R. F., CHASE, A. J., and YOUNG, H. E. Pulp from presently non-commercial woody perennials. *Pulp Pap. Mag. Can.* 69(1):57-62. Ref. Jan. 5, 1968. 302.8 P96  
*Alnus rugosa*, *Salix babiana* and *Vaccinium corymbosum*.
- 75382 HAIR, D. Use of regression equations for projecting trends in demand for paper and board, with projections of demand to 1985 for major grades of paper and board, wood pulp, and pulpwood. *U. S. Forest Serv. Forest Resource Rep.* 18, 178 p. Ref. p. 175-178. Dec. 1967. 1 F76Frr
- 75383 HATTON, J. V. Delignification of kraft pulps by sequential addition of chlorine dioxide and chlorine. III. *Pulp Pap. Mag. Can.* 69(1):67-81. Jan. 5, 1968. 302.8 P96
- 75384 MURRAY, F. E. The oxidation of kraft black liquor. *Pulp Pap. Mag. Can.* 69(1):82-86. Ref. Jan. 5, 1968. 302.8 P96

- 75385 VAN BULJTENEN, J. P. Pulpwood properties and tree breeding, a synthesis. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.9:243-262. Ref. 1967. 99.9 In82

## Chemical Products and Distillates

- 75386 ANDERSON, D. M. W., and CREE, G. M. Studies on uronic acid materials. XXXVII. The structure of the gum from *Acacia nubica* Benth. *Carbohydr. Res.* 6(4):385-403. Ref. Apr. 1968. 385 C172
- 75387 BAGGALEY, K. H., ERDTMAN, H., and NORIN, T. Some new cedrane derivatives from *Juniperus foetidissima* Willd.; configuration of cedrolic acid. *Tetrahedron* 24(8):3399-3405. Apr. 1968. 382 T29
- 75388 BARTON, G. M. Significance of western hemlock [*Tsuga heterophylla*] phenolic extractives in pulping and lumber. *Forest Prod. J.* 18(5): 76-80. May 1968. 99.9 F7662J  
In relation to brown stain of sapwood lumber and low brightness of groundwood pulp.
- 75389 BRUNS, K. Diterpenes. V. On the C13 configuration of the diterpenes from *Araucaria imbricata*, *Pavon* (Araucariaceae). (Ge) *Tetrahedron* 24(8):3417-3423. Ref. Apr. 1968. 382 T29
- 75390 HIROSE, Y., TOMITA, B., and NAKATSUKA, T. The isolation and structure of nezukone. *Agr. Biol. Chem.* 32(2):249-251. Feb. 1968. 385 Ag8B  
Obtained from the wood of *Thuja standishii*.
- 75391 IYENGAR, A. V. V. The east Indian sandalwood oil. *Indian Forest.* 94(1):57-68. Ref. Jan. 1968. 99.8 In2  
*Santalum album*.
- 75392 PEARL, I. A., and DARLING, S. F. Mass spectrometry as an aid for determining structures of natural glucosides. *Phytochem.* 7(5):831-837. Ref. May 1968. 450 P5622  
Isolated from the bark and leaves of *Salicaceae*.
- 75393 WEISSMANN, G. Δ<sup>8</sup>(9), 15 isopimaric acid in the balsam of *Pinus peuce*, Grisebach. (Ge) *Tetrahedron Lett.* 17:2053-2055. Mar. 1968. 385 T29
- 75394 WRIGHT, W. G., PEGEL, K. H., and BROWN, R. T. South African plant extractives. I. An alkaloid, tecleanine, from the family Rutaceae. *Chem. Soc. J. C, Org.* 21:2262. 1967. QD241.C5  
From *Teclea natalensis* bark.

## Naval Stores

- 75395 MICHON, P. Gum trees [*Acacia senegal* and *A. laeta*] in Chad. (Fr) *Bois Forests Trop.* 117:27-30, map. Jan./Feb. 1968. 99.8 B632  
English summary.  
Natural secretions are gathered or the trees are tapped.
- 75396 PEJOSKI, B. An interesting Turkish turpentine regulation from Bosnia from 1871. (Fr) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.1:163-167. 1967. 99.9 In82  
German summary.
- 75397 U. S. CONGRESS. SENATE COMMITTEE ON AGRICULTURE AND FORESTRY. Pine Gum Act of 1967. Hearings—Ninetyeth Congress, first session on S. 2511, a bill to maintain and improve the income of producers of crude pine gum to stabilize production of crude pine gum, and for other purposes. Washington, 1967. 55 p. PREP 2288
- 75398 ZAVARIN, E., and others. Chemical composition of turpentine from *Pinus khasya*. *Forest Sci.* 14(1):55-61, map. Ref. Mar. 1968. 99.8 F7632  
N. T. Mirov, E. N. Cooling, K. Snajberk, and K. Costello, joint authors.

## Other Forest Products

- 75399 ERICKSON, H. D., and LAING, J. R. Vacuum drying of wood flour and wafers at low temperatures. *Forest Prod. J.* 18(5):35-42. Ref. May 1968. 99.9 F7662J

- 75400 FUKUI, H., and KIMURA, S. Face bevel angle (°) and hook angle (°) of carbide tipped saws in sawing wood particle board and fiber board. (Ja) Wood Indus. 23(3):21-27. 1968. 99.82 M72 English summary.
- 75401 GARDNER, R. B. Technical and economic aspects of hydraulic wood-chip pipeline transportation. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.8:403-414. 1967. 99.9 In82
- 75402 OSTALSKI, R. Characteristic of the raw material basis of pine needles in Poland. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:370-382. 1967. 99.9 In82
- 75403 SPALT, H. A., and SUTTON, R. F. Buckling of thin surfacing materials due to restrained hygroexpansion. Forest Prod. J. 18(4):53-57. Apr.1968. 99.9 F7662J Hardboards.
- 75404 YAPTENCO, R. C., HAROLD, M. R., and WYLIE, A. E. Pallet manufacturing costs: a case study. Mich. Agr. Exp. Sta. Quart. Bull. 50(3):365-383. Feb.1968. 100 M58S
- SILVICULTURE
- 75405 ABETZ, P. Establishment and growing of spruce and pine pure stands-with recommendations for further investigations. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.4:13-34. 1967. 99.9 In82
- 75406 ABETZ, P. First results from natural thinning experiments in spruce and pine young stands. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.4:1-12. 1967. 99.9 In82
- 75407 AGER, B. On the choice of logging systems for thinning. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.8:740-755. 1967. 99.9 In82 Review of the literature.
- 75408 ANDO, A. Studies on the productivity of the forest land in the central mountain district. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:75-83, map. 1967. 99.9 In82 Japan.
- 75409 ASSMANN, E. Short survey of important aspects that should be observed in a new thinning experiments. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.6:232-234. 1967. 99.9 In82
- 75410 AVANZO, E. Preliminary report on a comparatively young *Pinus nigra* L. stands in the Rome environment. (Fr) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.6:255-261. 1967. 99.9 In82
- 75411 BASSETT, J. R. Pole production in natural loblolly pine [*Pinus taeda*] stands near Crossett, Arkansas. U. S. Forest Serv. Res. Note SO-58, 5 p.-folder. 1967. A99.9 F7628U
- 75412 BATCHELDER, R. B. Spatial and temporal patterns of fire in the tropical world. Tall Timbers Fire Ecol. Conf. Proc., 6th Annu. Conf.:171-207, map. Ref. 1967. 99.9 T142 Chiefly controlled burning of forests.
- 75413 BONNEMANN, A. Elements of silviculture. (Ge) Allg. Forst- Jagdzeitung 139(4/5):97-101. Apr./May 1968. 99.8 AL3
- 75414 BORSET, O. Relation between silviculture and recreation. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.7:85-92. 1967. 99.9 In82 Norway.
- 75415 BRADLEY, R. T. Thinning experiments and the application of research findings in Britain. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.6:242-249. 1967. 99.9 In82
- 75416 BUILOV, D. A., and ANIKAEV, V. A. Pine species in forest steppe area of southern Urals. (Rus) Les. Khoz. 1:82-83. Jan.1968. 99.8 L5622 Growth in relation to culture.
- 75417 CARBONNIER, C. Permanent thinning and fertilisation experiments in Swedish forest research. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.6:204-215. Ref. 1967. 99.9 In82
- 75418 CASTELLANI, E. Row plantations. (Fr) World Symp. Man-Made Forests Indus. Import. [Position Paper] 11b/1, 24 p. 1967. SD391.W6 1967a English summary. Poplar planting and culture in Italy.
- 75419 CAYFORD, J. H. A review of silvicultural research in jack pine [*Pinus banksiana*]. Can. Dep. Forest. Publ. 1173, 255 p. Ref. 1967. 99.9 C1628P
- 75420 CSORE, P. Traditions of the Hungarian silviculture. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.1:47-56. Ref. 1967. 99.9 In82
- 75421 DOTSENKO, V. M. Restoration of pine forests damaged by root rot. (Rus) Les. Khoz. 1:80-82. Jan.1968. 99.8 L5622 Culture.
- 75422 ELSNER, F. Early larch culture in the Bamberg Hauptsmoorwald and its effects in Franconia. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.1:67-70. 1967. 99.9 In82
- 75423 FRANZ, F. Methodical problems in the outline of silvicultural treatment experiments according to the suggestions of P. Abetz. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.4:35-39. 1967. 99.9 In82
- 75424 FRIES, J. Variation in forest stands as a basis for the planning of experiments. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.6:37-54. Ref. 1967. 99.9 In82 In relation to thinning and fertilizing.
- 75425 GALLAGHER, G. A study on the initial effects of green pruning *Pinus radiata* and *Pinus contorta*. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.6:304-333. Ref. 1967. 99.9 In82 Increment effects.
- 75426 GESSEL, S. P. Concepts of forest productivity. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:36-50. Ref. 1967. 99.9 In82 Includes soil-site factor studies.
- 75427 GHOSH, R. C. *Cryptomeria japonica* plantations in west Bengal. Indian Forest. 94(1):104-111. Jan.1968. 99.8 In2
- 75428 GIORDANO, G. Some aspects of the integration of poplar growing with the wood-using industries in Italy. (Fr) World Symp. Man-Made Forests Indus. Import. [Position Paper] 21/2, 14 p. SD391.W6 1967a English summary.
- 75429 GOES, E., and FERREIRINHA, M. P. The growing and use of Eucalyptus in Portugal. (Fr) World Symp. Man-Made Forests Indus. Import. [Position Paper] 19/2, 7 p. 1967. SD391.W6 1967a English summary.
- 75430 GORDON, D. T. Prescribed burning in the interior ponderosa pine type of northeastern California; a preliminary study. U. S. Forest Serv. Res. Paper PSW-45, 20 p. 1967. A99.9 F7652P
- 75431 GORSHENIN, N. M. Classification of cutting systems. (Rus) Les. Khoz. 1:29-30. Jan.1968. 99.8 L5622
- 75432 HEJMANOWSKI, S., DABROWSKI, T., and STAWECKA, W. The effect of soil cultivation on the increment of poplar in plantations. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.4:278-292. 1967. 99.9 In82 Poland.
- 75433 HELLINGA, G. Final report of the working groups "Silvicultural problems which arise by difficult utilization of thinner wood sortiments." (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.4:293-298. 1967. 99.9 In82 Chiefly on silviculture.
- 75434 HENDINGER, H. Coppice system of management and tanbark production in Franconia in the 18th and 19th centuries. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.1:168-179. Ref. 1967. 99.9 In82



- 75435 HILF, H. H. The influence of the natural development of the utilization of coniferous round timber on the future goals of silvicultural measures, especially for central European conditions. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.4:299-313. Ref. 1967. 99.9 In82  
Chiefly on silvicultural measures for quality roundwood.
- 75436 HOLZER, K. Formation of lammas shoots as test for altitudinal site of spruce (*Picea abies* L. Karst.). (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:602-620. Ref. 1967. 99.9 In82  
English summary.
- 75437 IZYUMSKII, P. P. On methods of improvement cuttings of forests. (Rus) Les. Khoz. 1:23-26. Jan.1968. 99.8 L5622
- 75438 JEZEWSKI, Z. New trends in osier cultivation. (Pol) Nowe Roln. 17(3):20-23. Feb.1/15,1968. 20.5 N86
- 75439 JORDAN, J. S., and SHARP, W. M. Seeding and planting hemlock for ruffed grouse cover. U. S. Forest Serv. Res. Paper NE-83, 17 p. 1967. A99.9 F7622Un  
Pennsylvania.
- 75440 KAMINSKI, E., and KOWALSKI, J. Obtaining small-size wood in series and selection thinning. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.8:441-451. 1967. 99.9 In82  
Pine.
- 75441 KETCHAM, D. E., WELLNER, C. A., and EVANS, S. S. Western white pine [*Pinus monticola*] management programs realigned on northern Rocky Mountain national forests. J. Forest. 66(4):329-332. Ref. Apr.1968. 99.8 F768  
Includes blister rust control program.
- 75442 KNABE, W. Man-made forests on man-made ground. World Symp. Man-Made Forests Indus. Import. [Position Paper] 9d/2,7 p. Ref. 1967. SD391.W6 1967a
- 75443 KRAPPENBAUER, A. Serpentine, dolomite and calcareous soils and their effect on forest nutrition. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:261-269. 1967. 99.9 In82  
Austria.
- 75444 KROLIKOWSKI, L., and STRZELEC, Z. Clayey mine wastes/from strip mine/increase the growth of osier on sand pits. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.4:341-352. 1967. 99.9 In82  
Salix spp. in Poland.
- 75445 LAATSCH, W. Relations between site factors, nutritional condition and growth performance of forest stands. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:22-35. Ref. 1967. 99.9 In82
- 75446 LEMOINE, B. Modern designs for silvicultural studies of *Pinus pinaster* in the "Landes de Gascogne." First results of a factorial design. (Fr) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.4:353-370. 1967. 99.9 In82  
English summary.  
Thinning and pruning.
- 75447 LISENKOV, A. F. Determination of initial stocking of oak plantings. (Rus) Les. Khoz. 1:45-47. Jan.1968. 99.8 L5622  
According to crown projection.
- 75448 MADGWICK, H. A. I. Measuring biological parameters in the forest environment. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.6:55-60. Ref. 1967. 99.9 In82  
Estimating productivity.
- 75449 MANTEL, K. The beginning of silviculture and tending of forests in the middle ages in Germany. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.1:20-46. Ref. 1967. 99.9 In82
- 75450 MARQUIS, D. A. Clearcutting in northern hardwoods: Results after 30 years. U. S. Forest Serv. Res. Paper NE-85, 13 p. Ref. 1967. A99.9 F7622Un
- 75451 MARUKYAN, S. M. Methods for determination of economic effectiveness of improvement cuttings. (Rus) Les. Khoz. 1:5-9. Jan.1968. 99.8 L5622
- 75452 MIKOLA, P. Special techniques for poorly drained sites including peat bogs, swamps etc. World Symp. Man-Made Forests Indus. Import. [Position Paper] 9b/1,14 p. 1967. SD391.W6 1967a  
Finland.
- 75453 MILLER, H. G., and MILLER, J. D. Changes in weight and nutrient content of litter-fall beneath Corsican pine [*Pinus nigra calabrica*] following application of nitrogen. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:335-351. Ref. 1967. 99.9 In82
- 75454 MIRONOV, V. V., ERUSALIMSKII, V. I., and ANTSIFEROV, G. I. Culture of coniferous species on cutover areas under mechanized preparation of sites. (Rus) Les. Khoz. 1:41-45. Jan.1968. 99.8 L5622
- 75455 MOULOPOULOS, C. Silvicultural problems presented in the difficult utilization of small dimension wood in Greece. (Fr) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.4:449-455. 1967. 99.9 In82
- 75456 MRAZ, K. Dynamic and silvicultural-ecological aspects in the system of forest humus forms. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:352-369. Ref. 1967. 99.9 In82
- 75457 MURARO, S. J. Methods and needs for evaluation performance of prescribed fires. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.5:843-865. Ref. 1967. 99.9 In82  
Canada.
- 75458 NEUSTEIN, S. A. Slash disposal for regeneration. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.4:456-463. 1967. 99.9 In82  
Great Britain.
- 75459 NEWTON, M. Chemical silviculture—low-cost intensive forestry. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.4:465-470. Ref. 1967. 99.9 In82
- 75460 OTSUKA, T. Planting programs on slopes. World Symp. Man-Made Forests Indus. Import. [Position Paper] 9c/1,21 p. 1967. SD391.W6 1967a
- 75461 PAGONY, H. Investigations on pruning of poplar and its effect on the health of the stem. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.4:494-496. 1967. 99.9 In82
- 75462 PELISEK, J. Supplies of easily soluble nitrogen (Np) in forest soils of Czechoslovakia. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:383-388. 1967. 99.9 In82
- 75463 PRIEST, D. T. Saw-log models for pruning and sawmill research. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.9:166-171. 1967. 99.9 In82
- 75464 PRYOR, L. D. Eucalyptus in plantations—present and future. World Symp. Man-Made Indus. Import. [Position Paper] 4b/2,9 p. 1967. SD391.W6 1967a
- 75465 QURESHI, I. M. The concept of fast growth in forestry and the place of indigenous fast growing broad-leaved species. Indian Forest. 94 (1):51-56. Jan.1968. 99.8 In2
- 75466 RAMBELLI, A. Preliminary investigations on the mycorrhizal rhizosphere in *Pinus radiata* D. Don. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:389-394. 1967. 99.9 In82
- 75467 REISSINGER, G. Simple cultivation experiments; angle planting. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.8:639-652. 1967. 99.9 In82
- 75468 RUBNER, K., RUBINER, H., and RITTERSHOFER, F. Principles of natural silviculture in Europe. (Ge) Forstwiss. Centralbl. 87(1):8-36. Ref. Feb.1968. 99.8 F775
- 75469 RUBTSOV, V. G., and SOKOLOV, A. A. Drainage of forests located near streams. (Rus) Les. Khoz. 1:26-28. Jan.1968. 99.8 L5622

- 75470 RUDNICKI, J. The problem of favorable time for executing melioration and tending measures in forest regeneration and afforestation processes. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.4:516-527. 1967. 99.9 In82
- 75471 SAGREIYA, K. P., and NATH, B. Maximum production from the tropical dry deciduous forests. Indian Forest. 94(1):20-27. Jan.1968. 99.8 In2  
Coppice with reserves system applied.
- 75472 SIDDIQUI, K. M. Irrigated forest plantation in West Pakistan. World Symp. Man-Made Forests Indus. Import. [Position Paper] 9a/4, 3 p. Ref. 1967. SD391.W6 1967a
- 75473 SMITH, L. F. Effects of spacing and site on the growth and yield of planted slash pine [*Pinus elliotii*]. U. S. Forest Serv. Res. Note SO-63, 4 p. 1967. A99.9 F7628U
- 75474 STIELL, W. M. Thinning technique improves quality of white pine [*Pinus strobus*] stands. Can. Forest. Indus. 88(3):54-56. Mar.1968. 99.81 C16
- 75475 SUSMEL, L. Physical character of humus in relation to natural regeneration and to spontaneous vegetation. (Fr) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:405-416. 1967. 99.9 In82
- 75476 TAMM, C. O., and others. Forecasting forest yield from observations of site characteristics. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:2-21. Ref. 1967. 99.9 In82  
T. Troedsson, J. E. Lundmark, and O. Persson, joint authors.
- 75477 TOROPOGRITSKII, D. P. Effect of deep preparation of site on growth of pine trees growing on sandy soils. (Rus) Les. Khoz. 1:48-50. Jan.1968. 99.8 L5622
- 75478 TREGUBOV, V. Forest conversion of mountain and hill gradations on the Caspian Sea in Iran by silvicultural treatment. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.4:559-578. 1967. 99.9 In82
- 75479 VAN HAVERBEKE, D. F., and BOLDT, C. E. Vigor and density of shelterbelt conifers can be improved. J. Forest. 66(3):187-192. Mar.1968. 99.8 F768  
Effect of release of suppressed *Pinus ponderosa* and *Juniperus virginiana*.
- 75480 VOGL, R. J. Controlled burning for wildlife in Wisconsin. Tall Timbers Fire Ecol. Conf. Proc., 6th Annu. Conf.:47-96. Ref. 1967. 99.9 T142  
Includes forests.
- 75481 WARDLE, P. A. Practice and research in spacing, thinning and pruning. World Symp. Man-Made Forests Indus. Import. [Position Paper] 7/1, 19 p. 1967. SD391.W6 1967a  
Review of literature.
- 75482 WEETMAN, G. F. Nitrogen deficient black spruce [*Picea mariana*] on raw humus soils in northern Quebec—response to thinning and urea treatments. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.4:608-618, map. Ref. 1967. 99.9 In82
- 75483 WESTRA, J. J. Age and tree dimensions in the first thinning of larch stands in Drente (Netherlands). (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.4:631-634. 1967. 99.9 In82
- 75484 WILLISTON, H. L., and DICKERSON, B. P. Influence of site and stand density on loblolly pine [*Pinus taeda*] yield. Forest Farmer. 27(6): 10-11. Mar.1968. 99.8 F7692
- 75485 WILLISTON, H. L. Thinning desirable in loblolly pine [*Pinus taeda*] plantations in west Tennessee. U. S. Forest Serv. Res. Note SO-61, 7 p. 1967. A99.9 F7628U  
Includes costs and returns.
- 75486 ZAK, G. A., and TSERLING, G. I. The role of mass mycorrhiza-formation in growing larch seedlings in the steppe areas. (Rus) Akad. Nauk SSSR. Izv. Ser. Biol. 1:149-154. Jan./Feb.1968. 511 Sa2B  
English summary.
- 75487 ZAVITKOVSKI, J., and NEWTON, M. The role of snowbrush, (*Ceanothus velutinus* Dougl.), and red alder, (*Alnus rubra* Bong.), in forest regeneration in the Pacific Northwest. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2: 429-440. Ref. 1967. 99.9 In82  
Silvicultural and ecological role.
- Regeneration
- 75488 ADAMS, R. S., and EDEN, C. J. Four chemical conditioners do not improve condition of four conifer seedlings in California test. Tree Planters' Notes 19(1):14-18. Ref. Mar.1968. 1.962 C5T71  
To keep in good physiological condition during storage.
- 75489 AISSA, J. B. Coastal sand dune fixation and reforestation in Tunisia. (Fr) World Symp. Man-Made Forests Indus. Import. [Position Paper] 9a/2, 6 p. 1967. SD391.W6 1967a  
English summary.
- 75490 ALLAN, T. G. Industrial plantation establishment methods in Zambia. World Symp. Man-Made Forests Indus. Import. [Position Paper] 6/3, 9 p. 1967. SD391.W6 1967a  
Site preparation and planting.
- 75491 BLOOMBERG, W. J. A technique for recovering seeds from forest nursery beds. Can. J. Plant Sci. 48(3):330-342. May 1968. 450 C16  
Non-germinant coniferous seeds.
- 75492 BOLDT, C. E. Survival and early growth of ponderosa pine planting stock in the Black Hills. U. S. Forest Serv. Res. Note RM-97, 4 p. 1968. A99.9 F7632Us
- 75493 BOULER, T. P. A practical homemade nursery soil sifter. Tree Planters' Notes 19(1):1-2. Mar.1968. 1.962 C5T71
- 75494 BRINAR, M. A versatile, useful spontaneous pine mutant. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:807-810. 1967. 99.9 In82  
Yugoslavia.
- 75495 BROWN, C. H. Afforestation programmes in relation to national economy (with special reference to North America, southern Africa, Australia, New Zealand and Chile). World Symp. Man-Made Forests Indus. Import. [Position Paper] 2b/1, 15 p. 1967. SD391.W6 1967a
- 75496 BROWN, J. H., and GOULD, W. P. Regeneration following cutting in a mixed-oak [*Quercus*] stand in Rhode Island. R. I. Agr. Exp. Sta. Bull. 394, 16 p. 1967. 100 R34S
- 75497 CARMICHAEL, A. J. Shallow sand cover gives best germination of black spruce [*Picea mariana*] seeds. Tree Planters' Notes 19(1):5-7. Mar.1968. 1.962 C5T71  
Canada.
- 75498 CASTELLANI, E., SEKAWIN, M., and FRISON, G. Experience in the use of grafting in propagation of poplar. (Fr) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:161-617. 1967. 99.9 In82  
English summary.  
*Populus deltoides*.
- 75499 CATINOT, R. Special forms of afforestation—row plantations, enrichment planting, shelterbelts and windbreaks. (Fr) World Symp. Man-Made Forests Indus. Import. [Position Paper] 11c/1, 15 p. Ref. 1967. SD391.W6 1967a  
English summary.  
Tropics.
- 75500 CHODZICKI, E. Growth of *Larix* of different origin from Europe on the provenance test plot in Kolanow. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.4:119-145. Ref. 1967. 99.9 In82
- 75501 COPEL, D. Influence of cambial contact length on graft survival and leader elongation in Douglas-fir. U. S. Forest Serv. Res. Note PNW-69, 8 p. Ref. Nov.1967. A99.9 F7625U
- 75502 CRUWYS, G. E. Lining out in a small nursery. Quart. J. Forest. 62(1):52-58. Jan.1968. 99.8 Q2  
Transplanting of seedlings.



- 75503 DE PHILIPPIS, A., and GIORDANO, E. Practice and research in nursery techniques in the temperate zone. World Symp. Man-Made Indus. Import. [Position Paper] 5a/1,32 p. Ref. 1967. SD391.W6 1967a
- 75504 DELL, T. R., and COLLICOTT, L. V. Growth in relation to density for slash pine [*Pinus eliottii*] plantations after first thinning. Forest Sci. 14(1):7-12. Mar.1968. 99.8 F7632
- 75505 DIMANCHE, P. SCHOENENBERGER, A., and MARION, J. Locality studies in northern Tunisia. (Fr) Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.2:159-166. 1967. 99.9 In82 For reforestation.
- 75506 DUSEK, V. Utilization of root pruning method on transplanted *Fagus sylvatica* L. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.4:146-159. Ref. 1967. 99.9 In82
- 75507 DYRENKOV, S. A. Implements and methods of manual planting in some foreign countries. (Rus) Les. Khoz. 1:93-95. Jan.1968. 99.8 L5622
- 75508 FALLA RAMIREZ, A. Reforestation of mountain areas in tropical America. (Sp) World Symp. Man-Made Forests Indus. Import. [Position Paper] 9c/7,23 p.,map. Ref. 1967. SD391.W6 1967a English summary. Latin America.
- 75509 FLETCHER, A. M., HOWELL, R. S., and FAULKNER, R. Problems associated with the layout of progeny-tests in Britain, with special reference to a recent plot-size experiment. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.2:426-434. Ref. 1967. 99.9 In82
- 75510 FORRESTER, D. The plus trees. Brit. Columbia Lumberman 52(4):70-73. Apr.1968. 99.81 B77 Douglas fir propagation by grafting.
- 75511 FROHLICH, H. J., and others. Investigations on heredity value testing of seed orchards. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.2:467-490. Ref. 1967. 99.9 In82 G. Baumeister, W. Grossourth, and H. Weisgerber, joint authors. In relation heterosis breeding of trees.
- 75512 FUISZ, J. Results of rapid seed tests accomplished with the mineral trials. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.2:88-99. 1967. 99.9 In82
- 75513 GRAYSON, A. J. Afforestation planning at the national and project levels. World Symp. Man-Made Forests Indus. Import. [Position Paper] 12/1,19 p. 1967. SD391.W6 1967a Review of literature.
- 75514 GREVATT, J. G., and WARDLE, P. A. Two mathematical models to aid in nursery planning. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.6:361-370. 1967. 99.9 In82
- 75515 HAGMAN, M. Genetic mechanism affecting inbreeding and outbreeding in forest trees; their significance for microevolution of forest tree species. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.2:346-365. 1967. 99.9 In82 Review of the literature.
- 75516 HAGMAN, M. Serological studies of pollen, and the incompatibility in forest trees. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.2:60-71. Ref. 1967. 99.9 In82
- 75517 HETT, J. M., and LOUCKS, O. L. Application of life-table analyses to tree seedlings in Quetico Provincial Park, Ontario. Forest. Chron. 44(2):29-32. Ref. Apr.1968. 99.8 F7623
- 75518 HOSNER, J. F., and MADGWICK, H. A. I. Concepts of tree growth. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.7:353-361. Ref. 1967. 99.9 In82
- 75519 HUTNIK, R. J., and HICKOK, K. H. Effect of spacing on dry matter production in red pine [*Pinus resinosa*] plantations. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.4:314-328. Ref. 1967. 99.9 In82
- 75520 IYAMABO, D. E. Practice and research in tropical nursery technique. World Symp. Man-Made Forests Indus. Import. [Position Paper] 5b/1,15 p. Ref. 1967. SD391.W6 1967a
- 75521 JANSON, L. Vegetative reproduction of poplars of the section *leuce* Duby. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.2:205-223. 1967. 99.9 In82
- 75522 KEDHARNATH, S. Tree improvement—its impact on man-made forests. World Symp. Man-Made Forests Indus. Import. [Position Paper] 10/1,19 p. 1967. SD391.W6 1967a Review of literature.
- 75523 KERESZTESI, B. Forest tree improvement in Hungary. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.2:792-806. 1967. 99.9 In82
- 75524 KISSER, J. Problems of breeding smoke resistant wood species. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.5:510-517. 1967. 99.9 In82
- 75525 KRAHL, J. Spiral grain of beech. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.9:384-397. 1967. 99.9 In82 Environmental and genetical aspects in *Fagus sylvatica*.
- 75526 KRIEBEL, H. B. The timing of the incompatibility reaction in interspecific crosses of *Pinus strobus* L. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.2:77-87. Ref. 1967. 99.9 In82
- 75527 KRUG, H. P. Planning for afforestation and planting in Brazil. World Symp. Man-Made Forests Indus. Import. [Position Paper] 12/2, 9 p. 1967. SD391.W6 1967a
- 75528 LACAZE, J. F. Comparison of some provenances of Douglas-fir in the Barres Arboretum. (Fr) Rev. Forest. Franc. 20(1):28-32, map. Jan.1968. 99.8 R329 From Washington and Oregon.
- 75529 LAMB, A. F. A. Choice of pines for lowland tropical sites. World Symp. Man-Made Forests Indus. Import. [Position Paper] 4b/3,17 p. Ref. 1967. SD391.W6 1967a Breeding progress for various provenances.
- 75530 LANGLET, Q. Regional intra-specific variousness. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.2:435-438. 1967. 99.9 In82 Review of the literature. Provenance study.
- 75531 LANIER, L. G. Effect of different-aged needles on the growth of *Pinus sylvestris* L. (Fr) Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.5:501-509. 1967. 99.9 In82
- 75532 LEWIS, N. B. Regeneration of man-made forests. World Symp. Man-Made Forests Indus. Import. [Position Paper] 8/1,15 p. 1967. SD391.W6 1967a
- 75533 LINES, R. The international larch provenance experiment in Scotland. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.2:755-781. Ref. 1967. 99.9 In82 Incidence of canker, dieback and infestation with *Adelges* spp. were also assessed at different age of *Larix decidua* and *L. leptolepis*.
- 75534 MAKONEN, O. What did they know about tree propagation in the ancient times. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.1:10-19. 1967. 99.9 In82
- 75535 MATYAS, V. Some problems of the Hungarian forestry seed industry. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.2:119-128. Ref. 1967. 99.9 In82
- 75536 MLINSEK, D. Regeneration and development of coppice in pine-beech virgin forest "Rog" (Slovenia). (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.4:436-442. Ref. 1967. 99.9 In82
- 75537 MORANDINI, R. Planning of species and provenance trials. World Symp. Man-Made Forests Indus. Import. [Position Paper] 4b/1,9 p. 1967. SD391.W6 1967a
- 75538 NAMKOONG, G. Multivariate methods for multiple regression provenance analysis. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.2:308-318. Ref. 1967. 99.9 In82

- 75539 NEWHOUSE, M. E., and MADGWICK, H. A. I. Comparative seedling growth of four hardwood species. *Forest Sci.* 14(1):27-30. Mar.1968. 99.8 F7632
- 75540 NICOTA, B., and STAMENKOV, M. Some data of weights of 1000 grains hybrid seeds obtained through interspecific and intraspecific crossing from *Pinus peuce/Gris/*. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.2:811-814. 1967. 99.9 In82
- 75541 NOZICKA, J. Beginning of afforestation and artificial regeneration in Czechoslovakia, 1243-1770. (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.1:57-66. Ref. 1967. 99.9 In82
- 75542 O'CARROLL, N. Early growth of conifers on machine-cutover peatland. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.4:471-482. 1967. 99.9 In82  
Ireland.
- 75543 PIUSSI, P. Characteristics of Norway spruce seed collected at different elevations. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.4:510-515. 1967. 99.9 In82
- 75544 ROBERDS, J. H., ZOBEL, B. J., and KELLISON, R. C. Progeny testing in the N.C. State University-Industry Tree Improvement program. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.2:387-394. 1967. 99.9 In82  
Determination of genetic value of the clones in seed orchards and the estimation of genetic variances.
- 75545 ROCHE, L. The value of short term studies in provenance research. *Commonwealth Forest. Rev.* 47(1):14-26. Ref. Mar.1968. 99.8 Em72  
Value in silviculture, selection and breeding.
- 75546 SCHMIDT-VOGT, H., and GURTH, P. The importance of fresh condition of forest plants on the success of new growth and young growth of forest cultures. (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.4:539-558. Ref. 1967. 99.9 In82
- 75547 SCHREINER, E. J. Physiological and biochemical research on asexual reproduction in forest trees; an essential approach to early maximum genetic improvement. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.2:224-247. 1967. 99.9 In82  
Review of the literature.
- 75548 SLEE, M. U., and REILLY, J. J. The production of improved tree seed in Queensland. *World Symp. Man-Made Forests Indus. Import. [Position Paper]* 10/2,19 p. Ref. 1967. SD391.W6 1967a
- 75549 SMITH, A. M. S. Practice and research in establishment techniques. *World Symp. Man-Made Forests Indus. Import. [Position Paper]* 6/1,23 p. Ref. 1967. SD391.W6 1967a  
Site preparation and planting.
- 75550 SMITH, J. H. G., WALTERS, J., and HADDOCK, P. G. Planting can be better than direct seeding of Douglas-fir [*Pseudotsuga menziesii*]. *J. Forest.* 66(4):351-353. Ref. Apr.1968. 99.8 F768
- 75551 SNYDER, E. B. Seed yield and nursery performance of self-pollinated slash pines [*Pinus elliotii*]. *Forest Sci.* 14(1):68-74. Ref. Mar.1968. 99.8 F7632
- 75552 SORENSEN, F. Two-year results of a West-East transect-provenance test of Douglas-fir in Oregon. *U. S. Forest Serv. Res. Note PNW-72*, 8 p. Dec.1967. A99.9 F7625U
- 75553 STANEK, W. Development of black spruce [*Picea mariana*] layers in Quebec and Ontario. *Forest. Chron.* 44(2):25-28. Apr.1968. 99.8 F7623
- 75554 STONE, E. C. Afforestation techniques for arid conditions. *World Symp. Man-Made Forests Indus. Import. [Position Paper]* 9a/1,17 p. Ref. 1967. SD391.W6 1967a
- 75555 STRZYGOWSKI, W. Reforestation of the shores of Greece, a prerequisite for increasing tourism and therewith the most important future income sources. (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.7:362-381. 1967. 99.9 In82
- 75556 TIGERSTEDT, P. M. A. Quantitative genetics in provenance research of forest trees. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.2:395-412. 1967. 99.9 In82  
Bibliography, p.408-412.
- 75557 VAN BUJTENEN, J. P., and STERN, K. Marginal populations and provenance research. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.2:319-331. 1967. 99.9 In82  
Review of the literature.
- 75558 VINE, B. A contribution to the Norway spruce provenance research. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.2:743-754. Ref. 1967. 99.9 In82  
Czechoslovakia.
- 75559 VOGT, A. R. Juvenile growth of the northern red oak [*Quercus borealis*]. *Ohio Woodlands* 6(2):14-15. Feb./Apr.1968. 99.8 Oh34
- 75560 VYSKOT, M. Comparison of different provenances of larch (*Larix decidua* Mill.). *Int. Union Forest. Res. Organ. Papers*, 14th Congr. Congr., v.2:719-742. Ref. 1967. 99.9 In82  
Czechoslovakia
- 75561 WALTERS, R. S. Christmas tree report. *Ohio Woodlands* 6(2):16-18. Feb./Apr.1968. 99.8 Oh34  
Breeding and introduction of new species.
- 75562 WEBSIER, R. J. Some problems of reforestation in north-east Derbyshire. *Quart. J. Forest.* 62(1):37-45. Jan.1968. 99.8 Q2
- 75563 WENTZEL, K. F. Importance, outlook and limits of breeding smoke resistant tree species in light of emission ecological experiences in central Europe. (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.5:536-555. Ref. 1967. 99.9 In82
- 75564 WOOD, F. Tree seed collection and processing. *Ohio Woodlands* 6(2):6-7,12. Feb./Apr. 1968. 99.8 Oh34
- 75565 WRIGHT, J. W. NC-51 experience in provenance testing. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.2:366-386. 1967. 99.9 In82
- 75566 ZAVADIL, Z. Evaluating of difference in grafting of some coniferous tree species. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.2:191-204. Ref. 1967. 99.9 In82
- 75567 ZOTTOLA, G. Men, food and forests; working for their food, previously unemployed Algerians are creating valuable forests and regaining their dignity as men. *FAO (Food Agr. Organ.) Rev.* 1(1):55-57. Jan./Feb.1968. TX341.F63  
Reforestation camps.

## WOOD TECHNOLOGY

- 75568 ALMIN, K. E., and ERIKSSON, K. E. Influence of carboxymethyl cellulose properties on the determination of cellulase activity in absolute terms. *Arch. Biochem. Biophys.* 124(1/3):129-134. Ref. Mar.20,1968. 381 Ar2
- 75569 BERNIER, G. A., and KLINE, D. E. Dynamic mechanical behavior of birch compared with methyl methacrylate impregnated birch from 90° to 475°K. *Forest Prod. J.* 18(4):79-82. Apr.1968. 99.9 F7662J
- 75570 BOYD, J. D. Effect of plantation conditions on wood properties and utilisation. *World Symp. Man-Made Forests Indus. Import. [Position Paper]* 18/1,30 p. 1967. SD391.W6 1967a  
Bibliography, p.22-30.  
Effects of environment and cultural practices.
- 75571 BRAUNER, A. B., and LOOS, W. E. Color changes in black walnut [*Juglans nigra*] as a function of temperature, time, and two moisture conditions. *Forest Prod. J.* 18(5):29-34. May 1968. 99.9 F7662J  
In sapwood and heartwood.
- 75572 BURKART, L. F., and WATTERSTON, K. G. Effect of environment on ratio of cellulose to lignin in shortleaf pine [*Pinus echinata*]. *Forest Prod. J.* 18(5):25-28. Ref. May 1968. 99.9 F7662J



- 75573 BURLEY, J., PRESS, A., and MORGAN, J. F. Pine wood quality studies in Central Africa. 2. Development of laboratory techniques. A. Spiral grain. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.9:436-457. 1967. 99.9 In82
- 75574 CASPERSON, G. Reaction wood formation by centrifugation. (Ge) *Experientia* 24(3):300-302. Mar.15,1968. 475 Ex7  
English summary.  
Tested with *Aesculus hippocastanum*.
- 75575 CHOONG, E. T., and FOGG, P. J. Moisture movement in six wood species. *Forest Prod. J.* 18(5):66-70. May 1968. 99.9 F7662J
- 75576 DAVIES, G. W. Electron microscopy and cell wall porosity. APPITA (Australian Pulp Pap. Indus. Tech. Ass.) 21(4):117-121. Ref. Jan. 1968. 302.8 Au7  
Wood fibers.
- 75577 DUFFIELD, J. W. An evolutionary view of wood. *J. Forest.* 66(4):354-357. Apr.1968. 99.8 F768  
Review of literature.  
Interrelation between wood structure and stem form.
- 75578 FERRARI, G. Within-tree variation of wood chemical composition in *Populus X euramericana*. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.9:300-324. Ref. 1967. 99.9 In82
- 75579 FIELDING, J. M. Spiral grain in *Pinus radiata* plantations in the Australian Capital Territory. Australia. Forest. Timber Bur. Leaflet. 103, 28 p. Ref. 1967. 99.8 Au73
- 75580 FOUARGE, J. Chemical analysis and composition of wood. (Fr) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.9:269-285. 1967. 99.9 In82
- 75581 HARRIS, J. M. Latewood, earlywood, and wood density. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.9:56-69. Ref. 1967. 99.9 In82
- 75582 HAYASHI, T., and OKADA, K. A new device for measurement of fiber direction. (Ja) *Jap. J. Breeding* 18(1):53. Feb.1968. 64.8 J27  
Wood fibers.
- 75583 HELLAWELL, C. R. Some practical background to considerations of the economic significance of spiral growth. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.9:458-469. Ref. 1967. 99.9 In82  
*Pinus radiata*, *P. nigra* and *Larix decidua*.
- 75584 HOADLEY, R. B. Strain analysis in wood by means of moiré patterns. *Forest Prod. J.* 18(5):48-50. May 1968. 99.9 F7662J
- 75585 JOZEFACIUK, J. Technical quality of spruce wood following various methods of stem tapping. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.9:172-178. 1967. 99.9 In82
- 75586 KANO, T. Concave or convex traces on the log face as an indicator to over-grown knots of sugi (*Cryptomeria japonica*). Int. Union Forest. Res. Organ. Papers, 14th Congr., v.9:134-147. 1967. 99.9 In82
- 75587 KLEINSCHMIT, J., and KNIGGE, W. Environment and heritability related variation of dry substance production, structure and raw density of young spruce (*Picea abies* Karst). (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:557-580. Ref. 1967. 99.9 In82
- 75588 KOLTZENBURG, C. The effect of light, sociological standing and site on the wood properties of *Fagus sylvatica* L. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.9:210-235. Ref. 1967. 99.9 In82
- 75589 KOO, K. H., and HONG, S. H. Tracheid length and compression strength of *X Pinus rigitaeda* and its backcross hybrid. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 9(2):117-123. Ref. Dec.1966. 22.5 K843  
English summary.
- 75590 LOWERY, D. P. Some studies of spiral grain. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.9:470-483. Ref. 1967. 99.9 In82
- 75591 MCGINNES, E. A. Extent of shake in black walnut [*Juglans nigra*]. *Forest Prod. J.* 18(5):80-82. May 1968. 99.9 F7662J
- 75592 MCKAY, G. D. M. Effect of inorganic salts on the pyrolysis of cellulose. *Forest Prod. J.* 18(5):71-75. May 1968. 99.9 F7662J
- 75593 MEYER, J. A. Crosslinking affects sanding properties of wood-plastic. *Forest Prod. J.* 18(5):89. May 1968. 99.9 F7662J
- 75594 MEYLAN, B. A. Cause of high longitudinal shrinkage in wood. *Forest Prod. J.* 18(4):75-78. Apr.1968. 99.9 F7662J
- 75595 NOSKOWIAK, A. F. Spiral grain patterns from increment cores. *Forest Prod.* 18(4):57-60. Apr.1968. 99.9 F7662J
- 75596 POLGE, H. Proposition for better utilization of variation curves in wood density. (Fr) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.9:286-299. Ref. 1967. 99.9 In82
- 75597 SACHSSE, H. The water/gas condition in the pore area of wood in view of heartwood formation. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.9:70-92. Ref. 1967. 99.9 In82  
*Populus euramericana*.
- 75598 SCHWEERS, W. Model experiments of hydrolysis of lignin. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.9:263-268. 1967. 99.9 In82
- 75599 STRICKLER, M. D. High temperature moisture relations of grand fir [*Abies grandis*]. *Forest Prod. J.* 18(4):69-75. Apr.1968. 99.9 F7662J
- 75600 TANG, W. K., and EICKNER, H. W. Effect of inorganic salts on pyrolysis of wood, cellulose, and lignin determined by differential thermal analysis. U. S. Forest Serv. Res. Paper FPL-82,30 p. Ref. Jan.1968. A99.9 F7634U
- 75601 VENKATARAMANAN, S. V. Spiral grain in chir (*Pinus roxburghii* Sargent). (Extracts). Int. Union Forest. Res. Organ. Papers, 14th Congr., v.9:484-497. Ref. 1967. 99.9 In82
- 75602 VON WEDEL, K. W. Knotwood in loblolly pine [*Pinus taeda*]. N. C. Univ. Sch. Forest. Tech. Rep. 36,45 p. Ref. Dec.1967. 99.9 N8182
- 75603 WOBST, H. The effect of red heart formation of beech stem wood on some characteristic physical, mechanical-technological properties. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.9:179-209. Ref. 1967. 99.9 In82  
*Fagus sylvatica*.
- 75604 WOLTER, K. E. A new method for marking xylem growth. *Forest Sci.* 14(1):102-104. Mar. 1968. 99.8 F7632  
*Pinus resinosa*.
- 75605 YANAI, H. Studies on the chemical utilization of scrap woods. 4. Development of a manufacturing process of pulverized active carbon by fluidized gasification. (Ja) *Wood Indus.* 23(4):19-24. Ref. 1968. 99.82 M72  
English summary.
- 75606 ZIEGLER, H. Biological aspects of heartwood formation. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.9:93-116. Ref. 1967. 99.9 In82
- 75607 ZOBEL, B., and others. Moisture content of southern pine trees. N. C. Univ. Sch. Forest. Tech. Rep. 37,44 p. Feb.1968. 99.9 N8182  
M. Matthias, J. H. Roberds, and R. C. Kellison, joint authors.





## PLANT SCIENCE

## GENERAL

- 75608 AGAYEV, M. G. On the versatility of speciation processes. (Rus) Bot. Zhur. [Moscow] 53 (1):23-38. Ref. Jan.1968. 451 R923  
English summary.  
Includes plants.
- 75609 ALPERN, B., and LIABEUF, J. J. Palynological considerations on the Westphalian and Stephanian, recommendation concerning a parastatotype. (Fr) Acad. Sci. Compt. Rend. Ser. D. 265(12):840-843. Sept.18,1967. 505 P21
- 75610 ASAMA, K. Evolution of plants. I. With special reference to the causes of evolution. (Ja) Biol. Sci. 19(4):145-152. (Cont.) Feb.1968. 442.8 B5264
- 75611 AVAKOV, G. S. Recent data on the flora and climate of the Konkian (Middle Miocene). (Rus) Akad. Nauk SSSR. Dokl. 176(2):395-398. 1967. 511 P444A
- 75612 BONNEFILLE, R. Contribution to the flora of a Pleistocene layer in the high valley of Awusa (Ethiopia). (Fr) Acad. Sci. Compte Rendu 266 (12):12229-1232. Ref. Mar.18,1968. 505 P21
- 75613 BUDANTSEV, L. YU. The late Cretaceous flora of the Viliuyian depression. (Rus) Bot. Zhur. [Moscow] 53(1):3-16. Jan.1968. 451 R923  
English summary.
- 75614 CHELIDZE, L. T. Myrica species in the Godersk series. (Geo) Akad. Nauk Gruz. SSR. Soobshch. 47(1):107-114. July 1967. 511 Ak146  
Russian summary.
- 75615 CORSIN, P., CORSIN, P. M., and GUERRIER, R. Apropos the Westphalian-Stephanian boundary. (Fr) Acad. Sci. C. R., Ser. D, 266(13):1373-1378. Mar.23,1968. 505 P21  
Include paleobotany.
- 75616 CORSIN, P., BOUROZ, A., and LAVEINE, J. P. The stratotype of Westphalian Carboniferous in the coal basin of North-Pas-de-Calais; limits and paleontological contents. (Fr) Acad. Sci. C. R., Ser. D, 266(5):455-460. Ref. Jan.29, 1968. 505 P21  
Includes paleobotany.
- 75617 CRABTREE, K. Pollen analysis. Sci. Progr. [Oxford] 56(221):83-101. Ref. Spring 1968. 472 Sci22
- 75618 GALTIER, J. A new type of filiform fructification from the Lower Carboniferous. (Fr) Acad. Sci. C. R., Ser. D, 266(10):1004-1007. Ref. Mar.4,1968. 505 P21  
Paleobotany.
- 75619 GILLIAM, J. A., KAPP, R. O., and BOGUE, R. D. A post-Wisconsin pollen sequence from Vestaburg Bog, Montcalm County, Michigan. Mich. Acad. Sci. Arts Lett. Papers 52(1):3-17, map. Ref. 1966, pub.1967. 500 M582
- 75620 HENDERSON, S. M., and ZSCHEILE, F. P. A simple temperature control for phytotrons. J. Agr. Eng. Res. 12(3):233-237. Sept.1967. 58.8 J82
- 75621 KENADY, R. M. A water-trap pollen sampler. Forest Sci. 14(1):105-106. Mar.1968. 99.8 F7632
- 75622 KOLESHNIKOVA, T. D. Some results of the palaeocarpological investigations of the Quaternary floras from the northwestern regions of the European part of the U.S.S.R. (Rus) Bot. Zhur. [Moscow] 53(1):17-22. Ref. Jan.1968. 451 R923  
English summary.
- 75623 KRASSILOV, V. A. A new group of mesozoic gymnosperms—Czekanowskiales. (Rus) Akad. Nauk SSSR. Dokl. 178(4):942-945. Feb.1,1968. 511 p444A
- 75624 LEMOIGNE, Y., and SCHAARSCHMIDT, F. Anatomical characteristics of the tree Ullmannia bronni Goepert, based on samples of axial leaves from the German Permian. (Fr) Acad. Sci. C. R., Ser. D, 266(9):875-877. Feb.26, 1968. 505 P21
- 75625 MAEKAWA, F. The genus Disanthus viewed from the Palao-equatorial distribution. (Ja) J. Jap. Bot. 43(2):7-11, map. Feb.1968. 450 J8223  
English summary.  
From Paleogene.
- 75626 MARGALITADZE, N. A., BURCHULADZE, A. A., and TOGONIDZE, G. I. Determination of the absolute age of the Holocene peat with the radioactive carbon method (Georgian SSR). (Rus) Akad. Nauk Gruz. SSR. Soobshch. 49(1):195-198. Jan.1968. 511 Ak146  
Pollen studies.
- 75627 MOTT, R. J. A radiocarbon-dated marine algal bed of the Champlain Sea episode near Ottawa, Ontario. Can. J. Earth Sci. 5(2):319-324. Ref. Apr.1968. 403 C16
- 75628 NIKONOV, A. A. On the development of forests and peat-bogs in the west of Kola Peninsula in the Holocene. Vses. Geogr. Obschest. Izv. 100(1):8-14. Ref. Jan./Feb.1968. 511 L546
- 75629 NUMATA, M. Miscellaneous notes on a botanical trip in Brazil. (Ja) Biol. Sci. 19(4):181-186. Feb.1968. 442.8 B5264
- 75630 PLATT, R. The saga of a tree. Amer. Forests 74(4):36-37, 48-50. Apr.1968. 99.8 F762  
Longevity of some notable trees.
- 75631 POMEROY, K. B., and LITTLECOTT, L. C. The social register: 85 new champs. Amer. Forests 73(9):28-33. Sept.1967. 99.8 F762  
Notable trees.
- 75632 PROCTOR, V. W. Long-distance dispersal of seeds by retention in digestive tract of birds. Science 160(3825):321-322. Ref. Apr.19,1968. 470 Sci2
- 75633 ROGERSON, C. T., RICKETT, H. W., and BECKER, H. Index to American botanical literature. Torrey Bot. Club. Bull. 95(2):206-223. Mar./Apr.1968. 451 T63B
- 75634 RUBTSOV, N. I. Foreign botanists in Crimea. (Rus) Bot. Zhur. [Moscow] 53(3):418-420. 1968. 451 R923  
Austrians.
- 75635 RUZICKA, J. Hundred years of the botanic garden of the Central Agricultural Technical School (Stredna Zemedelska Technicka Skola) at Tabor. (Cz) Ziva 14(5):168-170, map. Sept.1966. 409.6 Z6
- 75636 RYERE, Y. Data on structure and morphology of prepollens of the genus Classopollis (Pflug) Pocock and Jansonius; paleobotanical and stratigraphical importance. (Fr) Acad. Sci. Compte Rendu 266(12):1233-1235. Mar.18,1968. 505 P21
- 75637 SRIVASTAVA, S. K. Ephedralean pollen from the Upper Cretaceous Edmonton formation of Alberta (Canada) and their paleoecological significance. Can. J. Earth Sci. 5(2):211-221. Ref. Apr.1968. 403 C16
- 75638 TAYLOR, T. N., and EGGERT, D. A. Petrified plants from the upper Mississippian of North America. II. Lepidostrobus fayettevillense sp. n. Amer. J. Bot. 55(3):306-313. Ref. Mar. 1968. 450 Am36
- 75639 TERASMAE, J., and LASALLE, P. Notes on late-glacial palynology and geochronology at St. Hilaire, Quebec. Can. J. Earth Sci. 5(2):249-257. Ref. Apr.1968. 403 C16
- 75640 TIWARI, R. S. Hennellysporites, a new microspore genus from Lower Gondwana horizons. Cur. Sci. 37(2):52-53. Ref. Jan.20,1968. 475 Sci23
- 75641 TUYAMA, T. On the relationship of the plant names on the Bonin Islands and the Sandwich Islands. (Ja) J. Jap. Bot. 43(2):31-32. Feb. 1968. 450 J8223
- 75642 WOLF, F. A. Fungus spores in Lake Singleary sediment. Elisha Mitchell Sci. Soc. J. 84 (1):227-232. Spring 1968. 500 EL4  
Paleobotany, North Carolina.

- 75643 YANKYAVICHUS, K. K. Activities of the Institute of Botany of the Academy of Sciences of the Lithuanian SSR [Lietuvos TSR Mosklų Akademija, Botanisches Institut]. (Rus) Bot. Zhur. [Moscow] 53(3):410-416. 1968. 451 R923  
Includes list of publications.
- 75644 ZHILIN, S. G., A new species of the genus *Cocculus* from the late Oligocene of the west Aral area. (Rus) Bot. Zhur. [Moscow] 52(2): 256-258. Feb. 1968. 451 R923
- MORPHOLOGY, ANATOMY, AND CYTOLOGY
- 75645 AMER, S. M. Effects of podophyllin and 8-hydroxyquinoline on meiosis. Biol. Plant. 10(1): 15-19. 1968. 450 B52  
Broadbeans.
- 75646 APPEGARTH, D. A., and BOZOLAN, G. The cell wall of *Penicillium roquefortii*. Can. J. Microbiol. 14(4):489-490. Apr. 1968. 421 C16
- 75647 AYENSU, E. S. The anatomy of *Barbaceniopsis*, a new genus recently described in the Velloziaceae. Amer. J. Bot. 55(4):399-405. Ref. Apr. 1968. 450 Am36
- 75648 BARKSDALE, A. W. Meiosis in the antheridium of *Achlya ambisexualis* E 87. Elisha Mitchell Sci. Soc. J. 84(1):187-194. Ref. Spring 1968. 500 EL4
- 75649 BASSETT, I. J., and CROMPTON, C. W. Pollen morphology and chromosome numbers of the family Plantaginaceae in North America. Can. J. Bot. 46(4):349-361. Ref. Apr. 1968. 470 C16C
- 75650 BEMPONG, M. A., and SINK, K. C. Meiotic chromosome analysis in the 42-chromosome poinsettia, *Euphorbia pulcherrima*. Can. J. Genet. Cytol. 10(1):198-199. Mar. 1968. 443.8 C16
- 75651 BLACKMAN, E. The pattern and sequence of opaline silica deposition in rye (*Secale cereale* L.). Ann. Bot. (n.s.) 32(125):207-218. Ref. Jan. 1968. 450 An7  
A cytological and biochemical study.
- 75652 BORNMAN, C. H., ADDICOTT, F. T., and LYON, J. L. Anatomy of gibberellin-induced stem abscission in cotton. Amer. J. Bot. 55(3): 369-375. Mar. 1968. 450 Am36
- 75653 BOSTICK, L. R. Studies of the morphology of *Chytridiomyces hyalinus*. Elisha Mitchell Sci. Soc. J. 84(1):94-99. Ref. Spring 1968. 500 EL4
- 75654 BOUILLOT, J. Study of female gametogenesis in *Juglans regia* L. (Juglandaceae). (Fr) Acad. Sci. C. R., Ser. D, 266(13):1397-1400. Mar. 23, 1968. 505 P21
- 75655 BOULIGAND, Y., PUISIUX-DAO, S., and SOYER, M. O. Morphologically determined relation between the chromosomes and nuclear membranes in certain Peridinales. (Fr) Acad. Sci. Compte Rendu 266(12):1287-1289. Mar. 18, 1968. 505 P21  
*Anemonia sulcata*, and *Amphidinium carteri*.
- 75656 BRACHET, J. Some molecular aspects of cytology and embryology. (Fr) Cambridge Phil. Soc. Biol. Rev. 143(1):1-16. Ref. Feb. 1968. 442.9 C14  
English summary.  
Includes *Acetabularia*.
- 75657 BRUNAUD, A. The fertile shoot of *Oxypetalum coeruleum* Dec. (Asclepiadaceae in interpetiolar inflorescence) is constructed according to the monopodial type. (Fr) Acad. Sci. C. R., Ser. D. 266(11):1116-1119. Mar. 11, 1968. 505 P21
- 75658 BRUNORI, A., and D'AMATO, F. The DNA content of nuclei in the embryo of dry seeds of *Pinus pinea* and *Lactuca sativa*. Caryologia 20 (2):153-161. Ref. Apr./June 1967. 442.8 C25
- 75659 BYSTROVA, V. I. Some data on karyotype of *Paris incompleta* Bier. (Rus) Bot. Zhur. [Moscow] 53(3):369-370. Ref. 1968. 451 R923
- 75660 CHEN, C. C., and GRANT, W. F. Morphological and cytological identification of the primary trisomics of *Lotus pedunculatus* (Leguminosae). Can. J. Genet. Cytol. 10(1):161-179. Ref. Mar. 1968. 443.8 C16
- 75661 CHOUDHURI, H. C. Spontaneous chromosome aberrations in *Melandrium album*. Can. J. Genet. Cytol. 10(1):143-147. Ref. Mar. 1968. 443.8 C16
- 75662 CLELAND, R. A dual role of turgor pressure in auxin-induced cell elongation in *Avena sativa* coleoptiles. Planta 77(2):182-191. Ref. 1967. 450 P693
- 75663 COLE, K., BOURNE, V., and LIN, S. C. Electron microscope observations on chloroplasts of cultured *Leathesia difformis* (L.) Aresch. Can. J. Genet. Cytol. 10(1):63-67. Mar. 1968. 443.8 C16
- 75664 COLLINS, G. B. Somatic chromosomal irregularities in *Nicotiana glauca* Viv. Crop Sci. 8(1):91-93. Jan./Feb. 1968. 64.8 C883
- 75665 COUDREC, H. New method for the tridimensional study of chromosomes. (Fr) Acad. Sci. C. R., Ser. D, 266(14):1479-1482. Apr. 1, 1968. 505 P21  
Remark by J. J. Trillat.  
In *Ranunculus repens*.
- 75666 DICK, C. Isolation of nuclei and histones from roots of *Vicia faba*. Arch. Biochem. Biophys. 124(1/3):431-435. Ref. Mar. 20, 1968. 381 Ar2
- 75667 DIETRICH, J. Ultrastructure of the spindle of karyokinesis in prometaphase in the mother cells of microspores of *Lilium candidum*. (Fr) Acad. Sci. C. R., Ser. D, 266(6):579-581. Feb. 5, 1968. 505 P21
- 75668 DODGE, J. D. The fine structure of chloroplasts and pyrenoids in some marine dinoflagellates [*Aureodinium pigmentosum* and *Glenodinium* sp.]. J. Cell Sci. 3(1):41-48. Ref. Mar. 1968. QH301.J6
- 75669 DOROFEEV, V. F. New forms of the hard wheat. (Rus) Selek. Semenovodstvo 1:74. Jan./Feb. 1968. 61.9 Se5  
Morphological aspect.
- 75670 DVORAK, J. Endopolyploidy in the roots of rye *Secale cereale* L. Biol. Plant. 10(2):112-117. Ref. 1968. 450 B52
- 75671 EBERT, W. W., and KNOWLES, P. F. Developmental and anatomical characteristics of thin-hull mutants of *Carthamus tinctorius* (Compositae). Amer. J. Bot. 55(4):421-430. Ref. Apr. 1968. 450 Am36
- 75672 ECHLIN, P. Pollen. Sci. Amer. 218(4):81-90. Apr. 1968. 470 Sci25  
Morphological study.
- 75673 ELLIS, J. R., and BARTON, D. M. Thermoelectric cooling for making permanent cytological preparations. Heredity 23(1):149-151. Feb. 1968. 443.8 H42  
Plant chromosomes.
- 75674 ENDO, R. M., THOMSON, W. W., and KRAUSMAN, E. M. Effects of D-galactose on the ultrastructure of bentgrass [*Agrostis palustris*] root apices. Can. J. Bot. 46(4):391-395. Ref. Apr. 1968. 470 C16C
- 75675 FLORY, W. S., and PHILLIPS, R. P. Chromosome numbers in *Hemerocallis washingtonia* "static dwarf" plants. Plant Life 24:84-86. 1968. 450 P695
- 75676 FOZDAR, B. S., and LIBBY, W. J. Chromosomes of *Sequoia sempervirens*; 8-hydroxyquinoline-castor oil pretreatment for improving preparation. Stain Technol. 43(2):97-100. Ref. Mar. 1968. 442.8 St1
- 75677 FRIEDMANN, I., and COLWIN, A. L., and COLWIN, L. H. Fine-structural aspects of fertilization in *Chlamydomonas reinhardtii*. J. Cell Sci. 3(1):115-128. Ref., p. 126-128. Mar. 1968. QH301.J6



- 75678 GAROT, G., and others. The effects of micro-irradiation on microsporocytes and microspores of *Tradescantia paludosa*. I. Meiosis in the microsporocytes in vitro. (Fr) *Can. J. Genet. Cytol.* 10(1):44-49. Mar.1968. 443.8 C16  
J. Lebrun-Peremans, L. Moreau, and A. Gilles, joint authors.  
English summary.
- 75679 GAUTHIER, F. M., and MCGINNIS, R. C. The meiotic behaviour of a nulli-haploid plant in *Avena sativa* L. *Can. J. Genet. Cytol.* 10(1):186-189. Ref. Mar.1968. 443.8 C16
- 75680 GIFFORD, E. M., and STEWART, K. D. Inclusions of the proplastids and vacuoles in the shoot apices of *Bryophyllum* and *Kalanchoe*. *Amer. J. Bot.* 55(3):269-279. Ref. Mar.1968. 450 Am36  
Tests with *Bryophyllum daigremontianum* and *Kalanchoe blossfeldiana*.
- 75681 GODINEAU, J. C. Ultrastructure of various ovule tissues of *Crepis tectorum* L. in meiotic prophase; data on cytoplasm of mother cells of megaspores. (Fr) *Acad. Sci. C. R., Ser. D*, 266(10):1008-1010. Mar.4,1968. 505 P21
- 75682 GOGGANS, J. F., and POSEY, C. E. Variation in seeds and ovulate cones of some species and varieties of *Cupressus*. *Ala. Agr. Exp. Sta. Circ.* 160,23 p.,map. Ref. Feb.1968. 100 AL1S
- 75683 GOODMAN, M. M. A measure of "overall variability" in populations. *Biometrics* 24(1):189-192. Mar.1968. 442.8 B5224  
Maize and cotton morphology.
- 75684 GORDEEVA, L. N. Forming buds of the lower part of grape stem. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 132:297-301. 1967. 20 M857  
A morphological and anatomical study.
- 75685 GREENWOOD, M. S., and BERLYN, G. P. Feulgen cytophotometry of pine [*Pinus lambertiana*] nuclei; effects of fixation, role of formalin. *Stain Technol.* 43(2):111-117. Ref. Mar. 1968. 442.8 St1
- 75686 GUEDES, M. Diplophyll morphology of the leaves of *Symmeria paniculata* Benth. (Polygonaceae). (Fr) *Acad. Sci. C. R., Ser. D*, 266(13):1385-1387. Mar.23,1968. 505 P21
- 75687 GUEDES, M. Univalent prophyllum of *Zebrina pendula*, Schnizl., *Commelinaceae*. (Fr) *Acad. Sci. Compte Rendu* 266(12):1248-1250. Mar.18, 1968. 505 P21
- 75688 GUERVIN, C., and LE COQ, C. Karyological study by means of scanning ultramicroscope. (Fr) *Acad. Sci. C. R., Ser. D*, 266(12):1239-1241. Mar.18,1968. 505 P21  
*Callisia elegans* as test plants.
- 75689 GUPTA, S. C., PALIWAL, G. S., and AHUJA, R. The stomata of *Nelumbo nucifera*; formation, distribution and degeneration. *Amer. J. Bot.* 55(3):295-301. Ref. Mar.1968. 450 Am36
- 75690 HESS, W. M., SASSEN, M. M. A., and REMSEN, C. C. Surface characteristics of *Penicillium* conidia. *Mycologia* 60(2):290-303. Ref. Mar./Apr.1968. 450 M99
- 75691 HIRAMATSU, N. Observation on *Nostoc ellipso-*sporum with special reference to the akinete. *J. Jap. Bot.* 43(2):1-6. Feb.1968. 450 J8223  
Chiefly cytology.
- 75692 HITCH, P. A., and SHARMAN, B. C. Initiation of procambial strands in leaf primordia of *Dactylis glomerata* L. as an example of a temperate herbage grass. *Ann. Bot. (n.s.)* 32(125):153-164. Jan.1968. 450 An7  
An anatomical study.
- 75693 HOFFMAN, L. R. Observations on the fine structure of *Oedogonium*. IV. The mature pyrenoid of *Oe. cardiacum*. *Amer. Microscop. Soc. Trans.* 87(2):178-185. Ref. Apr.1968. 440.9 Am33
- 75694 HORIE, M., YAMAMURA, I., and HOSOYAMA, T. Statistical studies on various characteristics of crop plants. IV. Varietal differences of a morphological characteristic of rice plants when three plant-spacings at various levels of nitrogen fertilizers are put together. (Ja) *Crop Sci. Soc. Japan. Proc.* 36(2):173-178. June 1967. 22.5 C88  
English summary.
- 75695 HORIE, M., YAMAMURA, I., and ROSOYAMA, T. Statistical studies on various characteristics of crop plants. V. Varietal differences of a morphological characteristic of rice plants when three plant-spacings and three nitrogen levels are put together. (Ja) *Crop Sci. Soc. Japan. Proc.* 36(2):179-184. June 1967. 22.5 C88
- 75696 HOSHIKAWA, K. Studies on the development of endosperm in rice. 1. Process of endosperm tissue formation. (Ja) *Crop Sci. Soc. Japan. Proc.* 36(2):151-161. Ref. June 1967. 22.5 C88  
English summary.
- 75697 HOSHIKAWA, K. Studies on the development of endosperm in rice. 9. Size and shape of endosperm cells in foreign rice varieties. (Ja) *Crop Sci. Soc. Japan. Proc.* 37(1):87-96. Ref. Feb.1968. 22.5 C88  
English summary.
- 75698 HOSHIKAWA, K. Studies on the development of endosperm in rice. 10. Electron microscopic studies on the development of starch granules in the endosperm cells. (Ja) *Crop Sci. Soc. Japan. Proc.* 37(1):97-106. Ref. Feb. 1968. 22.5 C88  
English summary.
- 75699 HUFFMAN, D. M. Meiotic behavior in the mushroom *Collybia maculata* var. *scorzonerea*. *Mycologia* 60(2):451-456. Ref. Mar./Apr.1968. 450 M99
- 75700 HUNSLEY, D., and BURNETT, J. H. Dimensions of microfibrillar elements in fungal walls. *Nature* 218(5140):462-463. Ref. May 4,1968. 472 N21  
*Phytophthora parasitica*, *Neurospora crassa*, and *Schizophyllum commune*.
- 75701 ICHIKAWA, S., and SPARROW, A. H. The use of induced somatic mutations to study cell division rates in irradiated stamen hairs of *Tradescantia virginiana* L. *Jap. J. Genet.* 43(1):57-63. Ref. Mar.1968. 442.9 J27  
Gamma rays.
- 75702 INAMDAR, J. A. Foliar sclereids in *Clerodendrum fragrans* R. Br. *Cur. Sci.* 37(2):57. Jan. 20,1968. 475 Sci23
- 75703 JAGELS, R. Celloidin embedding under alternating pressure and vacuum. *Amer. Microscop. Soc. Trans.* 87(2):263-265. Apr.1968. 440.9 Am33  
A technique for botany.
- 75704 JALOUZOT, R. Comparison of the extent of differentiation in pollen cells of *Crocus longiflorus* (Iridaceae) and radicular apex cells of *Allium sativum* (Liliaceae). (Fr) *Acad. Sci. C. R., Ser. D*, 266(14):1496-1498. Apr.1,1968. 505 P21  
Cytochemical study.
- 75705 JOSHI, P. C., and BALL, E. Growth of isolated palisade cells of *Arachis hypogaea* in vitro. *Develop. Biol.* 17(3):308-325. Ref. Mar.1968. 442.8 D49
- 75706 KALINA, M., and GAHAN, P. B. A gelatin film method for improved histochemical localization of dehydrogenases in plant cells. *Stain Technol.* 43(2):51-57. Ref. Mar.1968. 442.8 St1  
*Vicia faba*.
- 75707 KAPLAN, D. R. Structure and development of the perianth in *Downingia bacigalupii*. *Amer. J. Bot.* 55(4):406-420. Ref. Apr.1968. 450 Am36
- 75708 KERR, N. S., and WAXLAX, J. N. The fusion of plasmodia of a true slime mold [*Didymium nigripes*] grown on various nutrients and the mixing of fused plasmodia. *Amer. Microscop. Soc. Trans.* 87(2):197-200. Apr.1968. 440.9 Am32

- 75709 KHALEM, G. Evidence of correlations determining the normal morphogenesis of auxillary complexes of *Acalypha ciliata* Forsk. (Fr) Acad. Sci. C. R., Ser. D, 266(10):1011-1013. Mar.4, 1968. 505 P21
- 75710 KING, C. B. Not-so-dwarf spruce [*Picea canadensis albertiana*]. Amer. Nurseryman 77(6): 28. Mar.15, 1968. 80 Am371  
Typical white spruce foliage growing out of top of 15 foot "dwarf" Alberta spruce.
- 75711 KISHIKAWA, H. Cytological studies on rye plants with seven and eight accessory chromosomes. Jap. J. Genet. 43(1):33-42. Ref. Mar. 1968. 442.9 J27
- 75712 KOCH, W. J. Studies of the motile cells of chytrids. IV. Planonts in the experimental taxonomy of aquatic Phycmycetes. Elisha Mitchell Sci. Soc. J. 84(1):69-83. Ref. Spring 1968. 500 EL4
- 75713 KONJIN, T. M. Chemotaxis in the cellular slime molds. II. The effect of cell density. Biol. Bull. 134(2):298-304. Ref. Apr. 1968. 448.8 B52  
*Dictyostelium discoideum*.
- 75714 KOSHY, T. K. Evolutionary origin of *Poa annua* L. in the light of karyotypic studies. Can. J. Genet. Cytol. 10(1):112-118. Mar. 1968. 443.8 C16
- 75715 KUNDU, B. C., and SAHA, B. Observations on the phloem in three species of *Mimosa*. Experientia 24(3):287-288. Ref. Mar.15, 1968. 475 Ex7  
*Mimosa pudica*, *M. himalayana*, and *M. pigra*.
- 75716 LEISER, A. T. A mucilaginous root sheath in Ericaceae. Amer. J. Bot. 55(3):391-398. Ref. Mar. 1968. 450 Am36  
An anatomical study.
- 75717 LEMAN, A. Biogenic reduction of neutral red. (Ge) Protoplasma 64(2):201-208. Ref. 1967. 442.8 P94  
English summary.  
Tested with onion tissues.
- 75718 LIBERMAN-MAXE, M. Differentiation of the pores of the sieve cells of *Polypodium vulgare* (Polypodiaceae). (Fr) Acad. Sci. C. R., Ser. D, 266(8):767-769. Feb.19, 1968. 505 P21
- 75719 LONGEVIALLE, M. Embryogenesis of *Campanulaceae*; development of the embryo in *Specularia perfoliata* L. (D. C.). (Fr) Acad. Sci. C. R., Ser. D, 266(5):461-464. Ref. Jan.29, 1968. 505 P21
- 75720 MAHLBERG, P. G., and SABHARWAL, P. S. Origin and early development of nonarticulated laticifers in embryos of *Euphorbia marginata*. Amer. J. Bot. 55(3):375-381. Ref. Mar. 1968. 450 Am36
- 75721 MAIZONNIER, D. Use of cold as prefixing agent for chromosome counting on root apices of autotetraploid crimson clover. (Fr) Ann. Amelior. Plantes 18(1):81-84. 1968. 14 F8499A
- 75722 MANOCHA, M. S., and COLVIN, J. R. Structure of the cell wall of *Pythium debaryanum*. J. Bacteriol. 59(3):1140-1152. Ref. Mar. 1968. 448.3 J82
- 75723 MATIENKO, B. T. The chromoplasts of the red fleshed fruits of watermelons. (Rus) Bot. Zhur. [Moscow] 52(2):229-239. Ref. Feb. 1967. 451 R923  
English summary.
- 75724 MCCULLY, M. E. Histological studies on the genus *Fucus*. III. Fine structure and possible functions of the epidermal cells of the vegetative thallus. J. Cell Sci. 3(1):1-16. Ref., p.14-16. Mar. 1968. QH301.J6  
*Fucus vesiculosus*.
- 75725 MCMANUS, M. A. SISTER, and ROTH, L. E. Ultrastructure of the somatic nuclear division in the plasmodium of the myxomycete *Clastoderma debaryanum*. Mycologia 60(2):420-430. Ref. Mar./Apr. 1968. 450 M99
- 75726 MELHUISE, F. M. A precise technique for measurement of roots and root distribution in soils. Ann. Bot. (n.s.) 32(125):15-22. Jan. 1968. 450 An7
- 75727 MICHAUX, N. The comprehension of procambium of *Isoetes setacea* Lam. (Fr) Acad. Sci. C. R., Ser. D, 266(10):1014-1016. Ref. Mar.4, 1968. 505 P21  
Cytological study.
- 75728 MILLER, M. M., and LANG, N. J. The fine structure of akinete formation and germination in *Cylindrospermum*. Arch. Mikrobiol. 60(4): 303-313. Ref. 1968. 442.8 Ar26
- 75729 MOLLENHAUER, H. H., EVANS, W., and KOGUT, C. Dictyosome structure in *Euglena gracilis*. J. Cell Biol. 37(2):579-583. Ref. May 1968. 442.8 J828
- 75730 MOORE, R. T. Fine structure of mycota. 13. Zoospore and nuclear cap formation in *Allomyces*. Elisha Mitchell Sci. Soc. J. 84(1):147-165. Ref. Spring 1968. 500 EL4
- 75731 NAKATA, K., and TANAKA, M. Differentiation of embryoids from developing germ cells in anther culture of tobacco. (Ja) Jap. J. Genet. 43(1):65-71. Ref. Mar. 1968. 442.9 J27  
English summary.
- 75732 NAMBOODIRI, K. K., and BECK, C. B. Comparative study of the primary vascular system of conifers. I-III. Amer. J. Bot. 55(4):447-472. Ref. Apr. 1968. 450 Am36  
I, Genera with helical phyllotaxis; II, Genera with opposite and whorled phyllotaxis; III, Stelar evolution in gymnosperms.
- 75733 NORRMAN, J. Morphogenetic effects of some volatile, organic compounds on *Pestalotia rhododendri*. Arch. Mikrobiol. 61(2):128-142. Ref. 1968. 442.8 Ar26
- 75734 NORTHCOTE, D. H., and WOODING, F. B. P. The structure and function of phloem tissue. Sci. Progr. [Oxford] 56(221):35-38. Ref. Spring 1968. 472 Sci22  
*Sycamore*.
- 75735 ONO, M. Chromosome number of *Scalesia* (Compositae), an endemic genus of the Galapagos Islands. J. Jap. Bot. 42(12):1-8. Ref. Dec. 1967. 450 J8223
- 75736 PEPIK, L. E. Peculiarities of leaf development in the two lines of the diploid strawberry *Fragaria vesca* L. (Rus) Leningrad. Univ. Vestnik. Ser. Biol. 1:92-98. 1968. 442.9 L542V  
English summary.
- 75737 PETROVA, L. R., and LYAKHOVKIN, A. G. The structural characteristics of the stem and of the leaf sheath of some lodging and non-lodging varieties of rice (*Oryza sativa* L.). (Rus) Bot. Zhur. [Moscow] 53(1):75-84. Ref. Jan. 1968. 451 R923  
English summary.
- 75738 PICKETT-HEAPS, J. D. Further ultrastructural observations on polysaccharide localization in plant cells. J. Cell Sci. 3(1):55-64. Ref. Mar. 1968. QH301.J6  
Wheat seedlings.
- 75739 PICKETT-HEAPS, J. D. Ultrastructure and differentiation in *Chara* sp. III. Formation of the antheridium. Australian J. Biol. Sci. 21(2): 255-274. Ref. Apr. 1968. 442.8 Au72  
Now identified as *C. fibrosa*.
- 75740 PIROGOV, V. S. The structure of lithophyte roots belonging to the genus *Draba* and of some other plants, growing on rocks. (Rus) Bot. Zhur. [Moscow] 53(3):350-357. 1968. 451 R923
- 75741 POJNAR, E., and COCKING, E. C. Formation of cell aggregates by regenerating isolated tomato fruit protoplasts. Nature 218(5138):289. Ref. Apr. 20, 1968. 472 N21
- 75742 POWELL, J. B., FORBES, I., and BURTON, G. W. A *Cynodon dactylon* (L.) Pers. (bermuda grass) clone with five accessory chromosomes. Crop Sci. 8(2):267-268. Mar./Apr. 1968. 64.8 C833



- 75743 PUISEUX-DAO, S. Evolution of plastids in *Acetabularia mediterranea*, Dasycladaceae. (Fr) Acad. Sci. C. R., Ser. D, 266(13):1382-1384. Mar.23,1968. 505 P21
- 75744 RICKSON, F. R. Anatomy, histochemistry and fine structure of the germinating embryo of *Paulownia tomentosa*. Amer. J. Bot. 55(3):280-290. Ref. Mar.1968. 450 Am36
- 75745 RIJVEN, A. H. G. C. Determination of uni- and trifoliate leaf form in fenugreek [*Trigonella foenum-graecum*]. Australian J. Biol. Sci. 21(1):155-156. Feb.1968. 442.8 Au72
- 75746 RODRIGUEZ-LOPEZ, M., and VAZQUEZ, D. Comparative studies on cytoplasmic ribosomes from algae. Life Sci. 7(6,pt.2):327-336. Ref. Mar.15,1968. 442.8 L62  
Anacystis montana, Chlorella pyrenoidosa, and Chlamydomonas reinhardtii.
- 75747 ROUANE, P. Ramification of the Cupressaceae. (Fr) Acad. Sci. C. R., Ser. D, 266(8):764-766. Feb.19,1968. 505 P21
- 75748 SAPRE, A. B. Double staining of plant materials in bulk. Stain Technol. 43(2):75-77. Mar. 1968. 442.8 St1  
*Oryza sativa* and *Zea mays*.
- 75749 SCOTT, B. I. H., GULLINE, H., and PALLAGHY, C. K. The electrochemical state of cells of broad bean roots. I. Investigations of elongated roots of young seedlings. Australian J. Biol. Sci. 21(2):185-200. Ref. Apr.1968. 442.8 Au72
- 75750 SEIDLOVA, F., and STICHOVA, J. Development of the shoot apex of *Chenopodium rubrum* L. after photoperiodic induction in the cotyledon stage. Biol. Plant. 10(2):131-134. 1968. 450 B52  
Anatomical study.
- 75751 SHAKHOV, A. A., and GOLUBKOVA, B. M. Effect of ultraviolet rays on the chloroplasts ultrastructure. (Rus) Akad. Nauk. SSSR. Izv. Ser. Biol. 1:45-52. Ref. Jan./Feb.1968. 511 Sa2B  
English summary.  
Radishes.
- 75752 SHIMIZU, M., and KUNO, K. Effects of gibberellin on the morphogenesis in rice plants. 8. Effects on the spikelet formation in a special variety of paddy rice "Akaho." (Ja) Crop Sci. Soc. Japan. Proc. 36(2):255-264. Ref. June 1967. 22.5 C88  
English summary.
- 75753 SOSSOUNTZOV, L. Study of sporophytes of the aquatic fern, *Marsilea drummondii*, devoid of leaves. (Fr) Acad. Sci. C. R., Ser. D, 266(15):1570-1573. Apr.15,1968. 505 P21
- 75754 STEFFENSEN, D. M. A reconstruction of cell development in the shoot Apex of maize. Amer. J. Bot. 55(3):354-369. Ref. Mar.1968. 450 Am36
- 75755 STOMPS, T. J. Some remarkable anomalies. (Ge) Acta Bot. Neer. 16(6):240-243. Dec.1967. 450 Ac822  
English summary.  
In ornamental plant morphology.
- 75756 STONE, E. L., and CORNWELL, S. M. Basal bud burls in *Betula populifolia*. Forest Sci. 14(1):64-65. Mar.1968. 99.8 F7632
- 75757 STOREY, W. B. Mitotic phenomena in the spider plant [*Chlorophytum elatum*]. J. Hered. 59(1):23-27. Jan./Feb.1968. 442.8 Am3
- 75758 THOMAS, W. H., and DODSON, A. N. Effects of phosphate concentration on cell division rates and yield of a tropical oceanic diatom [*Asterionella japonica*]. Biol. Bull. 134(1):199-208. Ref. Feb.1968. 442.8 B52
- 75759 THOMPSON, J., and CLOWES, F. A. L. The quiescent centre and rates of mitosis in the root meristem of *Allium sativum*. Ann. Bot. (n.s.) 32(125):1-13. Ref. Jan.1968. 450 An7
- 75760 TRAUB, H. P. Orientation of vascular bundles in *Allium* leaves. Plant Life 24:143-146. Ref. 1968. 450 P695  
In relation to chromosome numbers.
- 75761 TURNER, F. R. An ultrastructural study of plant spermatogenesis; spermatogenesis in *Nitella [missouriensis]*. J. Cell Biol. 37(2):370-393. Ref. May 1968. 442.8 J828
- 75762 ULYCHNA, K. O. Apogamic structures on diploid gametophytes in some mosses of the family Pottiaceae. (Rus) Bot. Zhur. [Moscow] 53(3):375-376. 1968. 451 R923
- 75763 VASHCHENKO, I. M. Method of studying roots in the sandy soils. (Rus) Sadovodstvo 1:34-35. Jan.1968. 80 Sa13  
Fruit and berries.
- 75764 VASIL'EV, N. P. Fasciation in lilies. (Rus) Bot. Zhur. [Moscow] 53(1):97-99. Jan.1968. 451 R923  
Morphological changes.
- 75765 VENKATESWARLU, J., and PANTULU, J. V. Morphology of pachytene chromosomes in pearl millet. J. Hered. 59(1):69-70. Jan./Feb. 1968. 442.8 Am3
- 75766 VORONCHIKHINA, Z. N. The root system of raspberry. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 132:55-59. 1967. 20 M857
- 75767 VORWOHL, G. Principles of modern pollen description in apiculture and honey research. (Ge) Z. Bienenforsch. 9(5):224-230. Feb.1968. 424.8 Z3  
English summary.
- 75768 WALSBY, A. E., and EICHELBERGER, H. H. The fine structure of gas-vacuoles released from cells of the blue-green alga *Anabaena flos-aquae*. Arch. Mikrobiol. 60(1):76-83. 1968. 442.8 Ar26
- 75769 WARD, E. W. B. Temperature induced changes in the hyphal morphology of the psychrophile *Sclerotinia borealis*. Can. J. Bot. 46(4):524-525. Apr.1968. 470 C16C
- 75770 WEBSTER, D. H., and LONGLEY, R. P. McIntosh apple shape in relation to position in the blossom cluster. Can. J. Plant Sci. 48(3):334-336. May 1968. 450 C16
- 75771 WHITE, R. A. A correlation between the apical cell and the heteroblastic leaf series in *Marsilea*. Amer. J. Bot. 55(4):485-493. Ref. Apr. 1968. 450 Am36  
*Marsilea vestita*, *M. villosa*, and *M. drummondii*.
- 75772 WITTMANN, W. Anatomical investigations of root nodule formation in Leguminosae. (Ge) Pflanzenschutzberichte 37(1/3):1-13. Feb. 1968. 464.9 P48  
English summary.
- 75773 ZAKOTIN, V. S., and NIKITOVICHINA, T. D. Elaboration of the new method of preparing soil monolith with complete root system of the fruit seedlings. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 132:73-75. 1967. 20 M857  
For morphological studies.
- 75774 ZHUKOVA, P. G. Chromosome numbers in some plant species from the northeastern part of USSR. (Rus) Bot. Zhur. [Moscow] 53(3):365-368. Ref. 1968. 451 R923

## ECOLOGY

- 75775 ALFIMOV, N. N., MAKAROVA, I. V., and FADEEVA, O. N. A contribution to the ecological and chemical characterization of some species of blue-green algae. (Rus) Bot. Zhur. [Moscow] 53(1):106-108. Ref. Jan.1968. 451 R923  
Cyanophyta.
- 75776 BAILEY, A. W., and POULTON, C. E. Plant communities and environmental interrelationships in a portion of the Tillamook burn, Northwestern Oregon. Ecology 49(1):1-13. Ref. Winter 1968. 410 Ec7
- 75777 BAKUZIS, E. V. Some characteristics of forest ecosystem space in Minnesota. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2: 107-125. 1967. 99.9 In82

- 75778 BUNUSEVAC, T., and JOVANOVIĆ, S. The atlas cedar (*Cedrus atlantica* Manetti) on the site of European turkey oak with Hungarian oak (*Quercetum confertae-cerris*) in Serbia. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.4:91-118. Ref. 1967. 99.9 In82
- 75779 CHASTUKHIN, V. YA. The micromycetes of the oligotrophic bogs and paludal forests and their role in the dynamics of vegetation in the course of drainage. (Rus) Bot. Zhur. [Moscow] 52(2):214-222. Ref. Feb.1967. 451 R923 English summary.
- 75780 DIMANCHE, P., and SCHOENENBERGER, A. Sample study on the relation between soil and vegetation; a pilot series of Mouadjen Roumi and Kroumirie. (Fr) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:167-176. 1967. 99.9 In82 Tunisia.
- 75781 FABER, P. J. An application of discontinuous distributions in the analysis of tropical rainforests. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.6:115-128. 1967. 99.9 In82
- 75782 FRANKLIN, J. F., and MITCHELL, R. G. Successional status of subalpine fir [*Abies lasiocarpa*] in the Cascade range. U. S. Forest Serv. Res. Paper PNW-46, 16 p., map. Ref. Aug.1967. A99.9 F7625Uni Washington and Oregon.
- 75783 GENSAC, P. Associations with *Erica carnea* in the region of Bozel (Savoy); comparison with the associations described in Maurienne. (Fr) Rev. Forest. Franc. 2:95-101. Feb.1968. 99.8 R329
- 75784 GOFF, F. G. Use of size stratification and differential weighting to measure forest trends. Amer. Midland Natur. 79(2):402-418. Ref. Apr.1968. 410 M58 Ecological study of upland forests in Wisconsin.
- 75785 GOLGOFSKAYA, K. YU. The vegetation of the timber-line zone on the Caucasian state reservation. (Rus) Bot. Zhur. [Moscow] 52(2):202-213. Ref. Feb.1967. 451 R923 English summary.
- 75786 GOLUBETS, M. A., and MALINOVSKIĬ, K. A. The principles of classification and the classification of vegetation of the Ukrainian Carpathians. (Rus) Bot. Zhur. [Moscow] 52(2):189-201. Ref. Feb.1967. 451 R923 English summary.
- 75787 HARRIS, W., and BROUGHAM, R. W. Some factors affecting change in botanical composition in a ryegrass [*Lolium perenne* and *L. multiflorum*]-white clover pasture under continuous grazing. New Zeal. J. Agr. Res. 11(1):15-38. Ref. Feb.1968. 23 N4892 Sheep.
- 75788 KINLOCH, D., and MAYHEAD, G. J. Is there a place for ground vegetation assessments in site productivity predictions? Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:246-260. Ref. 1967. 99.9 In82
- 75789 LIWSKI, S., MACIAK, F., and KARPINSKA, J. Peat bogs of the Kampinos primeval forest. (Pol) Roczn. Gleboznawcze 18(1):159-184, map. Ref. 1967. 56.8 R592 English summary. Chiefly plant ecology.
- 75790 L'VOV, P. L. The pine forests of the schistous mountains in Gagestan. (Rus) Bot. Zhur. [Moscow] 53(3):345-349. Ref. 1968. 451 R923 English summary.
- 75791 MAAREL, E. VAN DER, and LEERTOUWER, J. Variation in vegetation and species diversity along a local environmental gradient. Acta Bot. Neer. 16(6):211-221. Ref. Dec.1967. 450 Ac822 On the Island of Schiermonnikoog.
- 75792 MACNAE, W. Mangroves and their fauna. Australian Natur. Hist. 16(1):17-21. Mar.1968. 475 Au7 Republic of South Africa.
- 75793 MAGINI, E. Investigations on factors affecting the natural regeneration of silver fir [*Abies alba*] in the Apennines. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.4:386-400. Ref. 1967. 99.9 In82
- 75794 MALONE, C. R. Determination of peak standing crop biomass of herbaceous shoots by the harvest method. Amer. Midland Natur. 79(2):428-435. Ref. Apr.1968. 410 M58 Study of plant communities.
- 75795 MCCLAIN, W. E., and EBINGER, J. E. Woody vegetation of Baber Woods, Edgar County, Illinois. Amer. Midland Natur. 79(2):419-428, map. Apr.1968. 410 M58
- 75796 MCCORMICK, J., and HARCÔMBE, P. A. Phytograph: useful tool or decorative doodle. Ecology 49(1):13-20. Ref. Winter 1968. 410 Ec7 For ecological studies.
- 75797 MCNEILLY, T. Evolution in closely adjacent plant populations. III. *Agrostis tenuis* on a small copper mine. Heredity 23(1):99-108, map. Ref. Feb.1968. 443.8 H42 Wales.
- 75798 MONK, C. D. Successional and environmental relationships of the forest vegetation of North Central Florida. Amer. Midland Natur. 79(2):441-457, map. Ref. Apr.1968. 410 M58
- 75799 NITSENKO, A. A. Characteristics of some forest associations in the Volga-Akhtuba River flood plain. (Rus) Leningrad. Univ. Vestnik. Ser. Biol. 1:84-92. Ref. 1968. 442.9 L542V English summary.
- 75800 NITSENKO, A. A. Influence of the meadow association on formation of soil. (Rus) Bot. Zhur. [Moscow] 53(3):329-337. Ref. 1968. 451 R923 English summary.
- 75801 OLSEN, D. Banding patterns of *Halimolobos rufescens* as indicators of botanical and animal succession. Biol. Bull. 134(1):139-147. Ref. Feb.1968. 442.8 B52 Indicator of presence of algae.
- 75802 PATERSON, S. S. Introduction to phytocology of Norden. Int. Biometeorol. Congr. Proc., 3d Congr.:979-989, map. 1963, pub.1967. QR543.15 1963 v.2 Forest ecology in Scandinavia.
- 75803 PICHUGIN, A. V. Torfyanye mestorozhdeniya [Peat formations]. Moskva, Vysshaya Shkola, 1967. 274 p., map. GB628.55.P5
- 75804 ROSS, A. Wild life of a Sussex marshland. Country Life [London] 143(3711):994. Apr.18, 1968. 80 C83 Includes plant ecology.
- 75805 ROSS, B. A., TESTER, J. R., and BRECKENRIDGE, W. J. Ecology of Mima-type mounds in northwestern Minnesota. Ecology 49(1):172-177. Winter 1968. 410 Ec7 Includes vegetation.
- 75806 RUHL, A. Mixed linden forests in southern northwest Germany. (Ge) Allg. Forst- Jagdzeitung 139(4/5):118-310. Ref. Apr./May 1968. 99.8 AL3 English summary. Ecological study.
- 75807 RYLE, G. B. Changing face of the Chilterns. Country Life [London] 143(3712):1026-1028. Apr.25, 1968. 80 C83 Chiefly forest ecology.
- 75808 SABUROV, D. N., and BAGROVA, Z. A. Dynamics of vegetation of the covered karst plain in the Pinega District of the Archangel Region. (Rus) Bot. Zhur. [Moscow] 53(3):338-344. 1968. 451 R923 English summary.
- 75809 STERN, D. H. A limnological investigation of the microbiota of an Illinois pond. Amer. Midland Natur. 79(2):476-498. Ref. Apr.1968. 410 M58 Includes plankton and algae.
- 75810 STODDART, D. R. Isolated island communities. Sci. J. 4(4):32-38, map. Apr.1968. Q1.S34 Includes changes in plant ecology caused by man.



- 75811 VERBOOM, W. C. Grassland successions and associations in Pahang, Central Malaya. *Trop. Agr. [St. Augustine]* 45(1):47-59. Jan.1968. 26 T754
- 75812 WALKER, B. H., and COUPLAND, R. T. An analysis of vegetation-environment relationships in Saskatchewan sloughs. *Can. J. Bot.* 46(4):509-522. Ref. Apr.1968. 470 C16C
- 75813 WESTMAN, W. E. Invasion of fir forest by sugar maple [*Acer saccharum*] in Itasca Park, Minnesota. *Torrey Bot. Club. Bull.* 95(2):172-186. Ref. Mar./Apr.1968. 451 T63B
- 75814 YOUNG, W. C. Ecology of roadside treatment. *J. Soil Water Conserv.* 23(2):47-50, map. Mar./Apr.1968. 56.8 J822
- GENETICS
- 75815 AALDERS, L. E., and CRAIG, D. L. General and specific combining ability in seven inbred strawberry lines. *Can. J. Genet. Cytol.* 10(1):1-6. Ref. Mar.1968. 443.8 C16
- 75816 AKIHAMA, T. Inheritance of the competitive ability and effects of its selection on agronomic characters. *Jap. J. Breeding* 18(1):12-14. Feb.1968. 64.8 J27
- 75817 AKSEL, R., and KUSPIRA, J. Quantitative genetic analysis of characters in wheat using crosses of chromosome substitution lines (experimental results). *Genetics* 58(3):461-472. Mar.1968. 442.8 G28
- 75818 AUERBACH, C., and RAMSAY, D. The influence of treatment conditions on the selective mutagenic action of diepoxybutane in *Neurospora*. *Jap. J. Genet.* 43(1):1-8. Ref. Mar.1968. 442.9 J27
- 75819 BAEKGAARD, H. C., and MADSEN, S. B. Breeding and recognition of cultivars, seed trade and seed control in Denmark. *Int. Seed Testing Ass. Proc.* 32(2):305-316. 1967. 61.9 In84P
- 75820 BAKER, E. P., and MCINTOSH, R. A. Chromosome pairing in a nulli-5B DI-5D wheat haploid. *Australian J. Biol. Sci.* 21(1):161-163. Feb.1968. 442.8 Au72
- 75821 BARBER, H. N., and others. Protein genetics of wheat and homoeologous relationships of chromosomes. *Nature* 218(5140):450-452. Ref. May 4, 1968. 472 N21  
C. J. Driscoll, P. M. Long, and R. S. Vickery, joint authors.
- 75822 BARNETT, R. D., and CAVINESS, C. E. Inheritance of hydrocyanic acid production in two sorghum X sudangrass crosses. *Crop Sci.* 8(1):89-91. Jan./Feb.1968. 64.8 C883
- 75823 BAZIN, M. J. Sexuality in a blue-green alga: genetic recombination in *Anacystis nidulans*. *Nature* 218(5138):282-283. Apr.20, 1968. 472 N21
- 75824 BEAUDRY, J. R. Studies on *Solidago*. VIII. Results and analysis of crosses between *Solidago canadensis* and *Solidago lepida* var. *fallax* Fern. (Fr) *Nature Can.* 95(1):19-37. Jan./Feb.1968. 410 N216  
English summary.
- 75825 BERNET, J., and BEGUERET, J. Properties and structure of incompatibility factors of *Podospora anserina*. (Fr) *Acad. Sci. C. R., Ser. B.* 266(17):716-719. Feb.12, 1968. 505 P21
- 75826 BRANDON, R. A., and LEFFEL, R. C. Pseudo-self-compatibilities of a diallel cross and sterility-allele genotypic ratios in red clover (*Trifolium pratense* L.). *Crop Sci.* 8(2):185-186. Mar./Apr.1968. 64.8 C833
- 75827 BRETON-SINTES, S. Cytogenetic analysis of experimental hybrids between 3 *Knaulia* diploids from Auvergne. (Fr) *Acad. Sci. Compte Rendu* 266(12):1242-1245. Mar.18, 1968. 505 P21
- 75828 BURTON, G. W. Heterosis and heterozygosis in pearl millet forage production. *Crop Sci.* 8(2):229-230. Mar./Apr.1968. 64.8 C833
- 75829 BUSBICE, T. H. Effects of inbreeding on fertility in *Medicago sativa* L. *Crop Sci.* 8(2):231-234. Ref. Mar./Apr.1968. 64.8 C833  
Effects on seed yields.
- 75830 BYTH, D. E., and WEBER, C. R. Effects of genetic heterogeneity within two soybean populations. I. Variability within environments and stability across environments. *Crop Sci.* 8(1):44-47. Jan./Feb.1968. 64.8 C883
- 75831 CASTRO, G. M., GARDNER, C. O., and LONNQUIST, J. H. Cumulative gene effects and the nature of heterosis in maize crosses involving genetically diverse races. *Crop Sci.* 8(1):97-101. Ref. Jan./Feb.1968. 64.8 C883
- 75832 CATEN, C. E., and JINKS, J. L. Spontaneous variability of single isolates of *Phytophthora infestans*. I. *Can. J. Bot.* 46(4):329-348. Ref. Apr.1968. 470 C16C
- 75833 CAVINESS, C. E., and PRONGSIRIVATHANA, C. Inheritance and association of plant height and its components in a soybean cross. *Crop Sci.* 8(2):221-224. Mar./Apr.1968. 64.8 C833
- 75834 CHANG, L. T., LENNOX, J. E., and TUVESON, R. W. Induced mutation in UV-sensitive mutants of *Aspergillus nidulans* and *Neurospora crassa*. *Mutation Res.* 5(2):217-224. Ref. Mar./Apr.1968. 443.8 M98
- 75835 CHARDENON, J. A very probable case of bud mutation in the poplar. (Fr) *Rev. Forest. Franc.* 20(1):33-37. Jan.1968. 99.8 R329
- 75836 CHOU, M. C., and GIBSON, P. B. Cross-compatibility of *Trifolium nigrescens* with diploid and tetraploid *Trifolium occidentale*. *Crop Sci.* 8(2):266-267. Mar./Apr.1968. 64.8 C833
- 75837 COX, B. S., and PARRY, E. M. Natural selection in an artificial population of *Sordaria fimicola*. *New Phytol.* 66(4):643-652. Ref. Oct. 1967. 450 N42
- 75838 DADAY, H. Heritability and genotypic and environmental correlations of creeping root and persistency in *Medicago sativa* L. *Australian J. Agr. Res.* 19(1):27-34. Jan.1968. 23 Au783
- 75839 DAVIES, D. R., and LEVIN, S. UV-induced reversion to prototrophy in three strains of *Chlamydomonas reinhardtii* differing in dark repair capacity. *Mutation Res.* 5(2):231-236. Mar./Apr.1968. 443.8 M98
- 75840 DESAL, P. A. Vavilovoid mutant in *Triticum durum* Desf. *Cur. Sci.* 37(2):56-57. Jan.20, 1968. 475 Sci23
- 75841 DOGGETT, H., and MAJISU, B. N. Disruptive selection in crop development. *Heredity* 23(1):1-23. Ref. Feb.1968. 443.8 H42  
Wild and cultivated Sorghum hybrids in Uganda.
- 75842 DOGGETT, H., and EBERHART, S. A. Recurrent selections in sorghum. *Sols Afr.* 12(2/3):119-122. Apr./Dec.1967. 56.8 So4  
Genetic aspects.
- 75843 DOGGETT, H., and MAJISU, B. N. The use of the coes genetic male sterile for collections. *Sols Afr.* 12(2/3):123-124. Apr./Dec.1967. 56.8 So4  
Sorghum.
- 75844 DUCLOS, L. A., and CRANE, P. L. Comparative performance of top crosses and s1 progeny for improving populations of corn (*Zea mays* L.). *Crop Sci.* 8(2):191-194. Ref. Mar./Apr. 1968. 64.8 C833
- 75845 EBERHART, S. A. Recurrent selection methods. *Sols Afr.* 12(2/3):129-135. Apr./Dec. 1967. 56.8 So4  
Genetic aspects of corn breeding.
- 75846 ENGEL, P. P. The induction of biochemical and morphological mutants in the moss *Physcomitrella patens*. *Amer. J. Bot.* 55(4):438-446. Ref. Apr.1968. 450 Am36  
Treatment with ethyl methanesulfonate, N-methyl-N'-nitro-N-nitrosoguanidine, and X-rays.
- 75847 EUNUS, A. M. Selection breeding in jute. *J. Hered.* 59(1):80-81. Jan./Feb.1968. 442.8 Am3

- 75848 EVANS, G. M. Nuclear changes in flax. *Heredity* 23(1):25-38. Ref. Feb.1968. 443.8 H42
- 75849 FEASTER, C. V., and TURCOTTE, E. L. Association of color, yield, and quality of lint in Pima cotton. *Crop Sci.* 8(2):197-199. Mar./Apr. 1968. 64.8 C833
- 75850 FLAVELL, R. B., and FINCHAM, J. R. S. Acetate-nonutilizing mutants of *Neurospora crassa*. I-II. *J. Bacteriol.* 95(3):1056-1068. Ref. Mar. 1968. 448.3 J82
- 75851 FORBES, I., and WELLS, H. D. Hard and soft seededness in blue lupine, *Lupinus angustifolius* L.: inheritance and phenotypic classification. *Crop Sci.* 8(2):195-197. Mar./Apr.1968. 64.8 C833
- 75852 FREY, K. J. Expected genetic advances from three simulated selection schemes. *Crop Sci.* 8(2):235-238. Mar./Apr.1968. 64.8 C833
- 75853 GALLAIS, A. Theoretical performance of synthetic tetraploid varieties in advanced generations. I. (Fr) *Ann. Amer. Plantes* 18(1):5-15. 1968. 14 F8499A  
English summary.
- 75854 GENETICAL SOCIETY OF GREAT BRITAIN. Abstracts of papers given at the hundred and fifty-fifth meeting, Nov.10-11, 1967, in University College, London. *Heredity* 23(1):162-168. Feb.1968. 443.8 H42  
One-half of total abstracts on plants.
- 75855 GREEN, D. E., and PINNELL, E. L. Inheritance of soybean seed quality. I-II. *Crop Sci.* 8(1):5-15. Jan./Feb.1968. 64.8 C883  
I, Heritability of laboratory germination and field emergence; II, Heritability of visual ratings of soybean seed quality.
- 75856 GRINDLE, M., and PITTEGER, T. H. Phenotypic and genetic changes during prolonged growth of *Neurospora crassa* heterokaryons. *Genetics* 58(3):337-349. Ref. Mar.1968. 442.8 G28
- 75857 GUPTA, S. B. Chlorophyll variegation caused by somatic elimination of an alien chromosomal fragment in *Nicotiana tabacum*. *Can. J. Genet. Cytol.* 10(1):106-111. Mar.1968. 443.8 C16
- 75858 GUTIERREZ, P., and others. Bases y progresos en el mejoramiento genetico del algodón en la Argentina [Bases and progress in the genetic improvement of cotton in Argentina]. Pres. Roque Saenz Pena. Estac. Exp. Agropecuar. Bol. 48, 85 p. Dec.1967. 102.5 P922  
J. Vrdoljak, N. Campagnac, M. Arturi, P. M. V. Guillen, A. de J. Olivera, E. A. Hauswirth, R. Carnevali, A. Piquin, A. C. A. Galvan, G. Westergaard, I. Tiranti, A. A. Ricciardi, E. M. Sartore de Jones, and J. C. Flores, joint authors.  
Bibliography, p. 79-85.
- 75859 HARRISON, B. J., and FINCHAM, J. R. S. Instability at the pal locus in *Antirrhinum majus*. 3. A gene controlling mutation frequency. *Heredity* 23(1):67-72. Feb.1968. 443.8 H42
- 75860 HASKELL, G. Biochemical differences between spontaneous and colchicine-induced autotetraploids. *Heredity* 23(1):139-141. Ref. Feb.1968. 443.8 H42  
Raspberries.
- 75861 HECKER, R. J. Combining ability of transgressive segregates in sugarbeets. *Crop Sci.* 8(1):3-5. Jan./Feb.1968. 64.8 C883  
Of hybrids with additive gene effects.
- 75862 HESLOP-HARRISON, J. Ribosome sites and S gene action. *Nature* 218(5136):90-91. Ref. Apr.6,1968. 472 N21  
Plants.
- 75863 HILL, J. M., and WOODWARD, V. W. Genetic control of aspartate transcarbamylase by the pyr-3 locus of *Neurospora crassa*. *Archiv. Biochem. Biophys.* 125(1):1-12. Ref. Apr.1968. 381 Ar22
- 75864 HOCKETT, E. A., and ESLICK, R. F. Genetic male sterility in barley. I. Nonallelic genes. *Crop Sci.* 8(2):218-220. Mar./Apr.1968. 64.8 C833
- 75865 HONCARIV, R., DANKO, V., and KOVAC, L. Chlorophyll mutations after low doses of chronic irradiation of barley. *Biol. Plant.* 10(2):127-130. 1968. 450 B52  
By gamma rays.
- 75866 HOWARD, G. S. Polyploid carnations: their identification and breeding behavior. *J. Hered.* 59(1):77-80. Ref. Jan./Feb.1968. 442.8 Am3
- 75867 IVANOV, YU. I. Hybridization of winter wheat with 56-chromosome wheatgrass hybrids. (Rus) *Selek. Semenovodstvo* 1:19-22. Jan./Feb. 1968. 61.9 Se5  
Agropyron.
- 75868 JACKSON, B. R., DIRKS, V. A., and SNYDER, L. A. Quantitative inheritance in crosses among four tetraploid wheats. *Can. J. Genet. Cytol.* 10(1):33-43. Ref. Mar.1968. 443.8 C16
- 75869 KEHR, A. E. Breeding for the year 2000. *Seed World* 102(4):4-5. Feb.23,1968. 61.8 Se52
- 75870 KIM, H. B., ATKINS, I. M., and PAWLISCH, P. E. Inheritance of anther size and spikelet characteristics: Their interrelationship in crossing cultivars, "Bronco," *Avena sativa* L. and *Avena sterilis* L. ssp. *Macrocarpa* (Moench) (Moench.) *Briq. Crop Sci.* 8(1):101-104. Ref. Jan./Feb.1968. 64.8 C883
- 75871 KOLOBAEVA, E. A., FEDOROV, V. S. Genetics of rye. 8. Problem of synchrony in divisions in macro- and microsporeogenesis in the tetraploid rye. (Rus) *Leningrad. Univ. Vestnik. Ser. Biol.* 1:144-150. Ref. 1968. 442.9 L542V
- 75872 LADIZINSKY, G., and ZOHARY, D. Genetic relationships between diploids and tetraploids in series *Eubarbatae* of *Avena*. *Can. J. Genet. Cytol.* 10(1):68-81. Ref. Mar.1968. 443.8 C16
- 75873 LAWRENCE, C. W. Effect of fractionated doses of radiation on recombination. *Heredity* 23(1):143-146. Ref. Feb.1968. 443.8 H42  
*Chlamydomonas reinhardtii*.
- 75874 LEBSECK, K. L., and KOCH, E. J. Variation of stem-solidness in wheat. *Crop Sci.* 8(2):225-229. Ref. Mar./Apr.1968. 64.8 C833
- 75875 LEONARD, T. J., and DICK, S. Chemical induction of haploid fruiting bodies in *Schizophyllum commune*. *Nat. Acad. Sci. Proc.* 59(3): 745-751. Ref. Mar.1968. 500 N21P
- 75876 LIANG, G. H. L., and WALTER, T. L. Heritability estimates and gene effects for agronomic traits in grain sorghum, *Sorghum vulgare* Pers. *Crop Sci.* 8(1):77-81. Ref. Jan./Feb. 1968. 64.8 C883
- 75877 LUIG, N. H., and MCINTOSH, R. A. Location and linkage of genes on wheat chromosome 2D. *Can. J. Genet. Cytol.* 10(1):99-105. Mar.1968. 443.8 C16
- 75878 MACDONALD, K. D. The persistence of parental genome segregation in *Penicillium chrysogenum* after nitrogen mustard treatment. *Mutation Res.* 5(2):302-305. Ref. Mar./Apr.1968. 443.8 M98
- 75879 MARANI, A. Inheritance of lint quality characteristics in intraspecific crosses among varieties of *Gossypium hirsutum* L. and of *Gossypium barbadense* L. *Crop Sci.* 8(1):36-38. Ref. Jan./Feb.1968. 64.8 C883
- 75880 MARKS, G. E. Structural hybridity in a tuberous *Solanum* hybrid. *Can. J. Genet. Cytol.* 10(1): 18-23. Ref. Mar.1968. 443.8 C16  
*Solanum morelliforme* and *S. clarum*.
- 75881 MARTIN, J. P. Evolution of oil content in the progeny of irradiated groundnuts. (Fr) *Oleagineux* 23(2):105-107. Feb.1968. 77.8 OL2  
English summary, p. XXXVI.
- 75882 MATZINGER, D. F., and WERNSIMAN, E. A. Four cycles of mass selection in a synthetic variety of an autogamous species *Nicotiana tabacum* L. *Crop Sci.* 8(2):239-243. Ref. Mar./Apr.1968. 64.8 C833
- 75883 MATZKE, E. B., and RAUDZENS, L. Aposporous diploid gametophytes from sorophytes of the liverwort *Blasia pusilla* L. *Nat. Acad. Sci. Proc.* 59(3):752-755. Ref. Mar.1968. 500 N21P



- 75884 MERRITT, C. Effect of environment and heredity on the root growth pattern of red pine [*Pinus resinosa*]. *Ecology* 49(1):34-40. Ref. Winter 1968. 410 Ec7
- 75885 MEYER, R. W., and PARMETER, J. R. Changes in chemical tolerance associated with heterokaryosis in *Thanatephorus cucumeris*. *Phytopathology* 58(4):472-475. Ref. Apr. 1968. 464.8 P56  
Mutations for chemical tolerance; effects of carbon dioxide, biphenyl, and pentachloronitrobenzene.
- 75886 MEYER, V. G. An association between male sterility and fiber strength in hybrids of Upland cotton, *Gossypium hirsutum* L. *Crop Sci.* 8(1):117-118. Jan./Feb. 1968. 64.8 C883  
Cytoplasmic-genetic investigation.
- 75887 MILLER, J. D. Combining ability studies in birdsfoot trefoil. *Crop Sci.* 8(1):41-43. Ref. Jan./Feb. 1968. 64.8 C883  
Genetic action on forage yield.
- 75888 MORAES FERNANDES, M. I. B. DE, BARRETO, I. L., and SALZANO, F. M. Cytogenetic, ecologic and morphologic studies in Brazilian forms of *Paspalum dilatatum*. *Can. J. Genet. Cytol.* 10(1):131-138. Mar. 1968. 443.8 C16
- 75889 MORRIS, R., and others. Quality tests on six substitution lines involving "Cheyenne" wheat chromosomes. *Crop Sci.* 8(1):121-123. Jan./Feb. 1968. 64.8 C883  
J. W. Schmidt, P. J. Mattern, V. A. Johnson, joint authors.  
Genes effects on flour quality.
- 75890 MROZ, S. Tetraploid and diploid rye varieties in the light of trials carried out by variety testing stations. (Pol) *Nowe Roln.* 17(5):23-25. Mar. 1/15, 1968. 20.5 N86
- 75891 MULLINS, J. T. Genetic and hormonal regulation of heterothallism in the water molds. *Elisha Mitchell Sci. Soc. J.* 84(1):195-198. Ref. Spring 1968. 500 EL4
- 75892 NIELSEN, J. The inheritance of spore wall characteristics in *Ustilago avenae* and *U. koleri*. *Can. J. Bot.* 46(4):497-500. Ref. Apr. 1968. 470 C16C
- 75893 NIJDAM, F. E. The Convention of Paris for the Protection of New Varieties of Plants. *Int. Seed Testing Ass. Proc.* 32(2):281-290. 1967. 61.9 In84P  
The Union for the Protection of New Varieties of Plants.
- 75894 PEDERSON, D. G. Environmental stress, heterozygote advantage and genotype-environment interaction in *Arabidopsis thaliana*. *Heredity* 23(1):127-138. Ref. Feb. 1968. 443.8 H42
- 75895 PENNY, L. H. Selection-induced differences among strains of a synthetic variety of maize. *Crop Sci.* 8(2):167-168. Mar./Apr. 1968. 64.8 C833
- 75896 PHILLIPS, R. L. Cytogenetic location of the gene for purple plant color in maize. *J. Hered.* 59(1):56, 68. Jan./Feb. 1968. 442.8 Am3
- 75897 PIECH, J., and EVANS, L. E. Monosomic analyses of temperature sensitive dwarfism in common wheat. *Can. J. Genet. Cytol.* 10(1):125-130. Mar. 1968. 443.8 C16
- 75898 POWELL, J. B., and NILAN, R. A. Evidence for spontaneous inversions in cultivated barley. *Crop Sci.* 8(1):114-116. Jan./Feb. 1968. 64.8 C883  
Cytological examination of varieties and hybrids at meiosis.
- 75899 POWELL, J. B., BURTON, G. W., and TALLAFERRO, C. M. A hexaploid clone from a tetraploid X diploid cross in *Cynodon*. *Crop Sci.* 8(2):184-185. Mar./Apr. 1968. 64.8 C833
- 75900 RAPER, J. R., and RAPER, C. A. Genetic regulation of sexual morphogenesis in *Schizophyllum commune*. *Elisha Mitchell Sci. Soc. J.* 84(1):267-273. Spring 1968. 500 EL4
- 75901 RAPER, J. R., and RAUDASKOSKI, M. Secondary mutations at the Bbeta incompatibility locus of *Schizophyllum commune*. *Heredity* 23(1):109-117. Ref. Feb. 1968. 443.8 H42
- 75902 RUDELLE, M., and ESSAD, S. Contribution to the study of the evolutive relations of *Lolium perenne* and *L. temulentum*. (Fr) *Ann. Amélior. Plantes* 18(1):29-47. Ref. 1968. 14 F8499A  
English summary.  
Genetics.
- 75903 SANDFAER, J. Induced sterility as a factor in the competition between barley varieties. *Nature* 218(5138):241-243. Ref. Apr. 20, 1968. 472 N21
- 75904 SHIKATA, M. An effect of interference of crossovers in closed loop pedigrees. *Jap. J. Breeding* 18(1):1-6. Feb. 1968. 64.8 J27  
Plants.
- 75905 SILVA, W. J. DA, and LONNQUIST, J. H. Genetic variances in populations developed from full-sib and S1 testcross progeny selection in an open-pollinated variety of maize. *Crop Sci.* 8(2):201-204. Mar./Apr. 1968. 64.8 C833
- 75906 SIMCHEN, G., and CONNOLLY, V. Changes in recombination frequency following inbreeding in *Schizophyllum commune*. *Genetics* 58(3):319-326. Ref. Mar. 1968. 442.8 G28
- 75907 SPECTOR, C., and PHINNEY, B. O. Gibberellin biosynthesis: Genetic studies in *Gibberella fujikuroi*. *Physiol. Plant.* 21(1):127-136. Ref. 1968. 450 P564
- 75908 SPRAGUE, G. F., and MCGAHEN, J. H. Influence of alien cytoplasm on yields of grain in *Zea mays* L. *Crop Sci.* 8(2):163-164. Mar./Apr. 1968. 64.8 C833
- 75909 STADLER, D. R., and TOWE, A. M. A test of coincident recombination in closely linked genes of *Neurospora*. *Genetics* 58(3):327-336. Ref. Mar. 1968. 442.8 G28
- 75910 STEFFENSEN, D. M. Mutagenic studies with calcium-45 and strontium-89 in maize and *Lilium longiflorum*. *Mutation Res.* 5(2):237-242. Ref. Mar./Apr. 1968. 443.8 M98
- 75911 SUNDARAM, T. K., and FINCHAM, J. R. S. Nature of the complementation products formed by a complementing mutant of *Neurospora crassa*. *J. Bacteriol.* 95(3):787-792. Ref. Mar. 1968. 448.3 J82
- 75912 SYBENGA, J. Orientation of interchange multiples in *Secale cereale*. *Heredity* 23(1):73-79. Feb. 1968. 443.8 H42
- 75913 TIMIN, N. I. Investigating influence of chemical mutagens on growth of cucumbers in the first generation. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 132:187-194. 1967. 20 M857
- 75914 TRAUB, H. P., BOHN, G. W., and WHITAKER, T. W. The inheritance of melon flower color in *Hemerocallis washingtonia*. *Plant Life* 24:163-164. 1968. 450 P695
- 75915 TUVESON, R. W., and LENNOX, J. E. A uv-sensitive mutant of *Aspergillus rugulosus* unrelated to intergenic crossing over. *Can. J. Genet. Cytol.* 10(1):50-53. Ref. Mar. 1968. 443.8 C16
- 75916 VELEMSKY, J., POKORNY, V., and GICHNER, T. The effect of visible light on mutagenic activity of 1-methyl-1-nitrosourea and 1-methyl-3-nitro-1-nitrosoguanidine. *Biol. Plant.* 10(2):85-94. Ref. 1968. 450 B52  
Test with *Arabidopsis thaliana*.
- 75917 WALTERS, M. S. Ribonucleoprotein structures in meiotic prophase of *Zea mays*. *Heredity* 23(1):39-47. Ref. Feb. 1968. 443.8 H42
- 75918 WALTON, P. D. The use of *Amaranthus caudatus* in simulating the breeding behavior of commercial *Gossypium* species. *J. Hered.* 59(1):17-18. Jan./Feb. 1968. 442.8 Am3  
Genetic studies.
- 75919 WALTON, P. D. The use of the genus *Amaranthus* in genetic studies. *J. Hered.* 59(1):76. Jan./Feb. 1968. 442.8 Am3

- 75920 WATANABE, Y., and ONO, S. Cytogenetic studies on the artificial polyploids in the genus *Oryza*. 3. Two kinds of allohexaploid rice, *sativatatifolia* (AACDD) and *sativa-minuta* (AABCC). Jap. J. Breeding 18(1):15-21. Feb. 1968. 64.8 J27
- 75921 WATTS, L. E. Levels of compatibility in *Brassica oleracea*. Heredity 23(1):119-125. Ref. Feb.1968. 443.8 H42
- 75922 WEBSTER, G. T., GERSTEL, D. U., and SCHAFFER, H. E. Heterochromatin in microspore nuclei of hybrids between *Nicotiana tabacum* and *N. otophora*. I-II. J. Hered. 59(1):43-47. Jan./Feb.1968. 442.8 Am3  
Statistical analysis by H. E. Schaffer.
- 75923 WELSH, J. R., WATSON, C. A., and GREEN, C. W. Chromosomal control of flour properties in three substitution sets of common wheat (*Triticum aestivum* L.). Crop Sci. 8(1):81-82. Jan./Feb.1968. 64.8 C883
- 75924 WIGGIN, H. C., and OBAZIMIJ, A. O. Present status of maize breeding and high lysine maize in western Nigeria. Sols Afr. 12(2/3):141-143. Apr./Dec.1967. 56.8 So4  
Genetic aspects.
- 75925 WU, T. P., and PI, C. P. Reciprocal translocations induced by X-rays and thermo-neutrons in wild Sorghum (*S. purpureo-sericeum* Aschers and Schweinf.). Can. J. Genet. Cytol. 10(1):152-160. Mar.1968. 443.8 C16

## PHYSIOLOGY AND BIOCHEMISTRY

- 75926 AASE, J. K., and KEMPER, W. D. Effect of ground color and microwatersheds on corn growth. J. Soil Water Conserv. 23(2):60-62. Mar./Apr.1968. 56.8 J822  
Effects of black and white concrete structures between rows.
- 75927 ACHILLADELIS, B., HANSON, J. R., and WHITE, A. F. Studies in terpenoid biosynthesis. I-II. Phytochemistry 7(4):589-597. Ref. Apr.1968. 450 P5622  
I, Biosynthesis of metabolites of *Trichothecium roseum*; II, The biosynthesis of steviol. In *Stevia rebaudiana*.
- 75928 ADAM, G., and others. Veramine, a novel type of Veratrum alkaloid with a 17  $\beta$ -methyl-18-nor-17-iso-spirosolane skeleton. Tetrahedron Lett. 24:2815-2820. Ref. Apr.1968. 385 T29  
K. Schreiber, J. Tomko, Z. Voticky, and A. Vassova, joint authors.
- 75929 AKADEMIYA NAUK UKRAINSKOI SSR, TSENTRAL'NYI RESPUBLIKANSKII BOTANICHE-SKII SAD. Puti i metody povysheniya stolkosti akklimatiziruemykh rastenii [Methods of increasing resistance of the acclimated plants]. Kiev, Naukova Dumka, 1967. 179 p., map. Ref. SB108.U35T78  
To cold and drought.
- 75930 AKINREFON, O. A. Production of extracellular enzymes by *Phytophthora palmivora* (Butl.) Butl. J. Gen. Microbiol. 51(1):67-74. Ref. Apr. 1968. 448.3 J823
- 75931 ANDRE, F. Localization of indole radicals in the meristems of *Mercurialis annua* L. (2 n=16). (Fr) Acad. Sci. C. R., Ser. D, 266(5):465-467. Jan.29,1968. 505 P21
- 75932 ASSOCIATION OF SOUTHEASTERN BIOLOGISTS. Abstracts of papers presented at the 29th annual meeting, at Athens, Georgia. A. S. B. (Ass. Southeast. Biol.) Bull. 15(2):29-61. Apr.1968. 442.8 As7
- 75933 AURICH, H., NEUMANN, W., and FUCHS, U. Changes in chemical composition of *Neurospora sitophila* hyphae induced by pyridoxine deficiency. (Ge) Arch. Mikrobiol. 61(1):30-39. Ref. 1968. 442.8 Ar26  
English summary.
- 75934 AUSTIN, P. W., and others. Components of *Seseli sibiricum*; constitution and synthesis of sibiricin, a new coumarin. Tetrahedron 24(8):3247-3253. Ref. Apr.1968. 382 T29  
T. R. Seshadri, M. S. Sood, and Vishwapaul, joint authors.
- 75935 AWASTHI, Y. C., and MITRA, C. R. Madhuca butyacea; constituents of the fruit-pulp and the bark. Phytochemistry 7(4):637-640. Ref. Apr. 1968. 450 P5622
- 75936 BAKER, T. I. Phenylalanine-tyrosine biosynthesis in *Neurospora crassa*. Genetics 58(3):351-359. Ref. Mar.1968. 442.8 G28
- 75937 BALAAM, L. N. A two-period design with  $t^2$  experimental units. Biometrics 24(1):61-73. Mar.1968. 442.8 B5224  
Applicable to plant nutrition studies.
- 75938 BANERJEE, S. N., and HORSLEY, R. J. Radioautographic studies in synchronized cultures of *Oedogonium cardiacum*. Amer. J. Bot. 55(4):514-517. Ref. Apr.1968. 450 Am36  
Deoxyribonucleic acid synthesis studied with thymidine-2-C14.
- 75939 BARASHKOVA, E. A. Some data on the rate of transformation of C14 in the thallome of *Cladonia rangiferina* (L.) Web. (Rus) Bot. Zhur. [Moscow] 53(3):378-379. 1968. 451 R923
- 75940 BARRIOS, E. A., and BRESSANI, R. Chemical composition of roots and leaves of some varieties of *Manihot* yuca. (Sp) Turrialba 17(3):314-320. Ref. July/Sept.1967. 8 T86  
English summary.
- 75941 BARTLES, C. T., JAMES, A. T., and NICHOLS, B. W. Metabolism of trans-3-hexadecenoic acid by *Chlorella vulgaris* and by lettuce leaf. Eur. J. Biochem. 3(1):7-10. Ref. Dec.1967. QP501.E8
- 75942 BASILE, D. V. The influence of L-proline and hydroxy-L-proline on ontogeny of *Scapania nemorosa*. Torrey Bot. Club. Bull. 95(2):127-134. Mar./Apr.1968. 451 T63B
- 75943 BASITH, M., and MANDELIN, M. F. Studies on the production of perithecial stromata by *Cordyceps militaris* in artificial culture. Can. J. Bot. 46(4):473-480. Ref. Apr.1968. 470 C16C  
Parasite of lepidopterous larvae.
- 75944 BASKIN, J. M., and MURRELL, J. T. Presence of psoralen in the roots, leaves, and flowers of *Psoralea subaculis* (Leguminosae). Tenn. Acad. Sci. 43(1):25-26. Jan.1968. 500 T25A
- 75945 BASYOUNI, S. H. EL, BREWER, D., and VINING, L. C. Pigments of the genus *Beauveria*. Can. J. Bot. 46(4):441-448. Ref. Apr.1968. 470 C16C  
Isolated from *Beauveria bassiana* and *B. tenella*.
- 75946 BATTERTON, J. C., and VAN BAALEN, C. Phosphorus deficiency and phosphorus uptake in the blue green alga *Anacystis nidulans*. Can. J. Microbiol. 14(4):341-348. Ref. Apr.1968. 448.8 C162
- 75947 BE BACKER, L. W., and BOERSMA, L. Root exploration rate; a new concept in the study of water utilization of soil by plants. (Fr) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:92-106. 1967. 99.9 In82  
English summary.
- 75948 BELL, E. A. Occurrence of the neurolathrogen -amino- $\beta$ -oxalylaminopropionic acid in two species of *Crotalaria* [C. incana and C. mucronata]. Nature 218(5137):197. Ref. Apr.13, 1968. 472 N21
- 75949 BENDANA, F. E., and FRIED, M. Stimulatory effects of gibberellins on the growth of *Chlorella pyrenoidosa*. Life Sci. 6(10,pt.2):1023-1033. Ref. May 15,1967. 442.8 L62
- 75950 BENTLEY-MOWAT, J. A., and REID, S. M. Investigation of the radish leaf bioassay for kinetins, and demonstration of kinetin-like substances in algae. Ann. Bot. (n.s.) 32(125):23-32. Ref. Jan.1968. 450 An7



- 75951 BERNSTEIN, L. B. A biosystematic study of *Rhizophlyctis rosea* with emphasis on zoospore variability. Elisha Mitchell Sci. Soc. J. 84(1): 84-93. Ref. Spring 1968. 500EL4  
Physiological and cytological study.
- 75952 BEYNON, K. I., and WRIGHT, A. N. Break-down of  $^{14}\text{C}$ -chlorfenvinphos insecticide on crops. J. Sci. Food Agr. 19(3):146-153. Mar. 1968. 382 So12
- 75953 BHALLA, V. K., NAYAK, U. R., and DEV, S. Some new flavonoids from *Psoralea corylifolia*. Tetrahedron Lett. 20:2401-2406. Mar. 1968. 385 T29
- 75954 BIANCHI, E., CULVENOR, C. C. J., and LODGER, J. W. Psilostachyin, a cytotoxic constituent of *Ambrosia artemisiifolia* L. Australian J. Chem. 21(4):1109-1111. Ref. Apr. 1968. 475 Au73
- 75955 BIEVRE, C. DE. Effect of beta indoleacetic acid on *Sporotrichum schenkii* cultures, obtained at  $25^{\circ}\text{C}$  and  $35^{\circ}\text{C}$  temperature. (Fr) Acad. Sci. Compte Rendu 266(12):1236-1238. Ref. Mar. 18, 1968. 505 P21
- 75956 BJORKMAN, O. Carboxydismutase activity in shade-adapted and sun-adapted species on higher plants. Physiol. Plant. 21(1):1-10. 1968. 450 P564  
Spermatophyta.
- 75957 BJORKMAN, O. Further studies on differentiation of photosynthetic properties in sun and shade ecotypes of *Solidago virgaurea*. Physiol. Plant. 21(1):84-99. Ref. 1968. 450 P564
- 75958 BLACK, M. How does your garden grow?. New Sci. 36(571):428. Nov. 16, 1967. 472 N42  
Role of auxins.
- 75959 BOICHENKO, E. A. Participation of metals in the evolution of oxidation-reduction processes of plants. (Rus) Akad. Nauk SSSR. Izv. Ser. Biol. 1:24-33. Ref. Jan./Feb. 1968. 511 Sa2B  
English summary.
- 75960 BOISSON, C. Evidence of two successive mycelium phases during the development of *Lep-toporus lignosus* (Kl.) Heim. (Fr) Acad. Sci. C. R., Ser. D. 266(11):1112-1115. Mar. 11, 1968. 505 P21
- 75961 BRIGGS, L. H., CAMBIE, R. C., and COUCH, R. A. F. Triterpenes from some New Zealand dicotyledons. New Zeal. J. Sci. 10(4):1076-1082. Ref. Dec. 1967. 514 N482
- 75962 BROCK, T. D., and BROCK, M. L. Measurement of steady-state growth rates of a thermophilic alga [*Synechococcus*] directly in nature. J. Bacteriol. 95(3):811-815. Ref. Mar. 1968. 448.3 J82
- 75963 BROWN, D. H., and NOVELLI, G. D. Chromatographic differences between the cytoplasmic and mitochondrial tRNAs of *Neurospora crassa*. Biochem. Biophys. Res. Commun. 31(2): 262-266. Apr. 19, 1968. 442.8 R5236
- 75964 BRUNEL-CAPELLE, G., and BRUNEL, A. Biosynthesis induced in *Penicillium roqueforti* by glycohydrazide 3,4-cyclohydrolase (glyco-cyamidine), a new enzyme of guanidine derivation. (Fr) Acad. Sci. C. R., Ser. D, 266(5): 590-592. Feb. 5, 1968. 505 P21
- 75965 BURKHARDT, H. J., and FORGACS, J. O-methylsterigmatocystin, a new metabolite from *Aspergillus flavus*, Link ex Fries. Tetrahedron 24(2):717-728. Ref. Jan. 1968. 382 T29
- 75966 BUTTERFIELD, W. Effect of dimethylsulfoxide on the germination of spores of *Lycogala epidendrum*. Nature 218(5140):494-495. May 4, 1968. 472 N21
- 75967 CANTINO, E. C., TRUESDELL, L. C., and SHAW, D. S. Life history of the motile spore of *Blastocladiella emersonii*; a study in cell differentiation. Elisha Mitchell Sci. Soc. J. 84(1):125-146. Spring 1968. 500 EL4  
Review of the literature.
- 75968 CARR, D. J., and PATE, J. S. Ageing in the whole plant. Soc. Exp. Biol. Symp. 21:559-599. Ref. 1967. 442.9 So15
- 75969 CAVA, M. P., and others. Ocotea alkaloids: The characterization and structures of four new aporphine bases. Tetrahedron Lett. 20: 2437-2442. Mar. 1968. 385 T29  
Y. Watanabe, K. Bessho, M. J. Mitchell, A. I. DaRocha, B. Hwang, B. Douglas, and J. A. Weisbach, joint authors.
- 75970 CHAMBERS, C., and STUART, K. L. Flavan-nine and flavanine, novel morphinandienone alkaloids from *Croton flavens* L. Chem. Commun. 6:328-329. Mar. 20, 1968. 382 C4223
- 75971 CHAPMAN, D. J., COLE, W. J., and SIEGEL-MAN, H. W. Phylogenetic implications of phyco-cyanobilin and C-phycoerythrin. Amer. J. Bot. 55(3):314-316. Ref. Mar. 1968. 450 Am36  
From Cyanophyceae and Rhodophyceae spp.
- 75972 CHENOU-FLEURY, E. Production of diffusible auxin by the terminal shoots and the young leaves of the sporophyte of *Marsilea drummondii* (Filicineae). (Fr) Acad. Sci. C. R., Ser. D, 266(13):1394-1396. Mar. 23, 1968. 505 P21  
Effects of growth substances.
- 75973 CLARK, M. C., and others. Composition of DNA from *Phytophthora infestans*. Can. J. Microbiol. 14(4):482-483. Ref. Apr. 1968. 421 C16  
C. H. Lawrence, O. T. Page, and W. A. Hodgson, joint authors.
- 75974 CLAUSZ, J. C. Factors affecting oogenesis and oospore germination in *Achlya hypogyna*. Elisha Mitchell Sci. Soc. J. 84(1):199-206. Ref. Spring 1968. 500 EL4
- 75975 CLELAND, R. Auxin and wall extensibility: reversibility of auxin-induced wall-loosening process. Science 160(3824):192-194. Ref. Apr. 12, 1968. 470 Sci2  
In *Avena coleoptiles*.
- 75976 COLE, G. T., and KENDRICK, W. B. A thin culture chamber for time-lapse photomicro-graphy of fungi at high magnification. Mycol-ogia 60(2):340-344. Mar./Apr. 1968. 450 M99
- 75977 CORMIS, L. DE. Emission of hydrogen sulfide by plants exposed to an atmosphere containing sulfur trioxide. (Fr) Acad. Sci. C. R., Ser. B. 266(17):683-685. Feb. 12, 1968. 505 P21
- 75978 COSTER, H. G. L., and HOPE, A. B. Ionic relations of cells of *Chara australis*. XI. Chloride fluxes. Australian J. Biol. Sci. 21(2):243-254. Ref. Apr. 1968. 442.8 Au72
- 75979 CURREN, T. Studies on the carbon, nitrogen, and vitamin nutrition of *Stemphylium radicum*. Can. J. Microbiol. 14(4):337-339. Ref. Apr. 1968. 448.8 C162
- 75980 CZYGAN, F. C. Secondary carotenoids in green algae. I. Chemistry, occurrence, and factors controlling the biogenesis of these polyenes. (Ge) Arch. Mikrobiol. 61(1):81-102. Ref. 1968. 442.8 Ar26  
English summary.
- 75981 DANIEL, T. W. A hypothesis of non-dormancy in seed embryos. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:100-118. 1967. 99.9 In82  
Review of the literature.
- 75982 DEERING, R. A. Radiation studies of *Blastocladiella emersonii*. Radiat. Res. 34(1):87-109. Ref., p.107-109. Apr. 1968. 334.8 R11
- 75983 DELONE, N. I., and others. Effect of space flight environments on seeds of higher plants flown on board of the "Cosmos-110". (Rus) Akad. Nauk SSSR. Izv. Ser. Biol. 1:126-129. Jan./Feb. 1968. 511 Sa2B  
E. M. Morozova, V. V. Antipov, G. P. Parfenov, A. S. Trusova, and Z. I. Ukstina, joint authors.  
English summary.
- 75984 DEMOUNEM, R. Effect of the type of forest soil on the growth of underbrush in Landes de Gascogne. (Fr) Acad. Sci. C. R., Ser. D, 266(14):1501-1504. Apr. 1, 1968. 505 P21

- 75985 DENISON, W. C., and CARLSTROM, R. C. Ascocarp development in *Leptosphaerulina argentinensis*. *Elisha Mitchell Sci. Soc. J.* 84(1): 254-257. Spring 1968. 500 EL4
- 75986 DEVLIN, R. M., and GALLOWAY, R. A. Oxidative enzymes and pathways of hexose and triose metabolism in *Chlorella pyrenoidosa*. *Physiol. Plant.* 21(1):11-25. Ref., p.22-25. 1968. 450 P564
- 75987 DICKINSON, D. B., and COCHRAN, D. Dimethyl sulfoxide: reversible inhibitor of pollen tube growth. *Plant Physiol.* 43(3):411-416. Ref. Mar.1968. 450 P692  
Includes tests with *Lilium longiflorum* pollen.
- 75988 DORMAAR, J. F. Infrared absorption spectra of mineral matter in saxicolous lichens and associated mosses. *Can. J. Earth Sci.* 5(2): 223-230. Ref. Apr.1968. 403 C16
- 75989 DOSTAL, R. On integration in plants. Cambridge, Harvard University Press, 1967. 218 p. QK81.D62  
Bibliography, p.203-212.  
Translation of *O celistosti rostliny*.
- 75990 DUBASH, P. J., and REGE, D. V. Chlorophyll formation in *Euglena gracilis* var. *bacillaris*; interference by vitamin analogues. *J. Gen. Microbiol.* 51(1):127-135. Ref. Apr.1968. 448.3 J823
- 75991 DURAND-RIVIERES, R., and FILLON, F. Growth substances and the differentiation of prothallus of *Pteris longifolia* L. (Fr) *Acad. Sci. C. R., Ser. D*, 266(5):471-473. Jan.29,1968. 505 P21
- 75992 DUTTON, M. F., and HEATHCOTE, J. G. Methods, apparatus: new product research, process development and design; the structure, biochemical properties and origin of the aflatoxins B<sub>2</sub> and G<sub>2</sub>. *Chem. Indus.* [London] 13:418-421. Mar.30,1968. 382 M31C  
From *Aspergillus flavus*.
- 75993 DVORAKOVA-HLADKA, J. On the catabolic pathways of sugars in green algae. *Biol. Plant.* 10(1):58-71. Ref. 1968. 450 B52  
*Chlorella pyrenoidosa* and *Scenedesmus obliquus*.
- 75994 ELLIOTT, C. G. Competition and synergism between cholesterol and cholestanol in oospore formation in *Phytophthora cactorum*. *J. Gen. Microbiol.* 51(1):137-143. Ref. Apr.1968. 448.3 J823
- 75995 ELLIS, J. J., and ROBERSON, J. A. Viability of fungus cultures preserved by lyophilization. *Mycologia* 60(2):399-405. Mar./Apr.1968. 450 M99
- 75996 ELLSWORTH, R. K., and ARONOFF, S. Investigations on the biogenesis of chlorophyll a. I. Purification and mass spectra of maleimides from the oxidation of chlorophyll and related compounds. *Arch. Biochem. Biophys.* 124(1/3): 358-364. Ref. Mar.20,1968. 381 Ar2
- 75997 ELLSWORTH, R. K., and ARONOFF, S. Investigations on the biogenesis of chlorophyll a. II. Chlorophyllide a accumulation by a *Chlorella* mutant. *Archiv. Biochem. Biophys.* 125(1):35-39. Ref. Apr.1968. 381 Ar2
- 75998 ELLSWORTH, R. K., and ARONOFF, S. Investigations on the biogenesis of chlorophyll a. III. Biosynthesis of Mg-vinylpheophorbide a<sub>5</sub> methylester from Mg-protoporphyrin IX monomethylester as observed in *Chlorella* mutants. *Archiv. Biochem. Biophys.* 125(1):269-277. Ref. Apr.1968. 381 Ar2
- 75999 ENTWISTLE, N., and PRATT, A. D. 23xi-hydroxy-lanosterol, a new triterpene fungal metabolite of the basidiomycete *Scleroderma aurantium* Pers. *Tetrahedron* 24(10):3949-3953. May 1968. 382 T29
- 76000 EVANS, C. S., ASHER, C. J., and JOHNSON, C. M. Isolation of dimethyl diselenide and other volatile selenium compounds from *Asparagus racemosus* (Pursh.). *Australian J. Biol. Sci.* 21(1):13-20. Ref. Feb.1968. 442.8 Au72
- 76001 EVERSON, R. G., and SLACK, C. R. Distribution of carbonic anhydrase in relation to the C<sub>4</sub> pathway of photosynthesis. *Phytochemistry* 7(4):581-584. Ref. Apr.1968. 450 P5622  
In *Amaranthaceae* and *Panicum* grasses; dicarboxylic acid pathway.
- 76002 FAHSELT, D., and OWNBEY, M. Chromatographic comparisons of *Dicentra* species and hybrids. *Amer. J. Bot.* 55(3):334-345. Ref. Mar.1968. 450 Am36
- 76003 FALCO, M. R., and others. Two new alkaloids from *Berberis laurina* Billb. *Tetrahedron Lett.* 16:1953-1959. Feb.1968. 385 T29  
J. X. de Vries, A. G. de Brovetto, Z. Maccio, S. Rebuffo, and I. R. C. Bick, joint authors.
- 76004 FARNSWORTH, N. R., and others. Investigations on *Catharanthus* species. XVI. Alkal compounds of the roots of *Catharanthus longifolius*. (Ge) *Phytochem.* 7(5):887-888. Ref. May 1968. 450 P5622  
F. H. Pettler, H. Wagner, L. Horhammer, and H. P. Horhammer, joint authors.  
English summary.
- 76005 FOX, L. R., and PURVES, W. K. Mechanism of enhancement of IAA oxidation of 2,4-dichlorophenol. *Plant Physiol.* 43(3):454-456. Ref. Mar.1968. 450 P692
- 76006 FREDERICK, J. F. Multiple forms of polyglucoside-branching enzyme in the algae. *Physiol. Plant.* 21(1):176-182. Ref. 1968. 450 P564
- 76007 FRIED, M., and BRAESHART, H. The soil-plant system in relation to inorganic nutrition. New York, Academic Press, 1967. 358 p. (Monograph Series on Radiation Biology) S633.F7  
Bibliography, p.280-338.
- 76008 GAUR, Y. D. Preliminary studies on titrable acidity in xerophytic plants: *Salvadora persica* Linn. and *Prosopis juliflora* D.C. *Experientia* 24(3):239-240. Ref. Mar.15,1968. 475 Ex7
- 76009 GEZELIUS, K. Hydrolysis of inorganic pyrophosphates in *Dictyostelium discoideum*. *Physiol. Plant.* 21(1):35-44. Ref. 1968. 450 P564
- 76010 GIBBONS, J. W. ~~Carapacial~~ algae in a population of the painted turtle, *Chrysemys picta*. *Amer. Midland Natur.* 79(2):517-519. Apr. 1968. Apr.1968. 410 M58
- 76011 GORDON, J., and PANKRATZ, R. Fluorometric determination of gibberellic acid. *J. Agr. Food Chem.* 16(3):520-522. May/June 1968. 381 J8223  
In plants.
- 76012 GORYSHINA, T. K. Respiration of the spring ephemeral plants in the oak forests, under natural conditions. (Rus) *Leningrad. Univ. Vestnik. Ser. Biol.* 1:77-84. 1968. 442.9 L542V  
English summary.  
*Scilla sibirica*, *Corydalis halleri* and *Anemone ranunculoides*.
- 76013 GRESSEL, J., and WOLOWELSKY, J. A macrotoime for polyacrylamide gel and tissue slicing. *Anal. Biochem.* 22(2):352-354. Feb.1968. 381 An13  
For plant and animal tissue.
- 76014 GRZENDA, A. R., and BALL, R. C. Periphyton production in a warm-water stream. *Mich. Agr. Exp. Sta. Quart. Bull.* 50(3):296-303. Ref. Feb.1968. 100 M58S  
Water pollution test.
- 76015 GUIGNARD, J. L., MESTRE, J. C., and PAYRASTRE, M. F. The growth of cells of cauline apex during germination of *Cerastium glomeratum* Thuill. (Fr) *Acad. Sci. Compte Rendu* 266(12):1246-1247. Mar.18,1968. 505 P21
- 76016 HABERMANN, H. M., HANDEL, M. A., and MCKELLAR, P. Kinetics of chloroplast-mediated photooxidation of diketogulone. *Photochem. Photobiol.* 7(2):211-224. Ref. Feb.1968. 382 P56
- 76017 HART, N. K., JOHNS, S. R., and LAMBERTON, J. A. Alkaloids of *Lampyris* fruticosum Benth. (Leguminosae). *Chem. Commun.* 6:302. Mar.20,1968. 382 C4223



- 76018 HART, N. K., and others. Kreysiginine, a homo-morphine alkaloid from *Kreysigia multiflora* Reichb. *Tetrahedron Lett.* 24:2891-2894. Apr.1968. 385 T29  
S. R. Johns, J. A. Lamberton, and J. K. Saunders, joint authors.
- 76019 HAYWARD, J. Studies on the growth of *Phaeodactylum tricornutum*. II. The effect of organic substances on growth. *Physiol. Plant.* 21(1): 100-108. Ref. 1968. 450 P564
- 76020 HEATH, R. L., and PACKER, L. Photoperoxidation in isolated chloroplasts. I. *Archiv. Biochem. Biophys.* 125(1):189-198. Ref. Apr. 1968. 381 Ar2
- 76021 HESKETH, J. D. Effects of light and temperature during plant growth on subsequent leaf CO<sub>2</sub> assimilation rates under standard conditions. *Australian J. Biol. Sci.* 21(2):235-241. Ref. Apr.1968. 442.8 Au72
- 76022 HEW, C. S., and KROTKOV, G. Effects of oxygen on the rates of CO<sub>2</sub> evolution in light and in darkness by photosynthesizing and non-photosynthesizing leaves. *Plant Physiol.* 43(3):464-466. Mar.1968. 450 P692
- 76023 HILDRETH, W. W. Laser-activated electron transport in *Chlamydomonas [reinharii]* mutant. *Plant Physiol.* 43(3):303-312. Ref. Mar.1968. 450 P692
- 76024 HINDAK, F., and KOMAREK, J. Cultivation of the cryosestonic alga *Koliella tatrae* (Kol) Hine. *Biol. Plant.* 10(2):95-97. 1968. 450 B52
- 76025 HOGG, J., WILLIAMS, E. J., and JOHNSTON, R. J. A simplified method for measuring membrane resistances in *Nitella translucens*. *Biochim. Biophys. Acta* 150(3):518-520. Apr.29, 1968. 381 B522
- 76026 HOGG, R. W., and BROQUIST, H. P. Homocitrate formation in *Neurospora crassa*. *J. Biol. Chem.* 243(8):1839-1845. Ref. Apr.25, 1968. 381 J824
- 76027 HOLTON, R. W., BLECKER, H. H., and STEVENS, T. S. Fatty acids in blue-green algae: possible relation to phylogenetic position. *Science* 160(3827):545-547. Ref. May 3, 1968. 470 Sci2
- 76028 HOLZAPFEL, C. W., and STEYN, P. S. The isolation and structure of a new diterpene lactone from *Trichothecium roseum* Link. *Tetrahedron* 24(8):3321-3328. Ref. Apr.1968. 382 T29
- 76029 HOWARD, G. A., and GAINES, R. D. Glucosyl transfer by  $\beta$ -thioglucosidase. *Phytochemistry* 7(4):585-588. Ref. Apr.1968. 450 P5622  
In *Brassica nigra*.
- 76030 HUMPHREY, B. A., MARSHALL, K. C., and VINCENT, J. M. Electrophoretic mobility of calcium-adequate and calcium-deprived *Rhizobium trifolii*. *J. Bacteriol.* 95(2):721. Feb. 1968. 448.3 J82
- 76031 HUNNEMAN, D. E. A cautionary note on phthalate esters of *Cryptotaenia canadensis*. *Tetrahedron Lett.* 14:1743. Feb.1968. 385 T29
- 76032 IKAWA, M., BOROWSKI, P. T., and CHAKRAVARTI, A. Choline and inositol distribution in algae and fungi. *Appl. Microbiol.* 16(4):620-623. Ref. Apr.1968. 448.3 Ap5
- 76033 ILAG, L., and CUTRIS, R. W. Production of ethylene by fungi. *Science* 159(3821):1357-1358. Ref. Mar.22, 1968. 470 Sci2
- 76034 INGOLD, C. T., and DANN, V. Spore discharge in fungi under very high surrounding air-pressure, and the bubble-theory of ballistophore release. *Mycologia* 60(2):285-289. Mar./Apr. 1968. 450 M99  
Tests with *Sordaria fimicola*, *Schizophyllum commune*, and *Entomophthora coronata*.
- 76035 IRIE, T., IZAWA, M., and KUROSAWA, E. Laureatin, a constituent from *Laurencia nipponica* Yamada. *Tetrahedron Lett.* 17:2091-2096. Ref. Mar.1966. 385 T29
- 76036 JACKSON, B., LOCKSLEY, H. D., and SCHEINMANN, F. Extractives from *Guttiferae*. VIII. The isolation of 6-(3,3-dimethylallyl)-1,5-hydroxy-xanthone and two related metabolites from *Calophyllum scribittifolium* Henderson and Wyatt-Smith. *Tetrahedron* 24(7):3059-3068. Apr.1968. 382 T29
- 76037 JAMES, C. S., and WAIN, R. L. Studies on plant growth-regulating substances. XXVI. Isatic and anthranilic acids. *Ann. Appl. Biol.* 61(2):295-302. Ref. Apr.1968. 442.8 An72  
The wheat cylinder test, pea-segment test and pea-curvature test applied.
- 76038 JEREBZOFF, S., and LAMBERT, E. Particular characteristics of daily rhythm in the zonation of *Penicillium expansum* Link. (Fr) *Acad. Sci. Compte Rendu* 266(12):1269-1271. Ref. Mar.18, 1968. 505 P21
- 76039 JEREBZOFF, S., NYSTERAKIS, F., and JEREBZOFF-QUINTIN, S. Stabilization of the rhythm of zonation in *Leptosphaeria michotii* (West.) Sacc. by combined effects of potassium and sodium phosphates and of copper sulfate. *Acad. Sci. C. R., Ser. D*, 266(9):889-891. Feb.26, 1968. 505 P21
- 76040 JEREBZOFF-QUINTIN, S., JEREBZOFF, S., and NYSTERAKIS, F. On the antiauxinic action of biotin precursors in *Nectria galligena* Bres. (Fr) *Acad. Sci. C. R., Ser. D*. 266(11):1127-1130. Mar.11, 1968. 505 P21
- 76041 JOHNS, S. R., and others. Alkaloids of a new type from *Elaeocarpus polydactylus* Schl. (family *Elaeocarpaceae*). *Chem. Commun.* 6:290-291. Mar.20, 1968. 382 C4233  
J. A. Lamberton, A. A. Sioumis, and J. A. Wunderlich, joint authors.
- 76042 JOHNS, S. R., LAMBERTON, J. A., and SIOUMIS, A. A. *Elaeocarpidine*, a new indole alkaloids from *Elaeocarpus archboldianus* A. C. Sm. *Chem. Commun.* 7:410. Apr.10, 1968. 382 C4223
- 76043 JOHNS, S. R., LAMBERTON, J. A., and PRICE, J. R. (±)-N-benzoyl[2-hydroxy-2-(4'-methoxyphenyl)ethyl]amine from *Clausena brevistylis* Oliver (family *Rutaceae*). *Australian J. Chem.* 20(12):2795-2797. Dec.1967. 475 Au73
- 76044 JOHNSON, M. K., and others. Effects of salts on the halophilic alga *Dunaliella viridis*. *J. Bacteriol.* 95(4):1461-1468. Ref. Apr.1968. 448.3 J82  
E. J. Johnson, R. D. Macelroy, H. L. Speer, and B. S. Bruff, joint authors.
- 76045 JOLIOT, P., JOLIOT, A., and KOK, B. Analysis of the interactions between the two photosystems in isolated chloroplasts. *Biochim. Biophys. Acta* 153(3):635-652. Ref. Apr.2, 1968. 381 B522
- 76046 JOLIOT, P., and JOLIOT, A. A polarographic method for detection of oxygen production and reduction of Hill reagent by isolated chloroplasts. *Biochim. Biophys. Acta* 153(3):625-634. Apr.2, 1968. 381 B522
- 76047 KESSLER, E., and CZYGAN, F. C. The effect of iron supply on the activity of nitrate and nitrite reduction in green algae [*Ankistrodesmus braunii*]. *Arch. Mikrobiol.* 60(4):282-284. Ref. 1968. 442.8 Ar26
- 76048 KESSLER, E. Iron supply and hydrogenase activity in green algae. *Arch. Mikrobiol.* 61(1): 77-80. Ref. 1968. 442.8 Ar26
- 76049 KHOBZI, J., and BRACHET, J. Evaluation of the water requirements of plants in reference to irrigation. (Fr) *Mediterranea* 18:95-108. Ref. Feb.1968. 281.8 M462  
English summary.
- 76050 KIEFER, W. Plant biological purification of waste water. (Ge) *Umschau* 68(7):210. Mar. 1968. 474 Um7
- 76051 KIRK, J. T. O., and TILNEY-BASSETT, R. A. E. The plastids: their chemistry, structure, growth and inheritance. London, Freeman, 1967. 608 p. Ref. (A Series of Books on Biology) QK899.K5

- 76052 KNIPE, O. D. Effects of moisture stress on germination of alkali sacaton, galleta, and blue grama. *J. Range Manage.* 21(1):3-4. Jan.1968. 60.18 J82  
Sporobolus airoides, Hilaria jamesi, and Bouteloua gracilis.
- 76053 KOFLER, L., and GREPIN, N. Response of Funaria hygrometrica spores to a temporary geotropical stimulus. (Fr) *Acad. Sci. C. R., Ser. D*, 266(5):484-486. Jan.29,1968. 505 P21
- 76054 KOLATTUKUDY, P. E. Further evidence for an elongation-decarboxylation mechanism in the biosynthesis of paraffins in leaves. *Plant Physiol.* 43(3):375-383. Ref. Mar.1968. 450 P692
- 76055 KOLLER, D., and NEGBI, M. Germination of seeds of desert plants. Jerusalem, Hebrew University, Department of Botany, 1966. 180 p. PREP 1357  
Bibliography, p.173-180.
- 76056 KRAMER, C. L., and PADY, S. M. Viability of airborne spores. *Mycologia* 60(2):448-449. Mar./Apr.1968. 450 M99
- 76057 KRIKORIAN, A. D., and STEWARD, F. C. Water and solutes in plant nutrition: with special reference to van Helmont and Nicholas of Cusa. *BioScience* 18(4):286-292. Ref. Apr.1968. 500 Am322A  
15th and 16th century authors.
- 76058 KROH, M., and MUNTING, A. J. Pollen-germination and pollen tube growth in *Diplotaxis tenuifolia* after cross-pollination. *Acta Bot. Neer.* 16(5):182-187. Ref. Nov.1967. 450 Ac822
- 76059 KRYUKOVA, L. M., MUKHAMBETDZHANOV, K. K., and NAZAROVA, L. F. Gibberellins and the effect on plants caused by radiation [gamma rays]. (Rus) *Priroda [Moscow]* 1:116-117. Jan.1968. 410 P933
- 76060 KRYUKOVA, L. Gibberellins and radioactive affection. (Rus) *Zemledelie* 4:47. Apr.1968. 20 Z44  
Effect of gamma rays on several plants treated with gibberellins.
- 76061 KUBECZKA, K. H. Comparative studies on the biogenesis of volatile secondary products. II. Studies on moulds. (Ge) *Arch. Mikrobiol.* 60(2):139-159. Ref. 1968. 442.8 Ar26  
English summary.  
*Penicillium* and *Aspergillus* spp.
- 76062 KULL, U. Occurrence of sedoheptulose in seeds and vegetative parts of some Angiospermae. (Ge) *Phytochem.* 7(5):783-785. Ref. May 1968. 450 P5622  
English summary.
- 76063 KWOLEK, W. F., and VAN ETEN, C. H. Evaluation of amounts and pattern of essential amino acids in plant seeds. *J. Agr. Food Chem.* 16(3):496-499. Ref. May/June 1968. 381 J8223
- 76064 LAL, B. M., and VERMA, S. C. Physiology of Bengal gram [*Cicer arietinum*] seed. III. Changes in the phosphorus compounds of the seed parts during ripening of the seed. *J. Sci. Food Agr.* 19(2):113-116. Feb.1968. 382 So12
- 76065 LAMOURE, D. Parthenogenesis in *Omphalina ericetorum* (Pers. ex Fr.) M. Lange and in two related species. (Fr) *Acad. Sci. C. R., Ser. D*, 266(14):1499-1500. Apr.1,1968. 505 P21  
*Omphalina luteovitellina*, and *O. luteoilacina*.
- 76066 LARKUM, A. W. D. Ionic relations of chloroplasts in vivo. *Nature* 218(5140):447-449. Ref. May 4,1968. 472 N21  
In *Tolypella intricata*.
- 76067 LARPENT, J. P. Growth and morphogenesis of thallus in *Draparnaldia mutabilis* (Roth) Bory, preliminary study. (Fr) *Acad. Sci. C. R., Ser. D*, 266(14):1476-1478. Apr.1,1968. 505 P21
- 76068 LATHAM, A. J. A modified petri dish micro-humidity chamber. *Plant Dis. Rep.* 52(4):327. Apr.1968. 1.9 P69P  
For fungi cultures.
- 76069 LAURENT, S. Structure of two phenolic substances isolated from the prothallus of *Blechnum brasiliense*. (Fr) *Acad. Sci. C. R., Ser. D*, 266(13):1425-1428. Mar.23,1968. 505 P21
- 76070 LAVIE, D., and others. A new quinolone type alkaloid from *Haplophylum tuberculatum* (Rutaceae). *Tetrahedron* 24(7):3011-3018. Ref. Apr.1968. 382 T29  
N. Danieli, R. Weitman, and E. Glotter, joint authors.
- 76071 LAVIE, D., JAIN, M. K., and OREBAMJO, T. O. Terpenoids. VII. Constituents of *Euphorbia lateriflora* Schum. and Thonn. *Phytochemistry* 7(4):657-660. Apr.1968. 450 P5622
- 76072 LAWTON, J. R. S., and AKPAN, E. E. J. Periodicity in *Plumeria*. *Nature* 218(5139):384-386. Apr.27,1968. 472 N21  
Study of photoperiodicity.
- 76073 LEE, P. C., and DEBUSK, A. G. Amino acid incorporation by cell-free extracts of *Neurospora crassa*. *Biochim. Biophys. Acta* 157(2):427-429. Apr.22,1968. 381 B522
- 76074 LEFEBRE, G., and others. Degradeation of lateral chain of steroids by *Nocardia* in the A patent cycle. (Fr) *Acad. Sci. C. R., Ser. D*, 266(11):1196-1199. Ref. Mar.11,1968. 505 P21  
H. Martinge, M. Maugras, and R. Gay, joint authors.
- 76075 LEVI, E. The distribution of mineral elements following leaf and root uptake. *Physiol. Plant.* 21(1):213-226. Ref. 1968. 450 P564  
Autoradiographic study.
- 76076 LEWAK, S. Determination of the degree of polymerization of leucoanthocyanidins. *Phytochemistry* 7(4):665-667. Ref. Apr.1968. 450 P5622  
Of hawthorn.
- 76077 LEWIS, H. L., and JOHNSON, K. G. T. Reversal of inhibition of endogenous respiration of *Cunninghamella echinulata* by intermediate-chain-length fatty acids. *Mycologia* 60(2):384-398. Ref. Mar./Apr.1968. 450 M99
- 76078 LHOSTE, J. M. Electronic paramagnetic resonance of photo-excited first triplet stage of chlorophyll b. (Fr) *Acad. Sci. C. R., Ser. D*, 266(10):1059-1062. Ref. Mar.4,1968. 505 P21
- 76079 LIEBS, P. On the localization of the sucrose uptake by submerged *Aspergillus niger* mycel. (Ge) *Arch. Mikrobiol.* 61(2):103-111. Ref. 1968. 442.8 Ar26  
English summary.
- 76080 LIGHT, R. J. Effects of cycloheximide and amino acid analogues on biosynthesis of 6-methylsalicylic acid in *Penicillium patulum*. *Arch. Biochem. Biophys.* 122(2):494-500. Ref. Nov.1967. 381 Ar2
- 76081 LINNEMANN, G. *Ampelomyces quisqualis* Ces., a parasite on Mucorineae. (Ge) *Arch. Mikrobiol.* 60(1):59-75. Ref. 1968. 442.8 Ar26  
English summary.
- 76082 LIVINGSTON, R. B., and ALLESSIO, M. L. Buried viable seed in successional field and forest stands, Harvard Forest, Massachusetts. *Torrey Bot. Club Bull.* 95(1):58-69. Jan./Feb. 1968. 451 T63B
- 76083 LIWSKI, S. Microelements—manganese, iron, boron, copper, cobalt, zinc and molybdenum—in meadow and marsh vegetation. *Water Econ. [Sele. Articles]* 20(8):335-338. 1966. (TT 63-11363) HD1697.P7S4  
Translation from *Gospodarka Wodna* 20(8):383-384. 1960.  
Issued by CFSTI.
- 76084 LOEBLICH, A. R., and SMITH, V. E. Chloroplast pigments of the marine dinoflagellate *Gyrodinium resplendens*. *Lipids* 31(1):5-13. Ref. Jan.1968. QP751.L5
- 76085 LUNDEGARDH, H. The systems I, II and III in the photosynthetic cycle of electron transfer. *Physiol. Plant.* 21(1):148-167. Ref. 1968. 450 P564



- 76086 MAJOR, J. Potential evapotranspiration and plant distribution in western states with emphasis on California. In Shaw, R. H., ed. Ground level climatology, p.93-126. Ref. 1967. QC981.S5
- 76087 MANCHANDA, A. H., NABNEY, J., and YOUNG, D. W. 2,3-dehydro-O-(2-pyrrolyl-carbonyl)virgiline, an alkaloid from *Readea membranacea* Gillespie (Rubiaceae). Chem. Soc. J. C, Org. 5:615-616. 1968. QD241.C5
- 76088 MARKHAM, K. R., and MABRY, T. J. The identification of twenty-three 5-deoxy- and the 5-hydroxy-flavonoids from *Baptisia lecontei* (Leguminosae). Phytochem. 7(5):791-801. Ref. May 1968. 450 P5622
- 76089 MARKHAM, K. R., MABRY, T. J., and SWIFT, T. W. New isoflavones from the genus *Baptisia* (Leguminosae). Phytochem. 7(5):803-808. Ref. May 1968. 450 P5622
- 76090 MARKOVETZ, A. J., CAZIN, J., and ALLEN, J. E. Assimilation of alkanes and alkenes by fungi. Appl. Microbiol. 16(3):487-489. Mar. 1968. 448.3 Ap5
- 76091 MASSEY, J. H. Evaluation of plants with chemurgic potential. Ga. Agr. Exp. Sta. Res. Bull. 7,15 p. May 1967. S51.E2
- 76092 MATHER, J. R., and YOSHIOKA, G. A. The role of climate in the distribution of vegetation. Ass. Amer. Geogr. Ann. 58(1):29-41. Mar. 1968. 500 As73
- 76093 MATHUR, J. M. S. The mean position of first double bond in natural fat fatty acids. Cur. Sci. 37(2):54-55. Jan.20,1968. 475 Sci23  
Isolated from various seed fats.
- 76094 MCDOWELL, L. L., and DE HERTOGH, A. A. Metabolism of sporulation in filamentous fungi. I. Glucose and acetate oxidation in sporulating and nonsporulating cultures of *Endothia*. Can. J. Bot. 46(4):449-451. Ref. May 1968. 470 C16C
- 76095 MEDERSKI, H. J., and ALLES, W. Beta gauging leaf water status: influence of changing leaf characteristics. Plant Physiol. 43(3):470-472. Mar.1968. 450 P692
- 76096 MEGURO, H., ITO, K., FUKUSHIMA, H. Ice flora (bottom type); a mechanism of primary production in polar seas and the growth of diatoms in sea ice. Arctic 20(2):114-133. Ref. June 1967. 470 Ar22
- 76097 MIURA, H., KIHARA, T., and KAWANO, N. New bisflavones from *Podocarpus* and *Chamaecyparis* plants. (Ge) Tetrahedron Lett. 19:2339-2342. Mar.1968. 385 T29
- 76098 MIZRAHI, A., and MILLER, G. Effect of glycols on the production of ergot alkaloids by *Claviceps paspali*. Biotechnol. Bioeng. 10(1):102-103. Jan.1968. 381 J8224
- 76099 MONEGER, R. On the use of an ultrasensitive device to separate and determine carotenoids in etiolated small foliage samples of *Spirodela polyrrhiza* Schleid. (Fr) Acad. Sci. C. R., Ser. B. 266(17):672-675. Feb.12,1968. 505 P21
- 76100 MONTANT, C., and DARGENT, R. Study of amino acid penetration into fungi cells; experimental records and the evidence of some of its modalities in *Trichotecium roseum*. (Fr) Acad. Sci. C. R., Ser. D, 266(13):1388-1390. Ref. Mar.23,1968. 505 P21
- 76101 MOUSSEAU, M. Comparative effects of light on the intensity of photosynthesis in detached leaves or on stem, according to illumination conditions during growth. (Fr) Acad. Sci. C. R., Ser. D, 266(13):1391-1393. Mar.23,1968. 505 P21  
In *Teucrium scorodonia*.
- 76102 MUNRO, A. L. S., and BROCK, T. D. Distinction between bacterial and algal utilization of soluble substances in the sea. J. Gen. Microbiol. 51(1):35-42. Ref. Apr.1968. 448.3 J823
- 76103 NEALES, T. F. Effects of high temperature and genotype on the growth of excised roots of *Arabidopsis thaliana*. Australian J. Biol. Sci. 21(2):217-223. Ref. Apr.1968. 442.8 Au72
- 76104 NORDBRING-HERTZ, B. The influence of medium composition and additions of animal origin on the formation of capture organs in *Arthrobotrys oligospora*. Physiol. Plant. 21(1):52-65. Ref. 1968. 450 P564  
A nematode-trapping fungus.
- 76105 NYSTERAKIS, F., JEREBZOFF, S., and JEREBZOFF-QUINTIN, S. Rythm of some strains of *Neurospora tetrasperma*. (Fr) Acad. Sci. C. R., Ser. D, 266(8):788-791. Ref. Feb.19, 1968. 505 P21  
Effects of indoleacetic acid.
- 76106 OERTLI, J. J., and RICHARDSON, W. F. Effects of external salt concentrations on water relations in plants: IV. The compensation of osmotic and hydrostatic water potential differences between root xylem and external medium. Soil Sci. 105(3):177-183. Ref. Mar.1968. 56.8 So3
- 76107 OERTLI, J. J. Effects of external salt concentration on water relations in plants. 5. Significance of external water-potential and salt-transport kinetics on rate of cell expansion. Soil Sci. 105(4):216-222. Ref. Apr.1968. 56.8 So3
- 76108 OHTA, Y., and HIROSE, Y. New sesquiterpenoids from *Schisandra chinensis*. Tetrahedron Lett. 20:2483-2485. Mar.1968. 385 T29
- 76109 OLNEY, H. O. Growth substances from *Vernonia tenuipetalum*. Plant Physiol. 43(3):293-302. Ref. Mar.1968. 450 P692
- 76110 ONGUN, A., and MUDD, J. B. Biosynthesis of galactolipids in plants. J. Biol. Chem. 243(7):1558-1566. Ref. Apr.10,1968. 381 J824
- 76111 ORDIN, L., and HALL, M. A. Cellulose synthesis in higher plants from UDP glucose. Plant Physiol. 43(3):473-476. Mar.1968. 450 P692
- 76112 OULEVEY-MATIKIAN, N., and TURIAN, G. Metabolic control and ultrastructural aspects of the conidiation (macro-microconidia) of *Neurospora crassa*. (Fr) Arch. Mikrobiol. 60(1):35-58. Ref. 1968. 442.8 Ar26  
English summary.
- 76113 PAASCHE, E. Marine plankton algae grown with light-dark cycles. II. *Ditylum brightwellii* and *Nitzschia turgidula*. Physiol. Plant. 21(1):66-77. Ref. 1968. 450 P564
- 76114 PAGE, J. Z., and KINGSBURY, J. M. Culture studies on the marine green alga *Halicystis parvula*-*Derbesia tenuissima*. II. Synchrony and periodicity in gamete formation and release. Amer. J. Bot. 55(1):1-11. Ref. Jan. 1968. 450 Am36
- 76115 PAKHOMOVA, M. V., SURGAI, V. V., and ZAITSEVA, G. N. Acid-soluble phosphorus compounds in *Asteromonas gracilis* in relation to the nitrogen source. (Rus) Akad. Nauk SSSR. Izv. Ser. Biol. 4:624-630. Ref. July/Aug.1967. 511 Sa2B  
English summary.
- 76116 PATTERSON, G. W. Sterols of *Laminaria* [faeroensis and *L. digitata*]. Compar. Biochem. Physiol. 24(2):501-505. Feb.1968. 444.8 C73
- 76117 PEGEL, K. H., and ROGERS, C. B. Constituents of *Bridelia micrantha*. Phytochemistry 7(4):655-656. Ref. Apr.1968. 450 P5622
- 76118 PELLETIER, S. W., ANEJA, R., and GOPI-NATH, K. W. The alkaloids of *Aconitum heterophyllum* Wall.: Isolation and characterization. Phytochemistry 7(4):625-635. Ref. Apr.1968. 450 P5622
- 76119 PERVUKHINA, N. V. The pollination of the primary angiosperms and the evolution of modes of pollination. (Rus) Bot. Zhur. [Moscow] 52(2):157-188. Ref. Feb.1967. 451 R923  
English summary.  
Includes morphology of reproductive organs.

- 76120 PFIRSCH, E. Effects of cold on the epigeous stolon of *Stachys silvatica* L.: Interruption of the autonomous transmission by the disappearance of the stolonization substance. (Fr) Acad. Sci. C. R., Ser. D, 266(8):781-783. Feb.19,1968. 505 P21
- 76121 PONSINET, G., and OURISSON, G. Special consideration on the biosynthesis of triterpenes of *Euphorbia latex*. (Fr) Phytochem. 7(5):757-764 764. Ref. May 1968. 450 P5622  
English summary.
- 76122 POTAPOV, M. I. Plant agglutinins in relation to A antigen in human body. (Rus) Akad. Nauk. SSSR. Izv. Ser. Biol. 1:59-66. Ref. Jan./Feb. 1968. 511 Sa2B  
English summary.
- 76123 PRATT, L. H., and BISHOP, N. I. Chloroplast reactions of photosynthetic mutants of *Scenedesmus obliquus*. Biochim. Biophys. Acta 153 (3):664-674. Ref. Apr.2,1968. 381 B552
- 76124 PREUSS, P. W., LEMMENS, A. G., and WEINSTEIN, L. H. Studies on fluoro-organic compounds in plants. I. Metabolism of 2-<sup>14</sup>C-fluoroacetate. Boyce Thompson Inst. Contrib. 24 (2):25-31. Ref. Jan./Mar.1968. 451 B69
- 76125 PROVITA, J., and others. Steroid derivatives. LV. Folia Microbiol. 13(2):146-152. Ref. 1968. 448.3 C332  
V. Schwarz, J. Martinkova, and K. Syhora, joint authors.  
Isolated from fungi.
- 76126 QUEIROZ, O. Effect of photoperiodism on the enzyme activity in the synthesis or degradation of malic acid in *Kalanchoe blossfeldiana*. (Fr) Acad. Sci. Compte Rendu 266(12):1260-1262. Mar.18,1968. 505 P21
- 76127 QUETIER, F., and GUILLE, E. Studies on plant deoxyribonucleic acids. I. Extraction, fractionation, and analytical thermal denaturation. Arch. Biochem. Biophys. 124(1/3):1-11. Ref. Mar.20,1968. 381 Ar2
- 76128 QUETIER, F., GUILLE, E., and VEDEL, F. Study of deoxyribonucleic acids of plants; isolation and properties of a nuclear DNA abundant in guanine and cytosine. (Fr) Acad. Sci. C. R., Ser. B. 266(17):735-738. Ref. Feb.12, 1968. 505 P21
- 76129 RADUNZ, A. On the lipides of pteridophytes. II. The fatty acids of lipides from leaves of *Dryopteris filix-mas*. (Ge) Hoppe-Seyler's Z. Physiol. Chem. 349(3):303-309. 1968. 384 Z38  
English summary.
- 76130 RAGONESE, F. P., and WILLIAMS, J. A. A mathematical model for the batch reactor kinetics of algae growth. Biotechnol. Bioeng. 10(1):83-88. Ref. Jan.1968. 381 J8224
- 76131 RAO, A. N., and SINGARAYAR, M. Controlled differentiation of foliar sclereids in *Fagraea fragrans*. Experientia 24(3):298-299. Ref. Mar.15,1968. 475 Ex7
- 76132 RAO, P. V. S., and others. Anthranilic acid hydroxylase from *Aspergillus niger*. Biochem. Biophys. Res. Commun. 31(2):193-196. Ref. Apr.19,1968. 442.8 R5236  
N. S. Sreeleela, R. Premkumar, and C. S. Vaidyanathan, joint authors.
- 76133 RASMUSSEN, H. P., and BUKOVAC, M. J. Comparative biological activity of 3-chlorophenoxy-alpha-propionic acid and 3-chlorophenoxy-alpha-propionamide. Mich. Agr. Exp. Sta. Quart. Bull. 49(4):384-393. Ref. May 1967. 100 M58S  
Effects of growth regulators on abscission in various plants.
- 76134 RAWAT, A. K. Some observations on the aspergillin of *Aspergillus niger*. Arch. Biochem. Biophys. 124(1/3):418-421. Ref. Mar.20,1968. 381 Ar2
- 76135 REES, H. H., GOAD, L. J., and GOODWIN, T. W. Studies in phytosterol biosynthesis; mechanism of biosynthesis of cycloartenol. Biochem. J. 107(3):417-426. Ref. Apr.1968. 382 B52
- 76136 REESE, E. T. Extracellular purine beta ribosidases from fungi. Can. J. Microbiol. 14(4):377-383. Ref. Apr.1968. 448.8 C162  
*Aspergillus* and *Penicillium*.
- 76137 REITZ, R. C., and HAMILTON, J. G. The isolation and identification of two sterols from two species of blue-green algae. Compar. Biochem. Physiol. 25(2):401-416. Ref. May 1968. 444.8 C73  
Cholesterol and beta-sitosterol from *Anacystis nidulans* and *Fremyella diplosiphon* respectively.
- 76138 RESPLANDY, A. Two cases of structural analogy in the domain of substances perturbing geotropism of plants. (Fr) Acad. Sci. Compte Rendu 266(12):1253-1255. Mar.18,1968. 505 P21  
Lentils.
- 76139 RICHARDSON, N., and DIXON, P. S. Life history of *Bangia fuscopurpurea* (Dillw.) Lyngb. in culture. Nature 218(5140):496-497. Ref. May 4, 1968. 472 N21
- 76140 RICICOVA, A., and REHACEK, Z. Preparation of inoculum from sclerotia of the ascomycete *Claviceps purpurea*. Folia Microbiol. 13(2):156-157. 1968. 448.3 C332
- 76141 ROUGHAN, P. G., and BATT, R. D. Quantitative analysis of sulfolipid (sulfoquinovosyl diglyceride) and galactolipids (monogalactosyl and digalactosyl diglycerides) in plant tissues. Anal. Biochem. 22(1):74-88. Ref. Jan.1,1968. 381 An13
- 76142 RYTOVA, N. G. Certain regularities in growth of leaves and vegetative shoots of meadow grasses. (Rus) Bot. Zhur. [Moscow] 52(2):249-256. Ref. Feb.1967. 451 R923  
*Poa pratensis* and *Festuca rubra*.
- 76143 RZHANOVA, G. N. Nitrogen-containing compounds of some blue-green algae. (Rus) Akad. Nauk SSSR. Izv. Ser. Biol. 1:143-149. Jan./Feb. 1968. 511 Sa2B  
English summary.  
Cyanophyta.
- 76144 SAITO, T. Effect of net radiation and wind on nocturnal cooling of plant communities. (Ja) Soc. Agr. Meteorol. Jap. J. Agr. Meteorol. 23 (2):65-74. Sept.1967. 340.9 S01  
English summary.
- 76145 SANKHLA, N., and SANKHLA, D. Abscisin II-kinetin interaction in leaf [*Arabidopsis thaliana*] senescence. Experientia 24(3):294-295. Mar.15,1968. 475 Ex7
- 76146 SANWAL, G. G., and others. Regulation of starch biosynthesis in plant leaves: activation and inhibition of ADP glucose pyrophosphorylase. Plant Physiol. 43(3):417-427. Ref. Mar.1968. 450 P692  
E. Greenberg, J. Hardie, E. C. Cameron, and J. Preiss, joint authors.
- 76147 SAUNIER, R. E., HULL, H. M., and EHRENREICH, J. H. Aspects of the drought tolerance in creosotebush (*Larrea divaricata*). Plant Physiol. 43(3):401-404. Ref. Mar.1968. 450 P692
- 76148 SCHNEIDER, H. A. W. Chlorophyllides in green and etiolated leaves. Phytochem. 7(5):885-886. Ref. May 1968. 450 P5622
- 76149 SCHWINGHAMER, E. A. Loss of effectiveness and infectivity in mutants of *Rhizobium* resistant to metabolic inhibitors. Can. J. Microbiol. 14(4):355-367. Ref. Apr.1968. 448.8 C162  
Loss of ability of nodule formation by *Rhizobium leguminosarum* and *R. trifolii*.
- 76150 SEMKHATOVA, O. A. Metody otsenki energeticheskoi effektivnosti dykhaniya rastenii [Methods of estimating the energetic effectiveness of plant respiration]. Leningrad, Nauka, 1967. 94 p. QK891.S42  
Bibliography, p.81-90.
- 76151 SENGHER, H., and BISHOP, N. I. An action spectrum for nucleic acid formation in an achlorophyllous mutant of *Chlorella pyrenoidosa*. Biochim. Biophys. Acta 157(2):417-419. Ref. Apr.22,1968. 381 B522



- 76152 SENGUPTA, P., and others. Chemical investigations on *Putranjiva roxburghii*; the structure of a new triterpene, putranjivadiene. *Tetrahedron* 24(3):1205-1213. Feb.1968. 382 T29  
A. K. Chakraborty, A. M. Duffield, L. J. Durham, and C. Djerassi, joint authors.
- 76153 SHAH, C. K. Development of pericarp and seed coat in the Cyperaceae. (Fr) *Nature Can.* 95 (1):39-48. Ref. Jan./Feb.1968. 410 N216  
Includes structure.
- 76154 SHATILOV, V. R., EVSTIGNEEVA, Z. G., and KRETOVICH, W. L. The alanine dehydrogenase of *Chlorella [pyrenoidosa]*. (Rus) *Akad. Nauk SSSR. Dokl.* 178(2):482-484. 1968. 511 P444A
- 76155 SHAW, D. S., and ELLIOTT, C. G. Streptomycin resistance and morphological variation in *Phytophthora cactorum*. *J. Gen. Microbiol.* 51 (1):75-84. Ref. Apr.1968. 448.3 J823
- 76156 SHIMI, I. R., and IMAM, G. M. Studies on the synthesis of valine moiety of 6-aminopenicillanic acid by preformed mats of *Penicillium chrysogenum*. *Arch. Mikrobiol.* 60(4):275-281. Ref. 1968. 442.8 Ar26
- 76157 ŠLAVIK, J. Alkaloids of Papaveraceae. XXXVIII. On the identity of the so-called aurotensine from some species of the genus *Glaucium* with isoboldin. (Ge) *Collect. Czech. Chem. Commun.* 33(1):323-326. Ref. Jan.1968. 385 C68
- 76158 SLIFKIN, M. K. The effect of colchicine on *Olpidiopsis incrassata* and its host, *Saprolegnia delica*. *Elisha Mitchell Sci. Soc. J.* 84(1):184-186. Spring 1968. 500 EL4
- 76159 SMITH, J. H., and others. Differences in chemical composition of plant sample fractions resulting from grinding and screening. *Agron. J.* 60(2):149-151. Ref. Mar./Apr.1968. 4 Am34P  
D. L. Carter, M. J. Brown, and C. L. Douglas, joint authors.
- 76160 SODING, H., and DORFFLING, K. Paper chromatographic analysis by a new test method of bactericidal substances in plant extracts and possible relations of these substances to plant growth inhibitors. (Ge) *Arch. Mikrobiol.* 60 (2):182-200. Ref. 1968. 442.8 Ar26  
English summary.  
*Acer pseudoplatanus*, *Pisum sativum*, and *Helianthus annuus* tested with *Serratia marcescens*, *Pseudomonas fluorescens*, and *Aerobacter aerogenes*.
- 76161 SOMKUTI, G. A., and BABEL, F. J. Acid protease synthesis by *Mucor pusillus* in chemically defined media. *J. Bacteriol.* 95(4):1415-1418. Ref. Apr.1968. 448.3 J82
- 76162 SOMKUTI, G. A., and BABEL, F. J. Lipase activity of *Mucor pusillus*. *Appl. Microbiol.* 16 (4):617-619. Apr.1968. 448.3 Ap5
- 76163 SOMKUTI, G. A., and BABEL, F. J. Purification and properties of *Mucor pusillus* acid protease. *J. Bacteriol.* 95(4):1407-1414. Ref. Apr.1968. 448.3 J82
- 76164 SOYERMAN, A. Study of the fronds of *Gymnogramme calomelanos* var. *argentea*, developed from the prothallus exposed to the effects of dihydrostreptomycin. (Fr) *Acad. Sci. C. R., Ser. D*, 266(15):1567-1569. Apr.15,1968. 505 P21
- 76165 SPANSWICK, R. M. Measurements of potassium ion activity in the cytoplasm of the *Characeae* as a test of the sorption theory. *Nature* 218(5139):357. Apr.27,1968. 472 N21
- 76166 SPRECHER, E. Strain-specific acetylation of different alcohols in the genus *Ceratocystis* [coerulescens]. (Ge) *Arch. Mikrobiol.* 60(1):24-34. Ref. 1968. 442.8 Ar26  
English summary.
- 76167 STADTMAN, T. C., and RENZ, P. Anaerobic degradation of lysine. V. Some properties of the cobamide coenzyme-dependent beta-lysine mutase of *Clostridium sticklandii*. *Archiv. Biochem. Biophys.* 125(1):226-239. Ref. Apr. 1968. 381 Ar2
- 76168 STANLEY, R. G. Factors affecting germination of the pollen grain. *Int. Union Forest. Res. Res. Organ. Papers*, 14th Congr., v.2:38-59. 1967. 99.9 In82  
Review of the literature.
- 76169 STARR, R. I., and JOHNSEN, R. E. Laboratory method for determining the rate of volatilization of insecticides from plants. *J. Agr. Food Chem.* 16(3):411-414. May/June 1968. 381 J8223
- 76170 STEINER, E. Dormant seed environment in relation to natural selection in *Oenothera*. *Torrey Bot. Club. Bull.* 95(2):140-155. Ref. Mar./Apr. 1968. 451 T63B  
Germination response in storage conditions.
- 76171 STEVENS, D. L., and STROBEL, G. A. Origin of cyanide in cultures of a psychrophilic basidiomycete. *J. Bacteriol.* 95(3):1094-1102. Ref. Mar.1968. 448.3 J82
- 76172 ŠTICHTING CENTRUM VOOR PLANTENFYSIOLOGISCH ONDERZOEK. Jaarverslag [annual report of the Center for Plant Physiological Research], 1967. Wageningen, 1968. 52 p. 451 W122
- 76173 SUBRAMANIAN, K. N., PADMANABAN, G., and SARMA, P. S. Control of nitrate reductase by iron in *Neurospora crassa*. *Arch. Biochem. Biophys.* 124(1/3):535-542. Ref. Mar.20,1968. 381 Ar2
- 76174 SUTTER, P., and RAFELSON, M. E. Separation of beta-factor synthesis from stimulated beta-carotene synthesis in mated cultures of *Blakeslea trispora*. *J. Bacteriol.* 95(2):426-432. Ref. Feb.1968. 448.3 J82
- 76175 SYMPOSIUM ON CHEMICAL ENGINEERING IN MEDICINE AND BIOLOGY, 33, UNIVERSITY OF CINCINNATI, 1966. Proceedings, edited by D. Hershey. New York, Plenum Press, 1967. 658 p. Ref. R856.C5  
Held by the Division of Industrial and Engineering Chemistry of the American Chemical Society.  
Includes the kinetics of a photosynthetic gas exchanger with laminar flow during low intensity illumination, by J. R. Booth and G. F. Meenaghan, p.477-493; and Microbiological life support systems: photosynthesis versus chemosynthesis, by E. C. B. Ammann and L. L. Reed.  
SZEGI, J. Some problems of the interrelation between [soil] microorganisms and higher plants. (Hu) *Agrartud. Kozlem.* 26(3/4):571-585. 1967. 19 B855  
Review of literature.
- 76176 TABER, W. A. Simultaneous assimilation and respiration of exogenous 2, 3-<sup>14</sup>C-succinate and exogenous glucose by ergot alkaloid producing cultures of *Claviceps purpurea*. *Mycologia* 60(2):345-355. Ref. Mar./Apr.1968. 450 M99
- 76178 TAKEMOTO, T., and others. Structure of rubrosterone, a novel C19 metabolite of insect-moulting substances from *Achyranthes rubrofusca*. *Tetrahedron Lett.* 26:3053-3056. Ref. May 1968. 385 T29  
Y. Hikino, H. Hikino, S. Ogawa, and N. Nishimoto, joint authors.
- 76179 TAMMES, P. M. L., VONK, C. R., and DIE, J. VAN. Studies on phloem exudation from *Yucca flaccida* Haw. VI. The formation of exudate sucrose from supplied hexoses in excised inflorescence parts. *Acta Bot. Neer.* 16(6):244-246. Dec.1967. 450 Ac822
- 76180 TAMURA, S., MURAYAMA, A., and KAGEI, K. The synthesis of (±)-Fragin. *Agr. Biol. Chem.* 31(8):996-997. Aug.1967. 385 Ag8B  
Plant growth inhibitor produced by *Pseudomonas fragi*.

- 76181 TAYLOR, D. L. Chloroplasts as symbiotic organelles in the digestive gland of *Elysia viridis* (Gastropoda: Opisthobranchia). Mar. Biol. ASS. UK. J. 48(1):1-15. Feb. 1968. 442.9 M331 From *Codium tomentosum*, an alga.
- 76187 THEISEN, A. A., and PINKERTON, A. Volume-reduction technique for the x-ray spectrographic determination of micronutrients in plant tissues. J. Sci. Food Agr. 19(1):5-9. Ref. Jan. 1968. 382 S012
- 76183 THELLIER, M., and LE GUEL, J. The effect of boron nutrition on the incorporation of leucine into the proteins of *Lemna minor* L. (Fr) Acad. Sci. Compt. Rend. Ser. D, 265(15):1848-1851. Apr. 10, 1967. 505 P21
- 76184 THOMAS, E. A., and TREGUNNA, E. B. Bicarbonate ion assimilation in photosynthesis by *Sargassum muticum*. Can. J. Bot. 46(4):411-415. Ref. Apr. 1968. 470 C16C
- 76185 THOMAS, J. B. Quanta aspects; light quantum in photosynthesis and its perception. (Du) Vokbl. Biol. 48(3):35-42. Ref. Mar. 1968. 442.8 V22
- 76186 THOMAS, M. B., and MABRY, T. J. Flavonoid constituents of *Hymenoxys scaposa* DC. (Compositae). Phytochem. 7(5):787-790. Ref. May 1968. 450 P5622
- 76187 THOMAS, M. B., and MABRY, T. J. Isolation, structure and synthesis of scaposin, a new flavone from *Hymenoxys scaposa* DC. (Compositae). Tetrahedron 24(9):3675-3679. Ref. Apr. 1968. 382 382 T29
- 76188 THOMPSON, J. F., and MOORE, D. P. Enzymatic synthesis of cysteine and S-methylcysteine in plant extracts. Biochem. Biophys. Res. Commun. 31(2):281-286. Ref. Apr. 19, 1968. 442.8 R5236  
Neurospora crassa, Brassica rapa, and yeasts.
- 76189 TREGUNNA, E. B., and THOMAS, E. A. Measurement of inorganic carbon and photosynthesis in seawater by pCO<sub>2</sub> and pH analysis. Can. J. Bot. 46(4):481-485. Ref. Apr. 1968. 470 C16C  
Applied to photosynthetic study of *Iridaea cordatum*.
- 76190 TREWAVAS, A. J., and GIBSON, I. Ribosomal RNA nucleotide sequence homologies in plants. Plant Physiol. 43(3):445-447. Ref. Mar. 1968. 450 P692
- 76191 TRONCHET, J. Study of localization of flavonoid substances in thickness of leaf blade in *Bryophyllum crenatum* Bak. in various stages of development. Acad. Sci. C. R., Ser. D, 266(9):882-884. Feb. 26, 1968. 505 P21
- 76192 TRUKHIN, N. V. The response of *Chlorella pyrenoidosa* to the injurious effect of intense light. (Rus) Akad. Nauk SSSR. Dokl. 178(6):1421-1423. 1968. 511 P444A
- 76193 TYREE, M. T. Determination of transport constants of isolated *Nitella* cell walls. Can. J. Bot. 46(4):317-327. Ref. Apr. 1968. 470 C16C
- 76194 UNESTAM, T. Some properties of unpurified chitinase from the crayfish plague fungus, *Aphanomyces astaci*. Physiol. Plant. 21(1):137-147. Ref. 1968. 450 P564
- 76195 VAN ETEN, J. L. Protein synthesis during fungal spore germination. 1. Characteristics of an in vitro phenylalanine incorporating system prepared from germinated spores of *Botryodiplodia theobromae*. Archiv. Biochem. Biophys. 125(1):13-21. Ref. Apr. 1968. 381 Ar2
- 76196 VON HOLT, C., and VON HOLT, M. The secretion of organic compounds by *Zooanthellae* isolated from various types of *Zoanthus*. Compar. Biochem. Physiol. 24(1):83-92. Jan. 1968. 444.8 C73
- 76197 VON HOLT, C., and VON HOLT, M. Transfer of photosynthetic products from *Zooxanthellae* to coelenterate hosts. Compar. Biochem. Physiol. 24(1):73-81. Ref. Jan. 1968. 444.8 C73
- 76198 WACQUANT, J. P. Ion exchange in the roots of some populations of *Anagallis arvensis* L. sensu lato. (Fr) Acad. Sci. C. R., Ser. D, 266(15):1580-1582. Apr. 15, 1968. 505 P21
- 76199 WAKE, K., OCHIAI, H., and TANIFUJI, S. DNA and histones from ovular tissue cells of cold treated *Trillium [kamtschaticum]*. Jap. J. Genet. 43(1):15-26. Ref. Mar. 1968. 442.9 J27
- 76200 WALCH, H. Formation of the test for phenoloxides in some species of the genus *Ganoderma*. (Ge) Arch. Mikrobiol. 60(4):314-325. Ref. 1968. 442.8 Ar26  
English summary.  
*Ganoderma resinaceum*, *G. pfeifferi*, and *G. lucidum*.
- 76201 WALTER-LEVY, L., and STRAUSS, R. Absorption of strontium by *Chara fragilis* Desvauz. (Fr) Acad. Sci. C. R., Ser. D, 266(14):1486-1489. Apr. 1, 1968. 505 P21
- 76202 WANG, D., and BEARDOWN, J. Thermo-, photo-effect on rosaceous seeds during germination as expressed in subsequent seedling development. Boyce Thompson Inst. Contrib. 24(2):17-23. Ref. Jan./Mar. 1968. 451 B69  
Tests with peaches and *Rhodotypos kerrioides*.
- 76203 WANKA, F. New insight into the effects of colchicine on cell division. (Ge) Umschau 68(7):215. Mar. 1968. 474 Um7  
Tested with *Chlorella*.
- 76204 WARD, E. W. B. The low maximum temperature for growth of the psychrophile *Sclerotinia borealis*; evidence for uncoupling of growth from respiration. Can. J. Bot. 46(4):385-390. Apr. 1968. 470 C16C
- 76205 WEBER, H. L., and BOCK, A. Comparative studies on the regulation of DAHP [3-deoxy-D-arabino-hepulosonic acid-7-phosphate]. Arch. Mikrobiol. 61(2):159-168. Ref. 1968. 442.8 Ar26
- 76206 WICHNER, S., and LIBBERT, E. Interaction between plants and epiphytic bacteria regarding their auxin metabolism. I. Detection of IAA-producing epiphytic bacteria and their role in long duration experiments on tryptophan metabolism in plant homogenates. Physiol. Plant. 21(1):227-241. Ref. 1968. 450 P564
- 76207 WILEY, W. R., and MATCHETT, W. H. Tryptophan transport in *Neurospora crassa*. II. Metabolic control. J. Bacteriol. 95(3):959-966. Ref. Mar. 1968. 448.3 J82
- 76208 WILLIAMS, C. F., and NIEDERPRUEM, D. J. Trehalase in *Schizophyllum commune*. Arch. Mikrobiol. 60(4):377-383. Ref. 1968. 442.8 Ar26
- 76209 WILLIAMS, P. G., and SHAW, M. Metabolism of glucose-<sup>14</sup>C, pyruvate-<sup>14</sup>C, and manitol-<sup>14</sup>C by *Melampsora lini*. I-II. Can. J. Bot. 46(4):435-460. Ref. Apr. 1968. 470 C16C
- 76210 WILSON, J. H., and MCCALLA, D. R. A simple method for the isolation of fraction I' protein of chloroplasts. Can. J. Chem. 46(5):441-444. May 1968. 470 C16E  
From vegetables and *Chlorella*.
- 76211 WITSCH, H. V., RUNKEL, K. H., and GERNMAYE, R. Investigations on the variability of the development of *Gloeococcus bavaricus* Skuja. (Ge) Arch. Mikrobiol. 61(1):1-19. Ref. 1968. 442.8 Ar26  
English summary.
- 76212 WOHLPART, A., and MABRY, T. J. On the light requirement for betalain biogenesis. Plant Physiol. 43(3):457-459. Mar. 1968. 450 P692  
In plants from the order Centrospermae.
- 76213 WOODBURY, W., and STAHMANN, M. A. A press for anaerobic disintegration of small amounts of tissue. Plant Physiol. 43(3):437-438. Mar. 1968. 450 P692
- 76214 WOUTERS, J. T. M. The effect of tweens on the lipolytic activity of *Geotrichum candidum*. Antonie van Leeuwenhoek J. Microbiol. Serol. 33(4):365-380. Ref. 1967. 448.8 N28A



- 76215 WRIGHT, B. E., DAHLBERG, D., and WARD, C. Cell wall synthesis in *Dictyostelium discoideum*. Arch. Biochem. Biophys. 124(1/3):380-385. Ref. Mar.20,1968. 381 Ar2
- 76216 YATES, A. R., SEAMAN, A., and WOODBINE, M. Ascospore germination in *Byssoschlamys nivea*. Can. J. Microbiol. 14(4):319-325. Ref. Apr.1968. 448.8 C162
- 76217 YATSU, L. Y., and JACKS, T. J. Association of lysosomal activity with aleurone grains in plant seeds. Arch. Biochem. Biophys. 124(1/3):466-471. Ref. Mar.20,1968. 381 Ar2
- 76218 ZANOBINI, A., and others. Use of Tween 80 in ferredoxin extraction from gymnosperms. Phytochemistry 6(12):1633-1635. Ref. Dec. 1967. 450 P5622  
P. Vanni, E. Mastronuzzi, A. M. Firenzuoli, and G. Ramponi, joint authors.
- 76219 ZORBACH, J. L., and ZORBACH, W. W. Sucrose as the sole constituent of the honey of *Crimum asiaticum*. Plant Life 24:58-60. 1968. 450 P695

#### Physiology and Biochemistry of Field Crops

- 76220 ABDALLA, F. H., and ROBERTS, E. H. Effects of temperature, moisture, and oxygen on the induction of chromosome damage in seeds of barley, broad beans, and peas during storage. Ann. Bot. (n.s.)32(125):119-136. Ref. Jan.1968. 450 An7  
Study of loss of viability and aberrations in ageing seeds.
- 76221 ANDREEVA, E. A., and SCHEGLOVA, G. M. Uptake of soil and fertilizer nitrogen by plants as revealed by greenhouse pot experiments using  $N^{15}$ . Int. Soc. Soil Sci. Trans. 1966:113-124. 1967. 56.9 In8  
Field crops as test plants.
- 76222 KALRA, Y. P., and SOPER, R. J. Efficiency of rape, oats, soybeans, and flax in absorbing soil and fertilizer phosphorus at seven stages of growth. Agron. J. 60(2):209-212. Ref. Mar./Apr.1968. 4 Am34P
- 76223 NASH, R. G. Plant absorption of dieldrin, DDT, and endrin from soils. Agron. J. 60(2):217-219. Ref. Mar./Apr.1968. 4 Am34P  
Tests with field crops and radioactive carbon.
- 76224 ROBERTS, E. H., and ABDALLA, F. H. The influence of temperature, moisture, and oxygen on period of seed viability in barley, broadbeans, and peas. Ann. Bot. (n.s.)32(125):97-117. Ref. Jan.1968. 450 An7
- 76225 ROUSE, R. D. Soil test theory and calibration for cotton, corn, soybeans and Coastal bermudagrass. Ala. Agr. Exp. Sta. Bull. 375,67 p. Ref. Feb.1968. 100 AL1S  
Relates fertility to expected yield.

#### Physiology and Biochemistry - Cereals

- 76226 AASE, J. K., KEMPER, W. D., and DANIELSON, R. E. Response of corn to white and black ground covers. Agron. J. 60(2):234-236. Ref. Mar./Apr.1968. 4 Am34P  
Solar radiation, soil temperature, and transpiration tested.
- 76227 ADAIR, C. R. Testing rice seedlings for cold water tolerance. Crop Sci. 8(2):264-265. Mar./Apr.1968. 64.8 C833
- 76228 AKAMATSU, S. Studies of direct sowing culture by broadcasting seeds on a submerged paddy field. 6. Effects of seeding density and amount of fertilizer on the growth and yield of rice. (Ja) Crop Sci. Soc. Japan. Proc. 37(1):17-20. Feb.1968. 22.5 C88  
English summary.
- 76229 AKAMATSU, S. Studies of direct sowing culture by broadcasting seeds on a submerged paddy field. 7. Effects of seeding density and amount of top dressing on the yield of rice and its components. (Ja) Crop Sci. Soc. Japan. Proc. 37(1):21-24. Feb.1968. 22.5 C88  
English summary.  
Nitrogen as basic fertilizer.
- 76230 AKAMATSU, S. Studies of direct sowing culture by broadcasting seeds on a submerged paddy field. 8. Effects of the amount of fertilizer and different proportions of basic fertilizer to top dressing on the growth and yield of rice. (Ja) Crop Sci. Soc. Japan. Proc. 37(1):25-31. Ref. Feb.1968. 22.5 C88  
English summary.  
Varieties, and nitrogen as basic fertilizer.
- 76231 ANKER, L. Geotropism and tip regeneration of the *Avena* coleoptile in the presence of gibberellic acid. Acta Bot. Neer. 16(6):205-210. Ref. Dec.1967. 450 Ac822
- 76232 ATKINS, R. E., and others. Interrelations among dry weight of panicles, threshing percentage and grain yield in sorghum. Agron. J. 60(2):219-222. Mar./Apr.1968. 4 Am34P  
V. H. Reich, G. M. Beil, and J. S. Kirby, joint authors.
- 76233 BALAAM, L. N., DETTMANN, B., and MOSS, H. J. The effect of variety and environment of wheat on the volumes of test loaves moulded by hand and by machine. Australian J. Agr. Res. 19(2):203-212. Mar.1968. 23 Au783
- 76234 BARA, M., and GALSTON, A. W. Experimental modification of pigment content and phototropic sensitivity in excised *Avena* [sativa] coleoptiles. Physiol. Plant. 21(1):109-118. Ref. 1968. 450 P564  
Carotenoids.
- 76235 BIANCHETTI, R., and SARTIRANA, M. L. AMP-sensitive fructose diphosphatase in wheat embryos: changes in the levels of glycolytic intermediates during enzyme derepression. Life Sci. 7(4):121-127. Ref. Feb.15,1968. 442.8 L62
- 76236 BOTTRILL, D. E., and HANSON, J. B. Short-term growth response to growth regulators in roots of *Zea mays*. Australian J. Biol. Sci. 21(2):201-208. Ref. Apr.1968. 442.8 Au72
- 76237 BOYLE, W. S. Radioresistance of  $F_1$  hybrids in the Triticeae. Radiat. Bot. 8(1):1-6. Ref. Feb.1968. 450 R11  
Effect of hybridity on sensitivity to acute X-irradiation.
- 76238 BRENGLE, K. G. Effect of phenylmercuric acetate on growth and water use of spring wheat. Agron. J. 60(2):246-247. Mar./Apr.1968. 4 Am34P
- 76239 BRIGGS, D. E. Alpha-amylase in germinating, decorticated barley. I-III. Phytochemistry 7(4):513-554. Ref. Apr.1968. 450 P5622  
I, Alpha-amylase, conditions of growth, and grain constituents; II, Effects of physically damaging the grain; III, Effects of adding CCC and other chemical substances.
- 76240 CAMPBELL, C. A., and READ, D. W. L. Influence of air temperature, light intensity, and soil moisture on the growth, yield, and some growth analysis characteristics of Chinook wheat grown in the growth chamber. Can. J. Plant Sci. 48(3):299-311. Ref. May 1968. 450 C16
- 76241 CAMPBELL, C. A. Influence of soil moisture stress applied at various stages of growth on the yield components of Chinook wheat. Can. J. Plant Sci. 48(3):313-320. May 1968. 450 C16
- 76242 CHARLESWORTH, R. R. The effect of applied magnesium on the uptake of magnesium by, and on the yield of, arable crops. Great Brit. Min. Agr. Fish. Food. Tech. Bull. 14:110-126. 1967. 10 G79T  
Grain and vegetables in Great Britain.

- 76243 CHINWUBA, P. M. Effect of plant population on development and yield of maize in western Nigeria. *Sols Afr.* 12(2/3):101-106. Ref. Apr./Dec.1967. 56.8 So4
- 76244 CHLYAH, H., and CHOUARD, P. Effects of the level of illumination on the correlative development of adventitious roots, tillage, and floral induction in hard wheat (cultivar Bidi 17). (Fr) *Acad. Sci. Compte Rendu* 266(12):1275-1278. Mar.18,1968. 505 P21
- 76245 CHUJO, H. The effect of thermoperiod on vernalization of wheat. *Crop Sci. Soc. Japan. Proc.* 36(2):224-231. June 1967. 22.5 C88
- 76246 CLARK, R. B. Organic acids of maize (*Zea mays* L.) as influenced by mineral deficiencies. *Crop Sci.* 8(2):165-167. Ref. Mar./Apr.1968. 64.8 C833
- 76247 CROSSETT, R. N. Effect of light upon the translocation of phosphorus by seedlings of *Hordeum vulgare* (L.). *Australian J. Biol. Sci.* 21(2):225-233. Ref. Apr.1968. 442.8 Au72
- 76248 DIEST, A. VAN, and SCHUFFELEN, A. C. Uptake of manganese by oats and sunflower. *Int. Soc. Soil Sci. Trans.* 1966:281-288. Ref. 1967. 56.9 In8
- 76249 DOWNES, R. W. The effect of temperature on tillering of grain sorghum seedlings. *Australian J. Agr. Res.* 19(1):59-64. Jan.1968. 23 Au783  
Grown under various photoperiods; includes genetics.
- 76250 DUBOUCHET, J. Physiological regeneration and transport of tryptophan-<sup>14</sup>C. (Fr) *Acad. Sci. C. R., Ser. D*, 266(14):1490-1493. Ref. Apr.1,1968. 505P21  
Wheat.
- 76251 DYAKONOVA, K. V., and MAKSIMOVA, A. E. Humic substances of the most active part of organic fertilizers and their influence on plants. *Int. Soc. Soil Sci. Trans.* 1966:79-85. 1967. 56.9 In8  
In relation to oat physiology.
- 76252 FINCK, A. Uptake of Al, Fe and Mn by plants on acid soils as affected by phosphate. *Int. Soc. Soil Sci. Trans.* 1966:187-193. 1967. 56.9 In8  
Oats.
- 76253 FLEMING, A. L., and FOY, C. D. Root structure reflects differential aluminum tolerance in wheat varieties. *Agron. J.* 60(2):172-176. Ref. Mar./Apr.1968. 4 Am34P
- 76254 GENEVES, L. Synthesis and distribution of nucleic acid, at infrastructural level, in the cotyledon chloroplasts, during the germination of radish (*Raphanus sativus* L., Cruciferae). (Fr) *Acad. Sci. C. R., Ser. D*, 266(14):1483-1485. Ref. Apr.1,1968. 505 P21
- 76255 GENKEL', P. A., ANDREEVA, I. N., and KURKOVA, E. B. Effect of temperature on the ultrastructure and oxidative phosphorylation of mitochondria of corn roots. (Rus) *Akad. Nauk. SSSR. Izv. Ser. Biol.* 1:53-58. Ref. Jan./Feb. 1968. 511 Sa2B  
English summary.
- 76256 GERSTER, R., and MICHEL, J. P. Isotopic exchange between carbon gas marked with oxygen 18 and the water of an elevated leaf. (Fr) *Acad. Sci. C. R., Ser. D*, 266(10):1024-1027. Mar.4,1968. 505 P21  
Tested with corn.
- 76257 GODNEV, T. N., RASKIN, V. I., and KALER, V. L. Effect of light intensity on transformation rate of protochlorophyllide into chlorophyllide. (Rus) *Akad. Nauk SSSR. Dokl.* 174(1):225-226. 1967. 511 P444A  
Corn.
- 76258 GOUJON, C., MAIA, N., and DOUSSINAULT, G. Frost resistance in wheat. II. (Fr) *Ann. Amélior. Plantes* 18(1):49-57. 1968. 14 F8499A  
English summary.
- 76259 GRINEVA, G. M., and LIPASOVA, V. A. On the role of the pentosophosphatic mode of respiration in the roots of corn under conditions of different degree of anaerobiosis. (Rus) *Akad. Nauk. SSSR. Dokl.* 178(3):728-730. Ref. 1968. 511 P444A
- 76260 HARADA, T., TORYU, H., and ITO, O. Study on the ripening process of two-rowed barley. (Ja) *Crop Sci. Soc. Japan. Proc.* 36(2):232-237. Ref. June 1967. 22.5 C88  
English summary.  
Effects of light and temperature.
- 76261 HOROVITZ, C. T. Index of refraction of cell sap in winter wheat in relation to the hardness during the winter-spring period. (Ge) *Biol. Plant.* 10(1):20-26. Ref. 1968. 450 B52
- 76262 HUMPHREYS, T. E., and GARRARD, L. A. The storage of exogenous sucrose by corn scutellum slices. *Phytochem.* 5(7):701-713. Ref. May 1968. 450 P5622
- 76263 HURD, E. A. Growth of roots of seven varieties of spring wheat at high and low moisture levels. *Agron. J.* 60(2):201-205. Mar./Apr. 1968. 4 Am34P
- 76264 HUSAIN, I., MAY, L. H., and ASPINALL, D. The effects of soil moisture stress on the growth of barley. IV. The response to presowing treatment. *Australian J. Agr. Res.* 19(2):213-220. Ref. Mar.1968. 23 Au783
- 76265 JACOBSON, L., and others. Effects of various concentrations of carbon dioxide on respiration and potassium uptake in barley roots. *Physiol. Plant.* 21(1):119-126. Ref. 1968. 450 P564  
M. Schaedle, B. Cooper, and L. C. T. Young, joint authors.
- 76266 JELENIC, D. Effect of potassium on amino acid content and rate in individual protein fractions and in wheat grain. (Se) *Agrohemija* 1/2:59-71. 1968. 385 Ag87  
English summary.
- 76267 JENNINGS, V. M., and SHIBLES, R. M. Genotypic differences in photosynthetic contributions of plant parts to grain yield in oats. *Crop Sci.* 8(2):173-175. Mar./Apr.1968. 64.8 C833
- 76268 JONES, R. L. Ethylene enhanced released of alpha-amylase from barley aleurone cells. *Plant Physiol.* 43(3):442-444. Ref. Mar.1968. 450 P692
- 76269 JUNG, J. Synthetic growth regulators, especially chlorocholinechloride [CCC]. (Ge) *Naturwissenschaften* 54(14):356-360. Ref. July 15,1967. 474 N213  
Effects on wheat.
- 76270 KAWANO, K., and TANAKA, A. Growth duration in relation to yield and nitrogen response in the rice plant. *Jap. J. Breeding* 18(1):46-52. Feb.1968. 64.8 J27
- 76271 KHAVKIN, E. E., and others. The activity of nitroreductase, glutamate dehydrogenase and aminotransferase in the zones of growth in corn roots. (Rus) *Akad. Nauk SSSR. Dokl.* 178(3):737-740. Ref. 1968. 511 P444A  
R. T. Polikarpochkina, M. Baburina, and E. V. Tokareva, joint authors.
- 76272 KIDO, M., and YANATORI, S. Studies on the effect of cultural factors on the quality of rice, especially on the amount of protein in rice kernels. (Ja) *Crop Sci. Soc. Japan. Proc.* 37(1):32-36. Feb.1968. 22.5 C88  
English summary.  
Includes planting, fertilizing with nitrogen, and injuries.
- 76273 KLOOS, G. Investigations on wheat proteins. II. Influence of site conditions on the electrophoretic behavior of gliadin, glutenin, and total gluten. (Ge) *Z. Lebensmittel-Untersuchung -Forsch.* 136(2):65-69. 1968. 384 Z39  
Climate and soils.
- 76274 KRELLE, E., and LIBBERT, E. Are morphactins specific or non-specific blockers of tropisms? *Experientia* 24(3):293-294. Mar.15, 1968. 475 Ex7  
In wheat.
- 76275 KUMAKOV, V. A. Photosynthesis and selection according to maturing of varieties. (Rus) *Selek. Semenovodstvo* 1:14-18. Jan./Feb.1968. 61.9 Se5  
Wheat and proso.



- 76276 LUXOVA, M. The temporal course of fertilization and localization of starch in the barley pistil. *Biol. Plant.* 10(1):10-14. Ref. 1968. 450 B52
- 76277 MAEDA, E., and SAKA, H. Establishment of a new method for study of the inclination rate of lamina in the excised rice leaves. (Ja) *Crop Sci. Soc. Japan. Proc.* 37(1):37-44. Feb. 1968. 22.5 C88  
English summary.  
Seedlings.
- 76278 MAEDA, E. Subculture and organ formation in the callus derived from rice embryos in vitro. (Ja) *Crop Sci. Soc. Japan. Proc.* 37(1):51-58. Ref. Feb. 1968. 22.5 C88  
Includes varieties.
- 76279 MAEDA, E., and SAKA, H. Varietal difference in the rate of lamina inclination of the intact and excised rice leaves. (Ja) *Crop Sci. Soc. Japan. Proc.* 37(1):45-50. Ref. Feb. 1968. 22.5 C88  
English summary.  
Seedlings.
- 76280 MATSUSHIMA, S. Crop science in rice; theory of yield determination and its application. Ed. 2. Tokyo, Fuji, 1967. 365 p. SB191.R5M323 1967  
Bibliography, p.340-350.  
Chiefly physiology and cultural methods.  
Translated from Japanese.
- 76281 MENDEZ, J., and others. Direct and synergistic influence of Tweens on Avena [sativa] coleoptile section elongation. *Physiol. Plant.* 20(2):437-441. 1967. 450 P564  
A. Vazquez, M. C. Mato, and E. Vieitez, joint authors.  
Tests with Tween 20, 40, and 80, in the presence and absence of indoleacetic acid.
- 76282 MIKHLIN, E. D., NELYUBINA, G. M., and KRETOVICH, V. L. The effect of methane bacteria biomass extract upon the growth, energy and germination of cereal and cotton plant seeds. (Rus) *Akad. Nauk. SSSR. Izv. Ser. Biol.* 1:136-141. Ref. Jan./Feb. 1968. 511 Sa2B  
English summary.
- 76283 NATROVA, Z. Quantitative analysis of free amino acids and carbohydrates in spring barley anthers at different stages of maturity. *Biol. Plant.* 10(2):118-126. Ref. 1968. 450 B52
- 76284 ORTMAN, E. E., PETERS, D. C., and FITZGERALD, P. J. Vertical-pull technique for evaluating tolerance of corn root systems to northern [Diabrotica longicornis] and western corn rootworms [D. virgifera]. *J. Econ. Entomol.* 61(2):373-375. Apr. 15, 1968. 421 J822
- 76285 PAQUET, J. The effect of a sharp rise in temperature on the accumulation of proteins in breadwheat grains. (Fr) *Ann. Amélior. Plantes* 18(1):17-27. Ref. 1968. 14 F8499A  
English summary.
- 76286 PARMAR, M. T., and MOORE, R. P. Carbowax 6000, mannitol, and sodium chloride for simulating drought conditions in germination studies of corn (Zea mays L.) of strong and weak vigor. *Agron. J.* 60(2):192-195. Ref. Mar./Apr. 1968. 4 Am34P
- 76287 PAULSEN, G. M. Effect of photoperiod and temperature on cold hardening in winter wheat. *Crop Sci.* 8(1):29-32. Ref. Jan./Feb. 1968. 64.8 C883
- 76288 PAUSHEVA, Z. P. Method of determining fertility of buckwheat pollen. (Rus) *Selek. Semenovodstvo* 1:76-77. Jan./Feb. 1968. 61.9 Se5  
Stain technology used.
- 76289 PEPPER, E. H. Barley aging, disease and protein. *N. Dak. Farm Res.* 25(3):9. Jan./Feb. 1968. 100 N813B  
Effects of age and disease on protein content.
- 76290 PION, R., LESAIN, C., and COIC, Y. Evolution and composition of amino acids in protides of wheat seed during germination. (Fr) *Acad. Sci. C. R., Ser. B.* 266(17):728-730. Feb. 12, 1968. 505 P21
- 76291 PITOUT, M. J., and SCHAICK, N. VAN. Deoxyribonucleic acid from black Mexican sweet corn. *S. Afr. J. Sci.* 64(1):25-29. Jan. 1968. 515 S084
- 76292 PUCKRIDGE, D. W. Competition for light and its effect on leaf and spikelet development of wheat plants. *Australian J. Agr. Res.* 19(2):191-201. Mar. 1968. 23 Au783
- 76293 RAINS, D. W. Kinetics and energetics of light enhanced potassium absorption by corn leaf tissue. *Plant Physiol.* 43(3):394-400. Ref. Mar. 1968. 450 P692
- 76294 ROBINSON, D. W., and SAGEMAN, R. Amino acid composition of South African and Australian wheat varieties as a function of their nitrogen content. *J. Sci. Food Agr.* 19(1):9-11. Ref. Jan. 1968. 382 S012
- 76295 SALIM, M. H., and TODD, G. W. Seed soaking as a pre-sowing, drought-hardening treatment in wheat and barley seedlings. *Agron. J.* 60(2):179-182. Ref. Mar./Apr. 1968. 4 Am34P
- 76296 SHEN-MILLER, J., HINCHMAN, R., and GORDON, S. A. Thresholds for georesponse to acceleration in gravity-compensated Avena [sativa] seedlings. *Plant Physiol.* 43(3):338-344. Ref. Mar. 1968. 450 P692  
Tests using a clinostat.
- 76297 SIMPSON, G. M. Association between grain yields per plant and photosynthetic area above the flag-leaf node in wheat. *Can. J. Plant Sci.* 48(3):253-260. Ref. May 1968. 450 C16
- 76298 SRIVASTAVA, B. I. S., and ATKIN, R. K. Effect of second-leaf removal or kinetin treatment on the nucleic acid metabolism of senescing first seedling leaf of barley. *Biochem. J.* 107(3):361-366. Ref. Apr. 1968. 382 B52
- 76299 STAFFORD, H. A. Relationship between the development of adventitious roots and the biosynthesis of anthocyanins in first internodes of sorghum. *Plant Physiol.* 43(3):318-326. Ref. Mar. 1968. 450 P692
- 76300 STOUT, E. R., and MANS, R. J. Template requirement of maize RNA polymerase. *Plant Physiol.* 43(3):405-410. Mar. 1968. 450 P692
- 76301 SYME, J. R. Growth and yield of irrigated wheat varieties at several rates of nitrogen fertilizer. *Australian J. Exp. Agr. Anim. Husb.* 7(27):337-341. Aug. 1967. 23 Au792
- 76302 THOMPSON, D. L. Field evaluation of corn root clumps. *Agron. J.* 60(2):170-172. Ref. Mar./Apr. 1968. 4 Am34P  
In relation to lodging resistance.
- 76303 TSANGARAKIS, C. Z., and FLEMING, A. A. Polyethylene versus glassine shoot bags in pollination of corn (Zea mays L.). *Crop Sci.* 8(1):126-128. Jan./Feb. 1968. 64.8 C883
- 76304 UDAGAWA, T., and ODA, K. Influences of environmental factors on lodging of wheat and barley plants. 4. Analysis of lodging phenomena by artificial rain and measurements of rain. (Ja) *Crop Sci. Soc. Japan. Proc.* 36(2):212-218. June 1967. 22.5 C88  
English summary.
- 76305 USUA, E. J. Effect of varying populations of *Busseola fusca* larvae on the growth and yield of maize. *J. Econ. Entomol.* 61(2):375-376. Apr. 15, 1968. 421 J822  
Ibadan (Western Nigeria).
- 76306 VARADE, S. B., and GHILDYAL, B. P. Effect of bulk density and seed placement on upland rice seedling emergence. *Agron. J.* 60(2):240-241. Mar./Apr. 1968. 4 Am34P  
India.
- 76307 VRZESHCH, V. A. Effects of minor elements on pre-harvest drop of buckwheat seeds. (Rus) *Selek. Semenovodstvo* 1:73. Jan./Feb. 1968. 61.9 Se5  
Seed treatment.
- 76308 WALKER, T. S., and BAILEY, J. L. Two spectrally different forms of the phytochrome chromophore extracted from etiolated oat seedlings. *Biochem. J.* 107(4):603-605. Apr. 1968. 382 B52

- 76309 WELBANK, P. J., WITTS, K. J., and THORNE, G. N. Effect of radiation and temperature on efficiency of cereal leaves during grain growth. *Ann. Bot. (n.s.)* 32(125):79-95. Ref. Jan.1968. 450 An7  
Photosynthesis study using statistical methods.
- 76310 WOLFE, F. H., and KAY, C. M. Physiochemical and chemical studies on wheat embryo ribosomal proteins. *Can. J. Biochem.* 46(4):373-380. Ref. Apr.1968. 470 C16E
- 76311 ZABLUDA, G. V., and PROSTEVA, M. I. Some peculiarities of development of wheat and rye as related to vernalization of seeds, before planting, and under different conditions of illumination during the period of vegetation. (Rus) *Akad. Nauk SSSR. Dokl.* 178(3):731-734. Ref. 1968. 511 P444A
- 76312 ZIOMBSKI, H. Content of fatty acids in rye lipids. (Pol) *Warsaw. Panstw. Zakl. Hig. Rocz.* 19(1):39-44. Ref. 1968. 449.9 W26  
English summary.
- Physiology and Biochemistry - Fiber Crops
- 76313 AMIN, J. V., and JOHAM, H. E. The cations of the cotton plant in sodium substituted potassium deficiency. *Soil Sci.* 105(4):248-254. Ref. Apr. 1968. 56.8 So3
- 76314 BEDAK, G. R. Fertilization and the quality of hemp. (Rus) *Len Konoplya* 3:30-31. 1968. 73.8 L542
- 76315 GUINN, G., and HUNTER, R. E. Root temperature and carbohydrate status of young cotton plants. *Crop Sci.* 8(1):67-71. Ref. Jan./Feb. 1968. 64.8 C883
- 76316 HANSON, R. G. Daxtron for cotton defoliation and regrowth inhibition. *Down Earth* 23(1):23-26. Summer 1967. 381 D75
- 76317 KALASHNIKOV, K. YA. Effect of seed treatment on their physiological activities. (Rus) *Len Konoplya* 2:20-22. 1968. 73.8 L542  
Chemical treatment of flax.
- 76318 MINYARD, J. P., THOMPSON, A. C., and HEDIN, P. A. Constituents of the cotton bud. VIII. Beta-bisabolol, a new sesquiterpene alcohol. *J. Org. Chem.* 33(2):909-911. Feb.1968. 381 J827  
To determine components attractive to the boll weevil.
- 76319 ROGERS, R. L., and FUNDERBURK, H. H. Physiological aspects of fluometuron in cotton and cucumber. *J. Agr. Food Chem.* 16(3):434-440. Ref. May/June 1968. 381 J8223
- 76320 WILES, A. B. Deterioration of treated and untreated cottonseed during humid storage. *Phytopathology* 58(3):289-293. Mar.1968. 464.8 P56  
Effects of microorganisms on viability and germination.
- Physiology and Biochemistry - Forage Crops and Grasses
- 76321 BAKER, B. S., and JUNG, G. A. Effect of environmental conditions on the growth of four perennial grasses. I-II. *Agron. J.* 60(2):155-162. Ref. Mar./Apr.1968. 4 Am34P  
I, Response to controlled temperature; II, Response to fertility, water, and temperature.
- 76322 BEDDOWS, A. R. Head emergence in forage grasses in relation to February-May temperatures and the predicting of early or late springs. *Brit. Grassland Soc. J.* 23(1):88-97. Ref. Mar.1968. 60.19 B773
- 76323 BERRYMAN, C., and CALDWELL, T. H. An experiment on the influence of potassium and magnesium applications on the nutrient content of herbage. *Great Brit. Min. Agr. Fish. Food. Tech. Bull.* 14:174-179. 1967. 10 G79T  
Great Britain.
- 76324 BIEBER, G. L., and HOVELAND, C. S. Phytotoxicity of plant materials on seed germination of crownvetch, *Coronilla varia* L. *Agron. J.* 60(2):185-188. Ref. Mar./Apr.1968. 4 Am34P
- 76325 BUCKE, C. The distribution and stability of  $\alpha$ -tocopherol in subcellular fractions of broad bean leaves. *Phytochem.* 7(5):693-700. Ref. May 1968. 450 P5622
- 76326 BURNS, J. C., and others. Influence of fertilization on some organic acids in alfalfa, *Medicago sativa* L. *Crop Sci.* 8(1):1-2. Ref. Jan./Feb.1968. 64.8 C883  
C. H. Noller, C. L. Rhykerd, T. S. ... , joint authors.
- 76327 CHARLES, A. H. Some selection effects operating on white- and red-clover in swards. *Brit. Grassland Soc. J.* 23(1):20-25. Mar.1968. 60.19 B773  
Effects of cultural methods and companion grasses.
- 76328 CLARK, L. E., COLLIER, J. W., and LANGSTON, R. Dormancy in sorghum bicolor (L.) Moench. II. Effect of pericarp and testa. *Crop Sci.* 8(2):155-158. Mar./Apr.1968. 64.8 C833
- 76329 CLEMENT, C. R., and HOPPER, M. J. The supply of potassium to high yielding cut grass. N.A.A.S. (Nat. Agr. Adv. Serv.) *Quart. Rev.* 79: 101-109. Spring 1968. 241 G796
- 76330 COOPER, C. S., and WATSON, C. A. Total available carbohydrates in roots of sainfoin (*Onobrychis viciaefolia* Scop.) and alfalfa (*Medicago sativa* L.) when grown under several management regimes. *Crop Sci.* 8(1):83-85. Jan./Feb.1968. 64.8 C883
- 76331 DANIEL, P. Leaf colour as an indicator of quality in perennial grasses. (Ge) *Z. Acker-Pflanzenbau* 126(4):329-356. Dec.1967. 18 J825  
English summary.  
Review of the literature.  
Nutritive value.
- 76332 DAVIES, A. The growth of grass in spring. N.A.A.S. (Nat. Agr. Adv. Serv.) *Quart. Rev.* 79: 98-100. Spring 1968. 241 G796
- 76333 DENT, J. W., and ALDRICH, D. T. A. Systematic testing of quality in grass varieties. 2. The effect of cutting dates, season and environment. *Brit. Grassland Soc. J.* 23(1):13-19. Mar.1968. 60.19 B773  
On composition and digestibility.
- 76334 DULLAART, J. Quantitative estimation of indoleacetic acid and indolecarboxylic acid in root nodules and roots of *Lupinus luteus* L. *Acta Bot. Neer.* 16(6):222-230. Ref. Dec.1967. 450 Ac822
- 76335 EDWARDS, D. G. Cation effects on phosphate absorption from solution by *Trifolium subterraneum*. *Australian J. Biol. Sci.* 21(1):1-11. Ref. Feb.1968. 442.8 Au72
- 76336 EHARA, K., YAMADA, Y., and UMETSU, R. Studies on nitrate nitrogen contents in forage crops. 2. Effect of four levels of light intensity and two levels of nitrogen on the yields and nitrate nitrogen content of Bahiagrass (*Paspalum notatum* Flugge) and Bermudagrass (*Cynodon dactylon* Pers.). (Ja) *Crop Sci. Soc. Japan. Proc.* 37(1):59-64. Ref. Feb.1968. 22.5 C88  
English summary.
- 76337 EVANS, D. W. The effect of post-harvest drought on Kentucky bluegrass [*Poa pratensis*] seed production. *Wash. Agr. Exp. Sta. Circ.* 484.5 p. Apr.1968. 100 W27S
- 76338 FOKANOV, A. M. Fluorescence and the quality of alfalfa seeds. (Rus) *Selek. Semenovodstvo* 1:39-40. Jan./Feb.1968. 61.9 Se5  
Ultraviolet rays used for determination of viability, germination and fluorescence of alfalfa.
- 76339 FUESS, F. W., and TESAR, M. B. Photosynthetic efficiency, yields, and leaf loss in alfalfa. *Crop Sci.* 8(2):159-163. Ref. Mar./Apr.1968. 64.8 C833



- 76340 GRADWELL, M. W. Soil physical conditions of winter and the growth of ryegrass plants. II. Effects of soil atmosphere. New Zeal. J. Agr. Res. 10(3/4):425-434. Aug./Nov.1967. 23 N4892  
Nitrogen and oxygen in soils.
- 76341 GRANT, S. A. Heather regeneration following burning: a survey. Brit. Grassland Soc. J. 23 (1):26-33. Ref. Mar.1968. 60.19 B773  
Includes effects of grazing.
- 76342 GREENWOOD, E. A. N., and TITMANIS, Z. V. The effect of defoliation on nitrogen stress and its relation to leaf nitrogen in young *Lolium rigidum* Gaud. Australian J. Agr. Res. 19(1): 9-14. Jan.1968. 23 Au783
- 76343 GROTELUESCHEN, R. D., and SMITH, D. Carbohydrates in grasses. III. Crop Sci. 8(2):210-212. Ref. Mar./Apr.1968. 64.8 C833
- 76344 HENZELL, E. F., and others. Isotopic studies on the uptake of nitrogen by pasture plants. IV. Uptake of nitrogen from labelled plant material by Rhodes grass [*Chloris gayana*] and Siratro [*Phaseolus atropurpureus*]. Australian J. Agr. Res. 19(1):65-77. Jan.1968. 23 Au783  
A. E. Martin, P. J. Ross, and K. P. Haydock, joint authors.
- 76345 HOEN, K. Summer dormancy in *Phalaris tuberosa* L. Australian J. Agr. Res. 19(2):227-239. Ref. Mar.1968. 23 Au783
- 76346 HOSHINO, M., and OIZUMI, H. Studies on the assimilation and translocation of  $^{14}\text{CO}_2$  in Ladino clover. 4. Utilization of reserve  $^{14}\text{C}$ -assimilates by the plants in the early stages of regrowth. (Ja) Crop Sci. Soc. Japan. Proc. 37(1):82-86. Feb.1968. 22.5 C88  
English summary.
- 76347 KLETER, H. J. Influence of weather and nitrogen fertilization on white clover percentage of permanent grassland. Neth. J. Agr. Sci. 16(1): 43-52. Ref. 1968. 12 N3892
- 76348 KWARTA, C., and MASLANKOWSKA, L. The effect of fertilization on the flora yield and composition of new-established meadow, periodically moistened excessively. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:264-267. 1966, pub.1967. 20.5 St4  
- English summary.
- 76349 LANE, J. C., and FLEMING, G. A. The effect of stage of maturity and season on the uptake of selenium, molybdenum and copper by perennial rye grass. Int. Soc. Soil Sci. Trans. 1966:289-297. Ref. 1967. 56.9 In8
- 76350 LUDLOW, M. M., and WILSON, G. L. Studies on the productivity of tropical pasture plants. I. Growth analysis, photosynthesis, and respiration of Hamil grass [*Panicum maximum*] and Siratro [*Phaseolus atropurpureus*] in a controlled environment. Australian J. Agr. Res. 19(1):35-45. Ref. Jan.1968. 23 Au783
- 76351 MCLELLAN, G. W. A study on the significance of the potassium-phosphorus interrelationship on large scale alfalfa farming. Agrichem. West. 10(9):6-8, 13. Sept.1967. 381 Ag85
- 76352 MORGAN, D. G. A quantitative study of the effects of gibberellic acid on the growth of *Festuca arundinacea*. Australian J. Agr. Res. 19(2): 221-225. Ref. Mar.1968. 23 Au783
- 76353 MORLEY, F. H. W., and FRANCIS, C. M. Varietal and environmental variations in isoflavone concentrations in subterranean clover (*Trifolium subterraneum* L.). Australian J. Agr. Res. 19(1):15-26. Ref. Jan.1968. 23 Au783
- 76354 NELSON, C. J., and SMITH, D. Growth of birdsfoot trefoil and alfalfa. II-III. Crop Sci. 8(1):21-28. Ref. Jan./Feb.1968. 64.8 C883  
II, Morphological development and dry matter distribution; III, Changes in carbohydrate reserves and growth analysis under field conditions.
- 76355 ORITANI, T., and YOSHIDA, R. Studies on nitrogen metabolism in crop plants. 3. Effect of kinetin on RNA metabolism in detached leaves of Italian ryegrass. (Ja) Crop Sci. Soc. Japan. Proc. 37(1):1-6. Feb.1968. 22.5 C88  
English summary.
- 76356 OSTAZESKI, S. A. Container effects on birds-foot trefoil in greenhouse tests. Phytopathology 58(4):484-485. Apr.1968. 464.8 P56
- 76357 O'SULLIVAN, M. Grass tetany—effects of environment and fertilisers on pasture histamine levels. J. Sci. Food Agr. 19(1):12-15. Ref. Jan.1968. 382 So12
- 76358 OYAMA, Y., and MASAKI, S. Studies on various factors affecting silage fermentation. 1. Effects of soluble carbohydrates and proteins on the quality of silage. (Ja) Jap. J. Zootech. Sci. 39(2):61-67. Ref. Feb.1968. 49 N62  
English summary.  
Orchardgrass and green oats.
- 76359 PAZOUREK, J. Effect of age on water loss of leaves. Biol. Plant. 10(1):27-30. Ref. 1968. 450 B52  
Alfalfa.
- 76360 PEDERSEN, M. W. An interaction between pollinators and reciprocals in an alfalfa cross. Crop Sci. 8(1):107-109. Ref. Jan./Feb.1968. 64.8 C883  
Honey bees and leaf-cutter bees.
- 76361 PHILLIPS, R. L. Cyanogenesis in *Lotus* species. Crop Sci. 8(1):123-124. Jan./Feb.1968. 64.8 C883  
Hydrogen cyanide production.
- 76362 PINEAU, N. Comparative effects of nitrogen on temporary and natural pastures. (Fr) Rev. Elevage 23(4):66,67. Apr.1968. 49 B462
- 76363 ROBISON, G. D., and MASSENGALE, M. A. Area relationships in alfalfa (*Medicago sativa* L. cultivar "Moapa"). Crop Sci. 8(2):147-151. Ref. Mar./Apr.1968. 64.8 C833
- 76364 SANTHIRASEGARAM, K., and BLACK, J. N. The distribution of leaf area and light intensity within wheat crops differing in row direction, row spacing and rate of sowing; a contribution to the study of undersowing pasture with cereals. Brit. Grassland Soc. J. 23(1):1-12. Mar. 1968. 60.19 B773  
Australia.
- 76365 SELSJORD, J. O. Chemical analyses of pasture plants. (No) Forsk. Forsok Landbruket 19(1): 1-7. 1968. 11 F772  
English summary.  
Chiefly on the effect of time of harvesting and weather on chemical content.
- 76366 SINGH, R. D., and CHATTERJEE, B. N. Growth analysis of perennial grasses in tropical India. Exp. Agr. 4(2):117-125, 127-134. Ref. Apr. 1968. 10 Ex72  
I, Herbage growth in pure grass swards; II, Herbage growth in mixed grass/legume swards.
- 76367 SORENSEN, R. C., PENAS, E. J., and ALEXANDER, U. U. Sulfur content and yield of alfalfa in relation to plant nitrogen and sulfur fertilization. Agron. J. 60(1):20-23. Ref. Jan./Feb. 1968. 4 Am34P
- 76368 STRELKOV, I. G., and ANDREEVA, N. M. To the problem of varietal renovation of European yellow lupine. (Rus) Selek. Semenovodstvo 1: 60-62. Jan./Feb.1968. 61.9 Se5  
Study of alkaloids in different generations of *Lupinus luteus*.
- 76369 TERMAN, G. L., and BROWN, M. A. Uptake of fertilizer and soil nitrogen by ryegrass, as affected by carbonaceous residue. Soil Sci. Soc. Amer. Proc. 32(1):86-90. Jan./Feb.1968. 56.9 So3
- 76370 THOMAS, D. D. S., and STANLEY, R. G. Glyc-erol activation of glucan synthesis in cell-free preparations from *Lupinus albus*. Biochem. Biophys. Res. Commun. 39(3):292-296. Feb.15, 1968. 442.8 B5236

- 76371 WOLTON, K. M., and others. The effect of nitrogen, phosphate and potash fertilizers on three grass species. *J. Agr. Sci.* 70(2):195-202. Ref. Apr.1968. 10 J822  
J. S. Brockman, D. W. T. Brough, and P. G. Shaw, joint authors.  
Ryegrass, cocksfoot, and meadow fescue.

## Physiology and Biochemistry - Oil Crops

- 76372 BROWN, J. C. Iron chlorosis in soybeans as related to the genotype of rootstock. 5. Differential distribution of photosynthetic C14 as affected by phosphate. *Soil Sci.* 105(3):159-165. Ref. Mar.1968. 56.8 So3
- 76373 FEHR, W. R. Collins, F. I., and WEBER, C. R. Evaluation of methods for protein and oil determination in soybean seed. *Crop Sci.* 8(1):47-49. Ref. Jan./Feb.1968. 64.8 C883  
For the purpose of developing superior varieties.
- 76374 FREMOND, Y., and NUCE DE LAMOTHE, M. The mineral nutrition of the coconut palm. (Fr) *Oleagineux* 23(2):93-97. Feb.1968. 77.8 OL2  
English summary, p.XXXV.
- 76375 HARRIS, H. C. Calcium and boron effects on Florida peanuts. *Fla. Agr. Exp. Sta. Tech. Bull.* 723, 18 p. Ref. Apr.1968. 100 F66S
- 76376 HOAG, B. K., ZUBRISKI, J. C., and GEISZLER, G. N. Effect of fertilizer treatment and row spacing on yield, quality and physiological response of safflower. *Agron. J.* 60(2):198-210. Mar./Apr.1968. 4 Am34P
- 76377 IVANCHENKO, N. YA. Some characteristics [physiological] and properties of clary sage seeds. (Rus) *Selek. Semenovodstvo* 1:64-66. Jan./Feb.1968. 61.9 Se5  
Salvia sclarea as oil plant.
- 76378 JACHYMCZYK, W. J., and CHERRY, J. H. Studies on messenger RNA from peanut plants: in vitro polyribosome formation and protein synthesis. *Biochim. Biophys. Acta* 157(2):368-377. Ref. Apr.22,1968. 381 B522
- 76379 KLEESE, R. A. Scion control of genotypic differences in Sr and Ca accumulation in soybeans under field conditions. *Crop Sci.* 8(1):128-129. Jan./Feb.1968. 64.8 C883
- 76380 KÖNNO, S. Physiological study on the mechanism of seed production of soybean plant. 1. Influence on the chemical composition and seed production of nutrient element deficiency during the flowering stage. *Crop Sci. Soc. Japan. Proc.* 36(2):238-247. Ref. June 1967. 22.5 C88
- 76381 LEUCK, D. B., and HARVEY, J. E. Method of laboratory screening of peanut germ plasm for resistance to the lesser cornstalk borer [*Elasmopalpus lignosellus*]. *J. Econ. Entomol.* 61(2):583-584. Apr.15,1968. 421 J822  
Resistance of 8 varieties as seedlings.
- 76382 MAURICE, A., and BARAUD, J. Fatty acids in *Parinarium holstii* seeds. (Fr) *Oleagineux* 23(1):35-38. Ref. Jan.1968. 77.8 OL2  
English summary, p.XXXVIII.
- 76383 MORI, T., and others. Occurrence of ribonucleic acids that have template activities in soybean seeds. *Arch. Biochem. Biophys.* 124(1/3):607-609. Mar.20,1968. 381 Ar2  
F. Ibuki, S. Matsushita, and T. Hata, joint authors.  
During germination.
- 76384 SHIBASAKI, K., and ASANO, M. Histochemical studies of soybean cotyledon. (Ja) *J. Food Sci. Technol.* 15(1):1-7. 1968. 388 J822  
English summary.
- 76385 SINGH, B. B., HADLEY, H. H., and COLLINS, F. I. Distribution of fatty acids in germinating soybean seed. *Crop Sci.* 8(2):171-173. Mar./Apr.1968. 64.8 C833

- 76386 SMITH, I. D. Spray-on yield boosters. Doane's *Agr. Rep.* 31(14):28D-29. May 8,1968. 281.8 D652  
Chiefly on control lodging in soybeans with triiodobenzoic acid.
- 76387 THROWER, S. L. The pattern of translocation during leaf ageing. *Soc. Exp. Biol. Symp.* 21:483-506. Ref. 1967. 442.9 So15  
Soybeans.
- 76388 VAN HUYSTEE, R. B., and others. X-irradiation effects on protein synthesis and synthesis of messenger ribonucleic acid from peanut cotyledons. *J. Biol. Chem.* 243(9):2315-2320. Ref. May 10,1968. 381 J824  
W. Jachymczyk, W. C. F. Tester, and J. H. Cherry, joint authors.
- 76389 VAN RHEENEN, H. A. Natural cross-fertilization in sesame (*Sesamum indicum* L.). *Trop. Agr.* 45(2):147-153. Apr.1968. 26 T754
- 76390 WINTER, S. R., and PENLETON, J. W. Soybean roots—how deep do they go? *Soybean Dig.* 28(7):14. Apr.1968. 60.38 So9
- 76391 WOOD, I. M. W. The effect of temperature at early flowering on the growth and development of peanuts (*Arachis hypogaea*). *Australian J. Agr. Res.* 19(2):241-251. Ref. Mar.1968. 23 Au783

## Physiology and Biochemistry - Sugar Crops

- 76392 KARPENKO, P. V., and SAITOVA, D. I. Effect of fertilizers on productivity of photosynthesis in sugar beets. (Rus) *Sakh. Svekla* 3:26-27. Mar.1968. 66.8 Su393  
Minerals.
- 76393 OKANENKO, A. S., and POCHINOK, KH. N. Increase of photosynthesis in sugar beets. (Rus) *Sakh. Svekla* 3:23-25. Mar.1968. 66.8 Su393  
Induced by treatment of seeds with the hot water.
- 76394 ROLDAN-REGUS, J., MEYER, L. H., and LUSE, R. A. Effect of foliar-applied phosphorus. *P. R. Univ. J. Agr.* 52(1):38-46. Ref. Jan.1968. 8 P832J  
Radioactive phosphorus.
- 76395 SAINI, G. R. The tolerance of sugar-cane to alkaline conditions and its related response to fertilizers. *Trop. Agr. [St. Augustine]* 44(4):309-313. Ref. Oct.1967. 26 T754  
India.
- 76396 SAVCHENKO, M. P., and VOL'F, SH. M. Pre-sowing treatment of sugar beet seeds with minor elements. (Rus) *Sakh. Svekla* 3:25. Mar. 1968. 66.8 Su393  
For better growth.
- 76397 STEWART, D. The research program of Sugarbeet Investigations. *Amer. Soc. Sugar Beet Technol. East. U. S. East. Can. Proc.*, 14th Reg. Meeting:87-91. 1967. 66.9 Am353  
Of the U. S. Department of Agriculture, Agricultural Research Service, Tobacco and Sugar Crops Research Branch.
- 76398 STUART, D. M., and HADDOCK, J. L. Inhibition of water uptake in sugar beet roots by ammonia. *Plant Physiol.* 43(3):345-350. Ref. Mar.1968. 450 P692  
Tests with ammonium sulfate, ammonium carbonate, and ammonia gas.
- 76399 TINKER, P. B. The relationship of sodium in the soil to uptake of sodium by sugar beet in the greenhouse and to yield responses in the field. *Int. Soc. Soil Sci. Trans.* 1966:223-231. Ref. 1967. 56.9 In8

## Physiology and Biochemistry - Tobacco

- 76400 CHEN, P. K., and VENKETESWARAN, S. Chlorophyllous nature and growth characteristics of teratoma and habituated tissue cultures of tobacco. *Physiol. Plant.* 21(1):262-269. Ref. 1968. 450 P564



- 76401 CHENG, A. L. S., CHAPLIN, J. F., and TSO, T. C. Sterol variation in flue-cured tobacco varieties. Tobacco [New York] 166(9):29-31. Mar.1,1968. 286.89 T552  
Grown under different fertilizer rates.
- 76402 CHU, H., and TSO, T. C. Fatty acid composition in tobacco. I. Green tobacco plants. Plant Physiol. 43(3):428-436. Ref. Mar.1968. 450 P692
- 76403 COLLINS, G. B. DNA synthesis in two species of *Nicotiana* and their hybrid. J. Hered. 59(1):13-17. Ref. Jan./Feb.1968. 442.8 Am3  
*Nicotiana tabacum* and *N. plumbaginifolia*.
- 76404 CONKLIN, M. E., and SMITH, H. H. Endogenous beta irradiation and tumor production in an amphiploid *Nicotiana* hybrid. Amer. J. Bot. 55(4):473-476. Apr.1968. 450 Am36  
*Nicotiana suaveolens* X *N. langsdorffii*; tests with  $H^3$ - and  $C^{14}$ -labelled growth substances.
- 76405 DYAR, J. J. Certain effects of benzimidazole on young tobacco plants. Plant Physiol. 43(3):477-478. Mar.1968. 450 P692
- 76406 HOPKINSON, J. M. Effects of early drought and transplanting on the subsequent development of the tobacco plant. Australian J. Agr. Res. 19(1):47-57. Ref. Jan.1968. 23 Au783
- 76407 HOYERT, J. H. Plant stands in Maryland tobacco plant beds as affected by fertilizer rates and irrigation levels. Md. Agr. Exp. Sta. Bull. 482,14 p. Mar.1968. 100 M36S
- 76408 HOYERT, J. H. Research note No.3: Germination (emergence) of tobacco seed and its relationship to total soluble salts as measured by electrical conductivity of the soil. Tobacco [New York] 166(9):32-33. Mar.1.1968. 286.89 T552
- 76409 KASPERBAUER, M. J. Germination of tobacco seed. I. Inconsistency of light sensitivity. Tobacco [New York] 166(6):23-26. Feb.9,1968. 286.89 T552
- 76410 KEGLEVIC, D., LADESIC, B., and POKORNY, M. Biochemical studies in tobacco plants. IV. N-malonylmethionine, metabolite of D-methionine in *Nicotiana rustica*. Arch. Biochem. Biophys. 124(1/3):443-449. Ref. Mar.20,1968. 381 Ar2
- 76411 KISAKI, T. Stereospecific degradation and biogenesis of tobacco alkaloids. (Ja) Agr. Chem. Soc. Jap. J. 42(3):R17-R22. Ref. Mar.1968. 385 Ag8
- 76412 LIGON, J. T. Effects of soil moisture tension and environmental factors on internal water balance of tobacco leaves. Tobacco [New York] 166(8):31-36. Ref. Feb.23,1968. 286.89 T552
- 76413 MIYAZAKI, T., and TATEMACHI, Y. The change in photosynthetic activity and the varietal difference in the ripening of tobacco. (Ja) Crop Sci. Soc. Japan. Proc. 37(1):135-139. Feb.1968. 22.5 C88  
English summary.
- 76414 MOSS, D. N. Photorespiration and glycolate metabolism in tobacco leaves. Crop Sci. 8(1):71-76. Ref. Jan./Feb.1968. 64.8 C883
- 76415 RAUR, J. R., HALLIWELL, R. S., and LANGSTON, R. Pathway of carbohydrate metabolism in senescent and non-senescent tobacco leaves. Physiol. Plant. 21(1):45-51. Ref. 1968. 450 P564
- 76416 SHÔDA, M., and HIGASE, S. Studies on the stomatal movement of tobacco leaves. 1. The movement of stomata in field-grown tobacco by the time in a day and in the course of leaf maturity. (Ja) Crop Sci. Soc. Japan. Proc. 37(1):107-111. Feb.1968. 22.5 C88  
English summary.
- 76417 SKÖK, J. Relationship of boron to gibberellic acid-induced proliferation in debudded tobacco plants. Plant Physiol. 43(3):384-388. Mar. 1968. 450 P692
- 76418 TANAKA, M. The effects of transpiration suppressants on the nicotine content in flue-cured tobacco leaves. (Ja) Crop Sci. Soc. Japan. Proc. 36(2):185-191. Ref. June 1967. 22.5 C88  
English summary.
- 76419 TATEMACHI, Y. Studies on the photosynthesis of tobacco plants. 1. An apparatus for the measurement of photosynthesis in plants, and changes of photosynthesis and respiration in the course of development. (Ja) Crop Sci. Soc. Japan. Proc. 37(1):129-134. Ref. Feb.1968. 22.5 C88  
English summary.
- 76420 TAVDUMADZE, K. R., and TODUA, V. A. Reaction of tobacco to gamma rays of  $Co^{60}$  in different phases of its ontogenesis. (Rus) Akad. Nauk Gruz. SSR. Soobshch. 49(1):205-210. Jan. 1968. 511 Ak146
- 76421 THORPE, T. A., and MURASHIGE, T. Starch accumulation in shoot-forming tobacco callus cultures. Science 160(3826):421-422. Ref. Apr.26,1968. 470 Sci2
- 76422 TSURTSUMIYA, T. YA. Effect of molybdenum on tobacco. (Rus) Tabak 1:56-58. 1968. 69.8 T112  
Used as fertilizers for better growth.
- 76423 WHITFIELD, P. R., and SPENCER, D. Buoyant density of tobacco and spinach chloroplast DNA. Biochim. Biophys. Acta 157(2):333-343. Ref. Apr.22,1968. 381 B522

## Physiology and Biochemistry - Fruit Crops

- 76424 ALEKSIDZE, G. N. Thiophos as stimulator. (Rus) Sadovodstvo 3:16. Mar.1968. 80 Sal3  
Study of physiological effects on apples.
- 76425 AMBARTSUMYAN, M. A., and MKRCHYAN, R. S. Effect of polyethylene films, covering vineyards in winter, on grapes. (Rus) Vinodel. Vinograd. SSSR 2:22-24. 1968. 95.8 V77  
Test of hardness.
- 76426 AVETISYAN, G. A. Scientific basis of fruit pollination by *Apis mellifera*. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 132:311-324. Ref. 1967. 20 M857
- 76427 BALTHAZARD, J. Water effects on the germination of grape seeds. (Fr) Acad. Sci. Comptes Rendu 266(12):1266-1268. Mar.18,1968. 505 P21
- 76428 BEREND, K., and HEYMANN, G. The importance of trace nutrients in grape culture. (Ge) Chem. Tech. Landwirt. 23(4):148-152. 1968. 384 C4292
- 76429 BOGDANOV, S. M. Effect of soil moisture on rooting of apple wild seedlings and their suitability for budding. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 132:97-100. 1967. 20 M857
- 76430 BOWEN, H. H. Efficiency of two chemical thinners on Redskin peaches as affected by wind, temperature and relative humidity. Tex. Agr. Exp. Sta. Progr. Rep. 2535,3 p. Apr.8, 1968. 100 T31P  
N-1-naphthyl-phthalamic acid and Fruitone CPA.
- 76431 COME, D., and TISSAOU, T. Induction of secondary embryonic dormancy in apple tree by atmosphere very much deficient in oxygen. (Fr) Acad. Sci. C. R., Ser. D, 266(5):477-479. Jan.29,1968. 505 P21
- 76432 DANAILOV, B., MIKHAILOVA, S., and VULCHEV, V. Results from the investigations on the effect of sodium naphthenate and Biomin on grapevine. (Bu) Gradinar. Lozar. Nauk. 5(1):73-81. 1968. 87 G75  
French summary.
- 76433 DRAWERT, F., and others. On the biogenesis of aromatic materials in plants and fruits. III. Chromatographic study of apple aromatic substances. (Ge) Phytochem. 7(5):881-883. May 1968. 450 P5622  
W. Heimann, R. Emberger, and R. Tressl, joint authors.  
English summary.

- 76434 DUTKIN, G. I. Effects of graft and soil conditions on distribution of root system of pears. (Rus) Moscow. Timiryazev. Sel'skokhoz. Dokl. 132:61-65. 1967. 20 M857
- 76435 EGLINTON, G., and HUNNEMAN, D. H. Gas chromatographic-mass spectrometric studies of long-chain hydroxy acids. I. The constituent cutin acids of apple cuticle. *Phytochemistry* 7 (2):313-322. Ref. Feb.1968. 450 P5622
- 76436 EVENARI, M., SHANAN, L., and TADMOR, N. H. Runoff farming in the desert. I. Experimental layout. *Agron. J.* 60(1):29-38. Ref. Jan./Feb.1968. 4 Am34P  
Chiefly the use of moisture by apricot and peach in Israel.
- 76437 FERREE, M. E., and STEMBRIDGE, G. E. The effects of n-dimethyl amino succinamic acid on flower bud development, vegetative growth and fruit quality of Red Delicious apples. *S. C. Agr. Exp. Sta. Dep. Hort. Res. Ser.* 100,47 p. Ref.,p.45-47. Apr.1967. SB21.S6
- 76438 FISHER, J. F. A procedure for obtaining radioactive naringin from grapefruit leaves fed L-phenylalanine-<sup>14</sup>C. *Phytochem.* 7(5):769-771. Ref. May 1968. 450 P5622
- 76439 FORD, E. M. Studies in the nutrition of apple rootstocks. V. The development of magnesium deficiency symptoms relating to magnesium supply. *Ann. Bot. (n.s.)* 32(125):45-56. Jan.1968. 450 An7
- 76440 GAMBRELL, C. E., RHODES, W. H., and SIMS, E. T. Some effects of four growth regulations on thinning, yield, size and maturity of Ranger peaches when applied for one year and two years in succession. *S. C. Agr. Exp. Sta. Dep. Hort. Res. Ser.* 101,21 p. May 1967. SB21.S6
- 76441 GARRETT, J. T. The measurement of endogenous gibberellin-like substances in the developing peach fruit. *S. C. Agr. Exp. Sta. Dep. Hort. Res. Ser.* 97,43 p. Ref.,p.41-43. Feb.1967. SB21.S6
- 76442 GOODWIN, P. B. Inhibitor of receptacle growth in non-pollinated strawberry fruit. *Nature* 218 (5139):389-390. Ref. Apr.27,1968. 472 N21
- 76443 GUKASYAN, A. S. Cold resistant grape. (Rus) *Sadovodstvo* 1:28. Jan.1968. 80 Sa13
- 76444 HALL, I. V., and AALDERS, L. E. Fruit set and berry development of lowbush blueberry as affected by temperature. *Can. J. Plant Sci.* 48 (3):321-322. May 1968. 450 C16
- 76445 HAYASHI, F., and others. Occurrence of gibberellin A<sub>3</sub> in parthenocarpic apple fruit. *Plant Physiol.* 43(3):448-450. Ref. Mar.1968. 450 P692  
R. Naito, M. J. Bukovac, and H. M. Sell, joint authors.
- 76446 HOLLAND, D. A. Variation in chemical composition of apple leaves. *J. Sci. Food Agr.* 19 (3):136-140. Mar.1968. 382 So12
- 76447 HORNEY, G. Forecasting the flowering date of grapes. (Ge) *Umschau* 68(5):149-150. Feb.29, 1968. 474 Um7
- 76448 IWAHORI, S., WEAVER, R. J., and POOL, R. M. Gibberellin-like activity in berries of seeded and seedless Tokay grapes. *Plant Physiol.* 43(3):333-337. Ref. Mar.1968. 450 P692
- 76449 JACKSON, D. I. Gibberellin and the growth of peach and apricot fruits. *Australian J. Biol. Sci.* 21(2):209-215. Ref. Apr.1968. 442.8 Au72
- 76450 JUNGNIKEL, F. The germination of strawberry nutlets on the fruit. (Ge) *Phytopathol. Z.* 61(2):200-201. Feb.1968. 464.8 P562  
English summary.  
Nutlets are virescent carpels.
- 76451 KRIVONOGOVA, A. G. Effect of pollination date on the formation of strawberries. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 132:129-134. 1967. 20 M857
- 76452 KUZNETSOV, M. D. Changes in apple root system, as related to the growth stages. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 132:37-42. 1967. 20 M857
- 76453 KUZNETSOV, M. D., and ZAKOTIN, V. S. Formation of apple root system. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 132:43-48. 1967. 20 M857  
As related to planting density.
- 76454 LEWIS, L. N., and BAKHSHI, J. C. Interactions of indoleacetic acid and gibberellic acid in leaf abscission control. *Plant Physiol.* 43(3):351-358. Ref. Mar.1968. 450 P692  
Tests with citrus.
- 76455 LEWIS, L. N., and BAKHSHI, J. C. Protein synthesis in abscission: The distinctiveness of the abscission zone and its response to gibberellic acid and indoleacetic acid. *Plant Physiol.* 43(3):359-364. Ref. Mar.1968. 450 P692  
Tests with citrus and leucine-1-<sup>14</sup>C.
- 76456 MAMMAEV, G. M. Correlation between density of side-shoots and their accretion on grape rootstocks, resistant to Phylloxera. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 132:303-309. 1967. 20 M857
- 76457 MISRA, K., and SESHADRI, T. R. Chemical components of the fruits of *Psidium guava*. *Phytochemistry* 7(4):641-645. Apr.1968. 450 P5622  
Examined at different stages of maturity.
- 76458 MONET, R. A method for obtaining viable plants from the embryos of very early varieties of peach. (Fr) *Ann. Amelior. Plantes* 18 (1):85-91. 1968. 14 F8499A  
English summary.
- 76459 MURSALOV, S. B. Biological characteristics of apple productivity under conditions of the southern Dagestan. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 132:83-89. 1967. 20 M857  
In relation to apple varieties.
- 76460 NAKABAYASHI, T. Studies on tannin of fruits and vegetables. I. Tannin of fruits of rosaceous fruit trees. (Ja) *J. Food Sci. Technol.* 15(2): 21-26. 1968. 388 J822  
English summary.
- 76461 NEWMAN, J. E., and others. Orange fruit maturity and net heat accumulations. In Shaw, R. H., ed. *Ground level climatology*, p.127-147, map. Ref. 1967. QC981.S5  
W. C. Cooper, W. Reuther, G. A. Cahoon, and A. Peynado, joint authors.
- 76462 NIGOND, J., DURAND, R., and TABARD, P. Some aspects of the effects of microclimate on grapevine and fruit trees. (Fr) *Phytoma* 20 (195):26-30. (Concl.) Ref. Feb.1968. 464.8 P563  
Physiological aspects.
- 76463 PALMER-JONES, T., and CLINCH, P. G. Observations on the pollination of apple trees (*Malus sylvestris* Mill.). III. Varieties Granny Smith, Kidd's Orange Red, and Golden Delicious. *New Zeal. J. Agr. Res.* 11(1):149-154. Feb. 1968. 23 N4892  
Insects.
- 76464 PERUMAL, A., and ADAM, A. V. Bagging of Giant Cavendish banana stems in Honduras. I. Effect on number of days from flower emergence to fruit harvest. *Trop. Agr.* 45(2):109-112. Apr.1968. 26 T754
- 76465 RAA, J., and OVEREEM, J. C. Transformation reactions of phloridzin in the presence of apple leaf enzymes. *Phytochem.* 7(5):721-731. Ref. May 1968. 450 P5622
- 76466 ROGERS, B. L. Peaches in Maryland; a decade of soil moisture and irrigation studies. *Md. Agr. Exp. Sta. Bull.* A-148,29 p. Ref. June 1967. 100 M36S  
Physiological effects.
- 76467 SHUMACHER, R., and FANKHAUSER, F. The effect of pruning on growth after using inhibitors. (Ge) *Schweiz. Z. Obst- Weinbau* 104 (3):58-60. Feb.3,1968. 80 Sch9  
For thinning apple blossoms.



- 76468 SIMS, E. T., and GAMBRELL, C. E. The quality and maturity of Ranger peaches as influenced by six plant growth regulators applied as post-bloom sprays in 1965. S. C. Agr. Exp. Sta. Dep. Hort. Res. Ser. 98, 26 p. Ref. Feb. 1967. SB21.S6
- 76469 SLAYTOR, M., and MCFARLANE, J. J. The biosynthesis and metabolism of harman in *Pasiflora edulis*. I. The biosynthesis of harman. *Phytochemistry* 7(4):605-611. Ref. Apr. 1968. 450 P5622
- 76470 SLOWIK, K. Gleyed soils and their suitability for fruit trees. (Pol) *Rocz. Gleboznawcze* 17: 253-282. Ref. 1967. 56.8 R592  
English summary.  
In relation to growth of apple trees and distribution of their root system.
- 76471 STEMBRIDGE, G. E. Some effects of growth regulator sprays on vegetative growth and flower bud formation in young Red Delicious apple trees. S. C. Agr. Exp. Sta. Dep. Hort. Res. Ser. 99, 9 p. Mar. 1967. SB21.S6  
Use of Alar and TIBA.
- 76472 THIBAUDIN, A., MAZLIAK, P., and CATESON, A. M. Biosynthesis of fatty acids by microsomes isolated from the parenchyma of the apple (*Pirus malus* L.). (Fr) *Acad. Sci. C. R., Ser. D*, 266(8):784-787. Feb. 19, 1968. 505 P21
- 76473 TUCHKOV, V. P. The hardiness of one year old apple accretion and the content of free amino acids. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 132:77-82. 1967. 20 M857
- 76474 TURMANIDZE, T. I., and ARVELADZE, G. A. Effect of agrometeorological conditions upon sugar content in grapes. (Geo) *Akad. Nauk Graz. SSR. Soobshch.* 49(1):199-204. Jan. 1968. 511 Ak146  
Russian summary.
- 76475 UL'YANOVA, D. A. Effect of weather conditions on accumulation of vitamin C and anthocyanins in currants and gooseberries. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 132:265-271. 1967. 20 M857
- 76476 WALMSLEY, D., and TWYFORD, I. T. The zone of nutrient uptake by the Robusta banana. *Trop. Agr.* 45(2):113-118. Ref. Apr. 1968. 26 T754
- 76477 WESTWOOD, M. N., and LOMBARD, P. B. Plant growth regulators; fruit trees. *Oreg. Weed Contr. Handbook* 1967:145-149. 275.28 Or3
- 76478 YOKOYAMA, H., and WHITE, J. J. Causes of lemon bronzing. *Calif. Citrogr.* 53(7):283-284. May 1968. 80 C125  
Presence of reticulatanthin, semi-beta-carotene, and hydroxysintanxin in the peel.

## Physiology and Biochemistry - Nuts

- 76479 AWADA, M., WARNER, R. M., and WATANABE, Y. Effects of soil moisture stress on growth and yield of macadamia (*Macadamia integrifolia*). *Hawaii. Agr. Exp. Sta. Tech. Bull.* 69, 27 p. Ref. Jan. 1967. 100 H313T

## Physiology and Biochemistry - Shade Trees and Ornamental Plants

- 76480 ALAM, A. U., COUCH, J. R., and CREGER, C. R. Fatty acid composition of the xanthophyll esters of *Tagetes erecta* petals. *Lipids* 3(2): 183-184. Mar. 1968. QP751.L5
- 76481 BARBER, J. T., and STEWARD, F. C. The proteins of *Tulipa [gesneriana]* and their relation to morphogenesis. *Develop. Biol.* 17(3): 326-349. Ref. Mar. 1968. 442.8 D49
- 76482 BOSE, S., and HATI, A. Plant growth, flowering and fruiting in *Gypsophila oldhamiana* L. following seed treatment with P32. *Plant Life* 24:126. 1968. 450 P695
- 76483 CHLYAH-ARNASON, A., and VAN, M. T. T. Budding capacity of undetached *Begonia rex* leaves. *Nature* 218(5140):493. May 4, 1968. 472 N21
- 76484 COCKSHULL, K. E., and HUGHES, A. P. Accumulation of dry matter by *Chrysanthemum morifolium* after flower removal. *Nature* 217 (5132):979-980. Mar. 9, 1968. 472 N21
- 76485 DÄVENPORT, D. The esthetics of orchid pollination. *Natur. Hist.* 77(4):44-49. Apr. 1968. 500 N483J  
Morphological forms.
- 76486 EARLE, E. D. Induction of xylem elements in isolated *Coleus [blumei]* pith. *Amer. J. Bot.* 55(3):302-305. Ref. Mar. 1968. 450 Am36  
In media with different concentrations of indoleacetic acid.
- 76487 GUYOT, M., PIKUSZ, A., and HUMBERT, C. Colchicine effects on stomata of *Dianthus caryophyllus*. (Fr) *Acad. Sci. Compte Rendu* 266 (12):1251-1252. Mar. 18, 1968. 505 P21
- 76488 HARRIS, G. P. Photoperiodism in the glass-house carnation: The effectiveness of different light sources in promoting flower initiation. *A Ann. Bot. (n.s.)* 32(125):187-197. Ref. Jan. 1968. 450 An7
- 76489 KUBELKA, W. On the occurrence of periplogenin glycosides in leaves and flowers of *Convallaria majalis* L. (Ge) *Monatsh. Chem.* 98 (4):1262-1273. 1967. 384 M74  
English summary.
- 76490 LARSEN, P. O., and SORENSEN, H. mu-Carboxy-substituted aromatic amino acids in plant metabolism. IV. Transformation of 3-(3-carboxyphenyl)alanine into 3-(3-carboxy-4-hydroxyphenyl)alanine in *Reseda lutea* L. and *Reseda odorata* L. *Biochim. Biophys. Acta* 156(1):190-191. Feb. 1, 1968. 381 B522
- 76491 LE PAGE, A. Evidence of dormancy associated with immaturity of embryo in *Taxus baccata* L. (Fr) *Acad. Sci. C. R., Ser. D*, 266(10):1028-1030. Mar. 4, 1968. 505 P21
- 76492 LESHEM, Y., and LUNENFELD, B. Gonadotropin promotion of adventitious root production on cuttings of *Begonia semperflorens* and *Vitis vinifera*. *Plant Physiol.* 43(3):313-317. Ref. Mar. 1968. 450 P692
- 76493 LINDSTROM, R. S. Growth regulating foliar sprays on poinsettias [*Euphorbia pulcherrima*]. *Mich. Agr. Exp. Sta. Quart. Bull.* 49(4):412-415. May 1967. 100 M588  
2-chloroethyl trimethylammonium chloride and N-dimethyl amino succinamic acid.
- 76494 MCBEE, G. G., MCCUNE, W. E., and BEER-WINKLE, K. R. Effect of soil heating on winter growth and appearance of Bermudagrass and St. Augustinegrass. *Agron. J.* 60(2):228-231. Mar./Apr. 1968. 4 Am34P
- 76495 PICARD, C. The flowering of evening primrose [*Oenothera biennis*] under unfavorable conditions (irregular illumination, application of B 995). (Fr) *Acad. Sci. Compte Rendu* 266 (12):1256-1259. Mar. 18, 1968. 505 P21
- 76496 PLOUVIER, V. Study of coumarin heterosides; magnolioside of *Magnolia macrophylla* Michx., calycanthoside and cichorioside of *Fraxinus*. (Fr) *Acad. Sci. C. R., Ser. D*, 266(14):1526-1528. Apr. 1, 1968. 505 P21
- 76497 REES, A. R. The initiation and growth of tulip bulbs. *Ann. Bot. (n.s.)* 32(125):69-77. Jan. 1968. 450 An7
- 76498 SCHMIDT, R. E. Environmental influence on nitrogen utilization. *Sports Turf Res. Inst. J.* 43:49-58. Ref. 1967, pub. Mar. 1968. 60.19 B772  
In turfgrasses.

- 76499 SCHNOES, H. K., and others. Mass spectra of Amaryllidaceae alkaloids; the lycorenine series. *Tetrahedron* 24(7):2825-2837. Ref. Apr. 1968. 382 T29  
D. H. Smith, A. L. Burlingame, P. W. Jeffs, and W. Dopke, joint authors.
- 76500 THOMPSON, P. A. Germinating *Primula* seed. *Roy. Hort. Soc. J.* 93(3):133-138. Mar. 1968. 84 L84J
- Physiology and Biochemistry - Vegetable and Truck Crops
- 76501 ABDALLA, A. A., and VERKERK, K. Growth, flowering and fruit-set of the tomato at high temperature. *Neth. J. Agr. Sci.* 16(1):71-76. 1968. 12 N3892
- 76502 ABROL, I. P., SRIVASTAVA, R. C., and ABROL, Y. P. An example of active transport of water through plants. *Experientia* 24(3):304. Mar. 15, 1968. 475 Ex7  
In tomatoes.
- 76503 ADEDIPE, N. O., ORMROD, D. P., and MAURER, A. R. Response of pea plants to soil and foliar application of cycocel (2-chloroethyl) trimethylammonium chloride). *Can. J. Plant Sci.* 48(3):323-325. May 1968. 450 C16
- 76504 ALEKSANDROVA, N. E. Balanced humidity and intensity of respiration of radish, lettuce and spinach seeds in storage. (Rus) Moscow. *Timiryazev. Sel'skokhoz. Akad. Dokl.* 132:285-290. 1967. 20 M857  
In relation to seed moisture.
- 76505 ARANCIA, G., BANDIERA, M., and MORPURGO, G. Formation of chloroplasts in tissue culture of *Daucus carota* in different hormonal conditions. (It) *Ist. Super. Sanit. Ann.* 3(2):175-178. 1967. R65.18  
English summary.
- 76506 BERTRAND, D., and WOLF, A. DE. Necessity of chrome minor elements in potato culture. (Fr) *Acad. Sci. C. R., Ser. D*, 266(14):1494-1495. Apr. 1, 1968. 505 P21
- 76507 BLINN, R. C. Abate insecticide; the fats of O,O,O',O'-tetramethyl O,O'-thiodi-p-phenylene phosphorothioate on bean leaves. *J. Agr. Food Chem.* 16(3):441-445. May/June 1968. 381 J8223
- 76508 BORISOV, N. V. Effect of concentration of nutrient solutions [minerals] on growth and productivity of cucumbers in greenhouse. (Rus) Moscow. *Timiryazev. Sel'skokhoz. Akad. Dokl.* 132:173-179. Ref. 1967. 20 M857  
Seed treatment.
- 76509 CARY, J. W., JENSEN, M. E., and FISHER, H. D. Physical state of water in plant xylem vessels. *Agron. J.* 60(2):167-169. Ref. Mar./Apr. 1968. 4 Am34P  
Tests with tomato and corn using a psychrometer.
- 76510 COCUCCI, S., and BAGNI, N. Polyamine-induced activation of protein synthesis in ribosomal preparation from *Helianthus tuberosus* tissue. *Life Sci.* 7(4):113-120. Feb. 15, 1968. 442.8 L62
- 76511 COURDUREUX, J. C. Induced dormancy by prolonged inhibition in Jerusalem artichoke. (Fr) *Acad. Sci. C. R., Ser. D*, 266(5):480-483. Jan. 29, 1968. 505 P21
- 76512 COURTEZ, D. Action de l'acide gibberellique sur la respiration de fragments de tissus vegetaux [Effects of gibberellic acid on the respiration of fragments of plant tissues]. Brussels, Univ. Ann. *Physiol. Veg.* 13(1), 31 p. Ref. 1968. 451 B833  
English summary.  
Tests with potato discs.
- 76513 CRAWFORD, J. H., SENN, T. L., and STEMBRIDGE, G. E. The influence of humic acid fractions on sprout production and yield of the Carogold sweet potato. *S. C. Agr. Exp. Sta. Tech. Bull.* 1028, 16 p. Jan. 1968. 100 So8T
- 76514 DEVYS, M., and others. Biosynthesis of the spinasterol after the application of methylene-er dihydrolanosterol on spinach *Spinacia oleracea*. (Fr) *Phytochemistry* 7(4):613-617. Ref. Apr. 1968. 450 P5622  
A. Alcaide, M. Barbier, E. Lederer, joint authors.  
English summary.
- 76515 DOKU, E. V. Flowering, pollination and pod formation in bambara groundnut (*Voandzeia subterranea*) in Ghana. *Exp. Agr.* 4(1):41-48. Jan. 1968. 10 Ex72  
Food crop.
- 76516 DREW, M. C., VAIDYANATHAN, L. V., and NYE, P. H. Can soil diffusion limit the uptake of potassium by plants? *Int. Soc. Sci. Trans.* 1966:335-344. Ref. 1967. 56.9 In8  
Onions.
- 76517 DUPERON, P. Formation of sterols during the germination of *Raphanus sativus* seeds; effects of light and mineral nutrition. (Fr) *Acad. Sci. C. R., Ser. D*, 266(16):1658-1661. Apr. 1968. 505 P21
- 76518 DUPERON, P., DELAGE, H., and DUPERON, R. Quantitative evolution of sterol, total fatty acids, and lipide phosphorus during germination of *Phaseolus vulgaris* seeds in the dark; relationship to growth. (Fr) *Paris. Soc. Biol. Compt. Rend.* 161(8/9):1792-1796. Feb. 26, 1968. 442.9 P21
- 76519 ECKLUND, P. R., and MOORE, T. C. Quantitative changes in gibberellin and RNA correlated with senescence of the shoot apex in the "Alaska" pea. *Amer. J. Bot.* 55(4):494-503. Ref. Apr. 1968. 450 Am36  
Treated with AMO-1618 and gibberellic acid.
- 76520 EGLES, D., and ROLLIN, P. Photosensitivity of seeds of tomato var. St. Pierre. (Fr) *Acad. Sci. C. R., Ser. D*, 266(10):1017-1020. Mar. 4, 1968. 505 P21
- 76521 ENGST, R. The uptake and accumulation of insecticides by carrots. (Ge) *Qualitas Plant. Mater. Veg.* 14(4):305-316. Ref. July 28, 1967. 64.8 M41  
English summary.  
Methyl parathion.
- 76522 FAMBROUGH, D., and BONNER, J. Selective dissociation of pea bud nucleohistone. *Biochim. Biophys. Acta* 154(3):601-603. Ref. Apr. 9, 1968. 381 B522
- 76523 FOMIN, V. S. The characteristics of change of vegetational period in different pea varieties. (Rus) *Selek. Semenovodstvo* 1:71-72. Jan./Feb. 1968. 61.9 Se5
- 76524 GAUTHERET, R. Temperature and rhizogenesis of Jerusalem artichoke tissue cultivated in vitro. (Fr) *Acad. Sci. C. R., Ser. D*, 266(8):770-775. Feb. 19, 1968. 505 P21
- 76525 GIOVANELLI, J., and MUDD, S. H. Sulfuration of O-acetylhomoserine and O-acetylserine by two enzyme fractions from spinach. *Biochem. Biophys. Res. Commun.* 31(2):275-280. Ref. Apr. 19, 1968. 442.8 R5236
- 76526 GRAHAM, D., GRIEVE, A. M., and SMILLIE, R. M. Phytochrome as the primary photoregulator of the synthesis of Calvin cycle enzymes in etiolated pea seedlings. *Nature* 218(5136):89-90. Ref. Apr. 6, 1968. 472 N21
- 76527 GREENE, G. L., and PROANO, V. A. Gibberellin-induced paling in leaves of a dwarf bean mutant. (Sp) *Turrialba* 18(1):70-72. Jan./Mar. 1968. 8 T86
- 76528 HALSTEAD, E. H., and others. Supply of Ca, Sr, Mn, and Zn to plant roots growing in soils. *Soil Sci. Soc. Amer. Proc.* 32(1):69-72. Ref. Jan./Feb. 1968. 56.9 So3  
S. A. Barber, D. D. Warncke, and J. B. Bole, joint authors.  
Vegetables and wheat.
- 76529 HEDIN, P. A., and others. Isolation and structural determination of 13 flavonoid glycosides in *Hibiscus esculentus* (okra). *Amer. J. Bot.* 55(4):431-437. Ref. Apr. 1968. 450 Am36  
P. L. Lamar, A. C. Thompson, and J. P. Minyard, joint authors.



- 76530 HORTON, A. A., and HALL, D. O. Determining the stoichiometry of photosynthetic phosphorylation. *Nature* 218(5139):386-388. Ref. Apr.27, 1968. 472 N21  
Spinach.
- 76531 HOSSNER, L. R., and RICHARDS, G. E. The effect of phosphorus source on the movement and uptake of band applied manganese. *Soil Sci. Soc. Amer. Proc.* 32(1):83-85. Ref. Jan./Feb.1968. 56.9 So3  
Soybeans as test plant.
- 76532 IMASEKI, H., UCHIYAMA, M., and URITANI, I. Effect of ethylene on the inductive increase in metabolic activities in sliced sweet potato roots. *Agr. Biol. Chem.* 32(3):386-389. Ref. Mar.1968. 385 Ag8B
- 76533 ISRAELSTAM, G. F. Anomalous growth response of bean plants in iron-deficient media to cyanide. *Nature* 218(5139):390-391. Apr.27, 1968. 472 N21
- 76534 KADO, C. I. Purification and properties of a ribonuclease isolated from etiolated cucumber seedlings. *Archiv. Biochem. Biophys.* 125(1):86-93. Ref. Apr.1968. 381 Ar2
- 76535 KANSOUH, A. S. H., and HOPKINS, T. L. Diazinon absorption, translocation, and metabolism in bean plants. *J. Agr. Food Chem.* 16(3):446-450. Ref. May/June 1968. 381 J8223
- 76536 KEMP, G. A. Low-temperature growth response of the tomato. *Can. J. Plant Sci.* 48(3):281-286. Ref. May 1968. 450 C16
- 76537 KHAN, A. A. Antagonism between cytokinins and germination inhibitors. *Nature* 216(5111):166-167. Ref. Oct.14,1967. 472 N21  
--Tested with lettuce seed.
- 76538 KNULL, H. R., and KINBACHER, E. J. Effects of a suboptimal temperature on the free amino composition of bean seedlings. *Crop Sci.* 8(1):39-41. Ref. Jan./Feb.1968. 64.8 C83
- 76539 KOMISSAROV, V. A., and TYULENEVA, N. A. Effect of planting depth on the growth, development and yields of garlic. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 132:211-215. 1967. 20 M857
- 76540 KRUL, W. R. Increased root initiation in pinto bean hypocotyls with 2,4-dinitrophenol. *Plant Physiol.* 43(3):439-441. Ref. Mar.1968. 450 P692
- 76541 KRYLOV, S. V., and ROGACHEVA, I. N. To the problem of preserving viability of cabbage seeds, by planting in late fall. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 132:167-172. 1967. 20 M857  
Proper treatment.
- 76542 KURAIISHI, S. The effect of kinetin on protein level of Brassica [rapa] leaf disks. *Physiol. Plant.* 21(1):78-83. Ref. 1968. 450 P564  
Tested in medium containing  $^{14}\text{C}$ -L-leucine.
- 76543 KURAMITSU, H. K. Adenine nucleotide inhibition of pea malate dehydrogenase. *Archiv. Biochem. Biophys.* 125(1):383-384. Apr.1968. 381 Ar2
- 76544 LEBEDEV, G. V., and others. The composition of bleeding sap in different parts of plants. (Rus) Akad. Nauk SSSR. Dokl. 176(2):478-479. 1967. 511 P444A  
E. D. Sabinina, V. G. Egorov, V. N. Savitskaya, and N. F. Berko, joint authors.
- 76545 LEONARD, O. A., and KING, D. L. Vein loading and transport in detached leaves. *Plant Physiol.* 43(3):460-463. Mar.1968. 450 P692  
Autoradiographic study with kidney beans and  $^{14}\text{CO}_2$ .
- 76546 LOTLIKAF, P. D., and REMMERT, L. F. Intermediate reactions of oxidative phosphorylation in mitochondria from cabbage. *Plant Physiol.* 43(3):327-332. Ref. Mar.1968. 450 P692
- 76547 LUTTGE, U., BAUER, K., and KOHLER, D. Immediate effects of gibberellic acid on membrane transport in young pea seedlings. (Ge) *Biochim. Biophys. Acta* 150(3):452-459. Ref. Apr.29,1968. 381 B522  
English summary.
- 76548 MACHAVARIANI, M. Z., ZHAGENTI, M. P., and TARKASHVILI, D. V. Dehydrogenase activity of pea nodule bacteria. (Rus) Akad. Nauk SSSR. Izv. Ser. Biol. 1:141-143. Jan./Feb.1968. 511 Sa2B  
English summary.
- 76549 MACRAE, A. R., and DUGGLEBY, R. G. Substrates and inhibitors of potato tuber phenolase. *Phytochem.* 7(5):855-861. Ref. May 1968. 450 P5622
- 76550 MADSEN, E. Effects of  $\text{CO}_2$ -concentration on the accumulation of starch and sugar in tomato leaves. *Physiol. Plant.* 21(1):168-175. 1968. 450 P564
- 76551 MAEDA, Y., HIGASHIMURA, T., and MÖRITA, Y. Mossbauer effect in peroxidase. *Biochem. Biophys. Res. Commun.* 29(3):362-367. Ref. Nov.17,1967. 442.8 B5236  
Japanese radish peroxidase.
- 76552 MAGGIONI, A., and others. Composition of cultivated mushrooms (*Agaricus bisporus*) during the growing cycle as affected by the nitrogen source introduced in composting. *J. Agr. Food Chem.* 16(3):517-519. Ref. May/June 1968. 381 J8223  
C. Passera, F. Renosto, and E. Bennetti, joint authors.
- 76553 MARKARIAN, D., and ELLIOTT, F. C. A bioassay of inbred pea lines for differences in nutritional value. *Mich. Agr. Exp. Sta. Quart. Bull.* 50(3):293-295. Feb.1968. 100 M58S
- 76554 MARTIN, J. A., and SENN, T. L. The influence of various rates of nitrogen and humic acid derivatives on the growth and yield of greenhouse tomatoes. *S. C. Agr. Exp. Sta. Dep. Hort. Res. Ser.* 95,7 p. Feb.1967. SB21.S6
- 76555 MAYER, A. M., KRISHMARO, N., and POLJAKOFF MAYBER, A. Isocitric lyase and isocitric dehydrogenase in germinating lettuce. *Physiol. Plant.* 21(1):183-189. Ref. 1968. 450 P564
- 76556 MINSHALL, W. H. Effects of nitrogenous materials on translocation and stump exudation in root systems of tomato. *Can. J. Bot.* 46(4):363-376. Ref. Apr.1968. 470 C16C
- 76557 MOORBY, J. The influence of carbohydrate and mineral nutrient supply on the growth of potato tubers. *Ann. Bot. (n.s.)* 32(125):57-68. Ref. Jan.1968. 450 An7  
Studied with radioactive carbon.
- 76558 MUKHIN, V. D. Some peculiarities of pelleting vegetable seeds. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 132:231-235. Ref. 1967. 20 M857  
To stimulate growth.
- 76559 MUKHIN, V. D., and BORISOV, A. A. Using electric current for treatment of vegetable seeds, before planting. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 132:225-230. 1967. 20 M857  
For better growth.
- 76560 NEUMANN, S., and JACOB, F. The uptake of alpha-aminoisobutyric acid by the leaves of *Vicia faba* L. (Ge) *Naturwissenschaften* 55(2):89-90. Feb.1968. 472 N213
- 76561 NISHITA, H., HAUG, R. M., and HAMILTON, M. Influence of minerals on Sr90 and Cs137 uptake by bean plants. *Soil Sci.* 105(4):237-243. Ref. Apr.1968. 56.8 So3
- 76562 NYE, T. G., KERN, C. H., and ALDRICH, R. F. Polyacrylamide gel electrophoresis of *Solanum tuberosum* L. I. Total soluble proteins and polyphenol oxidase activity. *Phytochem.* 7(5):741-743. Ref. May 1968. 450 P5622

- 76563 PARLEVIET, J. E. The influence of sowing date and germination temperature on yield of spinach and chervil [*Anthriscus cerefolium*]. *Neth. J. Agr. Sci.* 16(1):53-57. 1968. 12 N3892
- 76564 PATSCHKE, L., and GRISEBACH, H. Biosynthesis of flavonoids. XVI. Dihydrokaempferol and dihydroquercetin as precursors of kaempferol and quercetin in *Pisum sativum*. *Phytochemistry* 7(2):235-237. Feb. 1968. 450 P5622
- 76565 PAULSEN, G. M., and ROTIMI, O. A. Phosphorus-zinc interaction in two soybean varieties differing in sensitivity to phosphorus nutrition. *Soil Sci. Soc. Amer. Proc.* 32(1):73-76. Ref. Jan./Feb. 1968. 56.9 S03
- 76566 PENOT, M. Stimulative effect of sodium fluoride on tissue permeability to radioactive phosphorus. *Acad. Sci. C. R., Ser. D*, 266(9):885-888. Feb. 26, 1968. 505 P21  
In potatoes, carrots and *Tradescantia viridis*.
- 76567 PIERINGER, A. P., and NEWHALL, W. F. Derivatives of (+)-limonene; affect of chain length in n-alkyl quaternary ammonium derivatives on plant growth-retardant activity. *J. Agr. Food Chem.* 16(3):523-524. May/June 1968. 381 J8223  
Tested on bean plants.
- 76568 PILET, P. E. Effects of fluorine and beta indoleacetic acid on the ribonucleic acid content of lentil roots. (Fr) *Acad. Sci. C. R., Sci. D*, 266(15):1574-1576. Apr. 15, 1968. 505 P21
- 76569 PROANO, V., and GREENE, G. L. Difference in the growth of normal and dwarf mutants of beans (*Phaseolus vulgaris* L.) var. "Mexico 80-R" grown in Hoagland No. 2 solution. (Sp) *Turrialba* 18(1):75-76. Jan./Mar. 1968. 8 T86  
English summary.
- 76570 RAMBOUR, S. Effects of beta indoleacetic on the organic acid content of tissue fragments of Jerusalem artichoke cultivated in vitro. (Fr) *Acad. Sci. C. R., Ser. D*. 266(11):1120-1122. Mar. 11, 1968. 505 P21
- 76571 RAYLE, D. L., and PURVES, W. K. Conversion of indole-3-ethanol to indole-3-acetic acid in cucumber seedling shoots. *Plant Physiol.* 42(8):1091-1093. Aug. 1967. 450 P692
- 76572 REMY, M. Acrotony induction by auxin in pea and growth inhibition of axillary shoots. (Fr) *Acad. Sci. C. R., Ser. D*, 266(5):474-476. Jan. 29, 1968. 505 P21
- 76573 REMY, M. Effect of modification of water movement in the epicotyledons of peas on the growth of auxiliary shoots and their reciprocal influence. (Fr) *Acad. Sci. C. R., Ser. B*. 266(17):676-679. Feb. 12, 1968. 505 P21
- 76574 SANKHLA, D., and SANKHLA, N. Morphactin-gibberellin interaction in lettuce seed germination and seedling growth. *Biol. Plant.* 10(1):37-40. 1968. 450 B52
- 76575 SANKHLA, N., and SANKHLA, D. Reversal of (+)-abscisin II induced inhibition of lettuce seed germination and seedling growth by kinetin. *Physiol. Plant.* 21(1):190-195. Ref. 1968. 450 P564
- 76576 SCHEIDECKER, D., and ANDREPOULOS-RENAUD, U. Effects on calcium nutrition modifications of *Lycopersicon racemigerum* induced by roots or leafstalks, internal concentration of potassium and calcium. (Fr) *Acad. Sci. C. R., Ser. D*, 266(10):1021-1023. Mar. 4, 1968. 505 P21
- 76577 SCHUPHAN, W., and others. Nitrate accumulation in spinach. *Qualitas Plant. Mater. Veg.* 14(4):317-330. Ref. July 28, 1967. 64.8 M41  
B. Bengtsson, I. Bosund, and B. Hylmo, joint authors.
- 76578 SCHWARTZ, J. H., LADE, R. E., and PORTER, W. L. Changes in the polyunsaturated fatty acid content of potato tubers during growth, maturation and storage. *J. Food Sci.* 33(2):115-118. Ref. Mar./Apr. 1968. 389.8 F7322
- 76579 SHAH, B. H., and WEDDING, R. T. Sodium ion influences on phosphorylations associated with oxidation of succinate by turnip root mitochondria. *Science* 160(3825):304-306. Apr. 19, 1968. 470 Sci2
- 76580 SHARGOOL, P. D., and COSSINS, E. A. Isolation and some properties of argininosuccinate lyase from higher plant source. *Can. J. Chem.* 46(5):393-399. Ref. May 1968. 470 C16  
Peas.
- 76581 SHIROKOV, E. P., and USHAKOVA, M. I. Effect of growing conditions of "Amager" cabbage seedlings on differentiation of terminal bud and the amount of losses in storage. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 132:279-283. 1967. 20 M857  
Temperature and planting date.
- 76582 SHISHKOV, K. N., KRYLOV, S. V., and PANOVA, E. P. Effect of the level of underground water in peat soils on the yields and quality of cabbage. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 132:161-166. 1967. 20 M857
- 76583 SIEW, D., and KLEIN, S. The effect of sodium chloride on some metabolic and fine structural changes during the greening of etiolated leaves. *J. Cell Biol.* 37(2):590-595. Ref. May 1968. 442.8 J828  
Of beans.
- 76584 SINGH, S., SINGH, H. D., and SHUKLA, K. C. Distribution of nutrients in the anatomical parts of common Indian pulses. *Cereal Chem.* 45(1):13-18. Ref. Jan. 1968. 59.8 C33  
Investigation on various varieties commonly used as food.
- 76585 SIZOV, V. N. Possibility of using empirical relations in calculating leaf surface and accumulation of organic matter in tomatoes. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 132:203-209. 1967. 20 M857
- 76586 SPURNY, M. Effect of root tip amputation on spiral oscillations of the growing hypocotyl with radicle of the pea (*Pisum sativum* L.). *Biol. Plant.* 10(2):98-111. Ref. 1968. 450 B52
- 76587 SUGIYAMA, T., and others. Structure and function of chloroplast proteins. II-III. *Archiv. Biochem. Biophys.* 125(1):98-113. Apr. 1968. 381 Ar2  
N. Nakayama, M. Ogawa, T. Akazawa and Y. Tanaka, joint authors.
- 76588 SUTCLIFFE, J. F., and SEXTON, R. Beta-glycerophosphatase and lateral root development. *Nature* 217(5135):1285. Mar. 30, 1968. 472 N21  
*Pisum sativum*.
- 76589 TAKAHASHI, T., and LIENER, I. E. Isolation and composition of a glycopeptide from a phytohemagglutinin of *Phaseolus vulgaris*. *Biochim. Biophys. Acta* 154(3):560-564. Ref. Apr. 9, 1968. 381 B522
- 76590 TAKAYANAGI, K., and MURAKAMI, K. Rapid germinability test with exudates from seed. *Nature* 218(5140):493-494. May 4, 1968. 472 N21  
Tested with *Brassica napus*.
- 76591 TARAKANOV, G. I., and SIZOV, V. N. Productivity of tomato photosynthesis, as related to planting density. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 132:195-201. 1967. 20 M857
- 76592 TERPSTRA, W. Interaction of a spinach protein factor with bacteriochlorophyll. *Biochim. Biophys. Acta* 153(3):675-684. Ref. Apr. 2, 1968. 381 B522
- 76593 TREWAVAS, A. The effect of 3-indolylacetic acid on the levels of polysomes in etiolated pea tissue. *Phytochem.* 7(5):673-681. Ref. May 1968. 450 P5622
- 76594 TRIPATHI, B. K. Mineral nutrition and new formation of roots by Jerusalem artichoke tissues cultivated in vitro. (Fr) *Acad. Sci. C. R., Ser. D*. 266(11):1123-1126. Mar. 11, 1968. 505 P21



- 76595 TSUNO, Y., and FUJISE, K. Studies on the dry matter production of sweet potato. 10. An explanation of the determination of dry matter percentage in tubers from the viewpoint of nutrient conditions and dry matter production. (Ja) Crop Sci. Soc. Japan. Proc. 37(1):12-16. Feb. 1968. 22.5 C88  
English summary.  
High yield and starch content in sweetpotato culture.
- 76596 VEDEL, F., and GUITTON, Y. Demonstration of a ribosomal RNA of low molecular weight in young seedlings of *Raphanus sativus* and *Phaseolus vulgaris*. (Fr) Physiol. Plant. 21(1):242-250. Ref. 1968. 450 P564
- 76597 VEDEL, F. Evidence of diversity of ribosomal nucleic acid in the cotyledon leaves of *Cucumis sativus*. (Fr) Acad. Sci. Compte Rendu 266(12):1329-1331. Ref. Mar. 18, 1968. 505 P21
- 76598 WAKITA, S. Thiamine destruction by mushroom. 1. Distribution of thiamine-decomposing factors in mushrooms. (Ja) Agr. Chem. Soc. Jap. J. 42(2):97-101. Feb. 1968. 385 Ag8  
English summary.
- 76599 WALTON, D. C., and SONDEHEIMER, E. Effects of abscisic acid on phenylalanine ammonia-lyase activity in excised bean axes. Plant Physiol. 43(3):467-469. Ref. Mar. 1968. 450 P692
- 76600 WATANABE, K., OZAKI, K., and YASHIKI, T. Studies on the effect of soil physical conditions on the growth and yield of crop plants. 7. Effects of soil air composition and soil bulk density and their interaction on the growth of sweet potato. (Ja) Crop Sci. Soc. Japan. Proc. 37(1):65-69. Feb. 1968. 22.5 C88  
English summary.
- 76601 WATANABE, K., and OZAKI, K. Studies on the effects of soil physical conditions on the growth and yield of crop plants. 8. Effects of aeration treatment on the nutrient absorption and tuberous root formation of sweetpotatoes. (Ja) Crop Sci. Soc. Japan. Proc. 37(1):70-74. Feb. 1968. 22.5 C88  
English summary.
- 76602 YU, M. H., OLSON, L. E., and SALUNKHE, D. K. Precursors of volatile components in tomato fruit. II-III. Phytochemistry 7(4):555-565. Ref. Apr. 1968. 450 P5622  
II, Enzymatic production of carbonyl compounds; III, Enzymatic reaction products.
- 76603 ZUCKER, M. Sequential induction of phenylalanine ammonia-lyase and a lyase-inactivating system in potato tuber disks. Plant Physiol. 43(3):365-374. Ref. Mar. 1968. 450 P692
- Physiology and Biochemistry of Miscellaneous Economic Plants (Coffee, Tea, Cacao, Etc.)
- 76604 ALI-ZADE, M. A., and AKHUNDOVA, E. M. Changes in the content of nucleic acids in leaves of polyploid mulberry varieties. (Rus) Akad. Nauk SSSR. Dokl. 178(3):725-727. Ref. 1968. 511 P444A
- 76605 ANTON, R., and DUQUENOIS, P. Some anthraquinone and flavone components in the leaves of *Cassia marylandica* L. (Cesalpiniaceae). (Fr) Acad. Sci. C. R., Ser. D, 266(14):1523-1525. Ref. Apr. 1, 1968. 505 P21
- 76606 CASPI, E., and LEWIS, D. O. Biosynthesis of plant sterols. IV. An investigation of a possible mode of  $14\beta$ -hydroxylation in digitoxigenin. Phytochem. 7(5):683-691. Ref. May 1968. 450 P5622  
*Digitalis lanata*.
- 76607 CHESTERTON, C. J., and KEKWICK, R. G. O. Formation of 3-isopentenyl monophosphate and pyrophosphate in the latex of *Hevea brasiliensis*. Archiv. Biochem. Biophys. 125(1):76-85. Ref. Apr. 1968. 381 Ar2
- 76608 GOLDFARB, A. R. Separation of new skin reactive antigens from dwarf ragweed [*Ambrosia elatior*] pollens. J. Immunol. 100(4):902-911. Apr. 1968. 448.8 J8232
- 76609 GREEN, M. J. Flotation as a rapid test for tea seed viability. Trop. Agr. 45(2):133-139. Ref. Apr. 1968. 26 T754
- 76610 HARTLING, C. Drug plants on the periphery of pharmacy. (Ge) Acta Phytotherap. 15(2):21-26. Ref. Feb. 1968. 450 Ac88  
Chiefly biochemistry and morphology of *Paris quadrifolia* and *Colchicum autumnale*.
- 76611 HARTREE, E. F. A comparison of horseradish peroxidase and manganese ions as catalysts for the oxidation of dihydroxyfumaric acid. Biochem. J. 107(4):581-587. Ref. Apr. 1968. 382 B52
- 76612 IBANEZ, M. L. The effect of cold on tropical seeds. Turrialba 18(1):73-75. Jan./Mar. 1968. 8 T86  
*Theobroma cacao* and *T. grandiflora*.
- 76613 JACOB, J. L., and AUZAC, J. D'. L-alanine, allosteric inhibitor of the lactate dehydrogenase of the latex of *Hevea brasiliensis*-influence of pH. (Fr) Acad. Sci. C. R., Ser. D, 266(6):631-636. Ref. Feb. 5, 1968. 505 P21
- 76614 KIRKBY, E. A. Influence of ammonium and nitrate nutrition on the cation-anion balance and nitrogen and carbohydrate metabolism of white mustard plants grown in dilute nutrient solution. Soil Sci. 105(3):133-141. Ref. Mar. 1968. 56.8 So3
- 76615 KITO, M., and others. Theanine, a precursor of the phloroglucinol nucleus of catechins in tea plants. Phytochemistry 7(4):599-603. Ref. Apr. 1968. 450 P5622  
H. Kokura, J. Izaki, and K. Sasaoka, joint authors.
- 76616 KORZYBSKI, T., KOWSZYK-GINDIFER, Z., and KURYLOWICZ, W. Antibiotics; origin, nature and properties. Oxford, Pergamon Press, 1967. 2 v. RM267.K63  
English translation of his *Antybiotyki; Pochodzenie, Rodzaje i Wlasciwosci*.  
Plant sources included.
- 76617 MARKHAM, M. C., and LIAAEN-JENSEN, S. Carotenoids of higher plants. I. The structure of lycopanthin and lycophyll. Phytochem. 7(5):839-844. Ref. May 1968. 450 P5622  
*Solanum dulcamara*.
- 76618 NETIEN, G. KOZJEK, F., and FAVRE, M. C. In vitro culture of stem tissues of *Periploca graeca* L. (Fr) Paris. Soc. Biol. Compt. Rend. (8/9):1718-1720. Feb. 26, 1968. 442.9 P21
- 76619 NICHOLSON, J. A., and others. Para-xylylenedicyanide and related compounds, weakly cytotoxic nitriles. Experientia 24(3):251-252. Mar. 15, 1968. 475 Ex7  
C. H. Jarboe, W. Haddon, and F. W. McLafferty, joint authors.  
Isolated from *Viburnum opulus*.
- 76620 RUDOLF, E. VON. Gas-liquid chromatography of terpenes. XVI. The volatile oil of the leaves of *Juniperus ashei* Buchholz. Can. J. Chem. 46(5):679-683. Ref. Mar. 1, 1968. 470 C16B
- 76621 RYAZANTSEVA, M. T., and others. Change of temperature and moisture of castorbean seeds in the process of double ventilation. (Rus) Maslo-Zhir. Prom. 2:4-7. Feb. 1968. 307.8 M37  
I. P. Anastasiadi, V. M. Kopeikovskii, and L. G. Nebroeva, joint authors.  
Thermal treatment for better germination.
- 76622 SANTAVY, F., HRBEK, J., and BLAHA, K. Isolation and chemistry of the alkaloids from some plants of the genus *Papaver*. XLI. Ord-curve of rhoeadine and related substances. Collect. Czech. Chem. Commun. 32(12):4452-4459. Ref. Dec. 1967. 385 C68
- 76623 SCALA, J., PATRICK, C., and MACBETH, G. Castor bean FDPase [fructose-1,6-diphosphatase] from endosperm tissue: properties and partial purification. Life Sci. 7(8,pt2):407-412. Ref. Apr. 15, 1968. 442.8 L62

- 76624 SHADAKSHARASWAMY, M., and RAMACHANDRA, G. Changes in the oligosaccharides and the galactosidase content of coffee seeds during soaking and germination. *Phytochem.* 7(5):715-719. Ref. May 1968. 450 P5622
- 76625 SINSHEIMER, J. E., and others. Isolation and antiviral activity of the gymnemic acids. *Experientia* 24(3):302-303. Ref. Mar. 15, 1968. 475 Ex7  
G. S. Rao, H. M. McIlhenny, R. V. Smith, H. F. Maassab, and K. W. Cochran, joint authors.  
Isolated from *Gymnema sylvestre*.
- 76626 TAKEDA, K., HORIBE, I., and MINATO, H. Components of the root of *Lindera strychnifolia*. XIV. *Chem. Soc. J. C, Org.* 5:569-572. Ref. 1968. QD241.C5  
Lactones.
- 76627 TAKEMOTO, T., and others. Absolute configuration of inokosterone, an insect-moulting substance from *Achyranthes fauriei*. *Tetrahedron Lett.* 20:2475-2478. Ref. Mar. 1968. 385 T29  
Y. Hikino, S. Arihara, H. Hikino, S. Ogawa, and N. Nishimoto, joint authors.
- 76628 THOMPSON, M. J., and BOWERS, W. S. Lupeol and 30-norlupan-3 $\beta$ -ol-one from the coating of the castor bean (*Ricinus communis* L.). *Phytochem.* 7(5):845-847. May 1968. 450 P5622
- 76629 TUPY, J., and RESING, W. L. Anaerobic respiration in latex of *Hevea brasiliensis* substrate and limiting factors. *Biol. Plant.* 10(1):72-80. Ref. 1968. 450 B52
- 76630 VESTER, F., and others. Study of the components of *Viscum album*. II. Isolation and purification of the carcinostatic protein fractions. (Ge) *Hoppe-Seyler's Z. Physiol. Chem.* 349(2):125-147. 1968. 384 Z38  
A. Seel, M. Stoll, and J. M. Muller, joint authors.  
English summary.
- 76631 WADA, K., and MUNAKATA, K. Naturally occurring insect control chemicals; isoboldine, a feeding inhibitor, and cocculolidine, an insecticide in the leaves of *Cocculus trilobus* DC. *J. Agr. Food Chem.* 16(3):471-474. May/June 1968. 381 J8223
- 76632 YOSHIDA, T., HIGASHI, F., and IKAWA, S. On the oil containing tissue, the essential oil contents, and the chemical composition of essential oil in *Perilla* species. (Ja) *Crop Sci. Soc. Japan. Proc.* 37(1):118-122. Feb. 1968. 22.5 C88
- 76633 YOSHIDA, T., TAKAICHI, K., and KAMEOKA, K. On the tissue containing the essential oil and the oil yield of *Cinnamomum* species leaves. (Ja) *Crop Sci. Soc. Japan. Proc.* 37(1):112-117. Feb. 1968. 22.5 C88  
English summary.
- Physiology and Biochemistry of Forest Trees**
- 76634 ALFIERI, F. J., and EVERT, R. F. Seasonal development of the secondary phloem in *Pinus*. *Amer. J. Bot.* 55(4):518-528. Ref. Apr. 1968. 450 Am36  
*Pinus banksiana*, *P. resinosa*, and *P. strobus*.
- 76635 ASHBY, W. C., and BAKER, M. B. Soil nutrients and tree growth under black locust [*Robinia pseudoacacia*] and shortleaf pine [*Pinus echinata*] overstories in strip-mine plantings. *J. Forest.* 66(1):67-71. Ref. Jan. 1968. 99.8 F768
- 76636 AVANZO, E. Biometric investigation of flower buds of a bisexual *Populus deltoides* Marsh. (Fr) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.2:72-76. 1967. 99.9 In82
- 76637 BADANOVA, K. A., and VARTAPETYAN, B. B. Water-permeability of the protoplasm of resting buds in arboreal plants. (Rus) *Akad. Nauk SSSR. Dokl.* 176(2):476-477. Ref. 1967. 511 P444A  
*Tilia cordata*, *Betula verrucosa* and *Acer platanoides*.
- 76638 BAKSHI, B. K., and KUMAR, D. Forest tree mycorrhiza. *Indian Forest.* 94(1):79-84. Ref. Jan. 1968. 99.8 In2  
Symbiotic aspects and importance in forestry.
- 76639 BARTELS, H. Investigations on enzyme extractions from tannin-rich leaf organs of forest trees. (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.2:551-556. 1967. 99.9 In82  
*Fagus sylvatica*.
- 76640 BERBEN, J. C. Root development on Podzol soils. (Fr) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.4:65-73. 1967. 99.9 In82
- 76641 BILAN, M. V. Effect of low temperature on root elongation in loblolly pine [*Pinus taeda*] seedlings. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.4:74-82. 1967. 99.9 In82
- 76642 BORCHERT, R. Aging and vegetative reproduction. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.2:129-143. Ref. 1967. 99.9 In82  
Trees.
- 76643 BOVIS, C. P., and BRIGGS, G. E. Salt relations of woody tissues. I. Experiments with disks of wood. *Roy. Soc. Proc. Ser. B, Biol. Sci.* 169(1017):379-397. Mar. 26, 1968.  
*Salix alba* and *Taxus baccata*.
- 76644 BRIX, H. Influence of light intensity at different temperatures on rate of respiration of Douglas-fir seedlings. *Plant Physiol.* 43(3):389-393. Ref. Mar. 1968. 450 P692
- 76645 BROWN, C. L., and LAWRENCE, R. H. Culture of pine callus on a defined medium. *Forest Sci.* 14(1):62-64. Mar. 1968. 99.8 F7632  
*Pinus palustris*.
- 76646 CANDY, H. A., MCGARRY, E. J., and PEGEL, K. H. Constituents of *Syzygium cordatum*. *Phytochem.* 7(5):889-890. Ref. May 1968. 450 P5622
- 76647 DE PHILIPPIS, A. Factors affecting the rooting of poplars. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.2:156-160. 1967. 99.9 In82
- 76648 DOMANSKI, R., and KOZLOWSKI, T. T. Variations in kinetin like activity in buds of *Betula papyrifera* and *Populus balsamifera* during release from dormancy. *Can. J. Bot.* 46(4):397-403. Ref. Apr. 1968. 470 C16C
- 76649 DRIESSCHE, R. van den, and others. A portable meter for measuring impedance of tree seedling stems. *Forest. Chron.* 44(2):35-36. Apr. 1968. 99.8 F7623  
K. H. Austin, M. B. Balderston, and A. G. Stewart, joint authors.  
Electrical resistance measurement in *Pseudotsuga menziesii* in relation to frost hardness.
- 76650 DURZAN, D. J., and CHALUPA, V. Free sugars, amino acids, and soluble proteins in the embryo and female gametophyte of jack pine [*Pinus banksiana*] as related to climate at the seed source. *Can. J. Bot.* 46(4):417-428, map. Ref. Apr. 1968. 470 C16C
- 76651 ELLIOTT, G. K. Some problems of spiral grain—with special reference to conifers. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.9:413-435. Ref. 1967. 99.9 In82  
Physiological aspects.
- 76652 FEENY, P. P., and BOSTOCK, H. Seasonal changes in the tannin content of oak [*Quercus robur*] leaves. *Phytochem.* 7(5):871-880. Ref. May 1968. 450 P5622
- 76653 FOWDEN, L., and SMITH, A. Newly characterized amino acids from *Aesculus californica*. *Phytochem.* 7(5):809-819. Ref. May 1968. 450 P5622
- 76654 FRISON, G. Study of rooting of cuttings of *Populus deltoides* Bartr. with low rooting capacity. (Fr) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.2:278-298. 1967. 99.9 In82  
English summary.



- 76655 FUNAIOLI, A. Observations of the root systems of *Populus euroamericana* "I-214" at ground water level of various depth of soils. (Fr) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:621-635. 1967. 99.9 In82
- 76656 GAUSSEN, H. Drought resistance in xerophilous trees. (Fr) Rev. Forest. Franc. 20(1):15-19. Jan.1968. 99.8 R329  
Coniferae.
- 76657 GIERTYCH, M., and FOBER, H. Variation among Norway spruce [*Picea abies*] of Polish provenances in seedling growth and nitrogen uptake. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:536-550. Ref. 1967. 99.9 In82
- 76658 GINDEL, I. Cambial activity as a function of the intensity of transpiration in *Pinus halepensis* Mill. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.4:188-206. Ref. 1967. 99.9 In82
- 76659 GIORDANO, E. Observations on the root system of *Eucalyptus globulus*. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.4:207-224. Ref. 1967. 99.9 In82
- 76660 GOLFARI, L. Water balance according to Thornthwaite as a guide for establishing analogous climates; some examples in *Pinus radiata* D. Don. (Sp) World Symp. Man-Made Forests Indus. Import. [Position Paper] 4a/3, 9 p. 1967. SD391.W6 1967a  
English summary.
- 76661 HARRIS, J. M. The causes of spiral grain in the corewood of radiata pine [*Pinus radiata*]. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.9:363-383. Ref. 1967. 99.9 In82  
Physiological aspects.
- 76662 HEJNOWICZ, Z. Changes in anatomy and physiology of the cambium as related to spiral grain development. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.9:352-362. Ref. 1967. 99.9 In82  
Trees.
- 76663 HELLMERS, H. Controlled environments for measuring early responses of tree seedlings to temperature. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:491-514. Ref. 1967. 99.9 In82  
*Sequoia sempervirens* and *Picea engelmannii* studied.
- 76664 HERMANN, R. K., and LAVENDER, D. P. Physiological changes in dormant Douglas-fir seedlings and their implications for nursery and planting practices. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:270-277. Ref. 1967. 99.9 In82
- 76665 HODCENT, E. Evolution of the pollen tube till the formation of two spermic nucleus in *Araucaria araucana*. Acad. Sci. C. R., Ser. D, 266 (9):878-881. Feb.26,1968. 505 P21
- 76666 HYUN, S. K. Physiological differences among trees with respect to rooting. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:168-190. Ref. 1967. 99.9 In82  
Various factors considered.
- 76667 KAWAZU, K., OHIGASHI, H., and MITSUI, T. The piscicidal constituents of *Calophyllum inophyllum* Linn. (Ge) Tetrahedron Lett. 19: 2383-2385. Mar.1968. 385 T29
- 76668 KELLER, T. Contribution to the knowledge of root respiration of young conifer plants. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.4:329-340. Ref. 1967. 99.9 In82  
English summary.  
Includes effects of temperature.
- 76669 KELLER, T. The effect of mulching in forest nurseries on the gaseous exchange of young spruce. (Ge) Forstwiss. Centralbl. 87(1):1-8. Ref. Feb.1968. 99.8 F775  
English summary.  
Photosynthesis, transpiration and root respiration following sewage mulching.
- 76670 KUMMEROW, J., and SCHMIDT, H. Development of needle fascicles of *Pinus radiata* under the effect of cytokinins and environmental factors. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:144-155. Ref. 99.9 In82  
English summary.  
Includes 6-furfurylaminopurine and 6-benzylaminopurine.
- 76671 LAVARENNE, S. Comparative growth of stems and roots of young oak grown under controlled conditions. (Fr) Acad. Sci. C. R., Ser. D, 266 (8):778-780. Feb.19,1968. 505 P21
- 76672 LEYTON, L. Continuous recording of sap flow rates in tree stems. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.1:240-251. Ref. 1967. 99.9 In82
- 76673 LISTER, G. R., and others. The growth and physiology of *Pinus strobus* L. seedlings as affected by various nutritional levels of nitrogen and phosphorus. Ann. Bot. (n.s.)32(125): 33-43. Ref. Jan.1968. 450 An7  
V. Slankis, G. Krotkov, and C. D. Nelson, joint authors.  
Tested with radioactive carbon.
- 76674 LULL, H. W., and REIGNER, I. C. Radiation measurements by various instruments in the open and in the forest. U. S. Forest Serv. Res. Paper NE-84, 21 p. 1967. A99.9 F7622Un  
Solar radiation absorbed by *Pinus* spp. and *Quercus* spp.
- 76675 MATZKE, E. B. Autumn coloration in the dawn redwood, *Metasequoia glyptostroboides* Hu & Cheng. Torrey Bot. Club. Bull. 95(2):199. Mar./Apr.1968. 451 T63B
- 76676 MIKOLA, P. The effect of mycorrhizal inoculation on the growth and root respiration of Scotch pine seedlings. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.5:100-111. Ref. 1967. 99.9 In82
- 76677 MOEN, A. N. Thermal energy exchange of a birch tree [*Betula papyrifera*] and a spruce tree [*Picea glauca*] at night. Ecology 49(1): 145-147. Winter 1968. 410 Ec7
- 76678 NAGY, I. Investigations on frost susceptibility of *Pseudotsuga menziesii* [Mirb.] Franco seedlings. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:596-601. 1967. 99.9 In82
- 76679 NAKANO, T., and COROThIE, E. Constituents of the bark of *Sickingia klugii* (Standl). Phytochem. 7(5):891. May 1968. 450 P5622
- 76680 OSTROWSKI, S. Ground waters and their effect on the development of pine stands. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.1:387-399. 1967. 99.9 In82
- 76681 OWSTON, P. W. Multiple flushing in eastern white pine [*Pinus strobus*]. Forest Sci. 14(1): 66-67. Mar.1968. 99.8 F7632
- 76682 PAAVILAINEN, E. Relationships between the root system of Scots pine and the air content of peat. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:299-307. 1967. 99.9 In82
- 76683 PATON, D. M., and WILLING, R. R. Bud dormancy in *Populus*. Australian J. Biol. Sci. 21 (1):157-159. Feb.1968. 442.8 Au72  
Experiments conducted in a phytotron.
- 76684 PROSZT, S. Changes in nutrient uptake of forest plants in nurseries during the vegetation period. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:636-644. 1967. 99.9 In82  
Nitrogen, phosphorus and potassium.
- 76685 RIFFLE, J. W., and SPRINGFIELD, H. W. Hydrogen peroxide increases germination and reduces microflora on seed of several south-western woody species. Forest Sci. 14(1):96-101. Mar.1968. 99.8 F7632
- 76686 ROMBERGER, J. A. Flowering as a problem in developmental physiology. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:2-14. Ref. 1967. 99.9 In82  
Trees.

- 76687 SARVAS, R. Climatological control of flowering in trees. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:15-30. Ref. 1967. 99.9 In82
- 76688 SARVAS, R. Pollen dispersal within and between subpopulations; role of isolation and migration in microevolution of forest tree species. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:332-345. Ref. 1967. 99.9 In82
- 76689 SOBOTKA, A. The influence of industrial exhalations on the structure of nutrient roots of Norway spruce (*Picea excelsa* Link.). Int. Union Forest. Res. Organ. Papers, 14th Congr., v.5:532-535. Ref. 1967. 99.9 In82
- 76690 SON, D. S., and CHO, R. M. The growth performance of  $\chi$  *P. alba-glandulosa* F1 hybrid. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. 9(2):109-116. Ref. Dec.1966. 22.5 K843  
English summary.
- 76691 STEPHENS, G. R. Assimilation by Kadam (*Anthocephalus cadamba*) in laboratory and field. *Turrialba* 18(1):60-63. Ref. Jan./Mar. 1968. 8 T86  
Photosynthesis and respiration.
- 76692 STONE, E. C. A nursery-conditioned root growth response to the field environment. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:248-264. Ref. 1967. 99.9 In82  
*Pinus ponderosa*.
- 76693 STRANSKY, J. J., and WILSON, D. R. Soil moisture and texture affect root and shoot weights of transplanted pine seedlings. U. S. Forest Serv. Res. Note SO-62,3 p. 1967. A99.9 F7628U  
*Pinus echinata* and *P. taeda*.
- 76694 SWANSON, R. H. Improving tree transpiration estimates based on heat pulse velocity measurements. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.1:252-263. 1967. 99.9 In82
- 76695 THAS, J. Influence of X-rays on the fresh weight and the total chlorophyll content of *Picea abies* Karst. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:645-653. Ref. 1967. 99.9 In82
- 76696 THIEME, H. Isolation and elucidation of a new flavonol glucoside from the leaves of *Salix alba* L. (Ge) *Tetrahedron Lett.* 19:2301-2303. Mar.1968. 385 T29  
With the proposed name of alboside.
- 76697 THIEME, H. On the flavone glycosides of leaves of *Salix repens* L.; isolation and elucidation of the composition of caesioside. (Ge) *Tetrahedron Lett.* 23:2781-2783. Apr.1968. 385 T29
- 76698 THOMPSON, J. F., and MORRIS, C. J. Conversion of 5-hydroxylysine to 5-hydroxyisopicolinic acid in honey locust [*Gleditsia triacanthos*] leaves. *Archiv. Biochem. Biophys.* 125(1):362-366. Ref. Apr.1968. 381 Ar2
- 76699 UYEO, S., and others. The structure and the stereochemistry of abieslactone. *Tetrahedron* 24(7):2859-2880. Ref. Apr.1968. 382 T29  
J. Okada, S. Matsunaga, and J. W. Rowe, joint authors.  
Triterpenoid from the bark and leaves of *Abies mariesii*.
- 76700 VAN MIEGROET, M. Artificial lighting and gas exchange; means in research of tree species. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.4:412-424. 1966. 99.9 In82  
Includes respiration and photosynthesis study in *Quercus petraea* and *Q. borealis*.
- 76701 VAN TUIL, H. D. W. The organic-salt content of trees in relation to their growth. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.4:579-596. Ref. 1967. 99.9 In82
- 76702 VITTE, J. P. Water construction and spiral grain; causes and effects. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.9:338-351. Ref. 1967. 99.9 In82  
Trees.
- 76703 WEBB, C. D. Interlocked grain in *Liquidambar styraciflua* L. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.9:398-412. 1967. 99.9 In82  
Physiological aspects.
- 76704 WERKER, E., and FAHN, A. Site of resin synthesis in cells of *Pinus halepensis* Mill. *Nature* 218(5139):388-389. Apr.27,1968. 472 N21
- 76705 WILCOX, H. Seasonal patterns of root initiation and mycorrhizal development in *Pinus resinosa* Ait. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.5:29-39. 1967. 99.9 In82
- 76706 WILCOX, J. R. Sweetgum [*Liquidambar styraciflua* L.] seed stratification requirements related to winter climate at seed source. *Forest Sci.* 14(1):16-19, map. Mar.1968. 99.8 F7632
- 76707 WILSON, B. F., and HOWARD, R. A. A computer model for cambial activity. *Forest Sci.* 14(1):77-90. Ref. Mar.1968. 99.8 F7632  
*Pinus strobus* and *P. resinosa*.
- 76708 ZELAWSKI, W. Variation in the photosynthetic efficiencies of trees with special reference to Scots pine/*Pinus silvestris* L. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:515-535. Ref. 1967. 99.9 In82
- 76709 ZIMMERMANN, M. H. Translocation of sugars and amino acids in relation to flowering in trees. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:31-37. 1967. 99.9 In82

## AGRONOMY (FIELD CROPS)

- 76710 ALI, S. I. Correlation between seed weight and breeding system in closely related amphimictic taxa. *Nature* 218(5140):492-493. Ref. May 4, 1968. 472 N21
- 76711 ALLEN, G. H. Studies on irrigated crops in the north. *Queensland Agr. J.* 94(1):40-42. Jan.1968. 23 Q33  
Changes in cultivation practices.
- 76712 ANDERSON, L. P. 1968 spring planting schedule; major South Carolina field crops. *Clemson Univ. Ext. Inform. Card* 107, rev., chart. Jan. 1968. 275.29 So81  
Culture.
- 76713 BOGUSLAWSKI, E. VON. Purpose of international long-term investigations and partial results. II. (Ge) *Z. Acker- Pflanzenbau* 127(1):20-39, map. Ref. Jan.1968. 18 J825  
Agronomy statistical method.
- 76714 CADY, F. B., and FULLER, W. A. Use of regression residuals in the calculation of orthogonal polynomial coefficients. *Agron. J.* 60(2):195-197. Mar./Apr.1968. 4 Am34P  
Possible applications in agronomic research.
- 76715 CROP SCIENCE SOCIETY OF AMERICA. Annual meeting, Washington, D. C., November 6-9, 1967. *Crop Sci.* 8(1):133-142. Jan./Feb. 1968. 64.8 C883
- 76716 CROP SCIENCE SOCIETY OF AMERICA. Registration of field-crop cultivars, parental lines, and elite germ plasm. *Crop Sci.* 8(2):261-262. Mar./Apr.1968. 64.8 C833
- 76717 DERSCHIED, L. A., and WESTIN, F. C. Soil atlas and crop production guide for North Central South Dakota. S. Dak. State Univ. Ext. Circ. 660, 53 p., map. Feb.1968. 275.29 So85  
Includes weather.
- 76718 EHARA, K., IKEDA, H., and NATA, Y. Studies on mist-culture by the fogbox. II. Different effects of mist-culture and hydroponics on the growth of several crops. (Ja) *Crop Sci. Soc. Japan. Proc.* 36(2):219-223. June 1967. 22.5 C88  
English summary.
- 76719 HANSEN, L., and KJELLERUP, C. M. Experiments with crop rotation on marsh land. (Da) *Tidsskr. Planteavl* 71(4):444-455. 1968. 11 T439  
English summary.  
Yields.



- 76720 ILLINOIS. UNIVERSITY. COOPERATIVE EXTENSION SERV. IN AGRICULTURE AND HOME ECONOMICS. Illinois agronomy handbook 1968. Ill. Univ. Ext. Circ. 976,38 p.,map. Dec.1967. 275.29 IL62C
- 76721 LEONARD, W. H., LOVE, R. M., and HEATH, M. E. Crop terminology today. Crop Sci. 8(2): 257-261. Mar./Apr.1968. 64.8 C833
- 76722 LOUISIANA. AGRICULTURAL EXPERIMENT STATION. Report of projects, Department of Agronomy, for 1967. Baton Rouge, 1968? 275 p. 100 L936
- 76723 NETHERLANDS. RIJKSCOMMISSIE VOOR DE SAMENSTELLING VAN DE RASSENLIJST VOOR LANDBOUWGEWASSEN. 43e Beschrijvende Rassenlijst voor Landbouwgewassen [43d descriptive list of varieties for field crops, 1968]. Wageningen, 1968. 328 p. 105.2 W1222
- 76724 SAMVIRKENDE JYDSKE HUSMANDSFØREN-INGER. PLANTEAVLSUDVALGET. Planteavlten [Crop culture], 1967. Aarhuus, 1968. 208 p., map. 451 Sa4
- 76725 SAMVIRKENDE LOLLAND-FALSTERSKE LANDBOFORENINGER. PLANTEAVLSUDVAL-GET. Beretning om planteavlssarbejdet [Report on crop culture], 1967. Nykøbing, 1968. 123 p. 11 Sa43
- 76726 SERDYUKOV, A. Contribution of agronomists to the improvement of productional technology. (Rus) Zemledelie 4:14-17. Apr.1968. 20 Z44
- 76727 SIEMER, E. G., and WOOD, D. R. A versatile, bibliographic punched card system for ag-ronomists. Agron. J. 60(2):244-246. Mar./Apr. 1968. 4 Am34P
- 76728 TOLMAN, B. Crops for the best rotation. U I (Utah-Idaho) Cult. 28(1):2-6. Spring 1968. 66.8 U12
- 76729 VAN DOREN, D. M., and others. Ohio high crop yield demonstrations, 1967. Ohio. Rep. Res. Develop. Biol. Agr. Home Econ. 53(2):19-20. Mar./Apr.1968. 100 Oh3S  
L. N. Shepherd, A. J. Baxter, and M. E. Kroetz, joint authors.
- 76730 WAGENINGEN. INSTITUUT VOOR RASSE- NONDERZOEK VAN LANDBOUWGEWASSEN. Jaarverslag [Annual report of the Institute for Research on Varieties of Field Crops], 1967. Wageningen, 1968. 57 p. 64.9 W12Ja
- 76731 WILKOWSKIE, H. H. New plant varieties de-veloped by the Florida Agricultural Experiment Stations. Sunshine State Agr. Res. Rep. [Fla. Sta.] 13(1):4,58-59. Jan.1968. 100 F66Su  
List of new varieties chiefly of field crops, fruit and vegetables.
- 76736 BRANTLEY, B., and ZEMAN, L. E. These research ideas could send corn yields sky-rocketing. Big Farmer 40(3):60-61,64. 1968. 58.8 B46  
Culture.
- 76739 BREVEDAN, G. Corn hybrids and programmed seed production. (It) Ital. Agr. 105(2):159-165. Feb.1968. 16 It1
- 76740 BUNTING, E. S. Maize in Europe. Field Crop Abs. 21(1):1-9. Ref. Feb.1968. 241 C73  
Review of the literature.  
Cultural aspects.
- 76741 CHAPMAN, W. H. Florida oat varieties utilize diverse sources of breeding material. Sun-shine State Agr. Res. Rep. [Fla. Sta.] 13(1):12-14. Jan.1968. 100 F66Su  
Selection for disease resistance.
- 76742 CRAIG, J. Maize pathology. Sols Afr. 12(2/3): 111-113. Apr./Dec.1967. 56.8 So4  
Breeding for resistance to Cochliobolus hete-rostrophus and Puccinia polysora.
- 76743 CRANE, P. L., and NASS, H. G. Performance of commercial dent corn hybrids in Indiana, 1964-1967. Ind. Agr. Exp. Sta. Res. Bull. 841, 11 p.,map. Jan.1968. 100 In2P
- 76744 CRUMPACKER, D. W., and others. Perform-ance test of corn hybrids grown in various re-gions of Colorado in 1967. Colo. Agr. Exp. Sta. Gen. Ser. 868,23 p. Mar.1968. 100 C71G  
W. B. Kelly, J. F. Swink, and J. C. Hoff, joint authors.  
Not available free from issuing agency. Photo-copies may be ordered from the National Agri-cultural Library.
- 76745 DAY, A. D., THOMPSON, R. K., and MCCAU-GHEY, W. F. Effects of clipping on the per-formance of spring barley (*Hordeum vulgare* L. emend lam) seed in October. Agron. J. 60(1): 11-12. Ref. Jan./Feb.1968. 4 Am34P
- 76746 DOGGETT, H. A bulk breeding method in sor-ghum. Sols Afr. 12(2/3):125-128. Apr./Dec. 1967. 56.8 So4
- 76747 DOGGETT, H., and EBERHART, S. A. Recur-rent selection in sorghum. Crop Sci. 8(1):119-121. Jan./Feb.1968. 64.8 C883  
Methods developed for breeding.
- 76748 DOGGETT, H. Sorghum in East Africa. Sols Afr. 12(2/3):115-117. Apr./Dec.1967. 56.8 So4  
Chiefly breeding.
- 76749 DUNIN, M. S. Significant trend. (Rus) Zashch. Rast. 3:2-4. 1968. 421 Z1  
In breeding wheat varieties resistant to rust.
- 76750 EBONG, U. U. Maize breeding progress re-port 1965-67. Sols Afr. 12(2/3):107-109. Apr./Dec.1967. 56.8 So4  
Nigeria.
- 76751 EFIMENKO, T. M., and BUTCHENKO, I. I. In-tervarietal breeding of winter wheat for seeds. (Rus) Selekt. Semenovodstvo 1:22-25. Jan./Feb.1968. 61.9 Se5
- 76752 FONSECA, S., and PATTERSON, F. L. Hybrid vigor in a seven-parent diallel cross in com-mon winter wheat (*Triticum aestivum* L.). Crop Sci. 8(1):85-88. Jan./Feb.1968. 64.8 C883
- 76753 GOIJON, C. Effect of maleic hydrazide on the expression of fertility of hexaploid wheat; use of the effect obtained for the selection of hybrid wheats. (Fr) Acad. Sci. C. R., Ser. D. 266(6): 586-589. Feb.5,1968. 505 P21
- 76754 HENDRIX, W. E., NAIVE, J. J., and ADAMS, W. E. Accelerating India's food grain produc-tion 1967-68 to 1970-71: Requirements and prospects for a yearly growth rate of 5 percent. U. S. D. A. Foreign Agr. Econ. Rep. 40,28 p., map. Ref. Mar.1968. A281.9 Ag8F
- 76755 HORNER, E. S., and others. Better corn hy-bbrids for Florida. Sunshine State Agr. Res. Rep. [Fla. Sta.] 13(1):10-11. Jan.1968. 100 F66Su  
W. H. Chapman, M. C. Lutrick, and H. W. Lundy, joint authors.

### Cereals

- 76732 ALLAN, A. Y. Maize diamonds; some valuable results from the district husbandry trials in 1966. Kenya Farmer 138:18-19. Jan.1968. 24 R812  
Culture.
- 76733 ANDERSON, C. H. A comparison of annual crops for seed and residue in the semi-arid region of western Canada. Can. J. Plant Sci. 48(3):287-291. May 1968. 450 C16  
Tests with grain and oil crops.
- 76734 ARTYKHODZHAEV, T. Effect of planting method in furrows on yields of corn. (Rus) Zemledelie 4:12-13. Apr.1968. 20 Z44
- 76735 BAKER, R. J. Genotype-environment interac-tion variances in cereal yields in western Cana-da. Can. J. Plant Sci. 48(3):293-298. Ref. May 1968. 450 C16
- 76736 BARSUKOV, A. Effect of sowing rate on yields of spring wheat. (Rus) Zemledelie 4:12-13. Apr.1968. 20 Z44
- 76737 BIACSI, I., and VACZI, D. Native cultivation experiments for single crossed hybrids. (Hu) Magyar Mezogazdasag 23(4):7. Jan.24,1968. 19 M27  
Corn.

- 76756 JACQUOT, M. Progress report on the work of maize selection at the IRAT station of Sefa in Casamance, Senegal. *Sols Afr.* 12(2/3):225-229. Apr./Dec.1967. 56.8 So4  
Text also in French, p.219-223.
- 76757 JOHNSON, V. A., SCHMIDT, J. W., and MATTERN, P. J. Cereal breeding for better protein impact. *Econ. Bot.* 22(1):16-25. Ref. Jan./Mar.1968. 450 Ec7  
Corn, sorghum and wheat.
- 76758 JOHNSON, V. A., SHAFER, S. L., and SCHMIDT, J. W. Regression analysis of general adaptation in hard red winter wheat (*Triticum aestivum* L.). *Crop Sci.* 8(2):187-191. Mar./Apr.1968. 64.8 C833
- 76759 JOHNSTON, W. H. Paragon, a new variety of malting barley. *Can. J. Plant Sci.* 48(3):339-340. May 1968. 450 C16
- 76760 KUZNETSOVA, S. E. Varieties resistant to rust. (Rus) *Zashch. Rast.* 3:18-19. 1968. 421 Z1  
Wheat.
- 76761 LE CONTE, J. Brief report on maize in Dahomey. *Sols Afr.* 12(2/3):189-197. Apr./Dec. 1967. 56.8 So4  
Text also in French, p.179-187.  
Culture.
- 76762 LE CONTE, J. Brief report on sorghum in Dahomey. *Sols Afr.* 12(2/3):173-178. Apr./Dec.1967. 56.8 So4  
Text also in French, p.167-172.  
Culture.
- 76763 LODEN, H. D. Sorghum, a look into the future. *Seed World* 102(4):14-15. Feb.23,1968. 61.8 Se52  
Breeding.
- 76764 LONNQUIST, J. H. Further evidence on test-cross versus line performance in maize. *Crop Sci.* 8(1):50-53. Ref. Jan./Feb.1968. 64.8 C883
- 76765 LOSHAK, I. F., LOGACHEV, N. D., and SKÜLKINA, T. A. Breeding spring barley in the northern Kazakhstan. (Rus) *Selek. Semenovodstvo* 1:25-28. Jan./Feb.1968. 61.9 Se5
- 76766 MCMULLAN, J. L., FISHER, H. M., and PARISH, J. A. Swan oats. West. Australia. *Dep. Agr. J.* (ser.4)8(12):499-501. Dec.1967. 23 W52J  
Variety.
- 76767 MILLER, M. I grow 10 kinds of corn. *Org. Gard. Farming* 15(2):34-39. Feb.1968. 57.8 Or32  
Minnesota.
- 76768 MYHILL, R. R., and NILAN, R. A. Technique for space planting wet barley seeds in the field. *Crop Sci.* 8(1):125-126. Jan./Feb.1968. 64.8 C883
- 76769 NABOS, J. Brief report on millet and sorghum in Niger. (Fr) *Sols Afr.* 12(2/3):199-203. Apr./Dec.1967. 56.8 So4  
Culture.
- 76770 NASYPAIKO, V. M., and BELOUS, G. A. To the problem of productive qualities of seeds. (Rus) *Selek. Semenovodstvo* 1:46-52. Jan./Feb.1968. 61.9 Se5  
Wheat; as affected by agricultural practices.
- 76771 NIEHAUS, M. H., and SCHMIDT, W. H. Ohio grain sorghum performance tests for 1967. *Ohio Agr. Res. Develop. Cent. Agron. Dep. Ser.* 206,12 p. Jan.1968. 100 Oh32  
Bird resistant hybrids.
- 76772 PETERS, L. V. Bulrush millet (pearl millet) *Pennisetum typhoides* in Uganda and East Africa. *Sols Afr.* 12(2/3):153-157. Apr./Dec.1967. 56.8 So4  
Culture.
- 76773 QUEENSLAND. DEPT. OF PRIMARY INDUSTRIES, DIV. OF PLANT INDUSTRY. AGRICULTURE BR. Wheat and barley varieties for this season. *Queensland Agr. J.* 94(2):69-71. Feb.1968. 23 Q33
- 76774 ROGERS, H. V., and NOLAN, C. N. Plan to make high corn yields. *Clemson Univ. Ext. Inform. Card* 113, rev., 4 p. Feb.1968. 275.29 So8I  
Culture.
- 76775 RUSSELL, W. A., and EBERHART, S. A. Testcrosses of one- and two-ear types of corn belt maize inbreds. I-II. *Crop Sci.* 8(2):244-251. Ref. Mar./Apr.1968. 64.8 C833
- 76776 SANDERSON, E. E., and WOOD, L. S. Oat production in South Dakota. *S. Dak. State Univ. Ext. FS* 384, 4 p. Jan.1967. 275.29 So85Fs  
Culture.
- 76777 SANDERSON, E. E., and WOOD, L. S. Spring wheat production. *S. Dak. State Univ. Ext. FS* 383, 6 p.-folder. Jan.1968. 275.29 So85Fs  
Culture.
- 76778 SCHOOLER, A. B. Cytoplasmic sterility and the production of hybrid barley seed. *N. Dak. Farm Res.* 25(3):10. Jan./Feb.1968. 100 N813B
- 76779 SIMS, H. J., and PATTON, C. T. For the Mallee and Wimmera, a bigger-yielding barley variety named Weeah. *J. Agr. [Melbourne]* 66(2):60-61. Feb.1968. 23 V66J
- 76780 SMOCEK, J. Phenotypic, genotypic and environmental correlations of quantitative characters in winter wheat. *Biol. Plant.* 10(2):146-155. Ref. 1968. 450 B52  
In relation to breeding.
- 76781 SOUTH DAKOTA. STATE UNIVERSITY. CO-OPERATIVE EXTENSION SERV. Small grain production; a summary of recommendations. *S. Dak. State Univ. Ext. FS* 392, chart. Feb.1968. 275.29 So85Fs
- 76782 SOUTH DAKOTA. STATE UNIVERSITY. CO-OPERATIVE EXTENSION SERV. Sorghum and soybean production guide; a summary of recommendations. *S. Dak. State Univ. Ext. FS* 394, 6 p.-folder, map. Feb.1968. 275.29 So85Fs
- 76783 SUGAHARA, T., and HAYASHI, Y. Fundamental studies on yield forecast for rice plants. 15. Characters of rice yield-components in the order of culm length through the practical simplified survey method. 5. (Ja) *Crop Sci. Soc. Japan. Proc.* 36(2):129-132. June 1967. 22.5 C88  
English summary.
- 76784 SUGAHARA, T., and HAYASHI, Y. Fundamental studies on yield forecast for rice plants. 16. Decision on the selected panicles used for the simplified survey method. (Ja) *Crop Sci. Soc. Japan. Proc.* 36(2):133-137. June 1967. 22.5 C88  
English summary.
- 76785 TRIPLETT, G. B., and RASK, N. Corn is being planted in sod. *Hoards Dairyman* 113(9):583, 609. May 10,1968. 44.8 H65
- 76786 TRIPLETT, G. B., VAN DOREN, D. M., and SCHMIDT, B. L. Effect of corn (*Zea mays* L.) stover mulch on no-tillage corn yield and water infiltration. *Agron. J.* 60(2):236-239. Ref. Mar./Apr.1968. 4 Am34P
- 76787 TVERDOKHLEB, N. S. Wheat varieties resistant to stem rust. (Rus) *Selek. Semenovodstvo* 1:68-69. Jan./Feb.1968. 61.9 Se5
- 76788 UL'RIKH, N. N. Size of seeds as related to grain productivity. (Rus) *Selek. Semenovodstvo* 1:52-57. Jan./Feb.1968. 61.9 Se5
- 76789 WATSON, I. A., and MCWHIRTER, K. S. A bulk method of producing hybrid wheat. *Crop Sci.* 8(1):124-125. Jan./Feb.1968. 64.8 C883  
For hybrid seed production.



- 76790 WESTERN AUSTRALIA, DEPT. OF AGRICULTURE. Recommended barley and oat varieties for 1968. West. Australia. Dep. Agr. J. (ser.4) 8(12):495-497, map. Dec.1967. 23 W52J
- 76791 WESTERN AUSTRALIA, DEPT. OF AGRICULTURE. Recommended wheat varieties, 1968. West. Australia. Dep. Agr. J. (ser.4) 8(11):454-455, map. Nov.1967. 23 W52J
- 76792 YAMAMOTO, T., and TORIYAMA, K. Effect of planting density on relation between yield and some agronomic traits in direct-seeded rice plants. Jap. J. Breeding. 18(1):27-32. Ref. Feb.1968. 64.8 J27
- 76793 YAMAZAKI, W. T., DONELSON, J. R., and BRIGGLE, L. W. Micro-tests for soft wheat quality evaluation. Crop Sci. 8(2):199-201. Ref. Mar./Apr.1968. 64.8 C833
- 76794 ZUBER, M. S. Date-of-planting studies with corn in central Missouri. Mo. Agr. Exp. Sta. Bull. B 868, 34 p. Jan.1968. 100 M693  
U. S. Department of Agriculture, cooperating.

#### Fiber Crops

- 76795 BEARD, B. H., and WORKER, G. F. Variance components for irrigated seed flax (*Linum usitatissimum* L.) yield trials. Crop Sci. 8(1):129-130. Jan./Feb.1968. 64.8 C883
- 76796 BUTYLIN, S. D. Breeding methods of the cotton elite seeds. (Rus) Selekt. Semenovodstvo 1: 44-45. Jan./Feb.1968. 61.9 Se5
- 76797 CHEPIKOV, M. S., TARASOV, A. V., and NAZIROV, KH. N. Planting of hemp, flax, and kenaf. (Rus) Len Konoplya 3:25-28. 1968. 73.8 L542
- 76798 DEMKIN, A. P. Spring planting requires good quality seeds. (Rus) Len Konoplya 2:24-25. 1968. 73.8 L542  
Flax.
- 76799 GRAVES, C. R., and others. 1963-66 performance of cotton varieties harvested by hand and spindle-picked. Tenn. Agr. Exp. Sta. Bull. 433, 74 p. Oct.1967. 100 T25S  
P. E. Hoskinson, J. R. Overton, and T. McCutchen, joint authors.  
Quality and yield.
- 76800 HAWKINS, B. S., and PEACOCK, H. A. Effect of skip-row culture on agronomic and fiber properties of upland cotton (*Gossypium hirsutum* L.) varieties. Agron. J. 60(2):189-191. Mar./Apr.1968. 4 Am34P
- 76801 HUBBARD, J. L. Performance of cotton varieties, Lower Rio Grande Valley Research and Extension Center, 1963-67. Tex. Agr. Exp. Sta. MP-870, 2 p. Feb.1968. 100 T31M
- 76802 IL'ENKO, G. V. Effect of the preceding crops on yields. (Rus) Len Konoplya 3:29-30. 1968. 73.8 L542  
Of flax.
- 76803 MARANI, A. Heterosis and F<sub>2</sub> performance in intraspecific crosses among varieties of *Gossypium barbadense* L. Crop Sci. 8(1):111-113. Ref. Jan./Feb.1968. 64.8 C883
- 76804 MENZEL, K. C. Contribution to the problem of testing varieties and new breeds of flax. (Ge) Fibra 12(3):21-34. Dec.1967. 73.8 F44  
East Germany.
- 76805 NAZYROV, KH. N., and D'YAKONOVA, E. V. Agricultural practices applied to kenaf in the spring. (Rus) Len Konoplya 2:26-27. 1968. 73.8 L542
- 76806 NILES, G. A., and RICHMOND, T. R. Release of primary breeding stocks of cotton. Tex. Agr. Exp. Sta. MP-867, 2 p. Jan.1968. 100 T31M
- 76807 ROGERS, H. V., NOLAN, C. N., and HARVEY, L. H. Produce quality cotton in South Carolina. Clemson Univ. Ext. Cotton Leaflet. 1, rev., 8 p.-folder. Feb.1968. 275.29 So86C

- 76808 UL'YANOVA, N. P. Results of the studying samples of flax collection. (Rus) Selekt. Semenovodstvo 1:76. Jan./Feb.1968. 61.9 Se5
- 76809 WIENK, J. F. The possibilities of breeding long fibre agaves with a high rate of leaf unfurling and a high rate of increase in leaf length. Neth. J. Agr. Sci. 16(1):12-20. 1968. 12 N3892
- 76810 WJNACKER, R. P. The influence of harvesting time on flax yields. (Du) Fibra 12(3):13-20. Dec.1967. 73.8 F44  
English summary.  
Netherlands.

#### Forage Crops and Grasses

- 76811 ARMITT, J. D. The farm weed taint story. 2. Queensland Agr. J. 94(2):96-101. Feb.1968. 23 Q33  
Dairy pasture management and weed control.
- 76812 BARTA, A. L., and TEARE, I. D. Forage density gauging with Sr<sup>90</sup> for estimating green forage yield in situ. Crop Sci. 8(1):53-54. Jan./Feb.1968. 64.8 C883
- 76813 BLOKHAM, L. R. Smiling farmland won from the wild at Te Anau. New Zealand J. Agr. 116 (4):50, 53, 55, 57. Apr.1968. 23 N48J  
Conversion of waste land to grassland.
- 76814 BROWN, K. R. The influence of herbage height at treading and treading intensity on the yields and botanical composition of a perennial ryegrass [*Lolium perenne*]-white clover pasture. New Zeal. J. Agr. Res. 11(1):131-137. Feb. 1968. 23 N4892
- 76815 BRYANT, H. T., and BLASER, R. E. Effects of clipping compared to grazing of Ladino clover-orchardgrass [*Dactylis glomerata*] and alfalfa-orchardgrass mixtures. Agron. J. 60(2):165-166. Ref. Mar./Apr.1968. 4 Am34P  
Effects on yields.
- 76816 CASSIDY, G. J. Pastures that help dairymen to succeed. 3. Queensland Agr. J. 94(1):43-52. Jan.1968. 23 Q33  
Cultivation and varieties of grasses and legumes.
- 76817 CULLEN, N. A., and MCDONALD, I. R. Red clover seed production; results of trials in Otago. New Zealand J. Agr. 116(4):79, 81. Apr. 1968. 23 N48J
- 76818 CUMBERLAND, G. L. B., and NONORE, E. N. Trial shows effects on production of stocking and fertiliser rates. New Zeal. J. Agr. 116(3): 34-35, 37, 39, 41. Mar.1968. 23 N48J  
Sheep.
- 76819 DINU, I., NICA, V., and ISACU, C. Organization of fodder base teams in agricultural units. (Rum) Rev. Zooteh. Med. Vet. 18(3):23-30. Mar.1968. 49 P943  
English summary.
- 76820 DOBOSZYNSKI, L. Research on a few species of grasses grown for seed in mixtures with birdsfoot trefoil (*Lotus corniculatus* L.). Water Econ. [Selec. Articles] 20(9):451-453. 1966. (TT 63-11363) HDI697.P7S4  
Translation from Gospodarka Wodna 20(9): 432. 1960.  
Issued by CFSTI.
- 76821 EDWARDSON, J. R. Breeding lupines. Sunshine State Agr. Res. Rep. [Fla. Sta.] 13(1):7-9. Jan.1968. 100 F66Su
- 76822 ENGLAND, F. Non-sward densities for the assessment of yield in Italian ryegrass. II. Convenient plot and block size and shape. J. Agr. Sci. 70(2):105-108. Apr.1968. 10 J822
- 76823 EVANS, D. W. Sudangrass and sorghum-sudangrass hybrid variety trials. Wash. Agr. Exp. Sta. Circ. 482, 8 p. Mar.1968. 100 W27S
- 76824 GIMESI, A. Results of defoliation of alfalfa seed crop. (Hu) Budapest. Novenyvedelmi Kutato Intezet. Evkon. 10:57-71. Ref. 1965/1967. 423.92 B85  
English summary.  
With reglone.

- 76825 HORNER, E. S. Adapting alfalfa to Florida. Sunshine State Agr. Res. Rep. [Fla. Sta.] 13(1): 9. Jan.1968. 100 F66Su
- 76826 IVENS, G. W. Notes on the UNDP/FAO Kenya Range Management Project. PANS (Pest Articles News Sum.) Sect. C. Weed Contr. 14(1):16-22. Mar.1968. 79.9 C792
- 76827 JELINOWSKA, A. A comparison of yields of alfalfa from various sources under conditions of Poland. (Pol) Nowe Roln. 17(3):12-14. Feb.1/15,1968. 20.5 N86
- 76828 JENKINS, G. Naked oats [*Avena nuda*]. N.A. A.S. (Nat. Agr. Adv. Serv.) Quart. Rev. 79:120-126. Ref. Spring 1968. 241 G796  
As forage plant.
- 76829 JOHNSON, B. J., and HARRIS, H. B. Effects of seeding rates on production and other characteristics of sorghum types for silage. Ga. Agr. Exp. Sta. Res. Rep. 17,10 p. Oct.1967. S51.E22
- 76830 JONES, D. W. Bahiagrass in Florida. Fla. Univ. Ext. Circ. 321,9 p.-folder. Jan.1968. 275.29 F66C
- 76831 KOZICKA-NOWAK, E., and DZIADOSZ, M. The Grodkowicki comfrey. (Pol) Nowe Roln. 17(3):8-10. Feb.1/15,1968. 20.5 N86  
*Symphytum asperum*.
- 76832 KRETSCHMER, A. E. Planting information on *S. humilis*. Fla. Agr. Exp. Sta. Indian River Field Lab. Mimeo Rep. IRL 68-1,2 p. Feb.26, 1968. 100 F664  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.  
*Stylosanthes*.
- 76833 KUTSENKO, E. F. Breeding elite seeds of vetch. (Rus) Selek. Semenovodstvo 1:42-44. Jan./Feb.1968. 61.9 Se5
- 76834 MAJEWSKI, A. New varieties of feed lupine and prospects of its cultivation. (Pol) Nowe Roln. 17(3):14-16. Feb.1/15,1968. 20.5 N86
- 76835 MEDVEDEV, P. F. Breeding methods of perennial grasses in the northwestern zone. (Rus) Selek. Semenovodstvo 1:34-37. Jan./Feb.1968. 61.9 Se5
- 76836 MUKHINA, N. A. New foreign varieties of birdsfoot deervetch. (Rus) Selek. Semenovodstvo 1:37-39. Jan./Feb.1968. 61.9 Se5
- 76837 NEWELL, L. C. Effects of strain source and management practice on forage yields of two warm-season prairie grasses. Crop Sci. 8(2): 205-210, map. Ref. Mar./Apr.1968. 64.8 C833  
Nebraska.
- 76838 NICZYPORUK, A. Estimation of green forage yields in grassland experiments. (Pol) Nowe Roln. 17(5):33-35. Mar.1/15,1968. 20.5 N86
- 76839 OCHI, M., and MUROGA, T. Study of regeneration of ladino clover. 2. Regeneration of ladino clover according to cutting intervals and its seasonal variation. (Ja) Crop Sci. Soc. Japan. Proc. 36(2):145-150. June 1967. 22.5 C88  
English summary.
- 76840 O'TOOLE, M. A. Grassland research on blanket peat in Ireland. Brit. Grassland Soc. J. 23 (1):43-50. Ref. Mar.1968. 60.19 B773  
Grass and legumes varieties and culture.
- 76841 PEDERSEN, M. W. Seed number and position in the pod in relation to crossing in alfalfa, *Medicago sativa* L. Crop Sci. 8(2):263-264. Mar./Apr.1968. 64.8 C833
- 76842 PHILLIPS, R. L., and KEIM, W. F. Seed pod dehiscence in *Lotus* and interspecific hybridization involving *Lotus corniculatus* L. Crop Sci. 8(1):18-21. Jan./Feb.1968. 64.8 C883
- 76843 QUEENSLAND, DEPT. OF PRIMARY INDUSTRIES, DIV. OF PLANT INDUSTRY. AGRICULTURE BR. Grazing oats in Queensland. Queensland Agr. J. 94(2):72-75. Feb.1968. 23 Q33  
Planting date and varieties.
- 76844 RAGLESS, D. C., and COLEMAN, W. O. Growing lucerne for seed. S. Australia J. Agr. 71(7): 240-249. Feb.1968. 23 So84
- 76845 RHYKERD, C. L., and others. Managing alfalfa-grass mixtures for yield and protein. Ind. Agr. Exp. Sta. Res. Bull. 839,7 p. Nov.1967. 100 In2P  
C. H. Noller, J. E. Dillon, J. B. Ragland, B. W. Crowl, G. C. Naderman, and D. L. Hill, joint authors.  
*Bromus inermis*, *Dactylis glomerata* and *Pleum pratense*.
- 76846 SCHANK, S. C. Breeding grasses for resistance to pangolagrass stunt virus. Sunshine State Agr. Res. Rep. [Fla. Sta.] 13(1):6-7. Jan. 1968. 100 F66Su
- 76847 SHAKUDO, K., and YASUMURO, Y. Interaction of planting density and genotype in yield and its component characteristics of ladino clover (*Trifolium repens* L. race *Gigantum*). (Ja) Jap. J. Breeding 18(1):22-26. Ref. Feb.1968. 64.8 J27  
English summary.
- 76848 SORENSON, J. W., and PERSON, N. K. Harvesting and drying selected forage crops. Tex. Agr. Exp. Sta. B-1071,16 p. Ref. Nov.1967. 100 T315  
Alfalfa and grasses.
- 76849 STASZEWSKI, Z. A new variety of ladino clover. (Pol) Nowe Roln. 17(3):10-12. Feb.1/15, 1968. 20.5 N86
- 76850 SVADS, H. Variety trials with fodder beets 1962-1965. (No) Forsk. Forsok Landbruket 19 (1):57-66. 1968. 11 F772  
English summary.
- 76851 TARUMOTO, I., and OIZUMI, H. Studies on forage sorghum breeding. 3. The practical use of male-sterile lines and the search for promising types and groups as pollen parents. (Ja) Jap. J. Breeding 18(1):41-45. Ref. Feb.1968. 64.8 J27  
English summary.
- 76852 TOWNSEND, C. E., and others. Response of zigzag clover genotypes to management practices. Can. J. Plant Sci. 48(3):273-279. May 1968. 450 C16  
A. D. Dotzenko, K. R. Storer, and F. E. Edlin, joint authors.
- 76853 U. S. AGRICULTURAL RESEARCH SERV. CROPS RESEARCH DIV. Varieties of alfalfa. U. S. D. A. Farmers' Bull. 2231, rev., 12 p. Mar.1968. 1 Ag84F
- 76854 UNDERWOOD, J. K., and GRAY, E. Registration of Cumberland sudangrass. Crop Sci. 8 (1):130-131. Jan./Feb.1968. 64.8 C883
- 76855 VALBERG, E. Experiments in establishing leys in Nordland County. (No) Forsk. Forsok Landbruket 19(1):9-41. Ref. 1968. 11 F772  
English summary.
- 76856 VAN RENSBURG, H. J. Growth and seasonal composition of natural grassland in Zambia. Brit. Grassland Soc. J. 23(1):51-52. Mar.1968. 60.19 B773  
Chiefly yields and composition in relation to varieties.
- 76857 VAS DO REGO, L., and DAVIES, W. The grasslands of the Azores. Brit. Grassland Soc. J. 23(1):40-42. Mar.1968. 60.19 B773  
Management.
- 76858 VEZEKENYI, E. Protein rich forage culture on sandy soils. (Hu) Magyar Mezogazdasag 23(17):10. Apr.24,1968. 19 M27

#### Oil Crops

- 76859 BOYLE, L. W. A factorial study of certain schemes of peanut culture. Ga. Agr. Exp. Sta. Res. Bull. 18,19 p. Nov.1967. S51.E2
- 76860 BROCK, W. A. Soybeans—supplement to tung growing. Amer. Tung News 19(4):8-9. Apr. 1968. 307.8 Am33



## Sugar Crops

- 76861 CAVINESS, C. E., WALTERS, H. J., and RIGGS, R. D. Soybean variety performance trials in Arkansas, 1961 to 1966. Ark. Agr. Exp. Sta. Rep. Ser. 168, 28 p. Ref. Feb. 1968. 100 Ar42R
- 76862 CRITTENDEN, H. W., and others. The green vegetable soybean Verde. Soybean Dig. 28(7): 8, Apr. 1968. 60.38 So9  
E. M. Rahn, E. L. Wisk, and C. W. Woodmansee, joint authors.
- 76863 CULP, T. W. BAILEY, W. K., and HAMMONS, R. O. Natural hybridization of peanuts, *Arachis hypogaea* L., in Virginia. Crop Sci. 8(1):109-111. Ref. Jan./Feb. 1968. 64.8 C883
- 76864 EMERY, D. A., and GUPTON, C. L. Reproductive efficiency of Virginia type peanuts. II. (Fr) *Oleagineux* 23(2):99-104. Ref. Feb. 1968. 77.8 OL2
- 76865 HANWAY, J. J., and THOMPSON, H. E. How a soybean plant develops. Iowa. Agr. Exp. Sta. Spec. Rep. 53, 18 p. Nov. 1967. 100 Io9Sp  
An aid to efficient cultivation.
- 76866 HINSON, K. Breeding better soybeans. Sunshine State Agr. Res. Rep. [Fla. Sta.] 13(1):16-19. Jan. 1968. 100 F66Su
- 76867 KLOCZOWSKI, Z. Why is it necessary to cultivate the oil sun-flower? (Pol) *Nowe Roln.* 17(3):7. Feb. 1/15, 1968. 20.5 N86
- 76868 KONECHNYI, V., and YARUSHIN, A. Planting soybeans in wide strips. (Rus) *Zemeledlie* 4: 55. Apr. 1968. 20 Z44
- 76869 LENG, E. R. Soybeans, potential for extension to areas of protein shortage. Econ. Bot. 22(1): 37-41. Jan./Mar. 1968. 450 Ec7  
Varieties for cultivation.
- 76870 NORDEN, A. J. Peanut breeding. Sunshine State Agr. Res. Rep. [Fla. Sta.] 13(1):14-15. Jan. 1968. 100 F66Su
- 76871 PROBST, A. H., and others. Soybean varieties for Indiana. Ind. Agr. Exp. Sta. Res. Progr. Rep. 324, 4 p. Jan. 1968. 100 In2Res  
F. A. Laviolette, J. R. Wilcox, and K. L. Athow, joint authors.  
U. S. Department of Agriculture, cooperating.
- 76872 ROGERS, H. V., and others. How to grow more high quality soybeans. Clemson Univ. Ext. Circ. 501, rev., 4 p., map. Feb. 1968. 275.29 So8E  
C. N. Nolan, F. H. Smith, W. C. Nettles, M. C. McKenzie, and C. A. Thomas, joint authors.
- 76873 SCHUTZ, W. M., BRIM, C. A., and USANIS, S. A. Inter-genotypic competition in plant populations. I. Feedback systems with stable equilibria in populations of autogamous homozygous lines. Crop Sci. 8(1):61-66. Ref. Jan./Feb. 1968. 64.8 C883  
A linear model to predict variety performance of soybeans and other plants in bulk-population breeding.
- 76874 SHANE, J. F., and others. Results of the Kentucky soybean performance tests, 1967. Ky. Agr. Exp. Sta. Progr. Rep. 173, 18 p., map. Feb. 1968. 100 K41Pr  
C. Tutt, S. H. Phillips, and J. W. Herron, joint authors.
- 76875 VAN RHEENEN, H. A. Harvesting of shattering sesame (*Sesamum indicum* L.). Trop. Sci. 9(4): 204-210. Ref. 1967, pub. 1968. 26 T756  
Methods used in Nigeria.
- 76876 WOOD, J. R. Soybean research, Rich-Pasture Research and Extension Center, 1967. Tex. Agr. Exp. Sta. Progr. Rep. PR-2529, 6 p. Feb. 27, 1968. 100 T31P
- 76877 WOOTEN, P. Soybean yields can move up. Farm Quart. 23(3):68, 122. Summer 1968. 44.8 Am38  
Culture.
- 76878 BELYAEV, L. E. Advantages and disadvantages of the wide interrows. (Rus) *Sakh. Svekla* 3:28-29. Mar. 1968. 66.8 Su393  
Planting of sugar beets.
- 76879 BRONNER, H. Experiences in the sowing of pelleted sugar beet seed in Upper Austria. (Ge) *Z. Zuckerindus.* 18(2):67-69. Feb. 20, 1968. 65.8 D48  
English summary.
- 76880 CHERNAVSKII, N. P., UDOVICHENKO, I. M., and KAZARTSEV, A. I. Application of the tightening method in planting seed sugar beets. (Rus) *Sakh. Svekla* 4:25-26. Apr. 1968. 66.8 Su393
- 76881 DOBROTORTSEVA, A. V. Planting density of seed sugar beets. (Rus) *Sakh. Svekla* 4:24-25. Apr. 1968. 66.8 Su393
- 76882 DU TOIT, J. L. The secret of high sugar yields. 3. Varieties, pests, and diseases. (Af) *S. Afr. Sugar J.* 52(1):43, 45, 47. Jan. 1968. 65.8 So8  
Sugarcane.
- 76883 GNATYUK, A. M. Even distribution of sugar beet plants. (Rus) *Sakh. Svekla* 4:21-22. Apr. 1968. 66.8 Su393
- 76884 GRAND, F. L. E. Sugarcane variety program. Sunshine State Agr. Res. Rep. [Fla. Sta.] 13(1): 20-21. Jan. 1968. 100 F66Su
- 76885 GREKOV, M. A. More attention to the crop rotation. (Rus) *Sakh. Svekla* 4:2-4. Apr. 1968. 66.8 Su393  
Sugar beet culture.
- 76886 HAWAIIAN SUGAR PLANTERS' ASSOCIATION. EXPERIMENT STATION. 1967 annual report. Honolulu, 1968. 71 p. 100 H31R  
Sugarcane.
- 76887 KAMINSKI, E. Care of sugar beet plants. (Pol) *Nowe Roln.* 17(5):10-13. Mar. 1/15, 1968. 20.5 N86
- 76888 KOBYLINSKI, S. Efficiency of new technology of sugar beet growing. (Pol) *Nowe Roln.* 17(5):3-6. Mar. 1/15, 1968. 20.5 N86
- 76889 KOELLING, M. R., and BLUM, B. M. Controlling taphole depth in maple sap production research. U. S. Forest Serv. Res. Note NE-61, 4 p. 1967. A99.9 F7622U
- 76890 KORZHENKO, N. P. Calibrating seed sugar beets. (Rus) *Sakh. Svekla* 4:26-27. Apr. 1968. 66.8 Su393  
Before planting.
- 76891 MATVIENKO, A. V. Applying agricultural practices to obtain even stands and uniform germination. (Rus) *Sakh. Svekla* 4:19-20. Apr. 1968. 66.8 Su393  
Sugar beets.
- 76892 MCFARLANE, J. S. Elimination of downy mildew as a major sugarbeet disease in the coastal valleys of California. Plant Dis. Rep. 52(4): 297-299. Apr. 1968. 1.9 P69P  
Caused by *Peronospora schachtii*; breeding for resistance.
- 76893 NARTOV, V. I., and KURBATOV, T. T. Lgov Experiment-Breeding Station [L'govskaya Opytno-Selektsionnaya Stantsiya]. (Rus) *Sakh. Svekla* 3:10-13. Mar. 1968. 66.8 Su393  
Chiefly research programs on sugar beets.
- 76894 REVUKA, V. S. The width of interrows. (Rus) *Sakh. Svekla* 4:18-19. Apr. 1968. 66.8 Su393  
Planting of sugar beets.
- 76895 RYNDYCH, L. P., and ARKHIPTSEVA, V. I. Cropping plan in the grain-sugar beet rotation of crops. (Rus) *Sakh. Svekla* 4:17-18. Apr. 1968. 66.8 Su393
- 76896 STEINMETZ, H. Monogerm seed makes sugar beet culture without thinning possible. (Ge) *Traktor Landmasch.* 30(4):201. Mar. 1, 1968. 58.8 T678Ag
- 76897 USHAKOV, A. F., and DYKHENKO, I. I. Planting of sugar beets. (Rus) *Sakh. Svekla* 3: 17-19. Mar. 1968. 66.8 Su393

Tobacco

- 76898 AMICK, R. J., and ALLISON, J. R. Pre-harvest field operations and costs in growing flue-cured tobacco in Georgia. Ga. Agr. Exp. Sta. Res. Bull. 432 p., map. Apr. 1967. S51.E2
- 76899 AMICK, R. J., and ALLISON, J. R. Procurement and costs of flue-cured tobacco plants in Georgia. Ga. Agr. Exp. Sta. Res. Bull. 2,26 p., map. Mar. 1967. S51.E2  
Includes culture.
- 76900 AMIROV, M. B. Growing tobacco on the collective farms in the Chechen-Ingush ASSR. (Rus) Tabak 1:47-49. 1968. 69.8 T112
- 76901 DEAN, C. E. Black shank resistance in tobacco. Sunshine State Agr. Res. Rep. [Fla. Sta.] 13(1):21-23. Jan. 1968. 100 F66Su  
Breeding for resistance to *Phytophthora parasitica nicotianae*.
- 76902 EVANS, W. The crop more valuable than gold. Farm Quart. 23(3):40-43. Summer 1968. 6 F2295  
Production of hybrid burley tobacco seed.
- 76903 LITTON, C. C., and STOKES, G. W. Registration of Ky 170 tobacco. Crop Sci. 8(1):131. Jan./Feb. 1968. 64.8 C883
- 76904 NOGUCHI, K., AKIMOTO, Y., and KITAMURA, T. Studies on the cover-culture of tobacco. 2. The analysis of growth changing the durations and the materials of the cover. (Ja) Crop Sci. Soc. Japan. Proc. 37(1):7-11. Feb. 1968. 22.5 C88  
English summary.  
Chiefly for frost protection, with plastic film or coated paper covering.
- 76905 NOGUCHI, K., YAMANAKA, H., and MIKI, H. Studies on the cover culture of tobacco. 3. The environmental conditions in coverings. (Ja) Crop Sci. Soc. Japan. Proc. 37(1):123-128. Feb. 1968. 22.5 C88  
English summary.  
Plastic and coated paper coverings.
- 76906 OGDEN, W. B. Registration of Havana 501 and Havana 503 tobaccos. Crop Sci. 8(1):131 A. Jan./Feb. 1968. 64.8 C883
- 76907 STOKES, G. W., and VALLEAU, W. D. Registration of Ky 10 and Ky 12. Crop Sci. 8(1):131 B. Jan./Feb. 1968. 64.8 C883  
Tobacco varieties.

HORTICULTURAL CROPS

- 76908 FEDERER, Z. Gardening in Netherlands. (Cz) Zahradnicke Listy 61(2):47-48. 1968. 80 Z12
- 76909 FOREST, B. The role of research. (Fr) Agriculture [Montreal] 25(1):11-14, 27. Mar. 1968. 7 Ag82  
In the improvement of horticultural crops production in Canada.
- 76910 HELLYER, A. G. L. Mist propagation. Roy. Hort. Soc. J. 93(3):110-113. Mar. 1968. 84 L84J
- 76911 HUNGERBUHLER, K. What to do with empty fertilizer bags of plastic? (Ge) Schweiz. Z. Obst- Weinbau 104(4):99. Feb. 17, 1968. 80 Sch9  
Horticultural uses.
- 76912 ROYAL HORTICULTURAL SOCIETY. Annual general meeting, February 20, 1968. Roy. Hort. Soc. J. 93(4):147-165. Apr. 1968. 84 L84J
- 76913 BUDAGOVSKII, V. I. Culture of the dwarf fruit. (Rus) Sadovodstvo 2:46. Feb. 1968. 80 Sa13  
In the USA.
- 76914 BURMISTROV, A. D. Fruit culture in the USA. (Rus) Sadovodstvo 2:44. Feb. 1968. 80 Sa13
- 76915 CHERNYAEV, I. P. Cultural practices of the fruit nurseries in the Stavropol Territory. (Rus) Sadovodstvo 2:21. Feb. 1968. 80 Sa13
- 76916 CHOLEWINSKA, B. Poradnik ogrodnicy [Gardening manual]. Warszawa, Panstwowe Wydawnictwo Rolnicze i Lesne, 1967. 522 p. Ref. SB453.3.P7C4 1967  
Fruit and vegetables.
- 76917 DRAGANTSEV, A. P. Restoring fruit orchards. (Rus) Sadovodstvo 3:20. Mar. 1968. 80 Sa13
- 76918 HERTZ, L. B., and STUSHNOFF, C. Fruit for the home. Minn. Univ. Ext. Ext. Bull. 255, 35 p., map. 1968. 275.29 M66S  
Culture.
- 76919 LEPEŠKA, J. Palm-form by grafting. (Cz) Zahradnicke Listy 61(2):58-59. 1968. 80 Z12  
Fruit.
- 76920 PETERSON, R. M., and MARTIN, D. Fruit varieties for South Dakota. S. Dak. State Univ. Ext. FS 398, 2 p., map. Mar. 1968. 275.29 S65Fs
- 76921 PIENIAZEK, S. A. New sources of important genes for fruit breeding. (Ge) Indus. Obst-Gemüseverwertung 53(5):111-113. Mar. 7, 1968. 389.8 K832
- 76922 SCARAMUZZI, F. Evolution of fruit tree pruning. (It) Ital. Agr. 105(1):71-85. Jan. 1968. 16 It1
- 76923 SCARAMUZZI, F. Multiplication of fruit trees by direct planting. (It) Ital. Agr. 105(2):135-146. Feb. 1968. 16 It1  
Cuttings.
- 76924 TARASENKO, M. T. The role of nurseries in the intensified fruit growing. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 132:17-23. 1967. 20 M857

Citrus and Subtropical Fruits

- 76925 AFONJA, B. Analysis of a uniformity trial on cassava. Exp. Agr. 4(2):135-141. Apr. 1968. 10 Ex72
- 76926 AGNEW, G. W. J. Growing quality papaws in Qld. [Queensland]. Queensland Agr. J. 94(1):24-36. Jan. 1968. 23 Q33
- 76927 CAMPBELL, C. W., and MALO, S. E. Three decades of tropical fruit improvement in Florida. Sunshine State Agr. Res. Rep. [Fla. Sta.] 13(1):39-40. Jan. 1968. 100 F66Su
- 76928 DE LA PUERTA CASTELLO, C. Notes on a trip to Italy. (Sp) Agricultura [Madrid] 429:9-13. Jan. 1968. 15 Ag84  
Olive culture.
- 76929 GORIBERIDZHE, A. A. Citrus culture in Algeria. (Rus) Sadovodstvo 1:44-45. Jan. 1968. 80 Sa13
- 76930 KNORR, L. C. Improving the underpinnings of citrus. Sunshine State Agr. Res. Rep. [Fla. Sta.] 13(1):36-37. Jan. 1968. 100 F66Su  
Breeding lemon rootstocks.
- 76931 KREZDORN, A. H. Growing figs in the South for home use. U. S. D. A. Home Gard. Bull. 87, slightly rev., 11 p., map. Jan. 1968. 1 Ag84Hg
- 76932 MCCARTY, C. D., BROWN, G. K., and BURKNER, P. F. Designing tree and orchard for mechanical harvest. Calif. Citrogr. 53(7):251, 260-262, 264-268. May 1968. 80 C125  
Chiefly planting and pruning methods.
- 76933 MORETTINI, A. The new olive culture; from tradition to economic reality. (It) Ital. Agr. 105(1):3-30. Ref. Jan. 1968. 16 It1
- 76934 PIERINGER, A. P. The Citrus Experiment -- Station Grapefruit Improvement Program. Sunshine State Agr. Res. Rep. [Fla. Sta.] 13(1):35. Jan. 1968. 100 F66Su
- 76935 REITZ, H. J. Florida-California citriculture compared in talk at Orange Show. Calif. Citrogr. 53(6):228-230, 232-237. Apr. 1968. 80 C125

Fruit - General



- 76936 REUTHER, W., and others. Citrus variety improvement program provides wide benefits. Calif. Citrogr. 53(7):275-280. (Concl.) Ref. May 1968. 80 C125  
E. C. Calavan, E. M. Nauer, and C. N. Roistacher, joint authors.  
Chiefly disease resistance research.
- 76937 VAKILI, N. G. A new way of banana breeding. (Ge) Umschau 68(5):154. Feb. 29, 1968. 474 Um7
- 76938 WHITEHEAD, R. A., and SMITH, R. W. Results of a coconut spacing trial in Jamaica. Trop. Agr. 45(2):127-132. Ref. Apr. 1968. 26 T754
- Deciduous Fruits
- 76939 ANFINOGENOV, G. V. Pear on quince tree in the Moscow Region. (Rus) Sadovodstvo 1:25. Jan. 1968. 80 Sa13
- 76940 BEKETOVSKAYA, E. A. Effectiveness of grafting. (Rus) Sadovodstvo 1:24. Jan. 1968. 80 Sa13  
Quinces.
- 76941 CHAIKOVSKAYA, Z. P. Vegetative reproduction of quinces. (Rus) Sadovodstvo 1:23. Jan. 1968. 80 Sa13  
By cuttings.
- 76942 DANILOV, A. I. Rooting ability of apple cuttings, obtained from different parts of crown and stem. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 132:49-54. Ref. 1967. 20 M857
- 76943 GABRIEL'YAN-BEKETOVSKAYA, E. A. New quince varieties. (Rus) Sadovodstvo 3:29-30. Mar. 1968. 80 Sa13
- 76944 GALUSHKA, I. F., and RYASNOI, V. M. Economic effectiveness of the special pruning. (Rus) Sadovodstvo 2:13. Feb. 1968. 80 Sa13  
Apples.
- 76945 GRASSELLY, C. The plum "P. domestica" rootstocks for peach-trees; study and improvement of grafting compatibility of their seedlings. (Fr) Ann. Amelior. Plantes 18(1):59-73. 1968. 14 F8499A  
English summary.
- 76946 HANSEN, C. M., LARSEN, R. P., and MONROE, G. Hedge pruning of fruit trees. Mich. Agr. Exp. Sta. Quart. Bull. 50(3):331-341. Feb. 1968. 100 M585  
Chiefly peaches.
- 76947 INDENKO, I. Joining ability of the quince variety Il'inka. (Rus) Sadovodstvo 1:26. Jan. 1968. 80 Sa13  
As rootstock for pear.
- 76948 KARPOV, R. V. Effects of pruning on productivity of apple. (Rus) Sadovodstvo 2:15. Feb. 1968. 80 Sa13
- 76949 KHARITONOVA, E. N. The cherry variety Zhukovskaya. (Rus) Sadovodstvo 2:28-29. Feb. 1968. 80 Sa13
- 76950 KOLOMIETS, I. A. Eight years of continuous productivity. (Rus) Sadovodstvo 2:14. Feb. 1968. 80 Sa13  
As results of proper pruning of apples.
- 76951 KOLTUNOV, V. How to establish a dwarf orchard on the trellis. (Rus) Sadovodstvo 1:38-39. Jan. 1968. 80 Sa13  
Apples.
- 76952 KOROVIN, V. A., and KRUSHINSKAYA, N. G. S. F. Chernenko apple variety grafted on dwarf rootstocks. (Rus) Sadovodstvo 2:22. Feb. 1968. 80 Sa13
- 76953 KRZHIVETS, L. S. Hawthorn as rootstock for quince. (Rus) Sadovodstvo 1:26. Jan. 1968. 80 Sa13
- 76954 KUZMENKO, M. S. Effects of different pruning methods on the yields of apple. (Rus) Sadovodstvo 2:18. Feb. 1968. 80 Sa13
- 76955 LAKHTIONOV, A. The Ussuri cherry variety. (Rus) Sadovodstvo 2:30. Feb. 1968. 80 Sa13
- 76956 LAKHTIONOV, A. F. Better varieties—into production. (Rus) Sadovodstvo 1:30. Jan. 1968. 80 Sa13  
Apples.
- 76957 LONGLEY, R. P. Apple growing in the Maritimes. Can. Dep. Agr. Publ. 1159, 30 p. 1967 7 C16Pu
- 76958 MALCOLM, H. D. R. Canning peach varieties recommended for the Murrumbidgee Irrigation Areas. Agr. Gaz. New S. Wales 79(2):108-111. Feb. 1968. 23 N472
- 76959 MARGOLIN, A. F. Grafting on rootstocks reproduced by vegetative methods. (Rus) Sadovodstvo 2:16-17. Feb. 1968. 80 Sa13  
Apples.
- 76960 PAVLENKO, V. A. Beneficial practices. (Rus) Sadovodstvo 2:19. Feb. 1968. 80 Sa13  
Pruning of apples.
- 76961 POTAPOV, S. P. New plum varieties in the districts along the Volga River shores. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 132:121-127. 1967. 20 M857
- 76962 SHARPE, R. H. Improvement of peaches and nectarines. Sunshine State Agr. Res. Rep. [Fla. Sta.] 13(1):37-39. Jan. 1968. 100 F66Su
- 76963 SHCHERBAKOVA, S. P. Investigating different varieties of apple rootstocks, grown in nursery on neutral soils. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 132:91-95. 1967. 20 M857
- 76964 STAROSTIN, K. E. Pruning different apple varieties. (Rus) Sadovodstvo 2:17. Feb. 1968. 80 Sa13
- 76965 TAMBA, R. Recent information on pear pruning. (It) Ital. Agr. 105(2):173-182. Feb. 1968. 16 It1
- 76966 TIKHONOV, N. The apple Zor'ka—variety with the high content of vitamins. (Rus) Sadovodstvo 1:31. Jan. 1968. 80 Sa13
- 76967 TRACHEV, D. Examination of possibilities for growing of hill planted apple trees. (Bu) Gradinar. Lozar. Nauk. 5(1):3-9. Ref. 1968. 87 G75  
English summary.
- 76968 UL'YANISHCHEV, M. The Kandil-Sinap variety in the Voronezh Region. (Rus) Sadovodstvo 1:32-33. Jan. 1968. 80 Sa13  
Apple variety.
- 76969 VARNA, V. E., FINAEV, E. P., and IVANOV, P. P. Acclimatization of apricots. (Rus) Sadovodstvo 1:21. Jan. 1968. 80 Sa13  
Introduction in Latvia and in the Kaityshev Region.
- 76970 YURINETS, M. G. The apple variety Beskyd. (Rus) Sadovodstvo 3:32. Mar. 1968. 80 Sa13
- Small Fruits
- 76971 DARROW, G. M. The cultivated raspberry and blackberry in North America: breeding and improvement. Amer. Hort. Mag. 46(4):203-218. Ref. Oct. 1967. 80 N216
- 76972 EATON, G. W., DAUBENY, H. A., and NORMAN, R. C. Pollination techniques for red raspberry breeding programs. Can. J. Plant Sci. 48(3):342-344. May 1968. 450 C16
- 76973 FRY, B. O., and SAVAGE, E. F. Effect of some cultural practices on strawberry yields. Ga. Agr. Exp. Sta. Bull. (n.s.) 172, 27 p. Ref. Sept. 1966. 100 G293B
- 76974 FRY, B. O. Gem and Georgia Thornless, two new blackberries for home gardens. Ga. Agr. Exp. Sta. Res. Rep. 7, 8 p. Aug. 1967. S51.E22
- 76975 HALL, I. V., and others. Lowbush blueberry production in Canada. Can. Dep. Agr. Publ. 1278, 39 p. 1967. 7 C16Pu  
L. E. Alders, L. P. Jackson, G. W. Wood, and C. L. Lockhart, joint authors.  
Culture.
- 76976 JOHNSTON, S., and MOULTON, J. E. Blueberry distribution, variety evaluation and breeding in Michigan. Mich. Agr. Exp. Sta. Res. Rep. 67, 8 p. Mar. 1968. 284.9 M58

- 76977 KOSTINA, V. Grape culture in the Rovno Region. (Rus) Sadovodstvo 3:38. Mar.1968. 80 Sal3
- 76978 LILOV, D. Study on the possibility for storage of grafted grapevines. (Bu) Gradinar. Lozar. Nauk. 5(1):53-66. Ref. 1968. 87 G75  
French summary.
- 76979 LITOMYSL, J. P. The highbush blueberry [Vaccinium corymbosum] for gardens. (Cz) Zahradnické Listy 61(2):57. 1968. 80 Z12  
Culture.
- 76980 MORTENSEN, J. A. Breeding grapes for Florida. Sunshine State Agr. Res. Rep. [Fla. Sta.] 13(1):33-35. Jan.1968. 100 F66Su
- 76981 PEYER, E., KOBLET, W., and ZEICKY, P. The effect of various cultural methods on grape yields. (Ge) Schweiz. Z. Obst- Weinbau 104(4):80-85. Feb.17,1968. 80 Sch9  
Chiefly pruning.
- 76982 POGOSYAN, S. A. Breeding new grape varieties. (Rus) Sadovodstvo 2:27. Feb.1968. 80 Sal3  
Armenia.
- 76983 RANGELOV, B. Studies of pruning of Italian Riesling grape variety in the Sungurlare Valley. (Bu) Gradinar. Lozar. Nauk. 5(1):67-72. 1968. 87 G75  
French summary.
- 76984 SELEKTSIONERY Podmoskov'ya [Breeding berries in the Moscow Region]. Moskva, Moskovskii Rabochii, 1967. 96 p. SB381.S4
- 76985 SHARPE, R. H. Breeding blueberries for Florida. Sunshine State Agr. Res. Rep. [Fla. Sta.] 13(1):32-33. Jan.1968. 100 F66Su
- 76986 SHERMAN, W. B. Blackberry breeding in Florida. Sunshine State Agr. Res. Rep. [Fla. Sta.] 13(1):30-32. Jan.1968. 100 F66Su
- 76987 SHUISKAYA, YU. I. The "Karaburnu" variety in the Anapa District. (Rus) Vinodel. Vinograd. SSSR 2:52-53. 1968. 95.8 V77  
Grapes.
- 76988 SPARKS, D., and LARSEN, R. P. Some factors associated with the variation of soluble solids in Concord grapes. Mich. Agr. Exp. Sta. Quart. Bull. 50(3):355-364. Ref. Feb.1968. 100 M58S  
Cultivation practices.
- 76989 STROBEL, J. W. Strawberry breeding in Florida. Sunshine State Agr. Res. Rep. [Fla. Sta.] 13(1):52-54. Jan.1968. 100 F66Su
- 76990 YANIN, G. I. Spring grafting of grapes. (Rus) Vinodel. Vinograd. SSSR 2:55. 1968. 95.8 V77  
In the southern Ukraine.
- 76991 YAROSLAVTSEV, E. Pruning and binding raspberries. (Rus) Sadovodstvo 2:32-33. Feb.1968. 80 Sal3
- 76992 ZHITNEVA, P. I., SHAUMYAN, K. V., and ZHARKOVA, I. V. Pruning shrubs of recovered rootstocks. (Rus) Sadovodstvo 3:23-24. Mar. 1968. 80 Sal3  
Currants.
- 76993 ZOTKINA, G. A. Some European grape varieties, resistant to Phylloxera. (Rus) Vinodel. Vinograd. SSSR 2:27-28. 1968. 95.8 V77
- Nuts
- 76994 DRAGANTSEV, A. P. Common cashew [Anacardium occidentale]. (Rus) Sadovodstvo 1:33. Jan.1968. 80 Sal3
- 76995 O'ROURKE, F. L. S. The Carpathian walnut. Amer. Hort. Mag. 46(4):248-249. Oct.1967. 80 N216  
A cold-hardy race of Juglans regia.
- Shade Trees and Ornamental Plants
- 76996 AKANA, D. A. Lawns for island homes: Choosing a grass for your lawn. Hawaii. Univ. Ext. Circ. 425, 24 p. Mar.1968. 275.29 H312Ac  
Hybrids and varieties.
- 76997 AKANA, D. A. Lawns for island homes: Planting a new lawn. Hawaii. Univ. Ext. Circ. 426, 20 p. Mar.1968. 275.29 H312Ac
- 76998 BARKER, G. The garden at Casa di Sole East Portlemouth, Salcombe. Roy. Hort. Soc. J. 93 (4):173-178. Apr.1968. 84 L84J  
Chiefly survey of ornamental plants.
- 76999 BEITER, H. Plant combinations. (Da) Haven 68(4):132-133. Apr.1968. 80 H29  
Ornamentals.
- 77000 BUBEL, N. A. A special effect with window boxes. Org. Gard. Farming 15(2):58-61. Feb. 1968. 57.8 Or32
- 77001 BUCHMANN, F. J. Hybridizing with Amaryllis species. Plant Life 24:68-75. 1968. 450 P695
- 77002 BUCK, W. Q. Bahama Islands Hymenocallis species. Plant Life 24:60-61. 1968. 450 P695  
Culture.
- 77003 BUTLER, J. D., BRITTON, M. P., and RANDELL, R. Keeping a lawn. Ill. Univ. Ext. Circ. 982, 15 p. Mar.1968. 275.29 IL62C
- 77004 CANTRILL, R. J. Spring bulbs and how to plant them. J. Agr. [Melbourne] 66(2):69-71. Feb.1968. 23 V66J
- 77005 CARBONNEAU, M. C. Care of flowering potted plants. Ill. Univ. Ext. Circ. 980, 6 p.-folder. Mar.1968. 275.29 IL62C
- 77006 CLAUSEN, G. Variety trials with Helianthemum 1963-66. (Da) Tidsskr. Planteavl 71(4): 512-517. 1938. 11 T439  
English summary.
- 77007 CORBETT, E. G. Asexual propagation of Lycoris squamigera Maxim. Plant Life 24:100-102. 1968. 450 P695
- 77008 DE ROOS, R. The flower seed growers, gardening's color merchants. Nat. Geogr. 133(5): 720-738. May 1968. 470 N213
- 77009 DICKSON, A., HEIT, C. E., and STONE, E. L. Growing trees in small nurseries. Cornell Univ. Ext. Cornell Ext. Bull. 1198, 21 p. Mar. 1968. 275.29 N48E  
Ornamentals.
- 77010 DIX, J. F. C. Squills [Scilla] and bluebells [Endymion]. Amer. Hort. Mag. 46(4):236-239. Oct.1967. 80 N216
- 77011 DOLBY, W. J. Collector's choice: Butia capitata. Principes 11(4):131-135. Oct.1967. 80 P932
- 77012 DUDLEY, T. R. Ornamental mountain-laurel and a new cultivar: Kalmia latifolia "Bettina." Amer. Hort. Mag. 46(4):245-248. Oct.1967. 80 N216
- 77013 FARESTVEIT, B. The greenhouse carnation, Dianthus caryophyllus L. -history of its development. (Da) Horticultura 22(4):59-62. Ref. Apr.1968. 80 H7825  
Chiefly breeding.
- 77014 FESMIRE, V. R. 1967 Amaryllis breeding report. Plant Life 24:75-78. 1968. 450 P695
- 77015 FONTAINE, F. J. Ulmus. (Du) Dendroflora 5: 37-55. Jan.1968. 80 D51  
Varieties.
- 77016 GROOTENDORST, H. J. Chaenomeles. Dendroflora 5:13-19. Jan.1968. 80 D41  
English summary.  
Evaluation of varieties.
- 77017 GROOTENDORST, H. J. Hibiscus syriacus. (Du) Dendroflora 5:23-28. Jan.1968. 80 D41  
English summary.  
Evaluation of varieties.
- 77018 GROOTENDORST, H. J. Juniperus communis. (Du) Dendroflora 5:29-34. Jan.1968. 80 D41  
Varieties.
- 77019 GROOTENDORST, H. J. Weigelia. (Du) Dendroflora 5:56-60. Jan.1968. 80 D41  
English summary.  
Varieties.
- 77020 GROOTENDORST, H. J. Wisteria. (Du) Dendroflora 5:61-68. Jan.1968. 80 D41  
English summary.  
Varieties.



- 77021 HANDOLL, C. Grass variety trials. Sports Turf Res. Inst. J. 43:12-22. 1967, pub. Mar. 1968. 60.19 B772
- 77022 HANNIBAL, L. S. *Crinum schmidtii* Regel. Plant Life 24:39-40. 1968. 450 P695
- 77023 HAWKES, A. D. The variegated bitter ginger, *Zingiber zerumbet* "Darceyi." Amer. Hort. Mag. 46(4):244-245. Oct. 1967. 80 N216
- 77024 HEIT, C. E. Propagation from seed. 13. Some western and exotic spruce [*Picea*] species. Amer. Nurseryman 127(8):12-13, 51-57, 60-63. Apr. 15, 1968. 80 Am371  
As ornamentals.
- 77025 HENRY, M. G. *Agapanthus africanus* var. *henryae*. Plant Life 24:92-93. 1968. 450 P695  
Culture.
- 77026 HINDLE, R. J., and LARMIE, W. E. Perennials in Rhode Island. R. I. Univ. Agr. Ext. Bull. 195, 11 p. Dec. 1967. 275.29 R34  
Culture and varieties.
- 77027 HORSBRUGH-PORTER, M. Plants half-hardy, half-tender. Country Life [London] 143(3712): 1038-1039. Apr. 25, 1968. 80 C83
- 77028 HOWARD, T. M. Plant exploration in Mexico, 1966-1967. Plant Life 24:114-125. 1968. 450 P695  
Ornamental bulb plants.
- 77029 HUMM, R. G., and FAHR, M. A. Growers treated to overview of business. Florists' Rev. 142(3669):21, 58-60. Mar. 31, 1968. 80 W41  
Short course at the University of Missouri.
- 77030 HUTTLESTON, D. G. Description of *Nymphaea* "Antares" n. cv. Amer. Hort. Mag. 46(4):243-244. Oct. 1967. 80 N216
- 77031 JENSEN, E. R., and WIDMOYER, F. B. 1966 variety trials of summer-flowering annuals. N. Mex. Agr. Exp. Sta. Res. Rep. 137, 9 p. Dec. 1967. 100 N465R
- 77032 LAAR, H. D. VAN DE. *Calluna vulgaris*. (Du) Dendroflora 5:11-12. Jan. 1968. 80 D41  
Varieties.
- 77033 LAAR, H. J. VAN DE. *Cupressocyparis leylandii*. (Du) Dendroflora 5:21-22. Jan. 1968. 80 D41  
Culture.
- 77034 LARSEN, D. M., MILES, W. R., and SMITH, M. E. Planting trees in Minnesota. Minn. Univ. Ext. Bull. 350, 12 p., map. 1968. 275.29 M66S
- 77035 LEBEAU, J. B. Soil warming and winter survival of turfgrass. Sports Turf Res. Inst. J. 43: 5-11. 1967, pub. Mar. 1968. 60.19 B772
- 77036 LEGRANDE, P. Callaway Gardens. Amer. Hort. Mag. 46(4):224-229. Oct. 1967. 80 N216  
Ida Cason Callaway Gardens at Pine Mountain, Georgia.
- 77037 LUNDSTAD, A. Variety testing of floribunda and polyantha roses, 1964-66. (No) Forsk. Forsok Landbruket 19(1):43-55. Ref. 1968. 11 F772  
English summary.
- 77038 MCDANIEL, J. C. *Magnolia virginiana* var. *australis* "Henry Hicks," a new evergreen magnolia. Amer. Hort. Mag. 46(4):230-235. Oct. 1967. 80 N216
- 77039 MERTZWEILLER, J. K. An *Amaryllis* breeding project—1967 report. Plant Life 24:63-68. 1968. 450 P695
- 77040 MURE, C. Adaptation to environment—the making of a small town garden. Roy. Hort. Soc. J. 93(3):125-133. Mar. 1968. 84 L84J
- 77041 NICOLINI, G. The salvia for cut flowers. (It) G. Agr. 78(12):143-144. Mar. 24, 1968. 16 H1G  
Salvia patens.
- 77042 NUTT, P. A. *Nymphaea* "Antares," a new hybrid water-lily. Amer. Hort. Mag. 46(4): 243. Oct. 1967. 80 N216
- 77043 OSBORNE, B. L. The palms at Lotusland, estate of Madame Ganna Walska. Principes 11(4):123-130. Oct. 1967. 80 P932  
At Santa Barbara, California.
- 77044 PALMER, C. Adorned with beauty: A delightful English flower custom. Florists' Rev. 142(3676):10-11, 30, 31. May 9, 1968. 80 W41  
Flower arrangement in churches.
- 77045 PARK, J. S. Do house plants leave you puzzled? Org. Gard. Farming 15(2):48-53. Feb. 1968. 57.8 Or32  
Culture.
- 77046 PATTERSON, J. M. Container growing. Amer. Nurseryman 127(7):12. Apr. 1, 1968. 80 An371  
Propagation of evergreens in pots.
- 77047 PATTON, G. E. Lawn tops library's growth. Landscape Architect. 58(3):220-221. Apr. 1968. 80 L23  
Grundy Memorial Library in Bristol, Pennsylvania.
- 77048 PHELPS, S. New look for the old pot. Florists' Rev. 142(3669):42-43. Mar. 31, 1968. 80 W41
- 77049 PIM, J. African gold: the new mining landscape. Landscape Architect. 58(3):192-195. Apr. 1968. 80 L23  
Landscape gardening in a mining town.
- 77050 POTTER, C. H. Oregon: land of the lily. Florists' Rev. 142(3673):56, 95. Apr. 18, 1968. 80 W41
- 77051 SCHNEIDER, F. *Astilbe*. (Du) Dendroflora 5: 3-10. Jan. 1968. 80 D41  
English summary.  
Variety trials.
- 77052 SHAMMARELLO, A. *Rhododendron* and *Azalea* hybridization. Amer. Nurseryman 77(6):16. Mar. 15, 1968. 80 Am371
- 77053 SHERK, L. C. A checklist of ornamental trees for Canada. Can. Dept. Agr. Publ. 1343, 23 p. 1968. 7 C16Pu
- 77054 SMITH, J. C. Notes on *Amaryllis* species 1967. Plant Life 24:33-34. 1968. 450 P695
- 77055 STEWART, I. R. Parks, progressivism, and planning: Charles Eliot in metropolitan context. Landscape Architect. 58(3):201-204. Ref. Apr. 1968. 80 L23  
Chiefly history of Boston municipal parks.
- 77056 STIRLING, P. Trees in the landscape. Roy. Hort. Soc. J. 93(3):138-143. Mar. 1968. 84 L84J  
Chiefly planting.
- 77057 SYDOW, G. A. *Eremus*, majesty of the garden. (Da) Haven 68(4):130-131. Apr. 1968. 80 H29  
Varieties and culture.
- 77058 THIEL, F., and YASNOWSKY, J. Benefits of highway beautification. Public Roads 35(1):1-8. Jan. 1968. 280.8 H632  
Includes planting.
- 77059 U. S. SOIL CONSERVATION SERV. Conservation plantings: Invite birds to your home. U. S. D. A. PA-840, 16 p.-folder. Feb. 1968. 1 Ag84Pro
- 77060 URBAN, J. The propagation and breeding of roses in Holstein region. (Cz) Zahradnicke Listy 61(2):38-40. 1968. 80 Z12
- 77061 VOGEL, P. DE. Selections 1967. (Du) Dendroflora 5:69-70. Jan. 1968. 80 D41  
Varieties of ornamental shrubs.
- 77062 WAGNER, W. H., and WOODSIDE, R. C. Ferns for an indoor limestone boulder habitat. Amer. Hort. Mag. 46(4):219-223. Oct. 1967. 80 N216
- 77063 WHEELER, W. W. *Amaryllis striata* for rapid increase. Plant Life 24:111-112, 125. 1968. 450 P695
- 77064 WILLIAMS, E. A. Garden images on grassy knolls. Landscape Architect. 58(3):210-212. Apr. 1968. 80 L23  
Sculptures in a Japanese garden.
- 77065 WILLIAMS, P. H. The *Rhodophialas* are coming! Plant Life 24:34-37. 1968. 450 P695
- 77066 WIZNER, K. Roze w ogrodku [Roses in the garden]. Ed. 2. Warszawa, Państwowe Wydawnictwo Rolnicze i Lesne, 1967. 222 p. SB411.W52 1961

Vegetable and Truck Crops (Including Potatoes)

- 77067 ALEKSEEVA, M. V. Chesnok i luk-porel [Garlic and leeks]. Leningrad, Kolos, 1967. 70 p. (Bibliotekha Ovoshchevoda) SB351.G3A4 Culture chiefly.
- 77068 BAGNOVETS, E. A. Planting density of cucumbers, grown under plastic cover and solar radiation. (Rus) Moscow, Timiryazev, Sel'skokhoz. Akad. Dokl. 132:181-185. 1967. 20 M857
- 77069 BALASHOV, T., RYBAKOV, I., and CHEKME-NEVA, A. Minor elements and the yields of legumes. (Rus) Kartoffel' Ovoshchi 1:24. Jan. 1968. 75.8 K147 Treatment of bean and pea seeds.
- 77070 BOODLEY, J. W. Bedding plants. Amer. Veg. Grower 16(3):29. Mar. 1968. 80 C733
- 77071 BOTTAZZI, A. The tomato; what are the preferred varieties? (It) G. Agr. 78(15):194. Apr. 14, 1968. 16 It1G
- 77072 BRADLEY, J. A. Tomato grafting to control root diseases. New Zeal. J. Agr. 116(3):26-27. Mar. 1968. 23 N48J
- 77073 BRENOE, C. Tomato flavor quality. (Da) Tidsskr. Planteavl 71(4):529-533. 1968. 11 T439 Chiefly variety trials.
- 77074 BRYAN, H. H. Pole bean breeding in Florida. Sunshine State Agr. Res. Rep. [Fla. Sta.] 13(1):43. Jan. 1968. 100 F66Su
- 77075 BUTS, M. Agricultural practices in the hydroponic greenhouses. (Rus) Kartoffel' Ovoshchi 1:31-32. Jan. 1968. 75.8 K147 Cucumbers and tomatoes.
- 77076 COLBY, P. D. New England's squash kings. Amer. Veg. Grower 16(3):56, 58. Mar. 1968. 80 C733 Chiefly varieties and equipment.
- 77077 COLLIER, W. L., DAVIDSON, J. R., and PEE, T. Y. Analysis of daikon production on the island of Hawaii. Hawaii. Agr. Exp. Sta. Agr. Econ. Rep. 75, 15 p. June 1967. 275.29 H312Ae Culture, costs and labor.
- 77078 CORROW, H. W. New farming ventures; needed diversification for commercial farmers. Ext. Serv. Rev. 39(2):9, 15. Feb. 1968. 1 Ex892Ex New Hampshire program for spinach cultivation.
- 77079 COURTER, J. W., and VANDEMARK, J. S. Growing tomatoes at home. Ill. Univ. Ext. Circ. 981, 12 p., map. Apr. 1968. 275.29 IL62C
- 77080 COVINGTON, H. M., and others. Grow quality sweet potatoes. N. C. Univ. Ext. Circ. 353, rev., 31 p. Jan. 1968. 275.29 N811 D. T. Pope, L. J. Kushman, L. W. Nielsen, D. V. Phillips, H. E. Scott, C. H. Brett, J. V. Baird, and E. A. Proctor, joint authors.
- 77081 CRALL, J. M. Watermelon breeding in Florida. Sunshine State Agr. Res. Rep. [Fla. Sta.] 13(1):57. Jan. 1968. 100 F66Su
- 77082 DARBY, J. F. Progress in control of black speck of cabbage. Sunshine State Agr. Res. Rep. [Fla. Sta.] 13(1):43-46. Jan. 1968. 100 F66Su Breeding resistant hybrids.
- 77083 DEMPSEY, A. H., and BOGGESS, T. S. Sweet potato performance trials in the Georgia Piedmont. Ga. Agr. Exp. Sta. Res. Rep. 6, 16 p. Ref. Aug. 1967. S51.E22
- 77084 DUGGEN, H. Brussels sprouts hybrids investigated. (Ge) Indus. Obst- Gemuseverwertung 53(5):135-136. Mar. 7, 1968. 389.8 K832
- 77085 EZHOV, T. Seed and yields. (Rus) Kartoffel' Ovoshchi 1:7-8. Jan. 1968. 75.8 K147 Culture of potatoes for seed.
- 77086 FANELLI, L. Cultivated mushrooms; production, nutritive value, edible and poisonous mushrooms. (It) Ital. Agr. 105(2):107-134. Feb. 1968. 16 It1
- 77087 FEDDERSEN, H. D. Potato growing in South Australia. S. Australia J. Agr. 71(8):258-264. Mar. 1968. 23 So84
- 77088 FLOISTAD, J. Cloches for early vegetables. (No) Gartneryrket 58(14):296-298, 301. Apr. 5, 1968. 80 G1938
- 77089 FRITSCHKE, G., and SENGBUSCH, R. VAN. A new mushroom strain with lumpy fruit bodies. (Ge) Indus. Obst- Gemuseverwertung 53(5):129-130. Mar. 7, 1968. 389.8 K832
- 77090 GANE, A. J. Vining and dried peas. Great Brit. Min. Agr. Fish. Food. Agr. 75(4):186-188. Apr. 1968. 10 G79J Culture.
- 77091 HALLIG, V. A., and BACHER, E. Tomato varieties 1965-66. (Da) Tidsskr. Planteavl 71(4):518-529. 1968. 11 T439 Culture.
- 77092 HNIZDIL, M. The Reven variety of rhubarb and the Larosa variety of carrots. (Cz) Zahradnicke Listy 61(2):52-53. 1968. 80 Z12 Includes culture.
- 77093 IVANISHIN, A. I. Ovoshchi v otkrytom grunte Vostochnoi Sibiri [Field culture of vegetables in eastern Siberia]. Irkutsk, Vostochno-Sibirskoe Knizhnoe Izdatel'stvo, 1967. 149 p. SB323.I9
- 77094 IVANYI, MRS. S. When and what kind of peas shall we cultivate. (Hu) Magyar Mezogazdasag 23(13):10-11. Mar. 1968. 19 M27 Food and forage types.
- 77095 JAMISON, F. S. Breeding for disease resistance in vegetables. Sunshine State Agr. Res. Rep. [Fla. Sta.] 13(1):42. Jan. 1968. 100 F66Su
- 77096 JANNACCONI, A. The artichoke. (It) Ital. Agr. 105(2):147-158. Ref. Feb. 1968. 16 It1 Culture.
- 77097 JENSEN, J. Cucumber culture. (Da) Haven 68(4):118-119. Apr. 1968. 80 H29
- 77098 JORGENSEN, M. B. Danish research and investigations with vegetable crops. (Ge) Indus. Obst- Gemuseverwertung 53(5):113-116. Mar. 7, 1968. 389.8 K832
- 77099 KARLOVICH, S. V. Peculiarities of propagating garlic with above-ground bulbs. (Rus) Moscow, Timiryazev, Sel'skokhoz. Akad. Dokl. 132:217-220. Ref. 1967. 20 M857
- 77100 KINSELLA, M. N. Onions all year. J. Agr. [Melbourne] 63(2):66. Feb. 1968. 23 V66J Culture in Australia.
- 77101 KLAPAL, J. The Karmen, a red onion. (Cz) Zahradnicke Listy 61(2):51. 1968. 80 Z12
- 77102 KOCHETKOV, V., and others. Planting scheme for carrots. (Rus) Kartoffel' Ovoshchi 1:18-19. Jan. 1968. 75.8 K147 D. Rudashevskii, V. Sidorenko, M. Senin, and V. Edel'shtein, joint authors.
- 77103 KRAVCHENKO, L., and TIBABISHCHEV, N. Growing onions as one year culture. (Rus) Kartoffel' Ovoshchi 1:20. Jan. 1968. 75.8 K147
- 77104 KRUGLYAKOVA, N. Lamps used for radiation of seedlings. (Rus) Kartoffel' Ovoshchi 1:29-30. Jan. 1968. 75.8 K147 Vegetables in greenhouses.
- 77105 KRYLOV, S. V., and SOKOLOV, V. P. Effect of distribution and the density of the winter carrot stands, under paper mulch, upon the early date of their yields. (Rus) Moscow, Timiryazev, Sel'skokhoz. Akad. Dokl. 132:147-153. 1967. 20 M857
- 77106 KYLE, J. H. Dry bean yields on the High Plains of West Texas, 1966-67. Tex. Agr. Exp. Sta. Progr. Rep. PR-2532, 3 p. Mar. 25, 1968. 100 T31P
- 77107 KYLE, J. H. Relationship of seed size to seedling rate in carrot production. Tex. Agr. Exp. Sta. Progr. Rep. PR-2533, 3 p. Mar. 27, 1968. 100 T31P
- 77108 LAMMERS, R. P. Considerations on the tasks of breeders of peas for processing. (Ge) Indus. Obst- Gemuseverwertung 53(5):130-133. Mar. 7, 1968. 389.8 K832



- 77109 LAVRIKOVA, S. Treatment of potato tubers before planting. (Rus) *Kartofel' Ovoshchi* 1:6. Jan.1968. 75.8 K147  
Minor elements used for better yield.
- 77110 LOERKE, E. Vegetable varieties and raw material for the processing industry from the viewpoint of the plant breeder. (Ge) *Indus. Obst- Gemüseverwertung* 53(5):127. Mar.7, 1968. 389.8 K832
- 77111 MARKARIAN, D. Spartan Lakes, a new head lettuce for Michigan mucklands. *Mich. Agr. Exp. Sta. Quart. Bull.* 50(3):288-292. Feb.1968. 100 M58S
- 77112 MINGES, P. A. Be choosy when you select varieties. *Amer. Veg. Grower* 16(3):20,22. Mar.1968. 80 C733
- 77113 MOISA, N. Using hotbeds more effectively. (Rus) *Kartofel' Ovoshchi* 1:27-28. Jan.1968. 75.8 K147  
Vegetables.
- 77114 MURATOVA, E. V., and PETRIKIN, D. D. Experience with growing seed onions under paper mulch. (Rus) *Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl.* 132:221-223. 1967. 20 M857
- 77115 NAPIER, E. Space tests with vegetables. *Roy. Hort. Soc. J.* 93(4):178-181. Apr.1968. 84 L34J
- 77116 NEKLYUDOV, B. M., and NEKLYUDOVA, E. A. Breeding peas to improve yields and protein content. (Rus) *Selek. Semenovodstvo* 1:29-32. Jan./Feb.1968. 61.9 Se5
- 77117 NICKLOW, C., and DOWNES, J. Commercial production of asparagus in Michigan. *Mich. State Univ. Ext. Bull.* 598,8 p. Jan.1968. 275.29 M58B
- 77118 NOLL, C. J., and others. 1967 vegetable variety trials. *Penn. Agr. Exp. Sta. Progr. Rep.* 282,8 p. Mar.1968. 100 P381P  
M. L. Odland, M. H. Runner, and C. H. Miller, joint authors.
- 77119 PETKOVA, T. A new cucumber variety for early field crop. (Bu) *Gradinar. Lozar. Nauk.* 5(1):37-41. 1968. 87 G75  
English summary.
- 77120 PETROVA, M. S. *Redis i red'ka* [Radishes]. Leningrad, Kolos, 1967. 54 p. (Bibliotekha Ovoshchevoda) SB351.R3P4  
Culture and nutritive value.
- 77121 POLYANSKAYA, A. M., and FEDOROVA, M. I. Breeding early varieties of tomatoes. (Rus) *Selek. Semenovodstvo* 1:32-34. Jan./Feb.1968. 61.9 Se5
- 77122 POTATOES in peat pots? *Amer. Veg. Grower* 16(3):32. Mar.1968. 80 C733  
Alaska.
- 77123 PRASHAR, P., and MARTIN, D. 1968 vegetable varieties for South Dakota. *S. Dak. State Univ. Ext. FS* 388,7 p.,map. Jan.1968. 275.29 So85Fs  
Includes planting dates.
- 77124 REKAS, J. Producing seed potatoes in closed regions of Stettin Pomerania (Pomorze Szczecińskie). (Pol) *Nowe Roln.* 17(5):20-21. Mar.1/15,1968. 20.5 N86
- 77125 ROUX, A. Trip through the wrinkled pea varieties with special attention to grading, development time, and color. (Ge) *Indus. Obst- Gemüseverwertung* 53(5):127-128. Mar.7,1968. 389.8 K832
- 77126 EL SAEED, E. A. K. Agronomic aspects of broad beans (*Vicia faba* L.) grown in the Sudan. *Exp. Agr.* 4(2):151-159. Apr.1968. 10 Ex72
- 77127 SERVISS, G. H. Mr. Salad, an overlooked market. *Agr. Chem.* 23(4):33-34. Apr.1968. 381 Ags  
Chiefly lettuce culture.
- 77128 SHARPE, P. R., and DENT, J. B. The determination and economic analysis of relationships between plant population and yield of main crop potatoes. *J. Agr. Sci.* 70(2):123-129. Apr. 1968. 10 J822
- 77129 SHAUMYAN, I., and KOSTSELETSKII, N. Crop rotations on the specialized state farms. (Rus) *Kartofel' Ovoshchi* 1:14-16. Jan.1968. 75.8 K147  
Truck farms.
- 77130 SINCHA, K. P. Using forage and wild water-melons in breeding new varieties. (Rus) *Selek. Semenovodstvo* 1:74-75. Jan./Feb.1968. 61.9 Se5
- 77131 SONGIN, W. Yields of potatoes in the Szczecin voivodship. (Pol) *Nowe Roln.* 17(5):22. Mar.1/15,1968. 20.5 N86
- 77132 SPEIGHTS, D. E., LARSEN, J. E., and PATERSON, D. R. Improve Texas vegetables—sweet potatoes; fact sheet. *Tex. Agr. Mech. Univ. Ext. L-710*,2 p. May 1967. 275.29 T313
- 77133 SPIRIDONOVA, A., and CHENYKAEVA, E. Growing cucumbers and tomatoes in pots on the windows. (Rus) *Kartofel' Ovoshchi* 1:44-46. Jan.1968. 75.8 K147
- 77134 STROBEL, J. W. Breeding fresh market tomato varieties for mechanical harvest. *Sunshine State Agr. Res. Rep. [Fla. Sta.]* 13(1):49-52. Jan.1968. 100 F66Su
- 77135 THUN, M., and HEINZE, H. Further seed investigations with runner beans 1967; comparative culture with and without use of silica; statistical testing of results. (Ge) *Lebendige Erde* 1:14-20. Jan./Feb.1968. 18 L49
- 77136 TKACHENKO, N. Our new varieties and hybrids. (Rus) *Kartofel' Ovoshchi* 1:21-22. Jan. 1968. 75.8 K147  
Cucumbers.
- 77137 U. S. AGRICULTURAL RESEARCH SERV. CROPS RESEARCH DIV. Commercial growing of asparagus. *U. S. D. A. Farmers' Bull.* 2232,22 p. Apr.1968. 1 Ag84F  
U. S. Agricultural Research Service, Entomology Research Division, cooperating.
- 77138 UNKOVSKAYA, A. How to obtain highly-productive hybrids. (Rus) *Kartofel' Ovoshchi* 1:35-36. Jan.1968. 75.8 K147  
Watermelons.
- 77139 VERHOEVEN, G. Potato growing in Queensland. 2. *Queensland Agr. J.* 94(1):8-22. Jan. 1968. 23 Q33
- 77140 VERHOEVEN, G. Potato growing in Queensland. 3. *Queensland Agr. J.* 94(2):82-94. Feb. 1968. 23 Q33  
Culture and marketing quality.
- 77141 WALTER, J. M. Tomatoes resistant to race 2 of *Fusarium* wilt. *Sunshine State Agr. Res. Rep. [Fla. Sta.]* 13(1):48-49. Jan.1968. 100 F66Su  
Breeding.
- 77142 WOLF, E. A. Developing improved celery varieties. *Sunshine State Agr. Res. Rep. [Fla. Sta.]* 13(1):46-48. Jan.1968. 100 F66Su
- 77143 YURINA, O. V. *Kabachok, patisson i tykva* [Squash and pumpkin]. Leningrad, Kolos, 1967. 46 p. (Bibliotekha Ovoshchevoda) SB347.19  
Culture chiefly.

#### Miscellaneous Economic Plants (Coffee, Tea, Cacao, Etc.)

- 77144 DRIMTZIAS, N. Honey plants and honey of Greece. (Ge) *Z. Bienenforsch.* 9(5):195-196. Feb.1968. 424.8 Z3
- 77145 HARDON, J. J., and THOMAS, R. L. Breeding and selection of the oil palm in Malaya. (Fr) *Oleagineux* 23(2):85-90. Ref. Feb.1968. 77.8 OL2
- 77146 INTERNATIONAL COCOA RESEARCH CONFERENCE, 2, SALVADOR, BRAZIL, 1967. [Report]. *Rev. Int. Choc.* 23(1):10-14. Jan. 1968. 68.38 R32  
Summaries of the papers presented.
- 77147 MORTON, J. F. A survey of medicinal plants of Curacao. *Econ. Bot.* 22(1):87-102. Ref. Jan./Mar.1968. 450 Ec7

- 77148 ROBORGH, R. H. J. Improvement of the yield of the hop plant (*Humulus lupulus*) by means of shoot selection. *New Zeal. J. Agr. Res.* 11(1): 215-218. Feb.1968. 23 N4892  
Selection of cuttings for propagation.
- 77149 SODERHOLM, P. H., and others. Yield trials of steroid-producing *Dioscorea* on Florida's Everglades peat soils. *Econ. Bot.* 22(1):80-83. Jan./Mar.1968. 450 Ec7  
M. H. Gaskins, V. E. Green, G. A. White, J. W. Garvin, and C. C. Seale, joint authors.
- 77150 TIRRELL, R. Herbs that bring the bees. *Org. Gard. Farming* 15(2):108-110. Feb.1968. 57.8 Or32
- 77151 WOOD, P. The heyday of the herbs; a glimpse into the charm and valuable uses of herbs from the Middle Ages to today—when a backyard revival is in full swing. *Org. Gard. Farming* 15(2):54-57. Feb.1968. 57.8 Or32

## PLANT PATHOLOGY AND PROTECTION

- 77152 AMERICAN PHYTOPATHOLOGICAL SOCIETY. NORTHEASTERN DIV. Abstracts of the 1967 annual meeting. *Phytopathology* 58(4):398-404. Apr.1968. 464.8 P56
- 77153 AUSTRIA. BUNDESANSTALT FUR PFLANZEN-SCHUTZ. Amtliches Pflanzenschutzmittelverzeichnis und Pflanzenschutzgeräteverzeichnis 1968 [Official list of plant protection chemicals and plant protection equipment 1968]. *Pflanzenarzt* 21(spec.no.):46 p. Feb.1968. 464.9 p482
- 77154 AUSTRIA. BUNDESANSTALT FUR PFLANZEN-SCHUTZ. Richtlinien für die Pflanzenschutzarbeit 1968, zusammengestellt auf Grund der Versuchsergebnisse der Bundesanstalt für Pflanzenschutz und der Beratungen der Pflanzenschutzkonferenz 1967 [Guidelines for plant protection work 1968, compiled on the basis of results of experiments of the Federal Institute for Plant Protection and the decisions of the Plant Protection Conference 1967]. *Pflanzenarzt* 21(spec.no.):32 p. Feb.1968. 464.9 P482
- 77155 BOYLE, L. W. Basic concepts in the control of plant diseases. *Ga. Agr. Exp. Sta. Res. Rep.* 16,11 p. Oct.1967. S51.E22
- 77156 CRAMER, H. H. Plant protection and world crop production. *Pflanzenschutz Nachr.* "Bayer". 20(1),524 p. 1967. 464.8 H67Ae  
Bibliography, p.494-516.  
Prime object to investigate losses from insects, diseases, and weeds.
- 77157 DARKE, W. F. The international plant health certificate. *Int. Seed Testing Ass. Proc.* 32(2): 275-280. 1967. 61.9 In84P  
Model Phytosanitary Certificate drafted by the International Plant Protection Convention in 1951.
- 77158 FISCHNICH, O. E. The FAO in the service of international plant protection. (Ge) *Pflanzenarzt* 21(spec.no.):2-4. Mar.1968. 464.9 P482
- 77159 GESHELE, E. E. Laboratory of Phytopathology and Entomology [Laboratoriya Fitopatologii i Entomologii]. (Rus) *Zashch. Rast.* 11:41-42. 1967. 421 Z1  
At the All-Union Institute for Breeding and Genetics [Vsesoyuznyi Selektсионno-Geneticheskii Institut] in Odessa.
- 77160 HAWKES, J. G., and LESTER, R. N. Immunological studies on the tuber-bearing *Solanums*. III. Variability within *S. bulbocastanum* and its hybrids with species in series *Pinnatisecta*. *Ann. Bot. (n.s.)* 32(125):165-186. Ref. Jan.1968. 450 An7  
Chiefly immuno-electrophoretic investigation of antigen content.
- 77161 LEIB, E. A milestone in German plant protection; the new Plant Protection Act, leitmotiv, and objectives. (Ge) *Anz. Schadlingskunde* 41(3):33-37. Mar.1968. 421 An9  
English summary.  
Protection of livestock, man and the balance of nature.

- 77162 LEIB, E. The new plant protection law. (Ge) *Lohnunternehmen Land- Forstwirtschaft.* 23(2): 27-28. Feb.15,1968. 58.8 D81
- 77163 LEIB, E. We have the most modern plant protection law in the world! (Ge) *Chem. Tech. Landwirt.* 19(4):127-128. 1968. 384 C4292
- 77164 MAKEI, G. N. Protecting crops. (Rus) *Zashch. Rast.* 3:5-6. 1968. 421 Z1  
Plant protection in the Chernigov Region.
- 77165 PYLAEV, N. I., and others. In the Kalinin Region. (Rus) *Zashch. Rast.* 4:6-16. 1968. 421 Z1  
B. N. Valyaev, Z. A. Levaeva, N. V. Babaev, P. G. Chignev, A. F. Ganin, A. A. Kondratovich, G. F. Zasyapkina, V. E. Yuganson, L. Mazurov, V. Seryaev, V. V. Voinova, V. I. Ostashev, and N. V. Ivanova, joint authors.  
Plant protection.
- 77166 SHAW, W. C. Research on pests and their control. *Nat. Agr. Chem. Ass. News Pesticide Rev.* 26(4):5. Apr.1968. 421 Ag8  
Plant diseases, weeds, nematodes and insects.
- 77167 U. S. DEPT. OF AGRICULTURE. Attention, overseas travelers. U. S. D. A. PA-820, 2 p. Mar.1968. 1 Ag84Pro  
Plant and livestock product quarantine.

## Diseases of Field Crops

- 77168 AKOL'ZIN, L. N. Accumulation of experience. (Rus) *Len Konoplya* 4:24-26. 1968. 73.8 L542  
In protecting flax against diseases, weeds and pests.
- 77169 ENGEL, H. Muskrat, Norway rat, and harvest mouse as pests in corn. (Ge) *Gesunde Pflanzen* 20(3):41-42,44,46. Mar.1968. 464.8 G33  
Germany.
- 77170 GITMAN, L. S. Little known hemp diseases. (Rus) *Zashch. Rast.* 3:44-45. 1968. 421 Z1
- 77171 HEBERT, E., BANCROFT, J. B., and BRACKER, C. E. The assembly in vitro of some small spherical viruses, hybrid viruses, and other nucleoproteins. *Virology* 34(3):492-508. Ref. Mar.1968. 448.8 V81  
Brome mosaic, broadbean mottle, and cowpea mottle viruses.
- 77172 KAMINSKAYA, M. E. Treatment of seeds with substances, forming coatings. (Rus) *Len Konoplya* 2:32-33. 1968. 73.8 L542  
Economic poisons used for control of flax diseases.
- 77173 KORNEEVA, E. M. Treating flax seeds in advance. (Rus) *Len Konoplya* 2:22-24. 1968. 73.8 L542  
Using economic poisons against pests and diseases.
- 77174 NETTLES, W. C., SMITH, F., and SPARKS, L. M. Control cotton diseases. *Clemson Univ. Ext. Cotton Leaflet*. 2,8 p.-folder. Feb.1968. 275.29 S86C
- 77175 OPRYCHALOWA, J., and GOOS, M. Remarks on sugar beet protection in Lower Silesia in 1966. (Pol) *Nowe Roln.* 17(5):18-19. Mar.1/15,1968. 20.5 N86
- 77176 POPOVA, I. V., and MAKARENKO, E. E. Forecasts of sugar beet diseases and pests in the Russian Soviet Federated Socialist Republic. (Rus) *Sakh. Svekla* 3:30-31. Mar.1968. 66.8 Su393
- 77177 WILLIAMS, F. J., GREWAL, J. S., and AMIN, K. S. Serious and new diseases of pulse crops in India in 1966. *Plant Dis. Rep.* 52(4):300-304. Ref. Apr.1968. 1.9 P69P

## Diseases of Horticultural Crops

- 77178 AMOS, J. M., and DRAKE, C. R. Fungicide and insecticide recommendations; grade disease and insect control. *Va. Polytech. Inst. Ext. Leaflet*. 226,2 p. Dec.1966. 275.29 V81L



- 77179 AMOS, J. M., and DRAKE, C. R. Strawberry insect and disease control. Va. Polytech. Inst. Ext. Leaflet 228,4 p. Dec.1966. 275.29 V81L
- 77180 BERGER, R. D. 1967-1968 celery fungicide trial. Fla. Everglades Exp. Sta. Mimeo Rep. EES 68-6,3 p. Feb.1968. 100 F663  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.  
Includes bacteria and virus control.
- 77181 COLORADO, STATE UNIVERSITY. COOPERATIVE EXTENSION SERV. 1968 tree fruit spray guide. Colo. State Univ. Ext. Gen. Ser. 858, 13 p. Mar.1968. 100 C71G  
Published jointly with Colorado Experiment Station.  
Control of diseases and pests.
- 77182 GRAHAM, K. M., and others. Control of diseases and pests of potatoes. Can. Dep. Agr. Publ. 1215,63 p. 1967. 7 C16Pu  
W. A. Hodgson, J. Munro, and D. D. Pond, joint authors.  
Chemical control.
- 77183 HANDOLL, C. Turf disease notes 1967. Sports Turf Res. Inst. J. 43:28-33. 1967, pub. Mar.1968. 60.19 B772
- 77184 LEGKOSTUP, S. S., and SEREBRYAKOV, V. A. Aircraft in protection of fruit gardens. Sadovodstvo 3:12. Mar.1968. 80 Sal3  
Disease and pest control.
- 77185 LEWIS, F. H., STOUFFER, R. F., and HEWETSON, F. N. A serious new disorder of peach trees. Plant Dis. Rep. 52(4):292-294. Apr. 1968. 1.9 P69P
- 77186 MCGLOHON, N. E. Control diseases in your home garden! Ga. Univ. Ext. Bull. 667,11 p. Feb.1968. 275.29 G29B  
Vegetables.
- 77187 MCGLOHON, N. E., HARRIS, E. D., and TAYLOR, J. Georgia apple disease and insect control guide. Ga. Univ. Ext. Bull. 643,rev.,12 p. Mar.1968. 275.29 G29B
- 77188 MCGREW, J. R., and STILL, G. W. Control of grape diseases and insects in the Eastern United States. U. S. D. A. Farmers' Bull. 1893,rev.,28 p. Jan.1968. 1 Ag84F
- 77189 MIRCETICH, S. M., FOGLE, H. W., and BARRAT, J. G. Further observations on stem pitting in Prunus. Plant Dis. Rep. 52(4):287-291. Apr.1968. 1.9 P69P  
Apricot, nectarine and peaches.
- 77190 RAWLINS, W. A. Granulars—a story of pests, pellets and plant protection. Amer. Veg. Grower 16(3):11-12. Mar.1968. 80 C733  
Pesticide-fertilizer formulations with carriers.
- 77191 ROBERTS, J. E., and BARNES, G. Spraying and dusting tomatoes. Ark. Univ. Ext. Leaflet 217,rev.,8 p.-folder. Mar.1968. 275.29 Ar4Le  
Disease and pest control.
- 77192 SCHUPHAN, W. Vegetable culture and Maximum Quantity Order—plant protection. (Ge) Indus. Obst- Gemuseverwertung 53(5):117-122. Ref. Mar.7,1968. 389.8 K832  
Regulating the maximum amounts of economic poisons that can be safely used on plants.
- 77193 SMOL'YANNIKOV, V. V. Spraying fruit garden before flowering. (Rus) Zashch. Rast. 4:41. 1968. 421 Z1  
To prevent diseases and pests.
- 77194 TER-SIMONYAN, L. Pests and diseases of plants in the greenhouses. (Rus) Kartoffel' Ovoshchi 1:37-40. Jan.1968. 75.8 K147  
Cucumbers and tomatoes.
- 77195 VERDEREVSKII, D. D., and others. Khronicheskie bolezni plodovykh kul'tur i vinograda [Chronic diseases of fruit and grapes]. Kishinev, Kartya Moldovenyaske, 1967. 134 p. Ref. SB608.F8V4  
T. D. Verderevskaya, E. A. Zvyagina, E. P. Kropis, and A. T. Makrushina, joint authors.

### Diseases of Forest Trees

- 77196 BAKSHI, B. K. Diseases of man-made forests. World Symp. Man-Made Forests Indus. Import. [Position Paper] 15a/1,17 p. Ref. 1967. SD391.W6 1967a  
Includes control.
- 77197 BAKSHI, B. K. Quantification of forest disease losses report for Asia for XIV IUFRO Congress, Munich, 1967. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.5:361-372. 1967. 99.9 In82
- 77198 BOYCE, J. S. Forest disease control. Forest. Res. Notes 22(7):46-49. Mar.1968. 99.8 F7692  
Southern States.
- 77199 DONAUBAUER, E. Forestry quarantine regulations in west and south Europe. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.5:392-399. 1967. 99.9 In82
- 77200 DONAUBAUER, E. Nutrition and disease attack in forest plant. 1. Influencing the degree of attacks. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.5:400-408. 1967. 99.9 In82
- 77201 GIBSON, I. A. S. The influence of disease factors on forest production in Africa. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.5:327-360. Ref. 1967. 99.9 In82
- 77202 HANSBROUGH, J. R. IUFRO Working Group on International Cooperation in Forest Disease Research; history, organization, objectives, and progress. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.5:388-391. 1967. 99.9 In82
- 77203 HEPTING, G. H. The INTREDIS register for literature retrieval in forest pathology. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.5:385-387. 1967. 99.9 In82  
Electronic data retrieval system.
- 77204 HEPTING, G. H. Measuring losses from forest diseases. Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.5:325-326. 1967. 99.9 In82
- 77205 JARO, Z. The relations of deficiency diseases to site. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.2:239-245. 1967. 99.9 In82  
Includes foliar diagnosis.
- 77206 KOZLOWSKA, C. Problems of health of fast growing wood species in Poland. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.5:461-464. 1967. 99.9 In82  
Diseases of poplar and willow spp.
- 77207 ORLOS, H. Ecological aspect of forest disease investigations in Poland. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr.,v.5:471-477. 1967. 99.9 In82
- 77208 POWERS, H. R. Current appraisal of forest tree diseases in the south. Forest. Res. Notes 22(7):44-45. Mar.1968. 99.8 F7692
- 77209 WALKER, L. C. The use of chemicals in forest farming. Forest. Res. Notes 22(7):56-61. Mar. 1968. 99.8 F7692  
Economic poisons and fertilizers.
- 77210 ZHOKHOV, P. I., and NIKOLAENKO, V. T. Posobie agrolesomeliatoru po lesozashchite [A forester's manual on protection of forests]. Moskva, Lesnaya Promyshlennost', 1967. 203 p. SB761.Z43  
Bibliography, p.197-202.  
Control of pests and diseases.

### Bacterial Diseases

- 77211 HILDERBRAND, D. C., and SCHROTH, M. N. Removal of pseudomonads from plant leaves and measurement of their in vivo  $\beta$ -glucosidase synthesis. Phytopathology 58(3):354-358. Mar. 1968. 464.8 P56  
Chiefly Pseudomonas putida, P. syringae, and P. savastanoi.

- 77212 KNOSEL, D., and GARBER, E. D. Separation of pectolytic and cellulolytic enzymes in culture filtrates of phytopathogenic bacterial species by starch gel zone electrophoresis. *Phytopathol. Z.* 61(3):292-298. Mar.1968. 464.8 P562
- 77213 MATSUBARA, S., ARMSTRONG, D. J., and SKOOG, F. Cytokinins in tRNA of *Corynebacterium fascians*. *Plant Physiol.* 43(3):451-453. Ref. Mar.1968. 450 P692  
Plant pathogen.
- 77214 RUSCH, V., and LEBEN, C. Epiphytic microflora, the balloon ring isolation technique. *Can. J. Microbiol.* 14(4):486-487. Apr.1968. 421 C16  
For detection of pathogenic bacteria.

## Bacterial Diseases - Field Crops

- 77215 DUNLEAVY, J., and KUNKEL, J. F. Inhibition of *Bacillus subtilis* by amo-1618. *Phytopathology* 58(4):456-459. Apr.1968. 464.8 P56  
Treatment of soybean plants.
- 77216 HEU, M. H., CHANG, T. T., and BEACHELL, H. M. Inheritance of culm length, panicle length, duration to heading and bacterial leaf reaction in a rice cross, Sigadis X Taichung (native). 1. *Jap. J. Breeding* 18(1):7-11. Feb. 1968. 64.8 J27
- 77217 LEJEUNE, B., and JUBIER, M. F. Study of lysopine synthesis from lysine in crown gall tissues. *Acad. Sci. C. R., Ser. D.* 266(11): 1189-1191. Ref. Mar.11,1968. 505 P21  
Of tobacco, *Parthenocissus tricuspidata*, and *Scorsonera hispanica*.
- 77218 PEGG, G. F., and SEQUEIRA, L. Stimulation of aromatic biosynthesis in tobacco plants infected by *Pseudomonas solanacearum*. *Phytopathology* 58(4):476-483. Ref. Apr.1968. 464.8 P56

## Bacterial Diseases - Horticultural Crops

- 77219 BLYNOV, V. A. Using antibiotics to control bacterial diseases of strawberries. (Rus) *Zashch. Rast.* 3:24-25. 1968. 421 Z1
- 77220 BORDELEAU, L. M., and LACHANCE, R. A. Effects of purines and pyrimidines on the growth of *Corynebacterium sepedonicum* (Spiek. and Kott.) Skapt. and Burkh. (Fr) *Can. J. Microbiol.* 14(4):475-478. Ref. Apr.1968. 421 C16  
English summary.  
Pathogenic to potato.
- 77221 BORDELEAU, L. M., and LACHANCE, R. A. The mineral requirements of *Corynebacterium sepedonicum* (Spiek. and Kott.) Skapt. and Burkh. (Fr) *Can. J. Microbiol.* 14(4):467-473. Ref. Apr.1968. 421 C16  
English summary.  
Pathogenic to potatoes.
- 77222 BUTCHER, C. L., DEAN, L. L., and LAFERRIERE, L. Control of halo blight of beans in Idaho. *Plant Dis. Rep.* 52(4):295-297. Ref. Apr.1968. 1.9 P69P  
*Pseudomonas phaseolicola*.
- 77223 EPTON, H. A. S., and DEVERALL, B. J. A biochemical difference between healthy bean leaves resistant and susceptible to the halo-blight disease caused by *Pseudomonas phaseolicola*. *Ann. Appl. Biol.* 61(2):255-268. Ref. Apr.1968. 442.8 An72
- 77224 HOITINK, H. A. J., HAGEDORN, D. I., and MCCOY, E. Survival, transmission, and taxonomy of *Pseudomonas syringae* van Hall, the causal organism of bacterial brown spot of bean (*Phaseolus vulgaris* L.). *Can. J. Microbiol.* 14(4):437-441. Ref. Apr.1968. 448.8 C162
- 77225 KEIL, H. L., and WILSON, R. A. Relation of streptomycin sprays to fire blight control and apple fruit residue. *Plant Dis. Rep.* 52(4):259-262. Apr.1968. 1.9 P69P  
Causal organism, *Erwinia amylovora*.

- 77226 EL KHALIFA, M. D., and LIPPINCOTT, J. A. Quantitative measurements of interactions between crown gall tumors and the pinto bean host. *Amer. J. Bot.* 55(3):382-391. Ref. Mar. 1968. 450 Am36  
Inoculated with *Agrobacterium tumefaciens*.
- 77227 LAYNE, R. E. C., BAILEY, H., and HOUGH, L. F. Efficacy of transmission of fire blight resistance in *Pyrus*. *Can. J. Plant Sci.* 48(3): 231-243. Ref. May 1968. 450 C16  
Testing resistance of pear and wild spp. of *Pyrus* hybrids to *Erwinia amylovora*.
- 77228 LAYNE, R. E. C. A quantitative local lesion bioassay for *Corynebacterium michiganense*. *Phytopathology* 58(4):534-535. Apr.1968. 464.8 P56  
Tests with tomatoes.
- 77229 MCCAIN, A. H., and BYRNE, T. G. Crown gall control in greenhouse roses. *Florists' Rev.* 142(3670):25,78. Mar.28,1968. 80 W41  
Caused by *Agrobacterium tumefaciens*, controlled with Bacticin.
- 77230 MCCARTER, S. M., and JAWORSKI, C. A. Greenhouse studies on the spread of *Pseudomonas solanacearum* in tomato plants by clipping. *Plant Dis. Rep.* 52(4):330-334. Apr.1968. 1.9 P69P
- 77231 SCHROTH, M. N., HILDEBRAND, D. C., and O'REILLY, H. J. Off-flavor of olives from trees with olive knot tumors. *Phytopathology* 58(4):524-525. Apr.1968. 464.8 P56  
Infected by *Pseudomonas savastanoi*.
- 77232 SCHUSTER, M. L., VIDAVER, A. K., and MANDEL, M. A purple pigment producing bean wilt bacterium, *Corynebacterium flaccum-faciens* var. *violaceum*, n. var. *Can. J. Microbiol.* 14(4):423-427. Ref. Apr.1968. 448.8 C162
- 77233 SHKLYAR, S. N. Bakterial'nyi ozhog plodovyykh derev'ev [Bacterial fire-blight of fruit]. *Moskva, Kolos*, 1967. 32 p. Ref. SB608.F8S5  
Caused by *Erwinia amylovora*; includes control.
- 77234 THUSTON, H. D., and LOZANO T., J. C. Resistance to bacterial wilt of potatoes in Colombian clones of *Solanum phureja* [*Pseudomonas solanacearum*]. *Amer. Potato J.* 45(2):51-55. Ref. Feb.1968. 75.8 P842
- 77235 THYR, B. D. Resistance to bacterial canker in tomato, and its evaluation. *Phytopathology* 58(3):279-281. Ref. Mar.1968. 464.8 P56  
Causal agent: *Corynebacterium michiganense*.
- 77236 ZUCKER, M., and EL-ZAYAT, M. M. The effect of cycloheximide on the resistance of potato tuber discs to invasion by a fluorescent *Pseudomonas* sp. *Phytopathology* 58(3):339-344. Ref. Mar.1968. 464.8 P56

## Bacterial Diseases - Forest Trees

- 77237 HANSBROUGH, J. R. Bacterial canker of poplar in North America. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.5:427. 1967. 99.9 In82  
Causal agent still unknown.
- 77238 RIDE, M. Bacterial canker of poplar in Europe. (Fr) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.5:414-426. 1967. 99.9 In82  
*Aplanobacter populi*.
- 77239 RIDE, M., and ESKANDARI, F. Etiology of the tumor of *Pinus halepensis* Mill. (Fr) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.5:445-446. 1967. 99.9 In82  
Possible bacterial origin.
- 77240 UROSEVIC, B. Weeping necroses of forest trees found on the territory of Czechoslovakia. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.5:485-493. 1967. 99.9 In82  
Review of the literature.  
Bacterial causal agent suspected on various hardwoods.



## Fungus Diseases

- 77241 BARNETT, H. L. The effects of light, pyridoxine, and biotin on the development of the mycoparasite, *Gonatobotryum fuscum*. *Mycologia* 60(2):244-251. Mar./Apr. 1968. 450 M99  
Isolated from *Ceratocystis fagacearum*; tests with *Graphium* sp. as host, and *Sordaria fimi-cola* as biotin assay fungus.
- 77242 BERRY, R. A., and MAIER, C. R. Loss by *Chaetomium globosum* and *C. cochlioides* of in vitro antagonism to *Fusarium solani* F. sp. phaseoli. *Mycologia* 60(2):457-459. Mar./Apr. 1968. 450 M99
- 77243 BRANDENBURG, W. Protection is vital when using dangerous sprays in glasshouses. *New Zealand J. Agr.* 116(4):22-25. Apr. 1968. 23 N48J  
Fungicides and insecticides.
- 77244 CHUMAKOV, A. E. Forecasting fungus diseases in Yugoslavia. (Rus) *Zashch. Rast.* 2: 52. 1968. 421 Z1
- 77245 COOK, R. J., FORD, E. J., and SNYDER, W. C. Mating types, sex, dissemination, and possible sources of clones of *Hypomyces (Fusarium) solani* f. *pisi* in South Australia. *Australian J. Agr. Res.* 19(2):253-259. Mar. 1968. 23 Au783
- 77246 CURL, E. A., RODRIGUEZ-KABANA, and FUNDERBURK, H. H. Influence of atrazine and varied carbon and nitrogen amendments on growth of *Sclerotium rolfsii* and *Trichoderma viride* in soil. *Phytopathology* 58(3):323-328. Ref. Mar. 1968. 464.8 P56
- 77247 DINOOR, A., KHAIR, J., and FLEISHMANN, G. Pathogenic variability and the unit representing a single fertilization in *Puccinia coronata* var. *avenae*. *Can. J. Bot.* 46(4):501-508. Ref. Apr. 1968. 470 C16C
- 77248 DURAN, R., and SAFEULLA, K. M. Aspects of teliospore germination in some North American smut fungi [Ustilaginales]. I. *Mycologia* 60(2):231-234. Ref. Mar./Apr. 1968. 450 M99
- 77249 GERSHON, H., and PARMEGIANI, R. Secondary mechanisms of antifungal action of substituted 8-quinolins. I. 5- and 5,7-substituted 8-methoxyquinolins. *Boyce Thompson Inst. Contrib.* 24(2):33-38. 451 B69
- 77250 GORSKA-POCZOPKO, J., and CHOINKA, A. Compound fungicidal sprays and factors affecting their effectiveness. (Pol) *Nowe Roln.* 17(4): 21-22. Feb. 16/29, 1968. 20.5 N86
- 77251 HIRATSUKA, Y., and MARUYAMA, P. J. Nuclear condition of the germ tubes of *Peridermium ephedrae*. *Mycologia* 60(2):437-438. Mar./Apr. 1968. 450 M99  
Rust of *Ephedra* spp.
- 77252 HOCKING, D., and FREEMAN, G. H. Fungicides for arabica coffee. 17. Relationships among some new fungicides, leaf rust (*Hemileia vastatrix*), leaf fall and yield. *Trop. Agr.* 45(2): 141-145. Apr. 1968. 26 T754  
Tanzania.
- 77253 KOMAI, H., and NEILANDS, J. B. Effect of zinc ions on  $\sigma$ -aminolevulinic acid dehydratase in *Ustilago sphaerogena*. *Arch. Biochem. Biophys.* 124(1/3):456-461. Ref. Mar. 20, 1968. 381 Ar2
- 77254 KRANZ, J. An analysis of annual epidemics of fungus parasites. III. On correlations between quantitative characteristics of outbreak curves and similarities of epidemics. (Ge) *Phytopathol. Z.* 61(3):205-217. Ref. Mar. 1968. 464.8 P562  
English summary.
- 77255 KRANZ, J. An analysis of annual outbreaks of fungus parasites. I-II. (Ge) *Phytopathol. Z.* 61(1):59-86; (2):171-190. Ref. Jan.-Feb. 1968. 464.8 P562  
English summary.  
I, The outbreak curves and their dependence upon environmental factors; II, Qualitative and quantitative characteristics of the outbreak curves.  
Study of 42 native wild plants and 59 fungus spp. in Guinea.
- 77256 LIMONARD, T. Improved blotting paper method, in the sanitary testing of seeds. (Ge) *Umschau* 68(4):122-123. Feb. 15, 1968. 474 Um7  
In control of fungus diseases.
- 77257 LOCKE, S. B. A method for isolating *Sclerotium cepivorum*. *Plant Dis. Rep.* 52(4):277. Apr. 1968. 1.9 P69P
- 77258 MIRZA, J. H. *Urocystis dioscoreae* from West Pakistan. *Mycologia* 60(2):439-440. Mar./Apr. 1968. 450 M99  
Isolated from *Dioscorea deltoidea*.
- 77259 MZHAVANADZE, A. V. *Phytophthora (cinnamomi)* diseases of Grecian laurel. (Geo) *Akad. Nauk Gruz. SSR. Soobshch.* 49(1):211-216. Jan. 1968. 511 Ak146  
Russian summary.  
Laurus nobilis.
- 77260 NEWHALL, A. G. To increase efficiency or lower the cost of the control of *Phytophthora* pod rot of cacao. *Turrialba* 18(1):79-82. Jan./Mar. 1968. 8 T86
- 77261 NODDEGAARD, E., HANSEN, T., and RASMUSSEN, A. N. Testing of fungicides and insecticides 1965-1966. (Da) *Tidsskr. Planteavl* 71 (4):456-511. 1968. 11 T439  
English summary.
- 77262 PAPAIVIZAS, G. C., ADAMS, P. B., and LEWIS, J. A. Survival of root-infecting fungi in soil. V. Saprophytic multiplication of *Fusarium solani* f. sp. *phaseoli* in soil. *Phytopathology* 58(4):414-420. Ref. Apr. 1968. 464.8 P56
- 77263 PIECHOCKA, J. The application of organomercurial fungicides in agriculture and their toxicity. (Pol) *Warsaw. Panstw. Zakl. Hig. Roczn.* 19(1):1-10. Ref. 1968. 449.9 W26  
English summary.
- 77264 RICH, S., and TOMLINSON, H. Effects of ozone on conidiophores and conidia of *Alternaria solani*. *Phytopathology* 58(4):444-446. Apr. 1968. 464.8 P56
- 77265 RICHARDSON, L. T. Selective vapor phase activity of chloronitro- and chlorobenzenes in soil. *Phytopathology* 58(3):316-322. Ref. Mar. 1968. 464.8 P56  
Fungicides.
- 77266 ROYLE, D. J. Hop black root-rot (*Phytophthora citricola* Sawada) in England. *Plant Pathol.* 17(1):36-40. Ref. Mar. 1968. 464.8 P692
- 77267 SCHUEPP, H., and GREEN, R. J. Indirect assay methods to investigate soil fungistasis with special consideration of soil-pH. *Phytopathol. Z.* 61(1):1-28. Ref. Jan. 1968. 464.8 P562
- 77268 SHUMAKOVA, A. A. Using copper chloride. (Rus) *Zashch. Rast.* 4:27-28. 1968. 421 Z1  
As fungicide to control agricultural plant diseases.
- 77269 SLEPYAN, E. I. The blastomorph stage of gall-formation, caused by *Ustilago maydis* (DC) Cda. on the leaves of Indian corn. (Rus) *Akad. Nauk SSSR. Dokl.* 178(6):1424-1425. 1968. 511 P444A
- 77270 STOESSL, A. Some antifungal agents of plant origin. *Chem. Can.* 19(8):20, 28. Ref. Aug. 1967. 381 C4236  
Hordatinas.
- 77271 WICKER, E. F., and GARDNER, C. G. Fungal parasites of dwarf mistletoes [*Arceuthobium*]. *Mycologia* 60(2):372-383. Ref. Mar./Apr. 1968. 450 M99  
*Wallrothiella arceuthobii* and *Melanconiales*.

## Fungus Diseases - Field Crops

- 77272 AHMED, L., KULKARI, N. B., and PATIL, P. L. Studies on the basidial formation by *Sclerotium rolfsii* Sacc. VII. Abortive basidial formation on media. *Mycopathol. Mycol. Appl.* 34(2):186-192. Ref. Mar. 22, 1968. 450 M994  
Tests with isolates from wilt affected field crops.
- 77273 ALLAN, R. E., and PURDY, L. H. Single gene control of stripe rust resistance in wheat. *Plant Dis. Rep.* 51(12):1041-1043. Dec. 1967. 1.9 P69P  
Caused by *Puccinia striiformis* in the Pacific Northwest.
- 77274 ANDREEV, L. Control of rust of grain. (Rus) *Zemledelie* 4:38-43. Apr. 1968. 20 Z44
- 77275 BEBIYA, E. A. Chemical control of downy mildew of tobacco in the Abkhazia. (Rus) *Ta-bak* 1:51-54. 1968. 69.8 T112  
Several fungicides tested.
- 77276 BOHNEN, K. New experiences with Sabithane for the control of yellow rust in cereals. *Agr. Aviation* 19(1):12-13. Jan. 1968. 333.8 Ag8
- 77277 BRUEHL, G. W., and others. Experiments with *Cercospora* [herpotrichoides] foot rot (straw breaker) disease of winter wheat. *Wash. Agr. Exp. Sta. Bull.* 694, 14 p., map. Ref. Apr. 1968. 100 W27E  
W. L. Nelson, F. Koehler, and O. A. Vogel, joint authors.  
U. S. Department of Agriculture, cooperating. Control.
- 77278 BRUEHL, G. W., and LAI, P. Influence of soil pH and humidity on survival of *Cephalosporium gramineum* in infested wheat straw. *Can. J. Plant Sci.* 48(3):245-252. Ref. May 1968. 450 C16  
Washington State.
- 77279 BRUEHL, G. W., and LAI, P. The probable significance of saprophytic colonization of wheat straw in the field by *Cephalosporium gramineum*. *Phytopathology* 58(4):464-466. Apr. 1968. 464.8 P56
- 77280 BUSHNELL, W. R. In vitro development of an Australian isolate of *Puccinia graminis* f. sp. tritici. *Phytopathology* 58(4):526-527. Apr. 1968. 464.8 P56  
From wheat.
- 77281 CHAKRABARTI, N. K. Some effects of ultra-violet radiation on resistance of barley to net blotch and spot blotch. *Phytopathology* 58(4):467-471. Apr. 1968. 464.8 P56
- 77282 CHUMAKOV, A. E. Problem of grain rust. (Rus) *Zashch. Rast.* 4:19-21. 1968. 421 Z1  
Proposed research programs.
- 77283 COLE, H., and others. Influence of various soil incorporated fungicides and nematocides on macro and micro element constituents of *Zea mays* and *Phaseolus vulgaris*. *Bull. Environ. Contamination Toxicol.* 3(2):116-126. Mar./Apr. 1968. RA1270.P35A1  
D. Mackenzie, C. B. Smith, and E. L. Bergman, joint authors.
- 77284 COOK, J. R., and BRUEHL, G. W. Relative significance of parasitism versus saprophytism in colonization of wheat straw by *Fusarium roseum* "Culmorum" in the field. *Phytopathology* 58(3):306-308. Ref. Mar. 1968. 464.8 P56
- 77285 DEAN, C. E., HEGGESTAD, H. E., and GROS, S. O. J. Transfer of blue mold resistance into F<sub>1</sub> tobacco hybrids. *Crop Sci.* 8(1):93-96. Ref. Jan./Feb. 1968. 64.8 C883
- 77286 DOBREV, D. A study on the influence of soil temperature on the resistance of barley varieties to *Helminthosporium gramineum*. (Bu) *Rast. Zashch.* 16(3):17-21. 1968. 423.92 So2
- 77287 DURAN, R. Subterranean sporulation by two graminicolous smut fungi. *Phytopathology* 58(3):390. Mar. 1968. 464.8 P56  
*Ustilago steriformis*, strope smut from *poa pratensis*, and *Urocystis agropyri*, flag smut from *Deschampsia caespitosa* and *Phleum alpinum*.
- 77288 DYCK, P. L., and SAMBORSKI, D. J. Genticis of resistance to leaf rust [*Puccinia recondita*] in the common wheat varieties Webster, Loros, Brevit, Carina, Malakof and Centenario. *Can. J. Genet. Cytol.* 10(1):7-17. Mar. 1968. 443.8 C16
- 77289 ELGIN, J. H., and BEYER, E. H. Evaluation of sedlected alfalfa clones for resistance to *Sclerotinia trifoliorum* Eriks. *Crop Sci.* 8(2):265-266. Mar./Apr. 1968. 64.8 C833
- 77290 ERWIN, D. C., and DEWOLFE, T. A. Lack of control of *Verticillium [albo-atrum]* wilt of cotton by three systemic insecticides. *Plant. Dis. Rep.* 52(4):281-283. Apr. 1968. 1.9 P69P  
Disulfoton, phorate and temik used in California.
- 77291 EYAL, Z., CLIFFORD, B. C., and CALDWELL, M. A settling tower for quantitative inoculation of leaf blades of mature small grain plants with urediospores. *Phytopathology* 58(4):530-531. Apr. 1968. 464.8 P56  
Tests with *Puccinia coronata avenae*, rust of cereals.
- 77292 FLEISCHMANN, G., MARTENS, J. W., and MCKENZIE, R. I. H. Parathion, a selective rust fungicide, compared with maneb in the control of cereal rusts. *Can. J. Plant Sci.* 48(3):261-265. May 1968. 450 C16  
*Puccinia coronata avenae*, *P. graminis*, and *P. recondita*.
- 77293 FRANK, Z. R. *Pythium* pod rot of peanut. *Phytopathology* 58(4):542-543. Apr. 1968. 464.8 P56
- 77294 FRIC, F., and PAULECH, C. Study of the isozymograms of some enzymes during the course of mildew pathogenesis of barley (*Erysiphe graminis* f. spec. hordei Marchal). (Ge) *Phytopathol. Z.* 61(3):273-285. Ref. Mar. 1968. 464.8 P562
- 77295 GALVEZ-E., G. E., and LOZANO-T., J. C. Identification of races of *Piricularia oryzae* in Colombia. *Phytopathology* 58(3):294-296. Ref. Mar. 1968. 464.8 P56  
Blast disease of rice.
- 77296 GANCHEVA, I. Use of Perocine preparation for control of wheat bunt [*Tilletia laevis*]. (Bu) *Rast. Zashch.* 16(3):28-31. 1968. 423.92 So2
- 77297 GESHELE, E. E., and BABAYANTS, L. T. Applying agricultural practices against rust. (Rus) *Zashch. Rast.* 3:20-21. 1968. 421 Z1  
Of grain.
- 77298 GORLENKO, M. V. Fungi causing rust of grain. (Rus) *Zashch. Rast.* 3:29-31. 1968. 421 Z1  
In the USSR.
- 77299 JACKSON, C. R. Evaluation of Terraclor Super X [Terraclor + Terrazole] for control of soil-borne pathogens of peanuts in Georgia. *Ga. Agr. Exp. Sta. Res. Rep.* 4, 10 p. May 1967. S51.E22  
Rots caused by *Rhizoctonia solani*, and stem rot caused by *Sclerotium rolfsii*.
- 77300 JACKSON, C. R. Studies on control of peanut pod fungi. I-II. *Ga. Agr. Exp. Sta. Res. Rep.* 11, 18 p. Ref. Oct. 1967. S51.E22  
Soil fumigation and fungicide tests.
- 77301 JACKSON, L. L., and FREAR, D. S. Lipids of rust fungi. II. Stigmast-7-enol and stigmast-7,24(28)-dienol in flax rust urediospores. *Phytochemistry* 7(4):651-654. Ref. Apr. 1968. 450 P5622
- 77302 KALASHNIKOV, K. YA. The "Black embryo" of grain. (Rus) *Selekt. Semenovodstvo* 1:58-60. Jan./Feb. 1968. 61.9 Se5  
Wheat disease caused by several fungi; includes control.
- 77303 KALASHNIKOV, V. K. Should we reject this kind of seeds? (Rus) *Zashch. Rast.* 2:14. 1968. 421 Z1  
Planting quality of wheat seeds affected by fungus: *Alternaria tenuis* and *Helminthosporium sativum*.



- 77304 KALASHNOKOV, K. YA. Losses caused by smut. (Rus) Zashch. Rast. 2:4-5. 1968. 421 Z1 Grain.
- 77305 EL-KHADEM, M. The influence of fungicides and insecticides on Aspergillus [Niger and A. flavus] outbreaks in peanut seedlings. II. Seed treatments. (Ge) Z. Pflanzenkr. (Pflanzenpathol.) Pflanzenschutz 75(3):151-160. Mar. 1968. 464.8 Z3 English summary.
- 77306 EL-KHADEM, M. Influence of fungicides and insecticides on the occurrence of Aspergillus [flavus and A. niger] on peanut seedlings. I. Investigations in vitro. (Ge) Z. Pflanzenkr. (Pflanzenpathol.) Pflanzenschutz 75(2):86-93. Feb. 1968. 464.8 Z3 English summary.
- 77307 KOCHEREZHNIKIN, V. G. Cotton wilt controlling measures in the practice. (Rus) Akad. Nauk SSSR. Izv. Ser. Biol. 1:158-161. Jan./Feb. 1968. 511 Sa2B Caused by Verticillium dahliae and Fusarium vasinfectum.
- 77308 KREXNER, R. A race of Nicotiana exigua which has proved itself especially resistant to Peronospora tabacina in the cotyledon test. (Ge) Pflanzenschutzberichte 37(1/3):15-17. Feb. 1968. 464.9 P48 English summary. Austria.
- 77309 KRYLOVA, T. V. The rust of flax. (Rus) Len Konoplya 2:34. 1968. 73.8 L542 Caused by Melampsora lini.
- 77310 LATCH, G. C. M., and HANSON, E. W. Respiratory patterns in Trifolium pratense inoculated and noninoculated with Erysiphe polygoni. Phytopathology 58(3):297-300. Ref. Mar. 1968. 464.8 P56
- 77311 MALCA, I., and others. Respiratory and enzymatic studies with Verticillium albo-atrum from cotton. Phytopathology 58(3):348-353. Mar. 1968. 464.8 P56 D. C. Erwin, J. J. Sims, M. Long, and B. Jones, joint authors.
- 77312 MALONE, J. R. Mercury-resistant Pyrenophora avenae in Northern Ireland seed oats. Plant Pathol. 17(1):41-45. Ref. Mar. 1968. 464.8 P692
- 77313 MATTHEWS, D. A note on the occurrence of Fusarium nivale (Fr.) Ces. on certified wheat seed in New England. New Zeal. J. Agr. Res. 11(1):223. Feb. 1968. 23 N4892
- 77314 MCKENZIE, R. I. H., and others. An association of stem rust and crown rust resistance in Jostrain oats. Can. J. Genet. Cytol. 10(1):190-195. Ref. Mar. 1968. 443.8 C16 J. W. Martens, G. Fleischmann, and D. J. Samborski, joint authors. Puccinia graminis avenae and P. coronata avenae.
- 77315 NARASIMHAN, M. J., and THIRUMALACHAR, M. J. Heteroecism in Puccinia duthiae, Elisha Mitchell Sci. Soc. J. 84(1):258-260. Spring 1968. 500 EL4 Grass rust, India.
- 77316 NIKIFOROV, A., and MAMAEV, K. Smut and root rot. (Rus) Zemledelie 4:44-46. Apr. 1968. 20 Z44 Fungus diseases of wheat; includes control.
- 77317 OLMO, E., and RAPPARINI, G. Trials for control of Helminthosporium on barley. (It) Inform. Fitopatol. 18(6):87-89. Mar. 31, 1968. 464.8 In3 Fungicides in control of H. gramineum.
- 77318 PARIJ, I. F. Eradication of the loose smut. Zashch. Rast. 2:5-6. 1968. 421 Z1 Hot water used for treatment of wheat and barley seeds.
- 77319 PETERSEN, H. I., and CHRISTENSEN, B. D. Survival of Ophiobolus graminis Sacc. and Cercospora herpotrichoides Fron. buried in different depths. (Da) Tidsskr. Planteavl 71(4):534-537. 1968. 11 T439 English summary. Pathogenic to wheat.
- 77320 POPOV, V. I. Thermochemical method in controlling loose smut in the German Democratic Republic. (Rus) Zashch. Rast. 2:51. 1968. 421 Z1 Chiefly treatment of grain seeds with infrared rays.
- 77321 PRISTOU, R. 1967 fungicide recommendations; diseases of corn. Va. Polytech. Inst. Ext. Leaflet. 293, 2 p. Dec. 1966. 275.29 V81L
- 77322 PRISTOU, R. 1967 fungicide recommendations; diseases of peanuts. Va. Polytech. Inst. Ext. Leaflet. 236, 8 p. Dec. 1966. 275.29 V81L Includes list of fungicides and nematocides.
- 77323 PRISTOU, R. 1967 fungicide recommendations; diseases of small grains (seed treatment). Va. Polytech. Inst. Ext. Leaflet. 295, 2 p. Dec. 1966. 275.29 V81L
- 77324 PRISTOU, R. 1967 fungicide recommendations; diseases of sorghum. Va. Polytech. Inst. Ext. Leaflet. 296, 2 p. Dec. 1966. 275.29 V81L
- 77325 PRISTOU, R. 1967 fungicide recommendations; diseases of soybeans. Va. Polytech. Inst. Ext. Leaflet. 239, 2 p. Dec. 1966. 275.29 V81L Use of thiram and captan.
- 77326 RAI, J. N., SINHA, A. K., and TEWARI, A. K. Respiratory changes in bajra [Pennisetum typhoides] tissues associated with the "green ear" [Sclerospora graminicola] disease. Phytopathol. Z. 61(1):49-51. Ref. Jan. 1968. 464.8 P562 India.
- 77327 ROTEM, J., COHEN, Y., and SPIEGEL, S. Effect of soil moisture on the predisposition of tobacco to Peronospora tabacina. Plant Dis. Rep. 52(4):310-314. Ref. Apr. 1968. 1.9 P69P
- 77328 SAMBORSKI, D. J., and DYCK, P. L. Inheritance of virulence in wheat leaf rust [Puccinia recondita] on the standard differential wheat varieties. Can. J. Genet. Cytol. 10(1):24-32. Mar. 1968. 443.8 C16
- 77329 SCHAREN, A. L., and TAYLOR, J. M. CO<sub>2</sub> assimilation and yield of Little Club wheat infected by Septoria nodorum. Phytopathology 58(4):447-451. Ref. Apr. 1968. 464.8 P56
- 77330 SCHAUF, K. The role of light in spore germination and sporidial production of the wheat smut fungi Tilletia caries (DC.) Tul. (Ge) Arch. Mikrobiol. 60(2):111-123. Ref. 1968. 442.8 Ar26 English summary.
- 77331 SIDDIQUI, W. M., HALISKY, P. M., and LUND, S. Relationship of clipping frequency to root and crown deterioration in red clover. Phytopathology 58(4):486-488. Apr. 1968. 464.8 P56 Relation to root rot and changes in fungal populations.
- 77332 SIMONS, M. D., and MICHEL, L. J. Oat maturity and crown rust [Puccinia coronata] response. Crop Sci. 8(2):254-256. Mar./Apr. 1968. 64.8 C833
- 77333 SINGH, R. M., WALLACE, A. T., and BROWNING, R. M. Mitotic inhibition and histological changes induced by Helminthosporium victoriae toxin in susceptible oats (Avena byzantina C. Koch). Crop Sci. 8(2):143-146. Ref. Mar./Apr. 1968. 64.8 C833
- 77334 SMILEY, J. H., FLOWERS, R. A., and CHAPMAN, R. A. Occurrence of blue mold on tobacco in Kentucky in 1967. Plant Dis. Rep. 52(3):204, map. Mar. 1968. 1.9 P69P Caused by Peronospora tabacina.
- 77335 SMITH, J. D. Control of Pyrenophora bromi in Bromus inermis by burning crop residues. Can. J. Plant Sci. 48(3):329-331. Ref. May 1968. 450 C16
- 77336 STEPANOV, K. M. Problem of forecasting rust diseases of grain. (Rus) Zashch. Rast. 3:42-43. 1968. 421 Z1
- 77337 STEWART, D. M., GILMORE, E. C., and AUSEMUS, E. R. Resistance to Puccinia graminis derived from Secale cereale incorporated into Triticum aestivum. Phytopathology 58(4):508-511. Apr. 1968. 464.8 P56

- 77336 TAKEGAMI, S., and SASAI, K. Studies on resistance of wheat varieties to scab (*Gibberella zeae* (Schw.) Petch.). VI. Scab infection of wheat heads by the improved method of inoculation and varietal differences in resistance. (Ja) Crop Sci. Soc. Japan. Proc. 36(2):162-168. June 1967. 22.5 C88  
English summary.
- 77339 TILAK, K. V. B. R. Studies on the sporulation of *Colletotrichum falcatum* Went on sugarcane juice of resistant and susceptible varieties. Phytopathol. Z. 61(3):286-291. Ref. Mar.1968. 464.8 P562
- 77340 TU, J. C. Physiological specialization of strains of *Pellicularia sasakii* isolated from rice plants. Plant Dis. Rep. 52(4):323-326. Apr.1968. 1.9 P69P
- 77341 TUBOLY, L. New results in controlling *Pero-nospora tabacina* Adams. (Hu) Budapest. Nov-nyvedelmi Kutató Intézet. Evkon. 10:7-33. Ref. 1965/1967. 423.92 B85  
English summary.  
Chemical.
- 77342 WESTSIK, V. Wilting disease of lupine. (Hu) Magyar Mezogazdaság 23(7):14. Feb.14,1968. 19 M27  
*Fusarium oxysporum* of *Lupinus luteus* and *L. albus*.
- 77343 YIRGOU, D., and CALDWELL, R. M. Stomatal penetration of wheat seedlings by stem and leaf rusts in relation to effects of carbon dioxide, light, and stomatal aperture. Phytopathology 58(4):500-507. Ref. Apr.1968. 464.8 P56  
Penetration by the fungus *Puccinia graminis tritici*.
- 77344 ZANDE, M. H. van der. A few thoughts and notes on the Mau-Narok "take-all" problem. Kenya Farmer 138:34-35. Jan.1968. 24 R812  
Fungus disease of wheat.
- 77345 ZSCHEILE, F. P. Peculiar failure of germinated *Tilletia controversa* teliospores to bunt wheat. Phytopathol. Z. 61(1):38-40. Jan.1968. 464.8 P562
- Fungus Diseases - Horticultural Crops
- 77346 AKSENOVA, V. A., and others. The effect of inoculation with *Botrytis cinerea* upon the properties and functions of the ribosomes of cabbage tissue. (Rus) Akad. Nauk SSSR. Dokl. 178(3):741-744. Ref. 1968. 511 P444A  
B. A. Rubin, R. V. Savchenko, A. I. Brynza, joint authors.
- 77347 AMERICAN VEGETABLE GROWER. Up, up, and away! Amer. Veg. Grower 16(3):13,64,66, 68. Mar.1968. 80 C733  
Aerial application of fungicides and insecticides.
- 77348 ARNESON, P. A., and DURBIN, R. D. The sensitivity of fungi to *L*-tomatine. Phytopathology 58(4):536-537. Apr.1968. 464.8 P56  
Tests with tomato pathogens.
- 77349 AVIZOHAR-HERSHENZON, Z., and SHACKED, P. A baiting method for estimating the saprophytic activity of *Sclerotium rolfsii* in soil. Phytopathology 58(4):410-413. Ref. Apr.1968. 464.8 P56  
Bean seedlings used for the study of its pathogenic activity.
- 77350 BARKSDALE, T. H. Rhizoctonia soil rot and buckeye rot of tomatoes: Observational differences in susceptibility. Plant Dis. Rep. 52(4):284-286. Apr.1968. 1.9 P69P  
Infection from *Rhizoctonia solani* and *Phytophthora parasitica* by variety for resistance.
- 77351 BERG, L. A. Diamond soft of bananas caused by *Fusarium roseum* "Gibbosum". Phytopathology 58(3):388-389. Mar.1968. 464.8 P56
- 77352 BERGER, R. D. Rate and interval of fungicide application on the control of celery early blight. Fla. Everglades Exp. Sta. Mimeo Rep. EES 68-7.4 p. Mar.1968. 100 F663  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.  
Caused by *Cercospora apii*.
- 77353 BYCHENKO, N. I. Anthracnose and the measures of its control. (Rus) Vinodel. Vinograd. SSSR 2:33-37. 1968. 95.8 V77  
Grapes.
- 77354 CHEKIRBAEVA, S. Spotted necrosis of grapes. (Rus) Zashch. Rast. 3:34. 1968. 421 Z1  
Caused by *Rhacodiella vitis*; includes control.
- 77355 CHEMODANOVA, E. V., and LEVTEEVA, N. S. Rust of gooseberries. (Rus) Zashch. Rast. 3:23. 1968. 421 Z1  
Caused by *Puccinia pringsheimiana*; includes control.
- 77356 DE ROSA, M. The chestnuts revive; removing the virulence from *Endothia parasitica*. (It) G. Agr. 78(12):147. Mar.24,1968. 16 It1G
- 77357 DICKENS, J. S. W. The resistance of various cultivars and species of *Chrysanthemum* to white rust (*Puccinia horiana* Henn.). Plant Pathol. 17(1):19-22. Mar.1968. 464.8 P692
- 77358 DÖHY, J. Experiences in 1967 with wilting diseases of potato. (Hu) Magyar Mezogazdaság 23(4):12-13. Jan.24,1968. 19 M27  
Chiefly on *Colletotrichum atramentarium* and *Fusarium oxysporum* infestation.
- 77359 ELENKOV, E. Susceptibility of some cucumber varieties grown under greenhouse conditions to *Cladosporium cucumerinum*. (Bu) Rast. Zashch. 16(3):21-25. 1968. 423.92 So2
- 77360 FAWCETT, C. H., and SPENCER, D. M. Sclerotinia fructigena infection and chlorogenic acid content in relation to antifungal compounds in apple fruits. Ann. Appl. Biol. 61(2):245-253. Ref. Apr.1968. 442.8 An72
- 77361 GARIBALDI, A. On the efficacy of thiabendazole treatment for control of *Phialophora [cinerescens]* on carnations; on preliminary note. (It) Inform. Fitopatol. 18(4):52-53. Feb.29, 1968. 464.8 In3
- 77362 GOURLEY, C. O. Fungicidal control of *Botrytis cinerea* on four strawberry varieties. Can. J. Plant Sci. 48(3):267-272. May 1968. 450 C16  
Cause of gray mold.
- 77363 HANCOCK, J. G., and STANGHELLINI, M. E. Calcium localization in *Hypomyces [solani cucurbitae]* infected squash hypocotyls and effect of calcium on pectate lyase activity and tissue maceration. Can. J. Bot. 46(4):405-409. Ref. Apr.1968. 470 C16C
- 77364 HARRISON, J. A. C., and ISAAC, I. Leaf-area development in King Edward potato plants inoculated with *Verticillium albo-atrum* and *V. dahliae*. Ann. Appl. Biol. 61(2):217-230. Ref. Apr.1968. 442.8 An72
- 77365 HAYWARD, F. W., GRIERSON, W., and MCCORNACK, A. A. A colorimetric method for 2-aminobutane and its applications. Citrus Indus. 49(3):10-11,22. Mar.1968. 80 C49  
Fungicide of citrus fruit.
- 77366 HEALY, M. J., and BRITTON, M. P. Infection and development of *Helminthosporium sorokinianum* in *Agrostis palustris*. Phytopathology 58(3):273-278. Mar.1968. 464.8 P56
- 77367 HEJNDORF, F. Fungus diseases of vegetables. (Da) Haven 68(4):125-128. Apr.1968. 80 H29
- 77368 HILLE, M., and ULLRICH, J. Differences between provenances of a race of *Synchytrium endobioticum* (Schilb.) Perc. (Ge) Phytopathol. Z. 61(1):29-33. Jan.1968. 464.8 P562  
English summary.  
Cause of wart disease in potatoes.
- 77369 HORN, N. L., and CARVER, R. B. Overwintering of *Colletotrichum fragariae* in strawberry crowns. Phytopathology 58(4):540-541. Apr. 1968. 464.8 P56



- 77370 HUBER, G. Mildew and scab. (Ge) Chem. Tech. Landwirt. 19(3):106-107. 1968. 384 C4292  
Apple fungus diseases.
- 77371 HUNTER, D. E., and others. Inheritance of resistance to Verticillium [albo-atrum] wilt in Wisconsin. Amer. Potato J. 45(2):72-78. Feb. 1968. 75.8 P842  
H. M. Darling, F. J. Stevenson, and C. E. Cunningham, joint authors.
- 77372 HWANG, S. W., and others. Cryopreservation and pathogenicity of selected isolates of Colletotrichum, Rhizoctonia, and Phytophthora [fragariae]. Phytopathology 58(3):362-364. Mar. 1968. 464.8 P56  
A. L. Anderson, G. C. Papavizas, and R. H. Converse, joint authors.  
Tests with Colletotrichum lindemuthianum and beans, Phytophthora fragariae and strawberries, and Rhizoctonia solani and various hosts.
- 77373 ISAAC, I., and HARRISON, J. A. C. The symptoms and causal agents of early-dying disease (Verticillium wilt) of potatoes. Ann. Appl. Biol. 61(2):231-244. Ref. Apr. 1968. 442.8 An72
- 77374 JENKINS, A. E. Notes on spotted anthracnoses. XII. A historical record of pear spotted anthracnose (Elsinoe piri). Plant Dis. Rep. 52(4):277-279. Ref. Apr. 1968. 1.9 P69P
- 77375 JENKINS, P. T. The root of the trouble with Rhododendrons and Azaleas. J. Agr. [Melbourne] 66(2):48-49. Feb. 1968. 23 V66J  
Associated with the fungi Phytophthora cinnamomi and citricola; control methods used in Australia.
- 77376 KALINICHENKO, R. T. Clasterosporium [carpophilum] disease in Crimea. (Rus) Sadovodstvo 3:19. Mar. 1968. 80 Sal3  
Apricots.
- 77377 KENKNIGHT, G. Resistance of pecan to scab and bunch disease in Louisiana. Plant Dis. Rep. 52(4):307-309. Apr. 1968. 1.9 P69P  
Scab caused by Cladosporium effusum.
- 77378 KHELADZE, V. S. Black cancer of apple. (Rus) Zashch. Rast. 2:56. 1968. 421 Z1  
Caused by Sphaeropsis malorum; includes control.
- 77379 KIRYUKHINA, R. I., and PRIMAKOVSKAYA, M. A. Dangerous diseases of Chrysanthemum. (Rus) Zashch. Rast. 3:47. 1968. 421 Z1  
Caused by Puccinia horiana and Ascochyta chrysanthemi.
- 77380 KLYUCHAREVA, Z. K. Apple scab. (Rus) Zashch. Rast. 2:41-42. 1968. 421 Z1  
Caused by fungi; includes control.
- 77381 KNUTHSEN, H. K., and NELSON, M. R. Identification of two serotypes in squash mosaic virus strains. Phytopathology 58(3):345-347. Mar. 1968. 464.8 P56  
Includes strains isolated from watermelons.
- 77382 KOTIKOVA, G. SH. Fungicide mixtures. (Rus) Zashch. Rast. 3:25. 1968. 421 Z1  
Used for control of apple scab.
- 77383 KOTOVA, V. V. Root rot of peas. (Rus) Zashch. Rast. 2:22-23. 1968. 421 Z1  
Caused by Pythium artotrogus; includes control.
- 77384 LEH, H. O. Etiology of bowl formation in celeriac (Apium graveolens var. rapaceum (Miller) D. C.). III. The influence of plant protection measures on tuber development and bowl formation. (Ge) Z. Pflanzenkr. (Pflanzenpathol.) Pflanzenschutz 75(1):23-29. Jan. 1968. 464.8 Z3  
Control of Septoria apii-graveolentis and insects with fungicides and insecticides.
- 77385 LOCKE, S. B. Experimental control of onion white rot by means of soil chemicals. Plant Dis. Rep. 52(4):272-276. Ref. Apr. 1968. 1.9 P69P  
Caused by Sclerotium cepivorum; control with 2,6-dichloro-4-nitroaniline, pentachloronitrobenzene and mercurous chloride.
- 77386 LUEPSCHEN, N. S., and others. Coryneum blight infection and control studies. Colo. Agr. Exp. Sta. Colo. Progr. Rep. PR 68-2,2 p. Jan. 1968. 100 C71C  
K. G. Rohrbach, C. M. Core, and H. A. Gilbert, joint authors.  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.  
Caused on peaches by Coryneum beijerinckii; fungicide tests.
- 77387 LYCHAK, M. M. Experience with controlling Phytophthora. (Rus) Zashch. Rast. 3:9. 1968. 421 Z1  
On potatoes.
- 77388 MACNISH, G. C. Pink rot of potatoes in western Australia. Plant Dis. Rep. 52(4):280. Apr. 1968. 1.9 P69P  
Caused by Phytophthora erythroseptica and P. cryptogea.
- 77389 MADHOSINGH, C., and WALLEN, V. R. Serological differentiation of the Ascochyta species on peas. Can. J. Microbiol. 14(4):449-451. Apr. 1968. 421 C16  
Ascochyta pisi, A. pinodes, and A. pinodella.
- 77390 MATTHEWS, S., and WHITBREAD, R. Factors influencing pre-emergence mortality in peas. 1. An association between seed exudates and the incidence of pre-emergence mortality in wrinkle-seeded peas. Plant Pathol. 17(1):11-17. Ref. Mar. 1968. 464.8 P692  
In relation to stimulating fungal pathogens in soil.
- 77391 MOVSESYAN, L. I. Rust of snapdragon. (Rus) Zashch. Rast. 2:55. 1968. 421 Z1  
Caused by Puccinia antirrhini on Antirrhinum.
- 77392 NEMTSOVA, I. A. Protecting cucumbers against powdery mildew. (Rus) Zashch. Rast. 4:38. 1968. 421 Z1  
In greenhouses.
- 77393 OLOFSSON, J. Influence of hydrogen-ion concentration on germination of naturally produced oospores of Aphanomyces euteiches. Plant Dis. Rep. 52(4):264-267. Apr. 1968. 1.9 P69P  
Disease of peas.
- 77394 PADY, S. M., KRAMER, C. L., and CLARY, R. Periodicity in aeciospore release in Gymnosporangium juniperi-virginianae. Phytopathology 58(3):329-331. Mar. 1968. 464.8 P56  
Cause of apple rust.
- 77395 PAPAIVIZAS, G. C., LEWIS, J. A., and ADAMS, P. B. Survival of root-infecting fungi in soil. II-IV. Phytopathology 58(3):365-383. Ref. Mar. 1968. 464.8 P56  
Effects of organic soil amendments, especially cellulose, on physiology of Fusarium solani phaseoli, the cause of root rot of beans.
- 77396 PAPAIVIZAS, G. C. Survival of root-infecting fungi in soil. VI. Effect of amendments on bean root rot caused by Thielaviopsis basicola and on inoculum density of the causal organism. Phytopathology 58(4):421-428. Ref. Apr. 1968. 464.8 P56
- 77397 PRISTOU, R. 1967 fungicide recommendations: diseases of asparagus. Va. Polytech. Inst. Ext. Leaflet. 250,2 p. Dec. 1966. 275.29 V81L  
Control of rust with Zineb.
- 77398 PRISTOU, R. 1967 fungicide recommendations: diseases of cabbage and broccoli. Va. Polytech. Inst. Ext. Leaflet. 254,2 p. Dec. 1966. 275.29 V81L
- 77399 PRISTOU, R. 1967 fungicide recommendations: diseases of green peas. Va. Polytech. Inst. Ext. Leaflet. 260,2 p. Dec. 1966. 275.29 V81L  
Control of seed rot and damping off with thiram and captan, and powdery mildew with sulfur.
- 77400 PRISTOU, R. 1967 fungicide recommendations: diseases of Irish potatoes. Va. Polytech. Inst. Ext. Leaflet. 263,2 p. Dec. 1966. 275.29 V81L
- 77401 PRISTOU, R. 1967 fungicide recommendations: diseases of kale, spinach, collards, and upland cress. Va. Polytech. Inst. Ext. Leaflet. 267,2 p. Dec. 1966. 275.29 V81L  
Use of thiram and Maneb.

- 77402 PRISTOU, R. 1967 fungicide recommendations; diseases of peppers. Va. Polytech. Inst. Ext. Leaflet. 272,2 p. Dec.1966. 275.29 V81L
- 77403 PRISTOU, R. 1967 fungicide recommendations; diseases of snap beans and lime beans. Va. Polytech. Inst. Ext. Leaflet. 276,2 p. Dec.1966. 275.29 V81L
- 77404 PRISTOU, R. 1967 fungicide recommendations; diseases of sweet corn. Va. Polytech. Inst. Ext. Leaflet. 280,2 p. Dec.1966. 275.29 V81L
- 77405 PRISTOU, R. 1967 fungicide recommendations; diseases of sweet potatoes. Va. Polytech. Inst. Ext. Leaf. 282,2 p. Dec.1966. 275.29 V81L  
Control of black rot with Semesan Bel, and scurf with ferbam.
- 77406 RISSER, G., and LAUGHIE, M. Susceptibility of several melon cultivars (*Cucumis melo* L.) to *Pyrenochaeta* sp., the agent of corky root disease in tomato. (Fr) Ann. Amelior. Plantes 18(1):75-80. 1968. 14 F8499A  
English summary.
- 77407 ROBERTSON, G. I. A laboratory assay for determining pathogenicity of *Phytophthora* spp. to tomato. New Zeal. J. Agr. Res. 11(1):211-214. Feb.1968. 23 N4892
- 77408 ROHRBACH, K. G., LUEPSCHEN, N. S., and CORE, C. M. Effect of fungicidal materials on *Cytospora* [leucostoma] spore germination, a basis for preventive control of peach canker. Colo. Agr. Exp. Sta. Colo. Progr. Rep. PR 68-1, 2 p. Jan.1968. 100 C71C  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 77409 SCHNEIDER, A., and NOLLE, H. H. On combined application of leaf fertilizers and fungicides. I. (Ge) Z. Pflanzenkr. (Pflanzenpathol.) Pflanzenschutz 75(3):142-146. Mar.1968. 464.8 Z3  
English summary.  
Effects on *Phytophthora infestans* control on tomatoes.
- 77410 SCHNEIDER, R. *Phaeosphaeria eustoma* (Fuck.) Holm as causal organism of a leaf spot disease of *Dieffenbachia picta*. (Ge) Phytopathol. Z. 61(3):299-303. Mar.1968. 464.8 P562
- 77411 SHERENGOVYI, P. Z. Dangerous diseases; red spotting of plums and powdery mildew of apples. (Rus) Zashch. Rast. 4:46. 1968. 421 Z1  
Caused by *Polystigma rubrum* on plums and *Podosphaera leucotricha* on apples.
- 77412 SIRADHANA, B. S., ELLETT, C. W., and SCHMITTHENNER, A. F. Crown rot of *Peperomia*. Plant Dis. Rep. 52(3):244. Mar.1968. 1.9 P69P  
Caused by *Phytophthora* in Ohio.
- SRIVASTAVA, M. P., and TANDON, R. N. Changes in the ascorbic acid content of mosambi [*Citrus sinensis* Osbeck] fruit induced by *Botryodiplodia theobromae*. Can. J. Plant Sci. 48(3):337-338. May 1968. 450 C16
- 77414 STARY, B. Diaporthe canker, an important disease of apples. (Cz) Zahradnicke Listy 61 (2):61. 1968. 80 Z12  
Caused by *Diaporthe eres*.
- 77415 SVAMPA, G. Suggestion for control of canker of apple and pear trees. (It) Inform. Fitopatol. 18(6):93. Mar.31,1968. 464.8 In3  
Caused by fungi.
- 77416 TRUNOV, G. A., and PRIKHOD'KO, V. P. Treatment of injuries caused by black canker of apples. (Rus) Zashch. Rast. 3:39-40. 1968. 421 Z1  
*Sphaeropsis malorum* causal organismus.
- 77417 WELLS, J. M., and STEWART, J. K. Heat pasteurization and chemical fungicides for control of *Fusarium* [solani and *F. roseum*] rot of California cantaloups. Plant Dis. Rep. 52(4):262-264. Apr.1968. 1.9 P69P
- 77418 WENSLEY, R. N. The effect of prewetting naturally infested soils on destruction of the muskmelon wilt fungus [*Fusarium oxysporum melonis*] by formaldehyde. Can. J. Microbiol. 14(4):309-312. Ref. Apr.1968. 443.8 C162
- 77419 WILLETTS, H. J. Factors influencing the production of stromata and microconidia by *Sclerotinia fructicola* (Wint.) Rehm. Ann. Bot. (n.s.) 32(125):219-232. Ref. Jan.1968. 450 An7  
Cause of brown rot; in vitro study of isolates from stone fruit.
- 77420 WOLTZ, S. S., and JONES, J. P. Micronutrient effects on the in vitro growth and pathogenicity of *Fusarium oxysporum* f. sp. *lycopersici*. Phytopathology 58(3):336-338. Mar.1968. 464.8 P56  
Tests with tomato seedlings.
- 77421 WORLEY, R. E., and HARMON, S. A. Report of 1965 spray tests for control of pecan scab and powdery mildew. Ga. Agr. Exp. Sta. Res. Rep. 5,18 p. June 1967. S51.E22  
Caused by *Fusicladium effusum* and *Microsphaera alni*, respectively.
- 77422 YAKOVLEVA, V. I. Potato canker in German Democratic Republic. (Rus) Zashch. Rast. 3:50. 1968. 421 Z1
- 77423 YARWOOD, C. E. Selective retention of ureidospores by leaves. Phytopathology 58(3):359-361. Ref. Mar.1968. 464.8 P56  
Tests with rust of beans, *Uromyces phaseoli*.
- 77424 ZAICHUK, V. K. Testing fungicides on tomatoes. (Rus) Zashch. Rast. 3:24. 1968. 421 Z1  
To control *Phytophthora*.
- 77425 EL-ZAYAT, M. M., and others. Systemic action of nitrophenols against powdery mildew. Phytopathology 58(4):434-437. Apr.1968. 464.8 P56  
R. J. Lukens, A. E. Dimond, and J. G. Horsfall, joint authors.  
Activity against *Erysiphe polygoni* on beans.
- 77426 ZHMURKO, L. Varieties, resistant to scab. (Rus) Sadovodstvo 3:30. Mar.1968. 80 Sal3  
Caused by *Venturia inaequalis* on apples.

## Fungus Diseases - Forest Trees

- 77427 ADAMS, D. H., and ROTH, L. F. Demarcation lines in paired cultures of *Fomes cajanderi* as a basis for detecting genetically distinct mycelia. Can. J. Bot. 45(9):1583-1589. Ref. Sept. 1967. 470 C16C  
Isolated from *Pseudotsuga menziesii*.
- 77428 ANDERSON, G. W. The occurrence of eastern and western gall rust on a single jack pine [*Pinus banksiana*] tree. Plant Dis. Rep. 52(4):328-329. Apr.1968. 1.9 P69P  
*Cronartium filamentosum*, and *C. quercuum*, and *Peridermium harknessii*.
- 77429 ANDERSON, G. W., and ANDERSON, R. L. Relationship between density of quaking aspen [*Populus tremuloides* Michx.] and incidence of Hypoxylon canker. Forest Sci. 14(1):107-112. Mar.1968. 99.8 F7632  
*Hypoxylon pruinaum*.
- 77430 BINGHAM, R. T. International aspects of blister rust [*Cronartium ribicola*] resistance in white pines. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:832-841. 1967. 99.9 In82
- 77431 CASTELLANI, E., and CELLERINO, G. P. Reaction to Marssonina brunnea attacks of several clones of poplar. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.3:842-851. 1967. 99.9 In82
- 77432 CASTELLANI, E., and CELLERINO, G. P. Results of three years of control work against Marssonina brunnea. (Fr) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.5:285-298. 1967. 99.9 In82  
Chemical control in Italy.



- 77433 CHINNAPPA, B. A new leaf blight of rosewood (*Dahlbergia sissoo* Roxb.) from India. *Phytopathol. Z.* 61(1):57-58. Jan.1968. 464.8 P562  
Causal organism *Colletotrichum gloeosporioides*.
- 77434 DE BRIT, G., and O'CARROLL, N. Group dying of Sitka spruce, [*Picea sitchensis*] and its relationship with *Rhizina undulata* and fire sites. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.5:494-500. 1967. 99.9 In82
- 77435 DIMITRI, L., and ZYCHA, H. The causal agent of "honey combed" appearance of pine. (Ge) *Allg. Forst- Jagdzeitung* 139(4/5):115-117. Ref. Apr./May 1968. 99.8 AL3  
English summary.  
Polyporus tomentosus rot of *Pinus sylvestris*.
- 77436 DONAUBAUER, E. Occurrences of *Marssonina brunnea* (Ell.&Ev.) Magn. and *M. populi-nigrae* Kleb. (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.5:279-284. 1967. 99.9 In82  
Review of the literature.  
On *Populus* spp.
- 77437 DUBIN, H. J. Preliminary information about *Dothistroma* blight in Chile. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.5:249-264, map. Ref. 1967. 99.9 In82  
On *Pseudotsuga menziesii* and *Pinus* spp.
- 77438 ETHERIDGE, D. E. Preliminary observations on the pathology of *Pinus caribaea* Morelet in British Honduras. *Commonwealth Forest. Rev.* 47(1):72-80. Mar.1968. 99.8 Em72  
Chiefly fungus diseases.
- 77439 GIBSON, I. A. S. The distribution, impact and control of a foliage disease of pines in Africa caused by *Dothistroma pini* Hulbary. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.5:209-220, map. Ref. 1967. 99.9 In82
- 77440 GILMOUR, J. W. Distribution impact and control of *Dothistroma pini* in New Zealand. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.5:221-248, map. 1967. 99.9 In82  
Control with copper-based fungicides, chiefly.
- 77441 HATTEMER, H. H. Genetic mechanisms allowing an equilibrium between a parasitic fungus and a forest species. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.2:413-425. 1967. 99.9 In82  
Review of the literature.  
Variation of resistance.
- 77442 HEYBROEK, H. M. The Dutch elm disease in the Old World. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.5:447-454. Ref. 1967. 99.9 In82
- 77443 HYPPEL, A. Root exudates acting on *Fomes annosus* Fr. Cke. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.3:867-875. Ref. 1967. 99.9 In82  
*Picea abies* and *Abies pectinata*.
- 77444 JANCARIK, V. Effective fungicides against Scots pine needle cast in Czechoslovakia. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.5:478-484. 1967. 99.9 In82  
*Lophodermium pinastri* control.
- 77445 KALANDRA, A. A contribution to the distribution of *Phellinus pini*/Thore/Pilat in Bohemia and Moravia. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.5:455-460, map. 1967. 99.9 In82  
Causing stem rot in Scotch pine.
- 77446 KLINGSTROM, A. Current research on *Peridermium pini* (Pers.) Lev. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.5:375-381. 1967. 99.9 In82
- 77447 KREBILL, R. G., and ZILLER, W. G. *Hyalopora aspidiotus* on fir [*Abies*] in the west. *Plant Dis. Rep.* 52(4):336. Apr.1968. 1.9 P69P
- 77448 LAMONTAGNE, Y., and CAMPAGNA, J. P. Controlling damping-off of red pine [*Pinus resinosa*] in Quebec nursery. *Tree Planters' Notes* 19(1):3-5. Ref. Mar.1968. 1.962 C5T71
- 77449 LAVALLEE, A., and LORTIE, M. Relationships between external features and trunk rot in living yellow birch [*Betula alleghaniensis*]. *Forest. Chron.* 44(2):5-10. Ref. Apr.1968. 99.8 F7623  
Caused by *Nectria galligena*.
- 77450 LONGO, N., MORIONDO, F., and NALDINI, B. M. Host relationship of *Melampsora pinitorqua* Rostr. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.5:373-374. 1967. 99.9 In82  
*Ciniferae* spp.
- 77451 LUKOMSKI, S. Problems of chemical control of forest diseases in Poland. (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.5:465-470. 1967. 99.9 In82  
Chiefly fungus disease control.
- 77452 MILLER, D. R., and BLOMSTROM, R. Determining the age of *Comandra* rust infection on ponderosa pine [*Pinus ponderosa*] California. *Plant Dis. Rep.* 52(4):305-307. Apr.1968. 1.9 P69P  
Caused by *Cronartium comandrae*.
- 77453 MURRAY, J. S. *Dothistroma pini* Hulbary—its occurrence in Europe. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.5:265-268. 1967. 99.9 In82  
On *Pinus* spp.
- 77454 PATTON, R. F. Factors in white pine [*Pinus strobus*] blister rust [*Cronartium ribicola*] resistance. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.3:876-890. 1967. 99.9 In82
- 77455 PETERSON, G. W. *Dothistroma* needle blight of pines in North America. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.5:269-278. Ref. 1967. 99.9 In82
- 77456 PETERSON, R. S. Limb rust of pine: the causal fungi. *Phytopathology* 58(3):309-315. Ref. Mar.1968. 464.8 P56  
*Peridermium filamentosum* and *P. stalactiforme*.
- 77457 RISHBETH, J. Control measures against *Fomes annosus* in Great Britain. *Int. Union Forest. Res. Organ. Paper*, 14th Congr., v.5:299-306. Ref. 1967. 99.9 In82  
Chiefly on *Pinus sylvestris*.
- 77458 ROSS, E. W. Practical control of *Fomes annosus* in southern pines. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.5:321-324. 1967. 99.9 In82  
Chemical and cultural methods for *Pinus taeda* and *P. elliotii* *elliotii*.
- 77459 SCHUTT, P. Dispersion, damages and control of blister rust in North America. (Ge) *Forstarchiv* 39(2):40-43, map. Feb.1968. 99.8 F7723  
*Cronartium ribicola* of white pine species in Canada and the U.S.A.
- 77460 SHEVCHENKO, S. V. Root rot of spruce plantations of western Podolia. (Rus) *Les. Khoz.* 1:55-57. Jan.1968. 99.8 L5622
- 77461 SHOULDERS, E. Longleaf [*Pinus palustris*] field performance unimpaired by nursery clipping to facilitate brown-spot control. U. S. Forest Serv. Res. Note SO-60, 3 p. 1967. A99.9 F7628U  
Caused by *Scirrhia acicola*.
- 77462 SOLHEIM, W. G., EBOH, D. O., and MCHENRY, J. Powdery mildew of oak caused by a species of *Typhulochaeta* [japonica]. *Elisha Mitchell Sci. Soc. J.* 84(1):236-238. Spring 1968. 500 EL4
- 77463 STAHL, W. An investigation on the *Cytospora* disease of poplars in Australia. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.5:428-444. 1967. 99.9 In82  
*Cytospora chrysosperma*.
- 77464 TOWERS, B., and STAMBAUGH, W. J. The influence of induced soil moisture stress upon *Fomes annosus* root rot of loblolly pine [*Pinus taeda*]. *Phytopathology* 58(3):269-272. Ref. Mar.1968. 464.8 P56

- 77465 TWAROWSKA, I. Investigations on control of the root fungi in Poland. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.5:307-313. 1967. 99.9 In82  
Chiefly on *Armillariella mellea* and *Heterobasidion annosus* infection of pine and spruce
- 77466 VAN ARSDEL, E. P. Stem and needle inoculations of eastern white pine with the blister rust fungus. *Phytopathology* 58(4):512-514. Ref. Apr. 1968. 464.8 P56
- 77467 WAGENBRETH, D. The effect of heat shocks on the susceptibility of poplar leaves [*Populus deltoides* x *simonii*] to rust infection. (Ge) *Phytopathol. Z.* 61(1):87-97. Ref. Jan. 1968. 464.8 P562  
English summary.  
Inoculated with *Melampsora larici-populina*
- 77468 WICKER, E. F., and WELLS, J. M. Overwintering of *Tuberculina maxima* on white pine blister rust cankers [*Cronartium ribicola*]. *Phytopathology* 58(3):391. Mar. 1968. 464.8 P56
- 77469 YDE-ANDERSEN, A. Stump protection in conifer stands. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.5:314-320. 1967. 99.9 In82  
Creosote treatment against *Fomes annosus*.
- 77470 ZYCHA, H., and WEISGERBER, H. The susceptibility of different species and hybrids of leuce poplars for *Pollaccia radiosia*. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2: 852-860. 1967. 99.9 In82  
*Populus alba*, *P. canescens* and *P. tremula*.
- Nematodes
- 77471 CASTANER, D. A *Conidiobolus*-like fungus destroying nematodes in Iowa. *Mycologia* 60 (2):440-443. Mar./Apr. 1968. 450 M99
- 77472 COLLIS-GEORGE, N., and WALLACE, H. R. Supply of oxygen during hatching of the nematode *Meloidogyne javanica* under non-competitive conditions. *Australian J. Biol. Sci.* 21(1): 21-35. Ref. Feb. 1968. 442.8 Au72  
Plant pathogen.
- 77473 DONCASTER, C. C., and WEBSTER, J. M. Clumping of the plant parasitic nematode *Ditylenchus dipsaci* in water. *Nematologica* 14(1): 131-136. 1968. 436.8 N342
- 77474 FENWICK, D. W. A note on the nematicidal properties of "Sevin." *Trop. Agr.* 45(2):125-126. Apr. 1968. 26 T754
- 77475 FISHER, J. M. Fecundity of *Aphelenchus avenae* Bastian. *Australian J. Biol. Sci.* 21(1): 169-171. Feb. 1968. 442.8 Au72  
Plant pathogen.
- 77476 MEAGHER, J. W. *Acontylus vipriensis* n. g., n. sp. (Nematoda, Hoplolaimidae) parasitic on *Eucalyptus* sp. in Australia. *Nematologica* 14 (1):94-100. Ref. 1968. 436.8 N342
- 77477 OSBORNE, W. W. 1967 nematocide recommendations; nematode control in greenhouse bench and potting soil. Va. Polytech. Inst. Ext. Leaflet. 297,2 p. Dec. 1966. 275.29 V81L
- 77478 PITCHER, R. S., and FLEGG, J. J. M. An improved final separation sieve for the extraction of plant parasitic nematodes from soil debris. *Nematologica* 14(1):123-127. 1968. 436.8 N342
- 77479 SETHI, C. L., and SWARUP, G. Plant parasitic nematodes of north-western India. I. Genus *Tylenchorhynchus*. *Nematologica* 14(1):77-88. Ref. 1968. 436.8 N342
- 77480 SOCIETY OF NEMATOLOGISTS. Abstracts of papers presented at the annual meeting, Washington, D. C. 1967. *Nematologica* 14(1):1-19. 1968. 436.8 N342  
Includes plant nematodes.
- Nematodes - Field Crops
- 77481 ANDERSEN, K., and ANDERSEN, S. Inheritance to *Heterodera avenae* in barley. *Nematologica* 14(1):128-130. 1968. 436.8 N342
- 77482 ANDERSEN, K. Variation in infection ability of cysts of *Heterodera avenae*. *Nematologica* 14(1):149-150. 1968. 436.8 N342  
Oats.
- 77483 EGUNJOBI, O. A. A comparison of *Pratylenchus* spp. (Nematoda) population densities in grass and apple roots. *New Zeal. J. Agr. Res.* 11(1): 142-148. Ref. Feb. 1968. 23 N4892
- 77484 GRAHAM, T. W., and FORD, Z. T. Inoculation methods with the root lesion nematode *Pratylenchus brachyurus* and symptom expression on tobacco. *Tobacco* [New York] 166(5):25-29. Ref. Feb. 2, 1968. 286.89 T552
- 77485 GREEN, C. W. Nematodes in Texas cotton: detection to control. *Down Earth* 23(1):3-5. Summer 1967. 381 D75  
Use of Fumazone.
- 77486 KABLE, P. F., and MAI, W. F. Influence of soil moisture on *Pratylenchus penetrans*. *Nematologica* 14(1):101-122. Ref. 1968. 436.8 N342  
Pathogenic to alfalfa.
- 77487 OSBORNE, W. W. 1967 nematocide recommendations; nematode control on cotton. Va. Polytech. Inst. Ext. Leaflet. 294,2 p. Dec. 1966. 275.29 V81L
- 77488 OSBORNE, W. W. 1967 nematocide recommendations; nematode control on peanuts. Va. Polytech. Inst. Ext. Leaflet. 237,2 p. Dec. 1966. 275.29 V81L
- 77489 WYNNE, J. C., and BUSBICE, T. H. Effects of temperature and incubation period on the expression of resistance to stem nematode [*Ditylenchus dipsaci* Kuhn] in Alfalfa. *Crop Sci.* 8(2): 179-183. Mar./Apr. 1968. 64.8 C833
- Nematodes - Horticultural Crops
- 77490 BIRAT, R. B. S. Inoculation trial with *Meloidogyne javanica* on okra (*Abelmoschus esculentus*). *Nematologica* 14(1):155-156. 1968. 436.8 N342
- 77491 DAVIDE, R. G., and TRIANTAPHYLLOU, A. C. Influence of the environment on development and sex differentiation of root-knot nematodes. *Nematologica* 14(1):37-46. Ref. 1968. 436.8 N342  
*Meloidogyne incognita* and *M. javanica* on tomato and tobacco plants.
- 77492 EDMUNDS, J. E. Nematodes associated with bananas in the Windward Islands. *Trop. Agr.* 45(2):119-124. Apr. 1968. 26 T754
- 77493 GREVTSOVA, E. Controlling nematodes. (Rus) *Sadovodstvo* 3:25. Mar. 1968. 80 Sal3  
*Ditylenchus fragariae* Kirjanova on strawberries.
- 77494 HAMLEN, R. A., and BLOOM, J. R. The hatch-in response of *Meloidogyne incognita* eggs as affected by amino and nonamino acid fractions of root exudates. *Phytopathology* 58(4):515-518. Ref. Apr. 1968. 464.8 P56  
Of tomatoes.
- 77495 HENDRIX, F. F., and POWELL, W. M. Nematode and Pythium species associated with feeder root necrosis of pecan trees in Georgia. *Plant Dis. Rep.* 52(4):334-335. Apr. 1968. 1.9 P69P
- 77496 HODGE, D. Onions get "gout" too. *S. Australia J. Agr.* 71(7):228-229. Feb. 1968. 23 So84  
Caused by the stem and bud eelworm.
- 77497 MANKAU, R. Reduction of root-knot disease with organic amendments under semfield conditions. *Plant Dis. Rep.* 52(4):315-319. Apr. 1968. 1.9 P69P  
*Meloidogyne incognita* on tomatoes and okra.
- 77498 O'BANNON, J. H., and TAYLOR, A. L. Migratory endoparasitic nematodes reared on carrot discs. *Phytopathology* 58(3):385. Mar. 1968. 464.8 P56  
Tests with *Radopholus similis* and *Pratylenchus brachyurus*.



- 77499 ORION, D., and MINZ, G. The influence of systemic plant growth substances on the galls induced by the root knot nematode *Meloidogyne javanica*. *Phytopathology* 58(3):384. Mar.1968. 464.8 P56  
Tests with tomatoes.
- 77500 OSBORNE, W. W. 1967 nematocide recommendations; nematode control on asparagus. *Va. Polytech. Inst. Ext. Leaflet* 251,2 p. Dec. 1966. 275.29 V81L
- 77501 OSBORNE, W. W. 1967 nematocide recommendations; nematode control on cucumbers, watermelons, muskmelons, and squash (summer). *Va. Polytech. Inst. Ext. Leaflet* 257,2 p. Dec. 1966. 275.29 V81L
- 77502 OSBORNE, W. W. 1967 nematocide recommendations; nematode control on Irish potatoes. *Va. Polytech. Inst. Ext. Leaflet* 264,2 p. Dec. 1966. 275.29 V81L
- 77503 OSBORNE, W. W. 1967 nematocide recommendations; nematode control on peppers. *Va. Polytech. Inst. Ext. Leaflet* 273,2 p. Dec.1966. 275.29 V81L
- 77504 OSBORNE, W. W. 1967 nematocide recommendations; nematode control on snap beans and lima beans. *Va. Polytech. Inst. Ext. Leaflet* 277, 2 p. Dec.1966. 275.29 V81L
- 77505 OSBORNE, W. W. 1966 nematocide recommendations; nematode control on sweet potatoes. *Va. Polytech. Inst. Ext. Leaflet* 283,2 p. Dec. 1966. 275.29 V81L
- 77506 OSBORNE, W. W. 1967 nematocide recommendations; nematode control on tomatoes. *Va. Polytech. Inst. Ext. Leaflet* 285,2 p. Dec.1966. 275.29 V81L
- 77507 RICHTER, E. Investigations on the influence of crop rotation on the population density of free living nematodes in connection with the corky ringspot disease of potatoes. I. Population density of the nematodes. (Ge) *Z. Pflanzenkr. (Pflanzenpathol.) Pflanzenschutz* 75(1):9-23. Ref. Jan.1968. 474.8 Z3  
English summary.  
Trichodorus, Pratylenchus, and Tylenchorhynchus.
- 77508 RICHTER, E. Investigations on the influence of crop rotation on the population density of free-living nematodes in connection with potato corky ringspot. II. Occurrence of the virus disease. (Ge) *Z. Pflanzenkr. (Pflanzenpathol.) Pflanzenschutz* 75(2):65-72. Ref. Feb.1968. 464.8 Z3  
English summary.  
Trichodorus spp.
- 77509 STEIN, W., and RICHTER, E. The influence of various crop rotations on the attack of *Meloidogyne hapla* Chitw. on carrots and the shape of its symptoms. (Ge) *Z. Pflanzenkr. (Pflanzenpathol.) Pflanzenschutz* 75(2):93-98. Feb.1968. 464.8 Z3  
English summary.
- 77510 STRUMPEL, H. Investigations of strawberries infested with eelworms (*Aphelenchoides fragariae* sp.). (Ge) *Z. Pflanzenkr. (Pflanzenpathol.) Pflanzenschutz* 75(3):129-142. Ref. Mar. 1968. 464.8 Z3  
English summary.
- 77511 WILLIAMS, D. D. F., and HOLTZMANN, O. V. Telone soil fumigation adopted by cabbage growers in Hawaii. *Down Earth* 23(1):33-34. Summer 1967. 381 D75  
For the control of *Heterodera* spp.
- 77512 CHADUNELI, M. D. Curly small leave disease of mulberry. (Rus) *Zashch. Rast.* 3:46. 1968. 421 Z1  
Caused by virus.
- 77513 DIENER, T. O., and SCHNEIDER, I. R. Virus degradation and nucleic acid release in single-phase phenol systems. *Arch. Biochem. Biophys.* 124(1/3):401-412. Ref. Mar.20,1968. 381 Ar2  
Plant viruses.
- 77514 GAMEZ, R., and CHIU, R. J. The minimum concentration of a plant virus [wound tumor] needed for infection of monolayers of vector [*Agallia constricta*] cells. *Virology* 34(2):356-357. Ref. Feb.1968. 448.8 V81
- 77515 HICKMAN, A. J., and VARMA, A. Viruses in horseradish. *Plant Pathol.* 17(1):26-30. Mar. 1968. 464.8 P692  
Mosaic and black ring spot viruses.
- 77516 KOENIG, R., and JANKULOWA, M. Effect of mercury containing preservatives on agar gel diffusion precipitin reactions with several plant viruses. *Virology* 34(2):376-379. Ref. Feb.1968. 448.8 V81
- 77517 LUFTIG, R., and HASELKORN, R. Studies on the structure of blue green algae [*Plectonema boryanum*] virus LPP-1. *Virology* 34(4):664-674. Ref. Apr.1968. 448.8 V81
- 77518 MISHRA, M. D., GHOSH, A., and RAYCHAUDHURI, S. P. Inhibition of tobacco mosaic virus infection by coumarin. *Acta Virol.* 12(2):173-176. Mar.1968. 448.3 Ac85  
Tested on *Chenopodium amaranticolor*.
- 77519 NAYAR, R. Histopathogenic studies in *Areca catechu* L. infected with yellow leaf disease. *Phytopathol. Z.* 61(1):34-37. Jan.1968. 464.8 P562  
Presumed to be a virus disease in India.
- 77520 NOVACKY, A., and HAMPTON, R. E. Peroxidase isozymes in virus-infected plants. *Phytopathology* 58(3):301-305. Ref. Mar.1968. 464.8 P56
- 77521 POLAK, Z., KRALIK, O., and CECHE, M. A virus of tobacco rattle group naturally occurring in *Plantago* sp. in Czechoslovakia. *Biol. Plant.* 10(1):31-36. Ref. 1968. 450 B52  
*Plantago major* and *P. lanceolata*.
- 77522 RAYCHAUDHURI, S. P., and others. Research on cultures associated with virus and plant tissues. (Fr) *Acad. Sci. C. R., Ser. D*, 266(8): 776-777. Feb.19,1968. 505 P21  
M. D. Mishra, H. C. Phatak, and J. Chandra, joint authors.
- 77523 STEERE, R. L., and DAVIS, R. E. Liquid gradient zone electrophoresis in removable capsules for accurate sampling. *Anal. Biochem.* 22(3):511-517. Ref. Mar.1968. 381 An13  
Plant virus research.

## Virus Diseases - Field Crops

- 77524 BOS, L., and GRANCINI, P. Peculiar histoid enations in white clover and their relationships to virus diseases and toxic effects of leafhopper. *Phytopathol. Z.* 61(3):251-272. Ref. Mar.1968. 464.8 P562
- 77525 CHOD, J., POLAK, J., and KLIR, O. Electron microscopical proof of the presence of sugar beet yellows virus particles in the roots of sugar beet. *Biol. Plant.* 10(2):142-145. Ref. 1968. 450 B52
- 77526 DAVIS, R. E., and ROSS, A. F. Increased hypersensitivity induced in tobacco by systemic infection by potato virus Y. *Virology* 34(3):509-548. Ref. Mar.1968. 448.8 V81
- 77527 EDWARDSON, J. R., PRUCIFULL, D. E., and CHRISTIE, R. G. Structure of cytoplasmic inclusions in plants infected with rod-shaped viruses. *Virology* 34(2):250-263. Ref. Feb. 1968. 448.8 V81  
Tobacco etch virus in tobacco and water melon mosaic virus in pumpkin.
- 77528 GICHERMAN, C., and LOEBENSTEIN, G. Competitive inhibition by foreign nucleic acids and induced interference by yeast-RNA with the infection of tobacco mosaic virus. *Phytopathology* 58(4):405-509. Ref. Apr.1968. 464.8 P56

- 77529 GROGAN, C. O., and ROSENKRANZ, E. E. Genetics of host reaction to corn stunt virus. *Crop Sci.* 8(2):251-254. Ref. Mar./Apr.1968. 64.8 C833
- 77530 HEROLD, F., TRUJILLO, G., and MUNZ, K. Viruslike particles related to hoja blanca disease of rice. *Phytopathology* 58(4):546-547. Apr.1968. 464.8 P56
- 77531 HULL, R., and JOHNSON, M. W. The precipitation of alfalfa mosaic virus by magnesium. *Virology* 34(2):388-390. Feb.1968. 448.8 V81
- 77532 HULL, R. The spray warning scheme for control of sugar beet yellows in England; summary of results between 1959-66. *Plant Pathol.* 17 (1):1-10. Mar.1968. 464.8 P692
- 77533 JENSEN, S. G. Factors affecting respiration in barley yellow dwarf virus-infected barley. *Phytopathology* 58(4):438-443. Apr.1968. 464.8 P56
- 77534 KAMMEN, A. VAN. The relationship between the components of cowpea mosaic virus. I. *Virology* 34(2):312-318. Ref. Feb.1968. 448.8 V81
- 77535 KUHN, C. W., and KOZELNICKY, G. M. Maize dwarf mosaic virus in Georgia. *Plant Dis. Rep.* 52(4):320-322, map. Apr.1968. 1.9 P69P On corn.
- 77536 LEE, P. E. Partial purification of wheat striate mosaic virus and fine structural studies of the virus. *Virology* 34(4):583-589. Ref. Apr.1968. 448.8 V81
- 77537 LOEBENSTEIN, G., and others. Sensitivity of induced localized acquired resistance to actinomycin D. *Virology* 34(2):264-268. Ref. Feb. 1968. 448.8 V81  
Rabina, Shlomit, and T. van Praagh, joint authors.  
To mosaic virus in tobacco and beans.
- 77538 MARRAU, J. Chenopodium test to demonstrate lettuce mosaic virus 1 in seeds. (Ge) *Umschau* 68(6):185. Mar.14,1968. 474 Um7
- 77539 MOWAT, W. P. Oviposition of zoospores associated with their ability to transmit tobacco necrosis virus. *Virology* 34(3):565-568. Ref. Mar.1968. 448.8 V81
- 77540 OWUSU, G. K., CROWLEY, N. C., and FRANKI, R. I. B. Studies of the seed-transmission to tobacco ringspot virus. *Ann. Appl. Biol.* 61 (2):195-202. Ref. Apr.1968. 442.8 An72  
In soybeans in Australia.
- 77541 PALIWAL, Y. C. Changes in relative virus concentration in *Endria inimica* in relation to its ability to transmit wheat striate mosaic virus. *Phytopathology* 58(3):386-387. Mar.1968. 464.8 P56
- 77542 PITRE, H. N. Effect of insecticidal sprays on stunt and mosaic virus diseases of corn in small field plots in Mississippi. *J. Econ. Entomol.* 61(2):585-587. Ref. Apr.15,1968. 421 J822
- 77543 SCHANK, S. C., and EDWARDSON, J. R. Cytological examination of pangolagrass (*Digitaria decumbens* Stent) infected with stunt virus. *Crop Sci.* 8(1):118-119. Jan./Feb.1968. 64.8 C883
- 77544 SCHILDE-RENTSCHLER, L., and JOCKUSH, H. The origin of a macromolecule structure; formation of a simple virus particle. I-II. (Ge) *Umschau* 68(4):106-115. Feb.15,1968. 474 Um7  
I. Amino acid sequences as result of natural selection, by L. Schilde-Rentschler; II, Biological effect of certain amino acid exchanges, by H. Jockush.  
Tobacco mosaic virus.
- 77545 SINHA, R. C. Serological detection of wheat striate mosaic virus in extracts of wheat plants and vector leafhoppers. *Phytopathology* 58(4):452-455. Ref. Apr.1968. 464.8 P56
- 77546 STRELEVA, N. I. The bronzing tomato virus on tobacco in the Crimea Region. (Rus) *Tabak* 1:50-51. 1968. 69.8 T112
- 77547 TU, J. C., FORD, R. E., and KRASS, C. J. Comparisons of chloroplasts and photosynthetic rates of plants infected and not infected by maize dwarf mosaic virus. *Phytopathology* 58 (3):285-288. Ref. Mar.1968. 464.8 P56
- 77548 TU, J. C., and FORD, R. E. Effect of maize dwarf mosaic virus infection on respiration and photosynthesis of corn. *Phytopathology* 58(3):282-284. Ref. Mar.1968. 464.8 P56
- 77549 UYEMOTO, J. K., GROGAN, R. G., and WAKEMAN, J. R. Selective activation of satellite virus by strains of tobacco necrosis virus. *Virology* 34(3):410-418. Ref. Mar.1968. 448.8 V81
- 77550 VAN HOFF, H. A. Transmission of tobacco rattle virus by *Trichodorus* species. *Nematologica* 14(1):20-24. 1968. 436.8 N342
- 77551 VLOTEN-DOTING, L. VAN, KRAUSEMAN, J., and JASPARS, E. M. J. The biological function and mutual dependence of bottom and top component of alfalfa mosaic virus. *Virology* 34 (4):728-737. Ref. Apr.1968. 448.8 V81
- 77552 WAGNER, G. W., and BANCROFT, J. B. The self assembly of spherical viruses with mixed coat proteins. *Virology* 34(4):748-756. Ref. Apr.1968. 448.8 R923  
Cowpea chlorotic mottle virus, brome mosaic virus and broadbean mottle virus.
- Virus Diseases - Horticultural Crops
- 77553 BANCROFT, J. B., HIEBERT, E., REES, M. W., and MARKHAM, R. Properties of cowpea chlorotic mottle virus its protein and nucleic acid. *Virology* 34(2):224-239. Ref. Feb. 1968. 448.8 V81
- 77554 BRUNT, A. A. Some hosts and properties of bulbous Iris mosaic virus. *Ann. Appl. Biol.* 61 (2):187-194. Ref. Apr.1968. 442.8 An72
- 77555 CHAPMAN, R. K., and BATH, J. E. The latent period of pea enation mosaic virus in three of its aphid vectors with emphasis on adult versus nymph comparisons. *Phytopathology* 58(4):494-499. Ref. Apr.1968. 464.8 P56
- 77556 COCK, L. J. Virus diseases of lettuce. N.A. A.S. (Nat. Agr. Adv. Serv.) *Quart. Rev.* 79:126-138. Ref. Spring 1968. 241 G796
- 77557 DAS, S., and RASKI, D. J. Vector efficiency of *Xiphinema* index in the transmission of grapevine fanleaf virus. *Nematologica* 14(1):55-62. Ref. 1968. 436.8 N342
- 77558 FRANKI, R. I. B. Inactivation of cucumber mosaic virus (Q strain) nucleoprotein by pancreatic ribonuclease. *Virology* 34(4):694-700. Apr.1968. 448.8 V81
- 77559 GILMER, R. M., and KELTS, L. J. Transmission of tobacco mosaic virus in grape seeds. *Phytopathology* 58(3):277-281. Mar.1968. 464.8 P56
- 77560 HARMEY, M. A., CROWLEY, M. P., and CLINCH, P. E. M. An investigation of carbohydrate accumulation in the leaves of leaf roll infected potato plants. *Roy. Dublin Soc. Sci. Proc. Ser. A*, 3(8):87-105. Ref. 1968. 501 D85
- 77561 HONMA, S., MURAKISHI, H. H., and WITTWER, S. H. Moto-red, a tobacco mosaic virus resistant greenhouse tomato. *Mich. Agr. Exp. Sta. Quart. Bull.* 50(3):285-287. Feb.1968. 100 M58S
- 77562 KAHN, R. P. Amaryllis virus research—1960—1967. *Plant Life* 24:9-12. 1968. 450 P695
- 77563 KOVACHEVSKY, J. C. Yellow bean mosaic virus in Bulgaria. (Ge) *Phytopathol. Z.* 61(1):41-48. Ref. Jan.1968. 464.8 P562
- 77564 KRISTENSEN, H. R. Plum pox—a dangerous virus disease. (Da) *Erhvervsfrugtavlere* 35 (4):141-148, 150. Ref. Apr.1968. 80 Er3
- 77565 LHERAULT, P. From clover to strawberry: transmission of a virus disease by cicadellas. (Fr) *Phytoma* 20(195):41. Feb.1968. 464.8 P563  
Green petal disease.



- 77566 MAMULA, D., and MILICIC, D. On the properties of two isolates of cauliflower mosaic virus in Yugoslavia. (Ge) *Phytopathol. Z.* 61 (3):232-252. Ref. Mar.1968. 464.8 P562 English summary.
- 77567 MARANI, F. Apical meristem culture in growing carnations free of virus diseases. (It) *Ital. Agr.* 105(2):167-172. Ref. Feb.1968. 16 It1
- 77568 MCLEOD, R. An interpretation of the observed polymorphism of potato yellow dwarf virus. *Virology* 34(4):771-777. Apr.1968. 448.8 V81
- 77569 MURAKISHI, H. H., and HONMA, S. Resistance to tomato double virus streak. *Mich. Agr. Exp. Sta. Quart. Bull.* 49(4):416-421. Ref. May 1967. 100 M58S  
Mixed infection caused by tobacco mosaic virus, and potato virus X.
- 77570 PAYNOT, M., and MARTIN, C. Flavone composition, flowering and hypersensitivity of plants to viruses. (Fr) *Acad. Sci. C. R., Ser. B.* 266(17):680-682. Feb.12,1968. 505 P21 In *Begonia gracilis*.
- 77571 PRATT, C., GILMER, R. M., and WAY, R. D. Occurrence of normal foliage in irradiated sweet cherries with crinkle. *Plant Dis. Rep.* 52(4):268-271. Apr.1968. 1.9 P69P
- 77572 PROTSENKO, A. Mosaic of the onions. (Rus) *Kartofel' Ovoshchi* 1:43. Jan.1968. 75.8 K147
- 77573 PURCIFULL, D. E., and EDWARDSÖN, J. R. Nuclear crystals in Zinnia and other nonsolanaceous plants infected with tobacco etch virus. *Phytopathology* 58(4):532-533. Apr.1968. 464.8 P56
- 77574 RUBIO-HUERTOS, M., and others. Electron microscopy of X-body formation in cells of cabbage infected with Brassica virus 3. *Phytopathology* 58(4):548-549. Apr.1968. 464.8 P56  
C. Matsui, A. Yamaguchi, and T. Kamei, joint authors.
- 77575 RUSSO, M., MARTELLI, G. P., and QUACQUARELLI, A. Studies on the agent of artichoke mottled crinkle. IV. Intracellular localization of the virus. *Virology* 34(4):679-693. Ref. Apr. 1968. 448.8 V81
- 77576 SAMPSON, P. J., and TAYLOR, R. H. A comparison of the electron microscope, microprecipitin tests, and indicator plants for the detection of potato viruses S, X, and Y. *Phytopathology* 58(4):489-493. Ref. Apr.1968. 464.8 P56
- 77577 SHERF, A. F. Viruses threaten cucurbits. *Amer. Veg. Grower* 16(3):17,59. Mar.1968. 80 C733
- 77578 SMOLAK, J., and BRCAK, J. Virus like particles in *Ficus elastica* Roxb. *Biol. Plant.* 10(1):81-83. 1968. 450 B52
- 77579 THOTTAPPILLY, G., and SCHMUTTERER, H. Information on a new pea virus transmissible mechanically, by seeds, fungi, [Pythium] and insects [Myzus persicae]. (Ge) *Z. Pflanzenkr. (Pflanzenpathol.) Pflanzenschutz* 75(1):1-8. Ref. Jan.1968. 464.8 Z3  
English summary.  
Named "false pea leafroll virus."
- 77580 VANDERVEKEN, J. Effects of mineral oils and lipides on aphid [Myzus persicae] transmission of beet mosaic and beet yellows viruses. *Virology* 34(4):807-809. Ref. Apr.1968. 448.8 V81
- 77581 WALKEY, D. G. A. Seed transmission of Arabis mosaic virus in lettuce (*Lactuca sativa*). *Plant Dis. Rep.* 51(10):883-884. Oct.1967. 1.9 P69P
- 77582 ZETTLER, F. W., EDWARDSON, J. R., and PURCIFULL, D. E. Ultramicroscopic differences in inclusions of papaya mosaic virus and papaya ringspot virus correlated with differential aphid transmission. *Phytopathology* 58(3):332-335. Ref. Mar.1968. 464.8 P56
- 77583 BOAWN, L. C., and BROWN, J. C. Further evidence for a P-Zn imbalance in plants. *Soil Sci. Soc. Amer. Proc.* 32(1):94-97. Jan./Feb. 1968. 56.9 So3  
Beans and potatoes.
- 77584 KRUSTEVA, M. An attempt to control Jonathán spots by means of presowing treatment of seeds with calcium salts. (Bu) *Rast. Zasht.* 2:30-31. 1968. 423.92 So2  
Calcium chloride and Calcium nitrate used.
- 77585 LYLE, E. S., and PEARCE, N. D. Sulfur deficiency in nursery seedlings may be caused by concentrated fertilizers. *Tree Planters' Notes* 19(1):9-10. Mar.1968. 1.962 C5T71  
Pine in Alabama.
- 77586 TARASOV, V. M. Rosette of apple tree on the state farm "Pobeda" in the Crimea Region. (Rus) *Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl.* 132:113-120. 1967. 20 M857  
Caused by zinc deficiency.
- 77587 TWENTYMAN, R. L. Pasture problems posed by the drought. *J. Agr. [Melbourne]* 66(2):42-44. Feb.1968. 23 V66J  
In Australia.

## Injuries

- 77588 AUSTENSON, H. M. Commaphos as a bird repellent in grain plots. *Can. J. Plant Sci.* 48(3):349. May 1968. 450 C16
- 77589 BELL, D. K., and JACKSON, C. R. Effects of seed treatment fungicides & seed quality on the incidence of fat leg of peanut. *Ga. Agr. Exp. Sta. Res. Rep.* 21,13 p. Mar.1968. S51.E22
- 77590 BEZRODNYI, G. P., and MOROZOVA, A. M. Our experience with controlling squirrels. (Rus) *Zashch. Rast.* 3:11. 1968. 421 Z1  
As pests of pastures.
- 77591 BREDAS, J., TESSELS, L., and GERARD, P. Chemical control of small rodents in young palm groves. (Fr) *Oleagineux* 23(1):15-17. Jan.1968. 77.8 OL2
- 77592 CHISHOLM, E. Rabbit destruction—present and future. *New Zeal. J. Agr.* 116(3):68-69,71. Mar.1968. 23 N48J
- 77593 DAY, B. E., JORDAN, L. S., and JOLLIFFE, V. A. The influence of soil characteristics on the adsorption and phytotoxicity of simazine. *Weed Sci.* 16(2):209-213. Ref. Apr.1968. 79.8 W41  
Test with oats and sixty-five soil types.
- 77594 ERDELYI, C. Control of voles and measuring population density. (Hu) *Magyar Mezogazdasag* 23(13):12-13. Mar.1968. 19 M27  
Plant pests.
- 77595 HART, J. H. Injury to woody plants caused by unfavorable temperature conditions. *Arborist's News* 33(4):8 p. Apr.1968. 99.8 Ar14  
Heat and cold.
- 77596 KELLER, E. Driving starlings from cherries and grapes. (Ge) *Schweiz. Z. Obst- Weinbau* 104(3):54-57. Feb.3,1968. 80 Sch9  
With tape recordings of their own cries of fright.
- 77597 KETCHIE, D. O., and FURR, J. R. Sunburn and heat injury of citrus. *Calif. Citrogr.* 53(7):252,270-273. May 1968. 80 C125
- 77598 LEGG, D. C. A note on the effect of chlordanes on seedling turf. *Sports Turf Res. Inst. J.* 43:59-60. 1967, pub. Mar.1968. 60.19 B772  
Injuries.
- 77599 MELLANBY, K. The ingenuity of the mole. *Country Life [London]* 143(3711):954. Apr.18, 1968. 80 C83  
Includes damage it does in gardens.
- 77600 POLYAKOV, I. YA. Tactic of controlling squirrels. (Rus) *Zashch. Rast.* 3:12-13. 1968. 421 Z1  
As pests of agricultural plants.

- 77601 RAKHILIN, V. Are the sparrows pests? (Rus) Sadovodstvo 2:29. Feb.1968. 80 Sa13  
Of plants.
- 77602 RYAN, C. Fighting the blackbird plague. Farm Quart. 23(3):38,126-127,129. Summer 1968. 6 F22995  
Crop pest.
- 77603 SHEETS, T. J., SMITH, J. W., and KAUFMAN, D. D. Persistence of benzoic and phenylacetic acids in soils. Weed Sci. 16(2):217-222. Ref. Apr.1968. 79.8 W41  
Residual toxicity of five herbicides tested on beans.
- 77604 SHEVCHENKO, N. N., and others. Results. (Rus) Zashch. Rast. 3:10-11. 1968. 421 Z1  
G. A. Voloshin, M. T. Kravchuk, and M. M. Bondarenko, joint authors.  
Of controlling squirrels as plant pests.
- 77605 SPURGEON, W. I. Avoid possible seedling injury through proper placement of nitrogen. Agr. Nitrogen News 18(3):18,20. May/June 1968. 381 Ag82  
Cotton.
- 77606 TANCZOS, O. G. Prevention of chilling injury in cucumber leaves. Acta Bot. Neer. 16(6):235-239. Dec.1967. 450 Ac822
- 77607 THOMAS, C. H., and others. Recovery of cotton plants from heat injury. La. Agr. 11(3):6-7. Spring 1968. 100 L939  
L. C. Standifer, W. C. Normand, and G. L. Ray, joint authors.
- 77608 WASHINGTON, STATE UNIVERSITY, EXTENSION SERV. Controlling mole damage, prepared by Division of Wildlife Services, United States Department of the Interior, Fish and Wildlife Services, Bureau of Sport Fisheries and Wildlife. Wash. State Univ. Ext. E. M. 2758,3 p. Feb.1967. 275.29 W27Mi  
Cause of injury to plant roots.
- 77609 WEBER, J. B., PERRY, P. W., and IBARAKI, K. Effect of pH on the phytotoxicity of prometryne applied to synthetic soil media. Weed Sci. 16(2):134-136. Ref. Apr.1968. 79.8 W41  
Tests with wheat.
- 77610 WRIGHT, D. M. Frost protection in the old days. Country Life [London] 143(3712):1064. Apr.25,1968. 80 C83
- 77611 ZHARKIKH, D. I., IVAN'KOVA, T. A., and SHEVEROV, I. I. Attacking squirrels. (Rus) Zashch. Rast. 2:13. 1968. 421 Z1  
As pests of agricultural plants.
- 77612 CAYOUE, R. Study on the flora of Saguenay. I. Comments concerning an article and the collection of E. J. Hill. (Fr) Nature Can. 95(1):177-186. Ref. Jan./Feb.1968. 410 N216
- 77613 ERN, H. The organization of mountain vegetation on the Iberian Peninsula. (Ge) Umschau 68(7):201-205, map. Mar.1968. 474 Um7
- 77614 FURSE, P., and FURSE, P. Afghanistan 1966. II-III. Roy. Hort. Soc. J. 93(2):92-97. Feb. 1968; 93(3):114-124. Mar.1968. 84 L84J  
Includes description of flora.
- 77615 GRONTVED, P. Some gravel pits of South Zealand and immigration of plants to new soil. (Da) Flora Fauna 78(1):1-19. Mar.1968. 410 F662
- 77616 HANSEN, K. The heath—a cultivated nature. (Da) Horticultura 22(4):51-58, map. Apr. 1968. 80 H7825  
Vegetation.
- 77617 ON THE value of vernacular names of plants in French Guiana. (Fr) Bois Froets Trop. 117: 17-23. Jan./Feb.1968. 99.8 B632  
English summary.  
For identification purposes.
- 77618 RAIZADA, M. B. What is there in a name? why change! Indian Forest. 94(1):37-46. Jan. 1968. 99.8 In2  
The controversy in plant names and the International Code of Botanical Nomenclature.
- 77619 ROUSSEAU, C. History, habitat and distribution of 220 plants introduced to Quebec. (Fr) Nature Can. 95(1):49-169, map. Jan./Feb.1968. 410 N216  
English summary.  
Bibliography, p.164-169.
- 77620 SHOO, R. Main evolutionary characteristics of embryophytes. (Rus) Bot. Zhur. [Moscow] 53(3):289-300. 1968. 451 R923  
English summary.
- Spermatophytes
- 77621 ANWAY, J. C. The systematic botany and taxonomy of *Polemonium foliosissimum* A. Gray (Polemoniaceae). Amer. Midland Natur. 79(2):458-475, map. Ref. Apr.1968. 410 M58
- 77622 BARRY, D. Hybrids in *Chamaedorea*. Principes 11(4):121-123. Oct.1967. 80 P932
- 77623 BERNARD, F. G. Viviparous form of *Scirpus pedicellatus* Fernald (Cyperaceae). (Fr) Nature Can. 95(1):225-227. Jan./Feb.1968. 410 N216
- 77624 BLAISE, S. The existence of two varieties of *Myosotis lutea* (Cavanilles) Persoon in Anjou. (Fr) Acad. Sci. C. R., Sci. D., 266(15):1577-1579. Apr.15,1968. 505 P21  
Taxonomic study.
- 77625 CAROLIN, R. C. The genus *Velleia* SM. Linn. Soc. New S. Wales. Proc. 92(1):27-57, map. 1967. 514 Sy2  
Includes n. spp.
- 77626 COCCIA, L. Chemical-taxonomical differentiation of the clones of the genus *Populus*. (Fr) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:581-595. 1967. 99.9 In82
- 77627 CORRELL, D. S. Some additions to the flora of Texas. IV. Madrono 19(5):187-192. Jan.1968. 450 M26  
Includes *Nolina arenicola*, *Proboscidea crassibracteata*, and *Galium frankliniensis*, n. spp.
- 77628 DRESSLER, R. L., and KUIJT, J. A second species of *Ammobroma* (Lennoaceae), in Sinaloa, Mexico. Madrono 19(5):179-182. Jan.1968. 450 M26  
*Ammobroma culiacana* n. sp.
- 77629 EDLIN, H. L. A modern sylvia or a discourse of forest trees (the smaller native broadleaved trees). Quart. J. Forest. 62(1):28-36. Jan. 1968. 99.8 Q2
- 77630 FERNANDES, A. Improvements in the classification of the genus *Narcissus* L. Plant Life 24: 51-57. Ref. 1968. 450 P696
- 77631 GALET, P. Recherches sur les methodes d'identification et de classification des vitacees des zones temperees [Studies on methods of identification and classification of Vitaceae from temperate zones]. Montpellier, 1967. 2 v. Ref. QK495.V5G3  
English summary.  
Thesis—Montpellier.  
Includes cultivated spp. of grapes.
- 77632 GERARDIN, V., and JURDANT, M. *Quercus rubra* var. *borealis* in the Saint-Jean lake region. (Fr) Nature Can. 95(1):171-176, map. Ref. Jan./Feb.1968. 410 N216  
English summary.
- 77633 GUNN, C. R. The *Vicia americana* complex (Leguminosae). Iowa State J. Sci. 42(3):171-214. Ref. Feb.1968. 470 Io9  
Taxonomic study.
- 77634 HALL, A. V. Methods for showing distinctness and aiding identification of critical groups in taxonomy and ecology. Nature 218(5137):203-204. Apr.13,1968. 472 N21  
Studied with *Satyrion*.
- 77635 HARA, H. New or noteworthy flowering plants from eastern Himalaya. 6. J. Jap. Bot. 43(2): 12-16. Feb.1968. 450 J8223  
*Pegaeophyton bhutanicum*, *Prunus carmesina*, and *Viola paravaginata*, n. spp.



- 77636 HARA, H. On the correct name for a purple flowered race of *Limonium wrightii*. (Ja) J. Jap. Bot. 43(2):32. Feb.1968. 450 J8223
- 77637 HART, P. C. Bract imbrication as a taxonomic character in *Musa acuminata*. Trop. Agr. 45 (2):99-108. Ref. Apr.1968. T754
- 77638 HAWKES, A. D. On Nannorrhops. Principes. 11(4):137-138. Oct.1967. 80 P932  
Taxonomy.
- 77639 HENSEN, K. J. W. *Sorbus latifolia*. (Du) Dendroflora 5:35. Jan.1968. 80 D41  
English summary.  
Nomenclature.
- 77640 HISAUCHI, K. On the arrangement of curved spurs of *Uncaria rhynchophylla*. (Ja) J. Jap. Bot. 42(12):30-31. Dec.1967. 450 J8223
- 77641 HOLMGREN, A. H., and REVEAL, J. L. Checklist of the vascular plants of the Inter-mountain region. U. S. Forest Serv. Res. Paper INT-32,160 p.,map. 1966. A99.9 F764U  
Utah Agricultural Experiment Station, co-operating.  
Bibliography, p.125-137.  
Spermatophytes and Pityrogramma.
- 77642 KITAGAWA, M. On *Angelica pseudo-shikokiana* Kitagawa and its allied species. (Ja) J. Jap. Bot. 43(1):1-7. Jan.1968. 450 J8223  
English summary.  
Includes Latin text.
- 77643 LAMB, F. B. Mahogany [Swietenia] name controversy. Econ. Bot. 22(1):84-86. Ref. Jan./Mar.1968. 450 Ec7
- 77644 LITTLE, E. L. Perforated card key to the families of Mexican trees. (Sp) Turrialba 18 (1):45-59. Jan./Mar.1968. 8 T86  
English summary.
- 77645 MAEKAWA, F. "Tataramae" identical with *Asarum caulescens*. (Ja) J. Jap. Bot. 43(1):32. Jan.1968. 450 J8223
- 77646 MANLEY, W. D. Palms observed while traveling through Western Europe. Principes 11(4):136. Oct.1967. 80 P932
- 77647 MELCHERT, T. E. Systematic studies in the Coreopsidinae; cytotaxonomy of Mexican and Guatemalan *Cosmos*. Amer. J. Bot. 55(3):345-353, map. Mar.1968. 450 Am36
- 77648 MILLER, H. E., MABRY, T. J., and TURNER, B. L. Intraspecific variation of sesquiterpene lactones in *Ambrosia psilostachya* (Compositae). Amer. J. Bot. 55(3):316-324, map. Ref. Mar.1968. 450 Am36  
Chemotaxonomic study.
- 77649 MIZUSHIMA, M. Critical studies on Japanese plants. 15. Remarks in the Alsinioideae, Caryophyllaceae. J. Jap. Bot. 43(2):17-24. Feb. 1968. 450 J8223  
Taxonomy and nomenclature.
- 77650 MOORE, H. E. The genus *Gastrococos* (Palmae-Coccoideae). Principes 11(4):114-121. Oct.1967. 80 P932  
Taxonomy.
- 77651 O'CONNOR, J. The Arnold Arboretum, Boston, Mass. Quart. J. Forest. 62(1):71-73. Jan.1968. 99.8 Q2
- 77652 OHASHI, H. A note on a specimen referable to *Mitrephora harai* Ohashi in the Central National Herbarium (CAL), Calcutta. (Ja) J. Jap. Bot. 43(2):6. Feb.1968. 450 J8223
- 77653 OI, J. Data on the distribution of vascular plants in Japan. 58. (Ja) J. Jap. Bot. 42(12):8. Dec.1967. 450 J8223  
*Utricularia nipponica* and *Carex echinata*.
- 77654 OLAH, L. V., and DEFILIPPS, R. A. A cytotoxic study of French's shooting star [*Dodecatheon frenchii*]. Torrey Bot. Club. Bull. 95 (2):186-198. Ref. Mar./Apr.1968. 451 T63B
- 77655 RAVENNA, P. F. *Nothoscordum* notes, 1967. Plant Life 24:57-58. 1968. 450 P695
- 77656 REEDER, J. R., and SINGH, D. N. Chromosome numbers in the tribe Pappophoreae (Gramineae). Madrono 19(5):183-187. Ref. Jan.1968. 450 M26  
Cytotaxonomy.
- 77657 SHELTON, L. S. An isolated species of *Coreopsis* on a granite monadnock. Torrey Bot. Club. Bull. 95(2):166-171. Mar./Apr.1968. 451 T63B  
*Coreopsis saxicola* and *C. grandiflora* in Georgia.
- 77658 SHUKHOBODSKII, B. A. *Allium ursinum* L. in the Pskov Region. (Rus) Bot. Zhur. [Moscow] 52(2):258. Feb.1967. 451 R923
- 77659 SODERSTROM, R. R., and BEAMAN, J. H. The genus *Bromus* (Gramineae) in Mexico and Central America. Mich. State Univ. Publ. Mus. Biol. Ser. 3(5):465-520. Ref. Mar.22,1968. 442.9 M583  
Includes *B. thysanoglottis* n. sp.
- 77660 SORSA, M. Cytological and evolutionary studies on *Palustres violets* [*Viola*]. Madrono 19(5):165-179. Ref. Jan.1968. 450 M26  
In relation to its taxonomy.
- 77661 SOSKOV, U. D. Three lines of development within the section *Ephedra* of the genus *Ephedra* L. in the flora of the U.S.S.R. (Rus) Bot. Zhur. [Moscow] 53(1):85-91. Ref. Jan.1968. 451 R923  
English summary.  
Morphological distinctions, as the results of evolution.
- 77662 STACE, C. A. A revision of the genus *Thilsea* (Combretaceae). Torrey Bot. Club. Bull. 95(2):156-165, map. Mar./Apr.1968. 451 T63B
- 77663 STONE, D. E. New world *Juglandaceae*; a new species of *Alfaroa* from Mexico. Amer. J. Bot. 55(4):477-484. Ref. Apr.1968. 450 Am36  
*Alfaroa mexicana* n. sp.; includes comparison with other spp. of A, and with *Engelhardia* spp.
- 77664 SYKES, W. R., and GODLEY, E. J. Transoceanic dispersal in *Sophora* and other genera. Nature 218(5140):495-496. Ref. May 4,1968. 472 N21  
Dissemination of seeds in the Pacific Area.
- 77665 TAKHTADZHYAN, A. L. The orders of flowering plants. (Rus) Bot. Zhur. [Moscow] 52(2):223-228. Feb.1967. 451 R923  
English summary.
- 77666 TRAUB, H. F. *Amaryllis* notes, 1968. Plant Life 24:49-50, 19. 1968. 450 P695  
Includes *Pancratium landesii* Traut n. sp.
- 77667 TRAUB, H. P. New Guatemalan and Mexican *Alliums*. Plant Life 24:127-142. 1968. 450 P695  
Includes n. spp.
- 77668 TRAUB, H. P. The subgenera, sections and subsections of *Allium* L. Plant Life 24:147-163. Ref. 1968. 450 P695
- 77669 TSUYAMA, T., and ASAI, Y. On the true status of *Erigeron canadensis* L. var. *levis* Makino. 2. (Ja) J. Jap. Bot. 42(12):9-20. Dec.1967. 450 J8223  
English summary.
- 77670 TSVELEV, N. N. *Monerma* [cylindrica], a forgotten genus of Gramineae in the flora of the U.S.S.R. (Rus) Bot. Zhur. [Moscow] 53(1):95-97. Jan.1968. 451 R923
- 77671 TSVELEV, N. N. The system of grasses (Poaceae) indigenous to the flora of the USSR. (Rus) Bot. Zhur. [Moscow] 53(3):301-312. Ref. 1968. 451 R923  
English summary.
- 77672 WELCH, H. J. *Cupressocyparis leylandi* in Britain. Amer. Nurseryman 77(6):28, 30. Mar.15,1968. 80 Am371
- 77673 WHITELEY, G. Blooming season. Frontiers 32(4):24-25. Apr.1968. 410 F92  
At the Bowman's Hill State Wildflower Preserve, Pennsylvania.
- 77674 WILDE, W. J. J. O. DE. A new species of *Adenia* (Passifloraceae) from Western Equatorial Africa. (Fr) Acta Bot. Neer. 16(6):231-234. Dec.1967. 450 Ac822  
English summary.  
*Adenia letouzeyi* n. sp.

- 77675 YAMAZAKI, T. On *Uncaria rhynchophylla* in China. (Ja) J. Jap. Bot. 42(12):31-32. Dec. 1967. 450 J8223
- 77676 YAMAZAKI, T. Supplement of the flora of Ryukyu and Formosa. I. (Ja) J. Jap. Bot. 43(2): 29-31. Feb. 1968. 450 J8223  
Includes *Rungia taiwanensis*, n. sp.
- 77677 YANG, T. W., and LOWE, C. H. Chromosome variation in ecotypes of *Larrea divaricata* in the North American desert. Madrono 19(5):161-164, map. Jan. 1968. 450 M26
- 77678 ZAKHARIADI, K. A., and ARTYUSHENKO, Z. T. Taxonomy and morphology of some species of *Colchicum* L. indigenous to southeastern Europe and the Caucasus. (Rus) Bot. Zhur. [Moscow] 53(3):313-328, map. Ref. 1968. 451 R923  
English summary.

#### Pteridophytes

- 77679 LASHCHENKOVA, A. N., and MARTYSENKO, V. A. New localities of the common adder-tongue fern (*Ophioglossum vulgatum* L.) habitats of the northeastern Europe. (Rus) Bot. Zhur. [Moscow] 53(1):92-93, map. Jan. 1968. 451 R923

#### Bryophytes

- 77680 BRASSARD, G. R., and STEERE, W. C. The mosses of Bathurst Island, N.W.T., Canada. Can. J. Bot. 46(4):377-383. Apr. 1968. 470 C16C
- 77681 MIZUSHIMA, U. On *Distichophyllum mittenii* reported from Iriomote Island, the Ryukyus. (Ja) J. Jap. Bot. 43(2):28-29. Feb. 1968. 450 J8223
- 77682 MIZUTANI, M. A new knowledge of archegonia of *Takakia lepidozoides*. (Ja) J. Jap. Bot. 42(12):27-29. Dec. 1967. 450 J8223  
English summary.  
Collected in Alaska.

#### Algae

- 77683 COOKE, W. B. Studies in the genus *Prototheca*. I. Literature review. Elisha Mitchell Sci. Soc. J. 84(1):213-216. Spring 1968. 500 EL4
- 77684 COOKE, W. B. Studies in the genus *Prototheca*. II. Taxonomy. Elisha Mitchell Sci. Soc. J. 84(1):217-220. Spring 1968. 500 EL4  
Includes *Prototheca stagnora*, n. sp.
- 77685 KRASNOPEROVA, L. A. Composition and periodicity of development of phytoplankton in the Svir River Basin. (Rus) Bot. Zhur. [Moscow] 53(3):371-375. Ref. 1968. 451 R923
- 77686 OKUNO, H. Diatomaceous earth in Oki Island. 3. J. Jap. Bot. 43(1):17-25. Jan. 1968. 450 J8223  
Description of Diatomaceae.
- 77687 PODGORNAYA, L. S. Protococcal algae of some shallow inland waters of Leningrad and its environs. (Rus) Bot. Zhur. [Moscow] 53(1): 109-110. Ref. Jan. 1968. 451 R923
- 77688 PRINGSHEIM, E. G. Short contribution on flagellates and algae. XV. To our knowledge of the genus *Porphyridium* (Rhodophyceae). (Ge) Arch. Mikrobiol. 61(2):169-180. Ref. 1968. 442.8 Ar26  
English summary.
- 77689 SKVORTZOV, B. W. On new genera of Cryptomonadinae recorded from north-eastern China. J. Jap. Bot. 43(1):8-16. Jan. 1968. 450 J8223  
Includes n. spp. in *Calkinsiella* n. g., *Kisselevia* n. g., *Olivamonas* n. g., *Protocryptomonas* n. g., *Klebsiella* n. g., *Meyeriella* n. g., *Nodeana* n. g., *Smithiella* n. g., and *Butschliella* n. g., *Lemmermanniella* n. g. in *Butschliella*-ceae n. fam.
- 77690 WUNDERLIN, T. F., and WUNDERLIN, R. P. A preliminary survey of the algal flora of Horseshoe Lake, Alexander County, Illinois. Amer. Midland Natur. 79(2):534-539. Apr. 1968. 410 M58

#### Fungi (Including Lichens)

- 77691 ADAMS, F. Relative responses of grain and annual forage crops to lime, phosphorus, and potassium on Norfolk sandy loam. Ala. Agr. Exp. Sta. Circ. 161, 11 p. Feb. 1968. 100 AL1S  
Yields.
- 77692 ALEXOPOULOS, C. J., and BLACKWELL, M. Taxonomic studies in the Myxomycetes. II. Physarina. Elisha Mitchell Sci. Soc. J. 84(1): 48-51. Spring 1968. 500 EL4
- 77693 ASHBROOK, B. M. Isolation of the perfect state of *Microsporium gypseum*, *Nannizzia incurvata* Stockdale, 1961, from soil in North Carolina. Elisha Mitchell Sci. Soc. J. 84(1): 233-235. Spring 1968. 500 EL4
- 77694 BARR, M. E., and BIGELOW, H. W. *Martindalia* unmasked. Mycologia 60(2):456-457. Mar./Apr. 1968. 450 M99  
Synonymy of *M. spironema* with *Phleogena faginea*.
- 77695 CANTER, H. M. On an unusual fungoid organism, *Sphaerita dinobryoni* n. sp., living in species of *Dinobryon*. Elisha Mitchell Sci. Soc. J. 84(1):56-61. Spring 1968. 500 EL4
- 77696 CAVENDER, J. C., and RAPER, K. B. The occurrence and distribution of *Acrasieae* in forests of subtropical and tropical America. Amer. J. Bot. 55(4):504-513. Ref. Apr. 1968. 450 Am36  
*Dictyostelium* and *Polysphondylium* spp. in North America.
- 77697 CLARE, B. G., FLENTJE, N. T., and ATKINSON, M. R. Electrophoretic patterns of oxidoreductases and other proteins as criteria in fungal taxonomy. Australian J. Biol. Sci. 21(2): 275-295. Ref. Apr. 1968. 442.8 Au72
- 77698 COOKE, R. C., and PRAMER, D. *Monacrosporium rutgeriensis* sp. n., a nematode-trapping hyphomycete. Phytopathology 58(4):544-545. Apr. 1968. 464.8 P56
- 77699 FRANKE, R. G., BALEK, R. W., and VALENTIN, L. Taxonomic significance of isozyme patterns of some Myxomycetes, order Physariales, produced with starch gel electrophoresis. Mycologia 60(2):331-339. Ref. Mar./Apr. 1968. 450 M99
- 77700 GRUND, D. W. Nova Scotian *Inocybes*. I. Mycologia 60(2):406-425. Ref. Mar./Apr. 1968. 450 M99  
Includes *Inocybe chalcodoxantha* n. sp., and *I. melleiconica* n. sp.
- 77701 HAWKER, L. E. Hypogeous *Ascomycetes* from Idaho. Elisha Mitchell Sci. Soc. J. 84(1):248-253. Ref. Spring 1968. 500 EL4
- 77702 HESLER, L. R. *Entoloma* in southeastern North America. Nova Hedwigia 23, 195 p. Ref. 1967. 450 N852  
Bibliography, p. 191-192.  
Includes n. spp.
- 77703 HINA, I., and KATSUMOTO, K. The genus *Melchioria* of Japan. J. Jap. Bot. 43(1):26-32. Jan. 1968. 450 J8223  
Includes *Melchioria pseudosasa*, n. spp.
- 77704 JOHNSON, T. W. Aquatic fungi of Iceland; introduction and preliminary account. Elisha Mitchell Sci. Soc. J. 84(1):179-183, map. Spring 1968. 500 EL4
- 77705 KARLING, J. S. Zoosporeic fungi of Oceania. I. Elisha Mitchell Sci. Soc. J. 84(1):166-178. Ref. Spring 1968. 500 EL4  
Includes n. spp. in *Anisopididium* and *Rhizidiomycetes*.
- 77706 KARLING, J. S. Zoosporeic fungi of Oceania. II. Two saprophytic species of *Aphanomycopsis*. Mycologia 60(2):271-284. Ref. Mar./Apr. 1968. 450 M99  
*Aphanomycopsis* saprophyticus n. sp. and *A. punctatus* n. sp.
- 77707 KARLING, J. S. Zoosporeic fungi of Oceania. III. Monocentric chytrids. Arch. Mikrobiol. 61(2):112-127. Ref. 1968. 442.8 Ar26  
Includes n. spp. in *Rhizophydium*.
- 77708 KOCH, W. J., ed. Mycological studies honoring John N. Couch. Elisha Mitchell Sci. Soc. J. 84(1), 280 p. Ref. Spring 1968. 500 EL4



- 77709 KOHLMAYER, J. The first Ascomycete from the deep sea. *Elisha Mitchell Sci. Soc. J.* 84 (1):239-241. Ref. Spring 1968. 500 EL4
- 77710 KOHLMAYER, J. Marine fungi from the tropics. *Mycologia* 60(2):252-270. Ref. Mar./Apr. 1968. 450 M99  
Includes *Cirrenalia pseudomacrocephala* n. sp. and *C. tropicalis* n. sp.
- 77711 KORF, R. P., and DUMONT, K. P. The case of *Lambertella brunneola*: an object lesson in taxonomy of the higher fungi. *Elisha Mitchell Sci. Soc. J.* 84(1):242-247, map. Ref. Spring 1968. 500 EL4  
Includes geographic distribution.
- 77712 LIM, G. A species of *Poronia* new to Malaya. *Mycologia* 60(2):464-465. Mar./Apr. 1968. 450 M99  
*Poronia oedipus*.
- 77713 MEHROTRA, B. S., and BAIJAL, U. Is *Blakeslea* a valid genus? *Elisha Mitchell Sci. Soc. J.* 84(1):207-210. Spring 1968. 500 EL4  
Includes *Blakeslea monospora* n. sp.
- 77714 MILLER, C. E. Observations concerning taxonomic characteristics in chytridiaceous fungi. *Elisha Mitchell Sci. Soc. J.* 84(1):100-107. Ref. Spring 1968. 500 EL4
- 77715 MUKERJI, K. G. Fungi of Delphi. IV. A new species of *Piptocephalis* form India. *Mycologia* 60(2):326-330. Mar./Apr. 1968. 450 M99  
*Piptocephalis brijmohanii* n. sp.
- 77716 MUTHAPPA, B. N. Fungi of Coorg, India. I. *Mycopathol. Mycol. Appl.* 34(2):193-195. Mar. 22, 1968. 450 M994  
*Prathigada tamarindi* n. sp. on *Tamarindus indica*, and *Cercospora coorgica* n. sp. on *Ageratum conyzoides*, causal agents of leaf spot.
- 77717 NICOLSON, T. H., and GERDEMANN, J. W. Mycorrhizal *Endogone* species. *Mycologia* 60 (2):313-325. Ref. Mar./Apr. 1968. 450 M99  
Includes n. spp.
- 77718 OLIVE, L. S. An unusual new heterobasidiomycete with tilletia-like basidia. *Elisha Mitchell Sci. Soc. J.* 84(1):261-266. Spring 1968. 500 EL4  
*Filobasidiaceae* n. fam., and *Filobasidium* n. g.
- 77719 PARBERY, D. G. Isolation of the kerosene fungus, *Cladosporium resinae*, from Australian soil. *Brit. Mycol. Soc. Trans.* 50(4):682-685. Dec. 1967. 451 B76
- 77720 RAGUNATH, T. A new species of *Tolyposporium* affecting *Cymbopogon flexuosus* Stapf. in India. *Mycopathol. Mycol. Appl.* 34(2):119-122. Mar. 22, 1968. 450 M994  
*Tolyposporium christensenii* n. sp.
- 77721 RANZONI, F. V. Fungi isolated in culture from soils of the Sonoran Desert. *Mycologia* 60(2): 356-371, map. Ref. Mar./Apr. 1968. 450 M99
- 77722 RAPER, K. B., and CAVENDER, J. C. *Dictyostelium rosarium*; a new cellular slime mold with beaded sorocarps. *Elisha Mitchell Sci. Soc. J.* 84(1):31-47. Ref. Spring 1968. 500 EL4
- 77723 SAVILE, D. B. O. The case against "uredium. *Mycologia* 60(2):459-464. Ref. Mar./Apr. 1968. 450 M99  
As term for spore states of the rusts.
- 77724 SAVILE, D. B. O. Some fungal parasites of *Scrophulariaceae*. *Can. J. Bot.* 46(4):461-471. Ref. Apr. 1968. 470 C16C  
Includes n. spp. in *Ramularia*, and *Puccinia*.
- 77725 SINGER, R. Sand-dune inhabiting fungi of the South Atlantic coast from Uruguay to Bahia Blanca. *Mycopathol. Mycol. Appl.* 34(2):129-143. Mar. 22, 1968. 450 M994
- 77726 SMITH, A. H. Further studies on *Rhizopogon*. I. *Elisha Mitchell Sci. Soc. J.* 84(1):274-280. Spring 1968. 500 EL4  
Includes n. spp.
- 77727 SPARROW, F. K. *Physoderma hydrocotylidis* and other interesting Phycomyces from California. *Elisha Mitchell Sci. Soc. J.* 84(1):62-68. Spring 1968. 500 EL4  
Includes n. spp. in *Rhizophydium*.
- 77728 SRINIVASAN, M. C., and THIRUMALACHAR, M. J. Two new species of *Conidiobolus* from India. *Elisha Mitchell Sci. Soc. J.* 84(1):211-212. Spring 1968. 500 EL4  
*Conidiobolus couchii*, and *C. lobatus*.
- 77729 WETMORE, C. M. Lichens of the Black Hills of South Dakota and Wyoming. *Mich. State Univ. Publ. Mus. Biol. Ser.* 3(4):209-464, map. 1967, pub. 1968. 442.9 M583  
Bibliography, p. 440-450.

## WEEDS AND POISONOUS PLANTS

- 77730 KOZHUKHAROV, S. I. Klyuch za opredelyane na plevelite [Weed identification key]. *Sofiya, Zemizdat*, 1967. 200 p. SB613.B8K6
- 77731 THOMAS, P. E. L. Weed seed production study, Henderson Research Station, summer 1966/67. *PANS (Pest Articles News Sum.) Sect. C, Weed Contr.* 14(1):78-79. Mar. 1968.  
From *Eleusine indica* and *Nicandra physaloides*.

## Weeds - Biology

- 77732 BLACKBURN, R. D., WHITE, P. F., and WELDON, L. W. Ecology of submersed aquatic weeds in South Florida canals. *Weed Sci.* 16 (2):261-266. Ref. Apr. 1968. 79.8 W41
- 77733 DESBIEZ, M. O. Induction of precedence among buds with a weak degree of light. (*Fr*) *Acad. Sci. C. R., Ser. D*, 266(6):582-585. Feb. 5, 1968. 505 P21  
*Bidens pilosa*.
- 77734 DOSPEKHOV, B. A. Fertilizers and weeds. (*Rus*) *Len Konoplya* 1:28-30. 1968. 73.8 L542  
In field crops.
- 77735 ELLIS, J. F., and ILNICKI, R. D. Seed dormancy in corn chamomile [*Anthemis arvensis*]. *Weed Sci.* 16(2):111-113. Ref. Apr. 1968. 79.8 W41
- 77736 FABRICIUS, L. J., and NALEWAJA, J. D. Competition between wheat and wild buckwheat [*Polygonum convolvulus*]. *Weed Sci.* 16(2):204-208. Apr. 1968. 79.8 W41  
Weed in cereals and flax in Northern States.
- 77737 GOSTEVA, M. I. Quarantine weeds. (*Rus*) *Zashch. Rast.* 4:33-35. 1968. 421 Z1  
A list; includes biology.
- 77738 KLYUSHKIN, P. A. What should we know about quarantine weeds? (*Rus*) *Zashch. Rast.* 4:40. 1968. 421 Z1
- 77739 MULCAHY, D. L. The significance of delayed pistillate anthesis in *Silene alba*. *Torrey Bot. Club. Bull.* 95(2):135-139. Mar./Apr. 1968. 451 T63B
- 77740 PALMBLAD, I. G. Competition in experimental populations of weeds with emphasis on the regulation of population size. *Ecology* 49(1):26-34. Ref. Winter 1968. 410 Ec7
- 77741 RIEMER, D. N., and TOTH, S. J. A survey of the chemical composition of aquatic plants in New Jersey. *N. J. Agr. Exp. Sta. Bull.* 820, 14 p. Mar. 1968. 100 N46S  
Weeds.
- 77742 ROSENTHAL, N., SCHIRMAN, R., and ROBOCK-ER, W. C. Root development of rush skeletonweed [*Chondrilla juncea*]. *Weed Sci.* 16(2):213-217. Apr. 1968. 79.8 W41
- 77743 SEIDLOVA, F., and KREKULE, J. Growth effects of 2-thiouracil and possibility of selective inhibition of floral differentiation in *Chenopodium rubrum* L. *Biol. Plant.* 10(1):41-50. Ref. 1968. 450 B52
- 77744 SHERWOOD, W. A. Extension of the host range of *Octomyxa brevillegniae*. *Elisha Mitchell Sci. Soc. J.* 84(1):52-55. Spring 1968. 500 EL4  
Fungi as hosts.
- 77745 SMITH, R. J. Weed competition in rice. *Weed Sci.* 16(2):252-255. Ref. Apr. 1968. 79.8 W41  
Effects on growth and yields.

- 77746 WIENS, D. Chromosomal and flowering characteristics in dwarf mistletoes (*Arceuthobium*). *Amer. J. Bot.* 55(3):325-334. Ref. Mar.1968. 450 Am36  
As basis for its taxonomy; includes a list of its host trees.
- Weed Control
- 77747 ALDHOUS, J. R. List of research workers in weed control in forestry. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.4:635-678. 1967. 99.9 In82
- 77748 BOYAROVICH, N. M. Weed control. (Rus) *Zashch. Rast.* 4:21-22. 1968. 421 Z1  
Corn.
- 77749 BURNSIDE, O. C., and WILLIAMS, J. H. Weed control methods for kinkaoil, [*Vernonia anthelmintica*], kenaf, and *Sunn Crotalaria*. *Agron. J.* 60(2):162-164. Mar./Apr.1968. 4 Am34P
- 77750 CRAFTS, A. S. Weed control research, 1947-1967. *Calif. Weed Conf. Proc.*, 20th Annu. Conf. Proc.:89-93. 1968. 79.9 C122
- 77751 DAVIDSON, T. R. Onion weed control on Mal-lee soils. *S. Australia J. Agr.* 71(8):290-293. Mar.1968. 23 So84
- 77752 FURTICK, W. R. World-wide weed control. *Calif. Weed Conf. Proc.*, 20th Annu. Conf. Proc.:3-10. 1968. 79.9 C122
- 77753 HARVEY, W. A. Twenty years—a beginning. *Calif. Weed Conf. Proc.*, 20th Annu. Conf. Proc.:103-109. 1968. 79.9 C122  
The twentieth anniversary of California Weed Conference.
- 77754 ISHAG, H. M. Effects of weed control on yields of irrigated sorghum in the Sudan Gezira. *PANS (Pest Articles News Sum.) Sect. C, Weed Contr.* 14(1):34-41. Mar.1968. 79.9 C792
- 77755 LEONARD, O. A. How plant physiology affects weed control under Mediterranean conditions. *Agrichem. West* 10(9):14,16. (Cont.) Sept.1967. 381 Ag85
- 77756 STOCKDILL, S. M. J. Chou moellier yields dramatically increased by weed control. *New Zeal. J. Agr.* 116(3):73,75. Mar.1968. 23 N58J
- 77757 SWITZENBERG, M. Statewide survey and trends. *Calif. Weed Conf. Proc.*, 20th Annu. Conf. Proc.:17-20. 1968. 79.9 C122
- 77758 SZILI, M., and NAGY, E. Experiences in dodder control in the Comitat Tolna. (Hu) *Magyar Mezogazdasag* 23(4):14. Jan.24,1968. 19 M27
- 77759 TALBERT, R. E. Regulatory weed control: recent development. *Calif. Weed Conf. Proc.*, 20th Annu. Conf. Proc.:27-31. 1968. 79.9 C122
- Weed Control - Chemical
- 77760 ABUEVA, A. A. Effect and aftereffect of herbicides on strawberries. (Rus) Moscow. *Timiryazev. Sel'skokhoz. Akad. Dokl.* 132:135-140. 1967. 20 M857
- 77761 ALDHOUS, J. R. Review of practice and research in weed control in forestry in Great Britain. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.4:40-64. Ref. 1967. 99.9 In82  
Chemical.
- 77762 ALLEY, H. P. Some observations on Tordon-2, 4-D herbicide combinations. *Down Earth* 23(1):2,35-36. Ref. Summer 1967. 381 D75
- 77763 ANDERSON, H. W. Two herbicides reduce weeding costs in Washington nursery trials. *Tree Planters' Notes* 19(1):10-14. Ref. Mar. 1968. 1,962 C5T71  
Use of downpen, propazine, simazine, and Kloben on *Pseudotsuga menziesii*.
- 77764 ANDERSON, J. L., and others. Chemical weed control guide, Utah, 1967. *Utah. State Univ. Ext. Ext. Circ.* 301,39 p. Ref. June 1967. 275.29 Ut1  
A. R. Hamson, L. A. Jensen, K. G. Parker, R. S. Roberts, and A. L. Stark, joint authors.  
For field crops, fruit and vegetables.
- 77765 ASHTON, F. M., PENNER, D., and HOFFMAN, S. Effect of several herbicides on proteolytic activity of squash seedlings. *Weed Sci.* 16(2):169-171. Ref. Apr.1968. 79.8 W41
- 77766 BANKI, L., and BIHARI, F. Comparison of effectiveness of herbicides. (Hu) *Magyar Kem. Lapja* 23(1):6-9. Ref. 1968. 385 M27  
English summary.
- 77767 BARNES, H. H. A top farmer looks at herbicides. *Agr. Chem.* 23(2):16-18. Feb.1968. 381 Ag8  
Application and types.
- 77768 BARTELS. An exceptional herbicide for corn. (Ge) *Chem. Tech. Landwirt.* 19(4):133. 1968. 384 C4292  
Atrazine.
- 77769 BARTELS, P. G., and PEGELOW, E. J. The action of Sirmate (3,4-dichlorobenzyl methylcarbamate) on chloroplast ribosomes of *Triticum vulgare* L. seedlings. *J. Cell Biol.* 37(2):C1-C6. Ref. May 1968. 442.8 J828
- 77770 BAYER, D. E. Activity relationships of surfactants. *Calif. Weed Conf. Proc.*, 20th Annu. Conf. Proc.:97-98. 1968. 79.9 C122
- 77771 BELYAKOV, V., and KRUSTEVA, M. Results of herbicide tests carried out in fruit orchards with new type of spraying device. (Bu) *Rast. Zashch.* 16(3):32-38. 1968. 423.92 So2
- 77772 BEUTEL, J. Non-tillage approach to orchard culture. *Calif. Weed Conf. Proc.*, 20 Annu. Conf. Proc.:60-62. 1968. 79.9 C122  
Use of herbicides.
- 77773 BONNEMANN, A. New efforts on forestry herbicides. (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.4:83-90. 1967. 99.9 In82  
Germany.
- 77774 BROWN, J. C., and CARTER, M. C. Influence of amitrole upon protein metabolism in bean plants. *Weed Sci.* 16(2):222-226. Ref. Apr. 1968. 79.8 W41
- 77775 BUHL, C. Twin-eared and triplet-eared winter rye, and unusual manifestation resulting from weed control with calcium cyanamide. (Ge) *Z. Pflanzenkr. (Pflanzenpathol.) Pflanzenschutz* 75(3):146-151. Mar.1968. 464.8 Z3  
English summary.
- 77776 BURGOYNE, D. L. The residual characteristics of diuron and linuron in California agricultural soils. *Calif. Weed Conf. Proc.*, 20th Annu. Conf. Proc.:42-44. 1968. 79.9 C122
- 77777 CALIFORNIA WEED CONFERENCE. Proceedings, 20th annual conference, Sacramento, California, January 22 thru 24, 1968. n.p.,1968. 147 p. 79.9 C122  
Chiefly chemical weed control.
- 77778 CALLAHAN, L. M., ENGEL, R. E., and ILNICKI, R. D. Environmental influence on bentgrass treated with silvex. *Weed Sci.* 16(2):193-196. Ref. Apr.1968. 79.8 W41  
*Agrostis tenuis* and *A. palustris*.
- 77779 CAMPBELL, L. G. Spraying equipment and crop protection on small farms in the Tropics. *PANS (Pest Articles News Sum.) Sect. C, Weed Contr.* 14(1):7-11. Mar.1968. 79.9 C792  
Chemical weed control.
- 77780 CANT, J. S., and LEWIS, D. R. H. Ocular damage due to paraquat and diquat. *Brit. Med. J.* 2(5599):224. Apr.27,1968. 448.8 B77
- 77781 CHANG, F. Y., and VANDEN BORN, W. H. Translocation of dicamba in Canada thistle [*Cirsium arvense*]. *Weed Sci.* 16(2):176-181. Ref. Apr.1968. 79.8 W41
- 77782 CHAPPELL, W. E. 1967 herbicide recommendations; annual weed and grass control in beets. *Va. Polytech. Inst. Ext. Leaf.* 252,2 p. Dec.1966. 275.29 V81L
- 77783 CHAPPELL, W. E. 1967 herbicide recommendations; annual weed and grass control in peas. *Va. Polytech. Inst. Ext. Leaf.* 258,2 p. Dec. 1966. 275.29 V81L
- 77784 CHAPPELL, W. E. 1967 herbicide recommendations; annual weed and grass control in tomatoes and peppers. *Va. Polytech. Inst. Ext. Leaf.* 284,2 p. Dec.1966. 275.29 V81L



- 77785 CHAPPELL, W. E. 1967 herbicide recommendations; control of annual broadleaf weeds and grass in grapes. Va. Polytech. Inst. Ext. Leaflet. 227.2 p. Dec.1966. 275.29 V81L
- 77786 CHAPPELL, W. E. 1967 herbicide recommendations; control annual grasses and broad-leaved plants in peaches. Va. Polytech. Inst. Ext. Leaflet. 225.2 p. Dec.1966. 275.29 V81L Use of simazine.
- 77787 CHENG, H. M., and others. Studies on the phenylphenol derivatives with biological activity. I-II. Agr. Biol. Chem. 32(3):358-345. Ref. Mar.1968. 385 Ag8B  
M. Eto, S. Kuwatsuka, and Y. Oshima, joint authors.  
Herbicidal activity of nitro-substituted and chloro-substituted phenylphenols.
- 77788 CHESALIN, G. A. Using herbicides more effectively. (Rus) Zashch. Rast. 4:2-4. 1968. 421 Z1
- 77789 COKE, J. E. Weeds: our half billion dollar crop. Calif. Weed Conf. Proc., 20th Annu. Conf. Proc.:56-59. 1968. 79.9 C122  
Chiefly costs of herbicides and crop losses.
- 77790 CORKINS, J. P. Industrial research stations. Calif. Weed Conf. Proc., 20th Annu. Conf. Proc.:99-100. 1968. 79.9 C122  
Chemical weed control.
- 77791 DELLE COSTE, A. C., and DI LAZZARO, O. The use of "Gramoxone" for the control of Echinochloa crus-galli prior to the aerial sowing of rice. Agr. Aviation 19(1):14-15. Jan. 1968. 333.8 Ag8
- 77792 DERSCHIED, L. A., and PARKER, R. Weed control in sorghum. S. Dak. State Univ. Ext. FS 400.6 p.-folder. Feb.1968. 275.29 So85Fs  
Chiefly chemical.
- 77793 ELMORE, C. L., LANGE, A. H., and FISCHER, B. B. Perennial grass control in orchards and vineyards. Calif. Weed Conf. Proc., 20th Annu. Conf. Proc.:74-75. 1968. 79.9 C122  
Chiefly control of Sorghum halepense with dalapon and monosodium acid methanearsonate.
- 77794 ELWELL, H. M. Winged elm [*Ulmus alata*] control with picloram and 2,4,5-T with and without additives. Weed Sci. 16(2):131-133. Apr.1968. 79.8 W41
- 77795 ESPINOZA, W. G., ADAMS, R. S., and BEHRENS, R. Interaction effects of atrazine and CDAA, linuron, amiben, or trifluralin on soybean growth. Agron. J. 60(2):183-185. Mar./Apr.1968. 4 Am34P
- 77796 EVANS, S. Spraying cereals. Great Brit. Min. Agr. Fish. Food. Agr. 75(4):171-173. Apr. 1968. 10 G79J  
For weed control.
- 77797 FISCHER, B. B., LANGE, A. H., and ELMORE, C. L. Annual weed control in vineyards and deciduous orchards. Calif. Weed Conf. Proc., 20th Annu. Conf. Proc.:68-75. 1968. 79.9 C122  
Chemical.
- 77798 FODOR, MRS. P., and BITE, MRS. P. Thin-layer chromatography studies on triazine derivatives. (Hu) Budapest. Novenyvedelmi Kutató Intezet. Evkon. 10:73-77. 1965/1967. 423.92 B85  
English summary.  
Herbicides.
- 77799 FOSSE, R. A. Pyramin residue management. Calif. Weed Conf. Proc., 20th Annu. Conf. Proc.:36. 1968. 79.9 C122  
In soils.
- 77800 FOSTER, J., and TERRY, P. J. Weed research at the Tropical Pesticides Research Institute, Arusha. PANS (Pest Articles News Sum.) Sect. C, Weed Contr. 14(1):3-6. Mar.1968. 79.9 C792
- 77801 GABBOTT, P. A., and BARNESLEY, G. E. 2-azido-4-alkylamino-6-alkylamino-s-triazines: a new group of herbicidal triazines. J. Sci. Food Agr. 19(1):16-19. Ref. Jan.1968. 382 So12
- 77802 GAMBRELL, C. E., and RHODES, W. H. The influence of several residual and contact herbicides on weed control and growth of young peach trees. S. C. Agr. Exp. Sta. Dep. Hort. Res. Serv. 102,12 p. May 1967. SB21.S6
- 77803 GERGEDAVA, N. F., and ZAVARZIN, V. I., and BELYAEVA, T. V. Applying herbicides on tea plantations. (Rus) Zashch. Rast. 2:25. 1968. 421 Z1
- 77804 GHENT, RIJKSLANDBOUWHOGESCHOOL. CENTRUM VOOR ONKRUIDONDERZOEK. Bespreking van de resultaten bereikt voor het oogstjaar [Review of results in the harvest year], 1965-1966. Gent, 1966. 94 p. (Its Mededeling No. 6) 79.9 G342M  
Herbicides and weed control.
- 77805 GOLOVANEV, P. S., and IVANOV, M. A. Applying herbicides to rice. (Rus) Zashch. Rast. 4:28-29. 1968. 421 Z1  
Test of propanil.
- 77806 GORING, C. A. I., and YOUNGSON, C. R. Prediction of rates of disappearance of Tordon herbicide in California soils. Calif. Weed Conf. Proc., 20th Annu. Conf. Proc.:37-42. 1968. 79.9 C122
- 77807 GRAEF, H. Novelties in the growth suppression field. (Ge) Lohnunternehmen Land- Forstwirtschaft. 23(2):44-45. Feb.15,1968. 58.8 D81  
Maleic hydrazide and chlorflurenol in weed control.
- 77808 GREAT BRITAIN. MINISTRY OF AGRICULTURE, FISHERIES AND FOOD. Chemical weed control in onions and leeks. Great Brit. Min. Agr. Fish. Food. Adv. Leaflet. 73,10 p. Jan. 1968. 10 G79La
- 77809 GRISHUTINA, A. P. Improving flood plain meadows with arboricides. (Rus) Zashch. Rast. 4:24-25. 1968. 421 Z1
- 77810 GUNTHER, G. Silvicultural and management effects of chemical weeding. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.4: 242-263. 1967. 99.9 In82  
Dalapon and 2,4,5-T application in Germany.
- 77811 HELLING, C. S., BOLLAG, J. M., and DAWSON, J. E. Cleavage of ether-oxygen bond in phenoxycetic acid by an *Arthrobacter* species. J. Agr. Food Chem. 16(3):538-539. May/June 1968. 381 J8223  
Herbicide.
- 77812 HIGGINS, R. E. Hazards of herbicide drift. Agr. Chem. 23(2):43,46-47. Feb.1968. 381 Ag8
- 77813 HILTON, J. L., and KAUFMAN, D. D. Structure versus metabolic activities of amitrole and its analogs. Weed Sci. 16(2):152-158. Ref. Apr.1968. 79.8 W41  
Toxicity tests with *Salmonella typhimurium*.
- 77814 HOFFMAN, G. O. Controlling pricklypear in Texas. Down Earth 23(1):9-12. Summer 1967. 381 D75  
Use of Tordon: a problem to rangeland.
- 77815 HOGUE, E. J. The effect of linuron on <sup>32</sup>P and <sup>45</sup>Ca uptake in tomato and parsnip. Weed Sci. 16(2):185-187. Ref. Apr.1968. 79.8 W41
- 77816 HOLZ, W. Hastening of intensive culture of pasture with herbicide application. (Ge) Lohnunternehmen Land- Forstwirtschaft. 23(2):34-36. Feb.15,1968. 58.8 D81  
Chemical weed control.
- 77817 HURTER, J., BERUTER, J., and BOSSHARDT, H. P. The resistance of *Imperata cylindrica* to simazine herbicide. (Ge) Experientia 24(3): 217. Mar.15,1968. 475 Ex7  
English summary.
- 77818 JENEY, K., and HAMRAN, MRS. J. Studies on physical requirements of granulated pesticides. (Hu) Budapest. Novenyvedelmi Kutató Intezet. Evkon. 10:79-84. 1965/1967. 423.92 B85  
English summary.  
Herbicides and insecticides.
- 77819 JORDAN, L. S. Herbicide incorporation in soil. Calif. Weed Conf. Proc., 20th Annu. Conf. Proc.:94-96. 1968. 79.9 C122
- 77820 KAMPE, W. Herbicides in beet culture; the current situation. (Ge) Chem. Tech. Landwirt. 19(3):67-68,70-72. 1968. 384 C4292
- 77821 KATES, A. H. 1967 herbicide recommendations; weed control in cotton. Va. Polytech. Inst. Ext. Leaflet. 241,2 p. Dec.1966. 275.29 V81L

- 77822 KATES, A. H. 1967 herbicide recommendations; weed control in forage crops. Va. Polytech. Inst. Ext. Leaflet. 244.2 p. Dec.1966. 275.29 V81L
- 77823 KAUFMAN, D. D., and others. Chemical versus microbial decomposition of amitrole in soil. Weed Sci. 16(2):266-272. Ref. Apr.1968. 79.8 W41
- 77824 J. R. Plimmer, P. C. Kearney, J. Blake, and F. S. Guardia, joint authors.
- 77824 KAY, B. L. Rangeland weed control research. Calif. Weed Conf. Proc., 20th Annu. Conf. Proc.:101-103. 1968. 79.9 C122
- 77825 KAZAKOVA, K. Use of prometryne in culture of fennel and anise. (Bu) Rast. Zashch. 16(3):10-14. 1968. 423.92 So2  
Weed control.
- 77826 KEE, D. L. H., and BROWN, D. A. L. Effect of herbicides on oil palm. PANS (Pest Articles News Sum.) Sect. C, Weed Contr. 14(1):71-76. Mar.1968. 79.9 C792  
Post-emergence and pre-emergence use herbicides.
- 77827 KNAKE, E. L. Atrazine and oil kills weeds postemergence. Hoard's Dairyman 113(8):525, 537. Apr.25,1968. 44.8 H65
- 77828 KNAKE, E. L. Incorporated herbicides into the soil? Hoard's Dairyman 113(9):584,611. May 10,1968. 44.8 H65  
Corn herbicides.
- 77829 KOMAROVA, A. I., and SANNIKOV, G. P. Controlling weeds on canals. (Rus) Zashch. Rast. 4:22-23. 1968. 421 Z1  
Chemical control on drainage canals.
- 77830 KOMAROV, A. M. Applying herbicides with fertilizer to flax. (Rus) Zashch. Rast. 2:24-25. 1968. 421 Z1
- 77831 KOREN, E., FOY, C. L., and ASHTON, F. M. Phytotoxicity and persistence of four thiocarbamates in five soil types. Weed Sci. 16(2):172-175. Ref. Apr.1968. 79.8 W41
- 77832 KUST, C. A. Herbicides or oat companion crops for alfalfa establishment and forage yields. Agron. J. 60(2):151-154. Ref. Mar./Apr.1968. 4 Am34P  
Tests in Wisconsin.
- 77833 LADONIN, V. F., and POPOV, N. I. Herbicides and irrigation. (Rus) Zashch. Rast. 4:23-24. 1968. 421 Z1  
Carrots.
- 77834 LALOVA, M. Control of wheat weeds resistant to 2,4-D. (Bu) Rast. Zashch. 16(3):3-4. 1968. 423.92 So2
- 77835 LANGE, A. H., ELMORE, C. L., and FISCHER, B. B. Statewide outlook for the use of herbicides in orchards and vineyards. Calif. Weed Conf. Proc., 20th Annu. Conf. Proc.:80-88. 1968. 79.9 C122
- 77836 LANPHEAR, F. O. Incorporation of dichlobenil in mulches. Weed Sci. 16(2):230-231. Apr. 1968. 79.8 W41  
Tests with dichlobenil applied with mulches on woody ornamentals.
- 77837 LAW, J. B. Herbicide tests point the way. U. I. (Utah-Idaho) Cult. 28(1):15-18. Spring 1968. 66.8 U12  
Sugar beets.
- 77838 LAWLEY, R. E. Napa County roadside vegetation management. Calif. Weed Conf. Proc., 20th Annu. Conf. Proc.:21-23. 1968. 79.9 C122  
Chiefly chemical weed control.
- 77839 LEGG, D. C. Selective weedkiller for use on young turf. Sports Turf Res. Inst. J. 43:40-48. 1967, pub. Mar.1968. 60.19 B772
- 77840 LIDER, J. V. Morning glory [Convolvulus arvensis] control in coastal vineyards. Calif. Weed Conf. Proc., 20th Annu. Conf. Proc.:76-79. 1968. 79.9 C122  
Chiefly with 2,4-D.
- 77841 LIFSHITZ, N., and RETIG, B. Selective herbicides for guar (Cyamopsis tetragonoloba Taub.). PANS (Pest Articles News Sum.) Sect. C, Weed Contr. 14(1):62-70. Ref. Mar.1968. 79.9 C792
- 77842 LINSKOTT, D. L., and HAGIN, R. D. Effects of two environmental factors on removal of 24-DB from forage. Weed Sci. 16(2):114-116. Apr. 1968. 79.8 W41  
Rainfall and light.
- 77843 LINSKOTT, D. L., and HAGIN, R. D. Interaction of EPTC and DNBP on seedlings of alfalfa and birdsfoot trefoil. Weed Sci. 16(2):182-184. Ref. Apr.1968. 79.8 W41
- 77844 LOTLIKAR, P. D., REMMERT, L. F., and FREED, V. H. Effects of 2,4-D and other herbicides on oxidative phosphorylation in mitochondria from cabbage. Weed Sci. 16(2):161-165. Ref. Apr.1968. 79.8 W41
- 77845 LUND-HOIE, K., and BAYER, D. E. Absorption, translocation and metabolism of 3-amino-1,2,4-triazole in Pinus ponderosa and Abies concolor. Physiol. Plant. 21(1):196-212. Ref. 1968. 450 P564  
Studies with radioactive carbon.
- 77846 MADDEN, C. J. Weed control on tea estates in southern India. PANS (Pest Articles News Sum.) Sect. C, Weed Contr. 14(1):23-26. Mar. 1968. 79.9 C792  
Chiefly chemical control.
- 77847 MAGALHAES, C., ASHTON, F. M., and FOY, C. L. Translocation and fate of dicamba in purple nutsedge [Cyperus rotundus]. Weed Sci. 16(2):240-244. Ref. Apr.1968. 79.8 W41
- 77848 MANN, J. D., and PU, M. Inhibition of lipid synthesis by certain herbicides. Weed Sci. 16(2):197-198. Apr.1968. 79.8 W41  
Sesbania exaltata as test plant.
- 77849 MARTIN, G. Chemical weed control in rice. Rice J. 71(3):20,22-23. Mar.1968. 59.8 R36
- 77850 MCBEE, G. G., and SURLLES, L. E. Some effects of certain benzoic, phenoxyacetic and phenoxypropionic acid derivatives on St. Augustinegrass [Stenotaphrum secundatum]. Tex. Agr. Exp. Sta. Progr. Rep. PR-2530,5 p. Mar.25,1968. 100 T31P  
For weed control.
- 77851 MCCOWAN, F. H. Turf herbicide Rx: add oil. Agr. Chem. 23(4):18-21. Apr.1968. 381 Ag8
- 77852 MCCULLY, W. G., BOWMER, W. J., and RODMAN, R. S. Post-surface control of bermudagrass on highway shoulder pavements. Down Earth 23(1):13-17. Ref. Summer 1967. 381 D75  
TCA used.
- 77853 MCHENRY, W. B., FISCHER, B. B., and JETER, R. B. Recent advances in Johnson grass [Sorghum halepense] control. Calif. Weed Conf. Proc., 20th Annu. Conf. Proc.:32-35. 1968. 79.9 C122  
Chemical.
- 77854 MEGGITT, W. F., and ERDMANN, M. H. Weed control in field crops. Mich. State Univ. Ext. Bull. E-434,8 p. Mar.1968. 275.29 M58B  
Chiefly chemical.
- 77855 MEYER, J. Is chemical couchgrass control possible in the spring? (Ge) Lohnunternehmen Land-Forstwirtschaft. 23(2):42-43. Feb.15,1968. 58.8 D81  
With TCA.
- 77856 MICKELSEN, E. Selective herbicides are here for better, easier weed control. U I (Utah-Idaho) Cult. 23(1):23-25. Spring 1968. 66.8 U12  
Sugar beets.
- 77857 MOTOOKA, P. S., and others. Aerial herbicidal control of Hawaii jungle vegetation. Hawaii. Agr. Exp. Sta. Bull. 140,19 p. Jan.1967. 100 H313  
D. F. Saiki, D. L. Plucknett, O. R. Younge, and R. E. Daehler, joint authors.
- 77858 MOTOOKA, P. S., and others. Control of Hawaiian jungle with aerially applied herbicide. Down Earth 23(1):18-22, map. Summer 1967. 381 D75  
D. F. Saiki, D. L. Plucknett, O. R. Younge, and R. E. Daehler, joint authors.
- 77859 NASH, R. G. Plant uptake of <sup>14</sup>C-diuron in modified soil. Agron. J. 60(2):177-179. Ref. Mar./Apr.1968. 4 Am34P  
Tests with oats.



- 77860 NASHED, R. B., and ILNICKI, R. D. The effect of linuron on ion uptake in corn, soybean, and crabgrass [*Digitaria sanguinalis*]. *Weed Sci.* 16(2):188-192. Ref. Apr.1968. 79.8 W41
- 77861 NETHERLANDS. PLANTENZIEKTENKUNDIGE DIENST. Chemische onkruidbestrijding in bieten [Chemical weed control in beets]. *Neth. Plantenziektenkundige Dienst. Ber.* 1699,3 p. Mar.8,1968. 464.9 N38
- 77862 NETHERLANDS. PLANTENZIEKTENKUNDIGE DIENST. Chemische onkruidbestrijding in granen [Chemical weed control in grain]. *Neth. Plantenziektenkundige Dienst. Ber.* 1702,7 p. Mar.22,1968. 464.9 N38
- 77863 1968 WEED control manual and herbicide guide. *Farm Technol.* 24(3),86 p. Mar.1968. 275.28 N213
- 77864 OGLE, W. L., FLEMING, M. J., and ALTMAN, C. D. A progress report on herbicide studies conducted with vegetable crops in 1966. *S. C. Agr. Exp. Sta. Dep. Hort. Res. Ser.* 93,15 p. Jan.1967. SB21.S6
- 77865 OLIVER, L. R., and FRANS, R. E. Inhibition of cotton and soybean roots from incorporated trifluralin and persistence in soil. *Weed Sci.* 16(2):199-203. Apr.1968. 79.8 W41
- 77866 PASE, C. P., and others. Improving water yield and game habitat by chemical control of chaparral. *Int. Union Forest. Res. Organ. Papers*, 14th Congr.,v.1:463-484. Ref. 1967. 99.9 In82  
P. A. Ingebo, E. A. Davis, and C. Y. McCulloch, joint authors.  
Aerial application of 2,4,5-T, fenuron and picloram.
- 77867 PHILLIPS, W. M. Persistence and movement of 2,3,6-TBA in soil. *Weed Sci.* 16(2):144-148. Ref. Apr.1968. 79.8 W41
- 77868 PRICE, J. D., and others. Suggestions of weed control with chemicals. *Tex. Agr. Mech. Univ. Ext. B-1029,rev.*,35 p. 1968. 100 T31S  
E. B. Hudspeth, H. P. O'Neal, B. G. Reeves, L. H. Wilkes, T. E. Boswell, A. L. Harrison, R. H. Haas, G. O. Hoffman, W. G. McCully, H. H. Bowen, R. D. Brigham, T. E. Denman, F. C. Elliott, W. T. Flinchum, E. C. Gilmore, B. G. Hancock, R. J. Hodges, E. C. Holt, E. E. Janne, J. H. Kyle, R. F. Leyden, T. D. Longbrake, N. P. Maxwell, G. G. McBee, M. G. Merkle, M. J. Norris, A. C. Novosad, D. R. Paterson, J. N. Pratt, U. A. Randolph, B. R. Spears, J. B. Storey, A. F. Wiese, J. M. Inglis, W. G. Klussmann, R. D. Palmer, and E. M. Trew, joint authors.  
Published jointly with Texas Agricultural Experiment Station.
- 77869 PROCTER, G. C. Chemical cuts cultivations. *Arable Farmer* 1(12):4-5,13. Oct.1967. S3.A7  
In weed control.
- 77870 PUTNAM, A. R., and others. Chemical weed control for horticultural crops. *Mich. State Univ. Ext. Bull.* 433,rev.,11 p. Feb.1968. 275.29 M58B  
S. K. Ries, J. Hull, and R. P. Larsen, joint authors.  
Fruit, ornamentals and vegetables.
- 77871 RAKITIN, A. YU. Effectiveness of herbicides, applied on strawberry plantations in the Moscow Region. (Rus) *Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl.* 132:141-146. 1967. 20 M857
- 77872 RAKITIN, YU. V., and MIKHAILOVA, T. P. Effect of 2,4-D herbicide on the respiratory system and phosphorus metabolism of spring wheat. (Rus) *Akad. Nauk SSSR. Izv. Ser. Biol.* 1:34-44. Ref. Jan./Feb.1968. 511 Sa2B  
English summary.
- 77873 RANKOV, V. Effect of some herbicides used to control weeds in vegetable gardens on soil microflora. (Bu) *Rast. Zashch.* 16(3):6-10. 1968. 423.92 So2
- 77874 RAPPARINI, G. Weed control in onions on light soils. (It) *Inform. Fitopatol.* 18(3):27-29. Feb.15,1968. 464.8 In3  
Chemical.
- 77875 REDEMANN, C. T., and others. The fate of 4-amino-3,5,6-trichloropicolinic acid in spring wheat and soil. *Bull. Environ. Contamination Toxicol.* 3(2):80-96. Ref. Mar./Apr.1968. RA1270.P35A1  
R. W. Meikel, P. Hamilton, V. S. Banks, and C. R. Youngson, joint authors.
- 77876 RIEPMA, P. Weed control in rubber cultivation. A review. *PANS (Pest Articles News Sum.) Sect. C, Weed Contr.* 14(1):43-60. Ref. Mar.1968. 79.9 C792  
Chemical control.
- 77877 RIES, S. K., SCHWEIZER, C. J., and CHMIEL, H. The increase in protein content and yield of simazine-treated crops in Michigan and Costa Rica. *BioScience* 18(3):205-208. Ref. Mar.1968. 500 Am322A
- 77878 RODGERS, E. G. Leaching of seven triazine. *Weed Sci.* 16(2):117-120. Ref. Apr.1968. 79.8 W41  
Includes injuries to test plants, oats and cucumbers.
- 77879 ROHRBACH, U. Chemical weed control in ditches. (Ge) *Lohnunternehmen* 23(4):108-110. Apr.15,1968. 58.8 D81  
Drainage.
- 77880 ROM, R. C., and TALBERT, R. E. Field evaluation of herbicides in fruit crops, 1967. *Ark. Agr. Exp. Sta. Mimeogr. Ser.* 167,16 p. Feb. 1968. 100 Ar42M
- 77881 SCHMIDT, H., and MEYER, J. Tendencies in the development of chemical weed control in Beta beets. (Ge) *Gesunde Pflanzen* 20(3):58-60,62-64. Mar.1968. 464.8 G33  
Sugar and forage beets in Germany.
- 77882 SEYMOUR, W. Weeding the forest with chemicals. *Country Life* 143(3698):148. Jan.18, 1968. 80 C83
- 77883 SHEETS, T. J., HARRIS, C. I., and SMITH, J. W. Persistence of dichlobenil and SD-7961 in soil. *Weed Sci.* 16(2):245-249. Apr.1968. 79.8 W41  
Residual toxicity tested on beans grown in various soil types.
- 77884 SHIN, P. V. Preparations 2,4-D and MCPA applied to grain. (Rus) *Zashch. Rast.* 4:36-37. 1968. 421 Z1
- 77885 SKARD, O. Can the use of demetryne and prometryne be extended? (No) *Gartneryrket* 58 (14):302. Apr.5,1968. 80 G1938  
Control of vegetable weeds.
- 77886 STERRETT, J. P. Response of oak [*Quercus*] and red maple [*Acer rubrum*] to herbicides applied with an injector. *Weed Sci.* 16(2):159-160. Apr.1968. 79.8 W41  
Timber stand improvement tests with 2,4-D, 2,4,5-T, and picloram.
- 77887 STERRETT, J. P., CHAPPELL, W. E., and SHEAR, G. M. Temperature and annual growth cycle effects on root suckering in black locust [*Robinia pseudoacacia*]. *Weed Sci.* 16(2):250-251. Ref. Apr.1968. 79.8 W41  
Testing for best methods of chemical control.
- 77888 SWANSON, C. R., and SWANSON, H. R. Metabolic fate of monuron and diuron in isolated leaf discs. *Weed Sci.* 16(2):137-143. Apr.1968. 79.8 W41
- 77889 TEITEBERG, A. The influence of herbicide treatment on antibiotic effects of soil microorganism. (Ge) *Z. Pflanzenkr. (Pflanzenpathol.) Pflanzenschutz* 75(2):72-86. Ref. Feb. 1968. 464.8 Z3  
English summary.  
On plant pathogens in orchards.
- 77890 TORELL, P. J. Dowpon—an aid to reseeding medusahead [*Elymus caput-medusae*] infested rangeland. *Down Earth* 23(1):6-8. Summer 1967. 381 D75
- 77891 TORELL, P. J., and HIGGINS, R. E. Weed control in alfalfa seed crops. *Idaho Univ. Ext. Idaho. Curr. Inform. Ser.* 68,4 p. Mar.1968. 275.29 Id13dc  
Published jointly with Idaho Agricultural Experiment Station.  
Chemical.

- 77892 TORNGREN, T. S. A summary of crop weed control practices in the Sacramento Valley. Calif. Weed Conf. Proc., 20th Annu. Conf. Proc.:52-55. 1968. 79.9 C122  
Chemical control.
- 77893 UBRIZSY, G. The importance of chemical weed control in Hungarian vineyards. (Hu) Budapest. Növényvedelmi Kutató Intézet. Evkon. 10:35-56. Ref. 1965/1967. 423.92 B85  
English summary.
- 77894 UPCHURCH, R. P., and SELMAN, L. Compatibility of chemical and mechanical weed control methods. Weed Sci. 16(2):121-130. Ref. Apr. 1968. 79.8 W41
- 77895 VAN GOOR, C. P. Forest weed control in the Netherlands. (Ge) Int. Union Forest. Res. Organ. Papes, 14th Congr., v.4:238-241. 1967. 99.9 I82  
Chemical.
- 77896 WATERS, W. E., and BURGIS, D. S. Herbicidal persistence in soil and its effect on purple nutsedge [*Cyperus rotundus*]. Weed Sci. 16(2):149-151. Ref. Apr.1968. 79.8 W41
- 77897 WILL, H. What should be observed in chemical weed control in vegetables? (Ge) Indus. Obst-Gemüseverwertung 53(5):145-146. Mar.7,1968. 389.8 K832
- 77898 YANCHOVICHIN, N. Control of tobacco seedling weeds with vapam and dymid. (Bu) Rast. Zashch. 2:32-34. 1968. 423.92 So2
- 77899 ZABRODSKII, A. E. Application of herbicides to hemp. (Rus) Len Konoplya 4:27-29. 1968. 73.8 L542
- 77900 ZAVARZIN, V. I., OGLENKO, G. V., and KOTKOV, YU. S. Simazine--effective herbicide. (Rus) Vinodel. Vinograd. SSSR 2:29-32. 1968. 95.8 V77  
Applied to grapes.
- Weed Control - Cultural, Biological
- 77901 BALOCH, G. M. Possibilities for biological control of some species of *Cuscuta* (Convolvulaceae). PANS (Pest Articles News Sum.) Sect. C, Weed Contr. 14(1):27-33. Mar.1968. 79.9 C792
- 77902 BUCHHOLTZ, K. P., and DOERSCH, R. E. Cultivation and herbicides for weed control in corn. Weed Sci. 16(2):232-234. Ref. Apr.1968. 79.8 W41
- 77903 BURNSIDE, O. C., FENSTER, C. R., and DOMINGO, C. E. Weed control in a winter wheat-fallow rotation. Weed Sci. 16(2):255-258. Ref. Apr.1968. 79.8 W41  
Combination of tillage and herbicides.
- 77904 FRENCH, D. W., MEYER, M. P., and ANDERSON, R. L. Control of dwarf mistletoe [*Arceuthobium pusillum*] in black spruce [*Picea mariana*]. J. Forest. 66(4):359-360. Apr.1968. 99.8 F768  
By burning.
- 77905 HAWKES, R. B. The cinnabar moth, *Tyria jacobaeae*, for control of tansy ragwort [*Senecio jacobaea*]. J. Econ. Entomol. 61(2):499-501. Apr.15,1968. 421 J822
- 77906 KAL'MYKOV, P. Cutting weeds on irrigation canals. (Rus) Tekh. Sel'skom Khoz. 4:30-31. 1968. 58.3 M11
- 77907 PAVLOVA, M. Where the weeds come from. (Rus) Sadovodstvo 3:24-25. Mar.1968. 80 Sa13  
Chiefly on cultural control of berry weeds.
- 77908 SICHKARENKO, V. L. Agricultural practices and chemicals on the rice fields. (Rus) Zashch. Rast. 2:21-22. 1968. 421 Z1  
Weed control.
- 77909 SULIMA, A. G. Agricultural practices in controlling Russian *Centaurea*. (Rus) Zashch. Rast. 2:49-50. 1968. 421 Z1  
*Centaurea repens* on grain fields.



## SOILS AND FERTILIZERS

## SOIL SCIENCE

- 77910 BOL'SHAKOV, A. F., and PAK, K. P. Development of Soviet reclamative science in the field of Solonetz soils. (Rus) *Pochvovedenie* 12:23-36. Ref. Dec.1967. 57.8 P34  
English summary.  
Review of research literature.
- 77911 CHIZHIKOV, P. N. On the terms "soil forming rock" and "subsoil." (Rus) *Pochvovedenie* 3:120-124. Ref. Mar.1968. 57.8 P34  
English summary.
- 77912 EGOROV, V. V., and SUDARIKOVA, I. N. The V. V. Dokuchaev Soil Science Institute [Pochvennyi Institut imeni V. V. Dokuchaeva]. (Rus) *Vestnik Sel'skokhoz. Nauk [Moscow]* 11:92-95. Nov.1967. 20 V633  
At the USSR Academy of Sciences [Akademiya Nauk SSSR].
- 77913 EVAL'D, E. Development and international significance of the Soviet soil science. (Rus) *Pochvovedenie* 2:3-12. Feb.1968. 57.8 P34
- 77914 HINISH, W. W., ADAMS, R. S., and THOMAS, R. J. New Soil and Resource Testing Lab [ratory] provides unique facilities. *Sci. Farmer [Penn. Sta.]* 15(2):8-9. Winter 1968. 100 P381S
- 77915 KOVDA, V. A. Fifty years of Soviet soil science. (Rus) *Akad. Nauk SSSR. Izv. Ser. Biol.* 1:5-23. Jan./Feb.1968. 511 Sa2B  
English summary.
- 77916 PONDEL, H. Polish bibliographical list of soil science, agricultural chemistry, tillage and water economy, year 1965. (Pol) *Rocz. Gleboznawcze* 18(1):267-326. 1967. 56.8 R592
- 77917 SKRYNNIKOVA, I. N. Investigation and utilization of peat soils. (Rus) *Pochvovedenie* 12:12-23. Ref. Dec.1967. 57.8 P34  
Review of literature on peat bogs and soil research

## Soil Physics

- 77918 ALEXANDER, L. T. The Soil Survey Laboratories. *Soil Conserv.* 33(10):219-221. May 1968. 1.6 So3S  
Measuring permanent soil properties.
- 77919 BERG, G. E. VANDEN. Characterization of soil properties for tillage tool performance. Auburn, Alabama, Agricultural Research Service, 1965. 9 p. PREP 1425
- 77920 BIRECKI, M., TRZECKI, S., and ZIMNA, J. Influence of the compactness of the arable layer on the porosity and pF values of two soil types. (Pol) *Rocz. Gleboznawcze* 18(1):133-142. Ref. 1967. 56.8 R592  
English summary.
- 77921 BLACK, A. L., and GREB, B. W. Soil reflectance, temperature, and fallow water storage on exposed subsoils of a Brown soil. *Soil Sci. Soc. Amer. Proc.* 32(1):105-109. Ref. Jan./Feb.1968. 56.9 So3
- 77922 CARY, J. W. An instrument for in situ measurements of soil moisture flow and suction. *Soil Sci. Soc. Amer. Proc.* 32(1):3-5. Jan./Feb. 1968. 56.9 So3
- 77923 CHANG, C. W., and ANDERSON, J. U. Flocculation of clays and soils by organic compounds. *Soil Sci. Soc. Amer. Proc.* 32(1):23-27. Ref. Jan./Feb.1968. 56.9 So3
- 77924 CHANG, R. K. Component potentials and hysteresis in water retention by compacted clay soil aggregates. *Soil Sci.* 105(3):172-176. Mar. 1968. 56.8 So3
- 77925 CHANG, R. K., and WARKENTIN, B. P. Volume change of compacted clay soil aggregates. *Soil Sci.* 105(2):106-111. Feb.1968. 56.8 So3
- 77926 CUNNINGHAM, R. L., and MATELSKI, R. P. Bulk density measurements on certain soils high in coarse fragments. *Soil Sci. Soc. Amer. Proc.* 32(1):109-111. Jan./Feb.1968. 56.9 So3

- 77927 CZUBA, R., and others. Method for sampling the arable layer in studies on soil fertility. (Pol) *Rocz. Gleboznawcze* 18(1):217-224. 1967. 56.8 R592  
I. Ignatowicz, T. Klein, Z. Wlodarczyk, and B. Wojcik, joint authors.  
English summary.
- 77928 DIXON, R. M., and PETERSON, A. E. A vacuum system for accumulating runoff from infiltrometers. *Soil Sci. Soc. Amer. Proc.* 32(1):123-125. Jan./Feb.1968. 56.9 So3
- 77929 DUMBLETON, M. J., and WEST, G. Soil suction by the rapid method: an apparatus with extended range. *J. Soil Sci.* 19(1):40-46. Mar. 1968. 56.8 J823
- 77930 EVANS, D. D., and BUOL, S. W. Micromorphological study of soil crusts. *Soil Sci. Soc. Amer. Proc.* 32(1):19-22. Jan./Feb.1968. 56.9 So3
- 77931 FINCH, P., HAYES, M. H. B., and STACEY, M. Studies on soil polysaccharides and on their interaction with clay preparations. *Int. Soc. Soil Sci. Trans.* 1966:19-32. Ref. 1967. 56.9 In8  
In relation to the role of soil polysaccharides in soil structure stabilization.
- 77932 FINK, D. H., RICH, C. I., and THOMAS, G. W. Determination of internal surface area, external water, and amount of montmorillonite in clay-water systems. *Soil Sci.* 105(2):71-77. Ref. Feb.1968. 56.8 So3
- 77933 GAVANDE, S. A. Water retention characteristics of some Costa Rican soils. *Turrialba* 18(1):34-38. Ref. Jan./Mar.1968. 8 T86
- 77934 GORBUNOV, N. I., and ZAITSEVA, E. D. On errors committed in determination of soil adsorptive capacity. (Rus) *Pochvovedenie* 3:117-120. Mar.1968. 57.8 P34  
English summary.
- 77935 GRAS, R. Effects of rigid porous materials on the circulation of non saturating water in soils. (Fr) *Acad. Sci. C. R., Ser. D*, 266(10):1001-1003. Mar.4,1968. 505 P21
- 77936 GRINENKO, N. V. Effect of prolonged application of fertilizers on physical properties of the slightly leached Chernozem soil. (Rus) *Sakh. Svekla* 3:39. Mar.1968. 66.8 Su393
- 77937 HADAS, A. A comparison between two methods of determining the thermal diffusivity of a moist soil. *Soil Sci. Soc. Amer. Proc.* 32(1):28-30. Jan./Feb.1968. 56.9 So3
- 77938 HEINTZE, R. Styromull and hygromull: Foam in the soil. (Ge) *Ubersicht* 19(4):272-274. Apr.13,1968. 18 Ub3  
Conditioners.
- 77939 JORDAN, C. F. A simple, tension-free lysimeter. *Soil Sci.* 105(2):81-86. Feb.1968. 56.8 So3
- 77940 KAPLYUK, L. F. Physical properties and moisture of the Crimean Yaila soils. (Rus) *Pochvovedenie* 2:72-82. Ref. Feb.1968. 57.8 P34  
English summary.
- 77941 LEVNO, A., and ROTHACHER, J. Increases in maximum stream temperatures after logging in old-growth Douglas-fir watersheds. U. S. Forest Serv. Res. Note PNW-65,12 p., map. Oct.1967. A99.9 F7625U
- 77942 MCINTYRE, D. S., and LOVEDAY, J. Problems of determination of soil density and moisture properties from natural clods. *Soil Sci.* 105(4):232-236. Ref. Apr.1968. 56.8 So3
- 77943 MOKADY, R. S., and LOW, P. F. Simultaneous transport of water and salt through clays. I. Transport mechanisms. *Soil Sci.* 105(2):112-131. Ref. Feb.1968. 56.8 So3
- 77944 MOLINA, J. S. Colloid production in the aerobic decomposition of cellulose and their action upon the water stability of soil aggregates. *Soil Biol. Int. New Bull.* 7:38-41. Ref. July 1967. S590.B5

- 77945 MUSIEROWICZ, A., SWIECICKI, C., and KROL, H. Preliminary research on moisture dynamics and temperature determination in some soils under different culture in Warsaw environs. (Pol) *Rocz. Gleboznawcze* 17:131-143. Ref. 1967. 56.8 R592  
English summary.
- 77946 MUSIEROWICZ, A., SWIECICKI, C., and KROL, H. Tension curves in light pseudopodzolic soils from silt and boulder loam. (Pol) *Rocz. Gleboznawcze* 17:146-155. 1967. 56.8 R592  
English summary.
- 77947 NERPIN, S. V. Agrophysical Institute [Agrofizicheskii Institut]. (Rus) *Vestnik Sel'skikh. Nauk.* [Moscow] 11:109-113. Nov.1967. 20 V633  
At the All-Union V. I. Lenin Agricultural Academy [Vsesoyuznaya Akademiya Sel'skikh. khozyaistvennykh Nauk imeni V. I. Lenina].
- 77948 NEWBOULD, P., MERCER, E. R., and LAY, P. M. Estimation of changes in the water status of soils under field conditions from the attenuation of  $\beta$ -radiation by water held in absorbent nylon pads. *Exp. Agr.* 4(2):167-177. Apr.1968. 10 Ex72
- 77949 PEREVERSEV, V. N., and GOLOVKO, E. A. Effect of cultivation on physico-chemical properties and biological activity of peat-boggy soils. (Rus) *Pochvovedenie* 3:60-69. Ref. Mar.1968. 57.8 P34  
English summary.
- 77950 POWELL, G. M., and BEASLEY, R. P. Effect of erosion on water infiltration rates. *Mo. Agr. Exp. Sta. Res. Bull.* 922,48 p. Ref. Apr.1967. 100 M693
- 77951 PRIHAR, S. S., and SANDHU, B. S. A rapid method of soil moisture determination. *Soil Sci.* 105(3):142-144. Mar.1968. 56.8 So3
- 77952 RESULOVIC, H., and others. Characteristics of soil moisture at the base and periphery of terraced apple orchards. (Se) Sarajevo, Univ. Poljoprivredno-Sum. Fak. Rad. 16(18):197-213. Ref. 1967. 21.5 Sa7  
P. Lucic, D. Bisic-Hajro, and D. Jarebica, joint authors.  
English summary.
- 77953 ROBERTS, G. T., and TILL, M. R. What is Pleistocene clay? *S. Australia J. Agr.* 71(7):236-239. Feb.1968. 23 So84  
In relation to movement of irrigation water.
- 77954 ROGERSON, T. L., and URSIC, S. J. New neutron probe system speeds logging of soil water profiles. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.1:416-419. 1967. 99.9 In82
- 77955 ROSE, D. A. Water movement in dry soils. I. Physical factors affecting sorption of water by dry soil. *J. Soil Sci.* 19(1):81-93. Mar.1968. 56.8 J823
- 77956 SARKISYAN, S. S., and SHOOR-BAGDASARYAN, E. F. Interrelation of vegetation and soils of differently overgrazed and eroded mountain steppe pastures. (Rus) *Pochvovedenie* 12:37-44. Ref. Dec.1967. 57.8 P34  
English summary.  
In relation to physical and chemical properties.
- 77957 SARTZ, R. S. Annual soil temperature wave at four depths in southwestern Wisconsin. *U. S. N. Cent. Forest Exp. Sta. U. S. Forest Serv. Res. Note NC-32*, 2 p. Aug.1967. aSD11. A33
- 77958 SHALHEVET, J., and YARON, B. Measurement of density, moisture content and anion migration in soil columns using a gamma ray technique. *Rehovot. Volcani Inst. Agr. Res. Pam.* 103,21 p. Ref. 1966. 22.5 Is73
- 77959 SMITH, G. W. A nomogram for estimating soil moisture status. *Trop. Agr.* 45(2):91-98. Ref. Apr.1968. T754
- 77960 SWARTZENDRUBER, D. The applicability of Darcy's law. *Soil Sci. Soc. Amer. Proc.* 32(1):11-18. Ref. Jan./Feb.1968. 56.9 So3
- 77961 THOMPSON, J. R. Effect of grazing on infiltration in a western watershed. *J. Soil Water Conserv.* 23(2):43-46. Mar./Apr.1968. 56.8 J822  
Colorado.
- 77962 TOKAJ, J. Quantitative microscopic and chemical investigations on soil aggregates as structural elements. II. Physical properties, mineral composition and sorptive properties. (Pol) *Rocz. Gleboznawcze* 18(1):185-206. Ref. 1967. 56.8 R592  
English summary.
- 77963 TOKAJ, J. Quantitative microscopic and chemical investigations on soil aggregates as structural units. I. Composition of aggregates, morphologic properties, mechanical composition. (Pol) *Rocz. Gleboznawcze* 17:283-311. Ref. 1967. 56.8 R592  
English summary.  
Review of the literature.
- 77964 WATSON, K. K., and WHISLER, F. D. System dependence of the water content-pressure head relationship. *Soil Sci. Soc. Amer. Proc.* 32(1):121-123. Jan./Feb.1968. 56.9 So3
- 77965 WENDT, C. W., and RUNKLES, J. R. A study of potential evaporation suppressants under greenhouse conditions: Evaluation I. *Tex. Agr. Exp. Sta. Progr. Rep.* PR-2510, 10 p. Feb.9,1968. 100 T31P  
To conserve soil moisture.
- 77966 WHISLER, F. D., KLUTE, A., and PETERS, D. B. Soil water diffusivity from horizontal infiltration. *Soil Sci. Soc. Amer. Proc.* 32(1):6-11. Jan./Feb.1968. 56.9 So3
- 77967 WOCLAWEK, T. Communication regarding a modified instrumentation for determination of DTA energetic curves in the colloidal soil fraction. (Pol) *Rocz. Gleboznawcze* 17:313-317. Ref. 1967. 56.8 R592  
English summary.
- 77968 YADAV, J. S. P. Physico-chemical characteristics of some typical soils of Indian forests. *Indian Forest.* 94(1):85-98. Ref. Jan.1968. 99.8 In2
- 77969 ZALIVADNYI, B. S. Use of a dynamic temperature moisture measuring apparatus in soil science. (Rus) *Pochvovedenie* 2:149-158. Feb. 1968. 57.8 P34  
English summary.

#### Soil Chemistry and Mineralogy

- 77970 ADERIKHIN, P. G., and others. Mineralogical composition of some sandy and sandy loam soils of the Central Chernozem Region. (Rus) *Pochvovedenie* 2:114-123. Ref. Feb.1968. 57.8 P34  
English summary.
- 77971 ALEXANDROVA, L. N. Possible ways of fulvic acid formation in soil. *Int. Soc. Soil Sci. Trans.* 1966:73-77. 1967. 56.9 In8
- 77972 BANDYOPADHYA, A. K., and ADHIKARI, M. Trace elements relationships in rice soils. 1. Alluvial soils of West Bengal. *Soil Sci.* 105(4):244-247. Ref. Apr.1968. 56.8 So3
- 77973 BARBER, S. A., HALSTEAD, E. H., and FOLLETT, R. F. Significant mechanisms controlling the movement of manganese and molybdenum to plant roots growing in soil. *Int. Soc. Soil Sci. Trans.* 1966:299-304. 1967. 56.9 In8
- 77974 BARROWS, H. L., TAYLOR, A. W., and SIMPSON, E. C. Interaction of limestone particle size and phosphorus on the control of soil acidity. *Soil Sci. Soc. Amer. Proc.* 32(1):64-68. Jan./Feb.1968. 56.9 So3
- 77975 BEAL, R. H., and CARTER, F. L. Initial soil penetration by insecticide emulsions used for subterranean termite control. *J. Econ. Entomol.* 61(2):380-383. Apr.15,1968. 421 J822
- 77976 BENOIT, R. E., STARKEY, R. L., and BASARABA, J. Effect of purified plant tannin on decomposition of some organic compounds and plant materials. *Soil Sci.* 105(3):153-158. Ref. Mar. 1968. 56.8 So3



- 77977 BEROZA, M., GETZ, M. E., and COLLIER, C. W. Automatic spotting of pesticide extracts on thin-layer plates. *Bull. Environ. Contamination Toxicol.* 3(1):18-25. Jan./Feb. 1968. RA1270.P35A1  
Chlorinated hydrocarbon insecticides in soils.
- 77978 BLANCHET, R. Influence of the physical-chemical properties of soils on the availability of mineral ions to plants (chiefly cations). (Fr) *Int. Soc. Soil Sci. Trans.* 1966:195-206. Ref. 1967. 56.9 In8
- 77979 BOBRITSKAYA, M. A., and MOSKALENKO, N. N. The loss of plant nutrients with filtering water in leached soils. (Rus) *Vestnik Sel'skokhoz. Nauk [Moscow]* 12:72-81. Ref. 1967. 20 V633  
English summary.  
Chiefly nitrogen.
- 77980 BONNEAU, M. Some data on organic nitrogen mineralization of some typical stations of Vosges and Central Massif. (Fr) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.2:126-144. Ref. 1967. 99.9 In82
- 77981 BONNER, F. T., and RALSTON, C. W. Oxidation-reduction potential of saturated forest soils. *Soil Sci. Soc. Amer. Proc.* 32(1):111-112. Ref. Jan./Feb. 1968. 56.9 So3
- 77982 BORATYNSKI, K., and others. Contents of plant-available Cu, Mn, Mo, Zn forms in some silt soils. (Pol) *Rocz. Gleboznawcze* 18(1):57-70. Ref. 1967. 56.8 R592  
E. Roszyk, S. Roszykowa, M. Tyszkiewicz, and M. Zietcka, joint authors.  
English summary.
- 77983 BRADFORD, G. R., and others. Total content of nine mineral elements in fifty selected benchmark soil profiles of California. *Hilgardia* 38(14):541-556. Ref. Oct. 1967. 100 C12H  
R. J. Arkley, P. F. Pratt, and F. L. Bair, joint authors.
- 77984 CHAUDHRY, G. H., and WARKENTIN, B. P. Studies on exchange of sodium from soils by leaching with calcium sulfate. *Soil Sci.* 105(3):190-197. Ref. Mar. 1968. 56.8 So3
- 77985 COTTENIE, A., and GABRIELS, R. Trace element fractions and their availability. *Int. Soc. Soil Sci. Trans.* 1966:247-253. Ref. 1967. 56.9 In8
- 77986 DESHPANDE, T. L., GREENLAND, D. J., and QUIRK, J. P. Changes in soil properties associated with the removal of iron and aluminium oxides. *J. Soil Sci.* 19(1):108-122. Ref. Mar. 1968. 56.8 J823
- 77987 DIXON, J. B., and NASH, V. E. Chemical, mineralogical and engineering properties of Alabama and Mississippi Black Belt soils. *S. Coop. Ser.* 130, 69 p. Feb. 1968. 100 G29So  
Agricultural Experiment Stations of Alabama and Mississippi; and U. S. Department of Agriculture, cooperating.
- 77988 EATON, F. M., and others. Significance of silica in the loss of magnesium from irrigation waters. *Soil Sci.* 105(4):260-280. Ref. Apr. 1968. 56.8 So3  
G. W. McLean, G. S. Bredell, and H. E. Doner, joint authors.  
In relation to chemical changes in soils.
- 77989 EDWARDS, A. P. Clay-humus complexes in soils. *Int. Soc. Soil Sci. Trans.* 1966:33-39. 1967. 56.9 In8
- 77990 EVERS, F. H. Marking of nutritional condition of forest stands by carbon related nutrient element values (C/N, C/P, C/K, and C/Ca). (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.4:171-187. Ref. 1967. 99.9 In82
- 77991 FERGUSON, J. K. The effect of sodium applied as a plant nutrient on the chemical complex, physical structure, and biological content of soil. *Nitrate Corp. Chile. Chilean Nitrate Agr. Serv. Inform.* 99, 7 p. Jan. 1968. 57.9 N63
- 77992 GAJIC, M. R. Relation of humus volume and soil reactions of *Carpinus orientalis* Mill. in some forest types of Serbia. (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.2:194-199. 1967. 99.9 In82
- 77993 GASCHO, G. J., and STEVENSON, F. J. An improved method for extracting organic matter from soil. *Soil Sci. Soc. Amer. Proc.* 32(1):117-119. Jan./Feb. 1968. 56.9 So3
- 77994 GEERING, H. R., and others. Solubility and redox criteria for the possible forms of selenium in soils. *Soil Sci. Soc. Amer. Proc.* 32(1):35-40. Ref. Jan./Feb. 1968. 56.9 So3  
E. E. Cary, L. H. P. Jones, and W. H. Allaway, joint authors.
- 77995 GRADUSOV, B. P., and URUSHADZE, T. F. Clay minerals in the Brown Forest soils of Georgia. (Rus) *Pochvovedenie* 2:124-132. Ref. Feb. 1968. 57.8 P34  
English summary.
- 77996 GREENLAND, D. J., OADES, J. M., and SHERWIN, T. W. Electron-microscope observations of iron oxides in some Red soils. *J. Soil Sci.* 19(1):123-126. Mar. 1968. 56.8 J823
- 77997 GUPTA, U. C. Relationship of total and hot-water soluble boron, and fixation of added boron, to properties of Podzol soils. *Soil Sci. Soc. Amer. Proc.* 32(1):45-48. Ref. Jan./Feb. 1968. 56.9 So3
- 77998 GUTENMANN, W. H., and LISK, D. J. Estimation of residues of uracil herbicides by gas chromatography after evaporative co-distillation. *Ass. Offic. Anal. Chem. J.* 51(3):688-690. May 1968. 381 A87  
Bromacil in soil and terbacil in alfalfa.
- 77999 HANOTIAUX, G. Study of the dynamics of phosphorus in soils by the fractionation method. (Fr) *Int. Soc. Soil Sci. Trans.* 1966:161-174. Ref. 1967. 56.9 In8
- 78000 HANSEN, E. H., and SCHNITZER, M. Oxidative degradation of Danish illuvial organic matter. *Int. Soc. Soil Sci. Trans.* 1966:87-92. 1967. 56.9 In8
- 78001 HARGETAI, L. Effect of changes in organo-mineral complexes on the quality of soil organic matter and organic nitrogen. *Int. Soc. Soil Sci. Trans.* 1966:65-71. Ref. 1967. 56.9 In8
- 78002 HIBNER, J., and KUCHARSKI, M. Ground-water salinity in Ciechocinek lowland. *Water Econ. [Selec. Articles]* 20(10):455-468, map. 1966. (TT 63-11363) HD1697.P7S4  
Translation from *Gospodarka Wodna* 20(10):434-439. 1960.  
Issued by CFSTI.
- 78003 HOLLAND, D. A. Variation in the chemical composition of orchard soils. *J. Sci. Food Agr.* 19(3):141-146. Ref. Mar. 1968. 382 So12  
Great Britain.
- 78004 HOSSNER, R. L. A rapid, qualitative method for determining movement of applied manganese in soil. *Soil Sci. Soc. Amer. Proc.* 32(1):125-126. Jan./Feb. 1968. 56.9 So3
- 78005 IGNATOWICZ, I. Tentative application of potassium chloride concentrations below 1.0n KCl in determination of soil pH. (Pol) *Rocz. Gleboznawcze* 18(1):225-230. 1967. 56.8 R592  
English summary.
- 78006 JACQUIN, F., and MANGENOT, F. Formation of humic type compounds starting with foliar extracts. (Fr) *Int. Soc. Soil Sci. Trans.* 1966:53-57. 1967. 56.9 In8
- 78007 JELENIC, D., ALEKSIC, Z., and JAKOVljeVIC, M. Nonexchangeable ammonium nitrogen and the capacity of  $\text{NH}_4$  ion fixation in parapodzol, Brown Forest soils, and Chernozem. (Se) *Agrohemijska* 1/2:33-38. Ref. 1968. 385 Ag87  
English summary.
- 78008 JENKINSON, D. S. Chemical tests for potentially available nitrogen in soil. *J. Sci. Food Agr.* 19(3):160-168. Ref. Mar. 1968. 382 So12

- 78009 JONES, G. B., and BELLING, G. B. The movement of copper, molybdenum, and selenium in soils as indicated by radioactive isotopes. *Australian J. Agr. Res.* 18(5):733-740. Ref. Sept.1967. 23 Au783
- 78010 KHAN, S. U., and WEBSTER, G. R. An electrometric method for determining water-extractable sulfate in soils. *Soil Sci.* 105(2):87-91. Ref. Feb.1968. 56.8 So3
- 78011 KHAN, S. U., and WEBSTER, G. R. Sulphate distribution in solonchak soil with a water table. *J. Soil Sci.* 19(1):20-24. Mar.1968. 56.8 J823
- 78012 KING, H. G. C., and BLOOMFIELD, C. The effects of drying and ageing tree leaves on the ability of their aqueous extracts to dissolve ferric oxide. *J. Soil Sci.* 19(1):67-76. Ref. Mar. 1968. 56.8 J823
- 78013 KLESZCZYCKI, A., and ROSOCHACKA, J. Use of salicylhydroxyamic acid for determining ferric ions in soils. (Pol) *Rocz. Gleboznawcze* 18(1):3-17. Ref. 1967. 56.8 R592  
English summary.
- 78014 KLINE, J. R., and JORDAN, C. F. Tritium movement in soil of tropical rain forest. *Science* 160(3827):550-551. May 3,1968. 470 Sci2
- 78015 KOLOSKOV, I. A., PISAREV, V. V., and SINITSYNA, Z. L. Leaching of strontium-90 from some soils and grounds. (Rus) *Pochvovedenie* 2:87-93. Ref. Feb.1968. 57.8 P34  
English summary.
- 78016 KOTER, M., and GRZESIUK, W. Nephelometric determination of sulfates in some soil extracts. (Pol) *Rocz. Gleboznawcze* 18(1):25-32. Ref. 1967. 56.8 R592  
English summary.
- 78017 KRISHNASWAMY, V. S. Pinch of salt for chemical conservation of moisture. *Indian Forest.* 94(1):47-50. Jan.1968. 99.8 In2  
Sodium ions influencing colloidal and infiltration capacity of soil.
- 78018 KRUPSKII, N. K., ALEKSANDROVA, A. M., and LAPKINA, YU. I. Dependence of sodium ion activity in the soil on degree of its moistening. (Rus) *Pochvovedenie* 3:70-80. Ref. Mar.1968. 57.8 P34  
English summary.
- 78019 LAI, T. M., and MORTLAND, M. M. Cationic diffusion in clay minerals. I. Homogeneous and heterogeneous systems. *Soil Sci. Soc. Amer. Proc.* 32(1):56-61. Ref. Jan./Feb.1968. 56.9 So3
- 78020 LINDSAY, W. L., HODGSON, J. F., and NORVELL, W. A. The physico-chemical equilibrium of metal chelates in soils and their influence on the availability of micronutrient cations. *Int. Soc. Soil Sci. Trans.* 1966:305-316. 1967. 56.9 In8
- 78021 LITYNSKI, T., and DOMNICZ, A. The Sr-90-contamination of Polish soils. II. The Sr-90-contamination of soils of southern and central Poland in 1963. (Pol) *Rocz. Gleboznawcze* 18(1):43-55, map. 1967. 56.8 R592  
English summary.
- 78022 MALYSOWA, E., BORS, J., and SZERSZEN, L. Sr-90 distribution in the profiles of some arable soils of Lower Silesia. (Pol) *Rocz. Gleboznawcze* 18(1):33-41. 1967. 56.8 R592  
English summary.
- 78023 MCCONAGHY, S., STEWART, J. W. B., and MALEK, M. Soil-phosphate status as measured by isotopic-exchange and other techniques. *Int. Soc. Soil Sci. Trans.* 1966:151-160. Ref. 1967. 56.9 In8
- 78024 MCKERCHER, R. B., and ANDERSON, G. Content of inositol penta- and hexaphosphates in some Canadian soils. *J. Soil Sci.* 19(1):47-55. Ref. Mar.1968. 56.8 J823
- 78025 MCKERCHER, R. B., and ANDERSON, G. Observations on the accuracy of an ignition and an extraction method for measuring organic phosphate in some Canadian soils. *Soil Sci.* 105(3):198-200. Mar.1968. 56.8 So3
- 78026 MCLAREN, A. D., and SEAMAN, G. V. F. Concerning the surface pH of clays. *Soil Sci. Soc. Amer. Proc.* 32(1):127. Jan./Feb.1968. 56.9 So3
- 78027 MCNEAL, B. L. Limitations of quantitative soil clay mineralogy. *Soil Sci. Soc. Amer. Proc.* 32(1):119-121. Jan./Feb.1968. 56.9 So3
- 78028 MEL'NIKOVA, M. K., FRID, A. S., and ZAMAMURAD, K. H. Radioisotopic investigation of the convection and diffusion movement of salts in layered soils with moisture gradient. (Rus) *Pochvovedenie* 3:40-50. Ref. Mar.1968. 57.8 P34  
English summary.
- 78029 MERCER, E. R., and GIBBS, A. R. The measurement of isotopically exchangeable potassium in soils. *Int. Soc. Soil Sci. Trans.* 1966:233-235. 1967. 56.9 In8
- 78030 MICHAJLUK, L., and BOROWICZ, A. Application of spectral analysis to determination of some microelements in soil. (Pol) *Rocz. Gleboznawcze* 18(1):19-24. 1967. 56.8 R592  
English summary.
- 78031 MILLER, R. J. Electron micrographs of acid-edge attack of kaolinite. *Soil Sci.* 105(3):166-171. Mar.1968. 56.8 So3
- 78032 MINKIN, M. B., and DUKHNINA, T. P. A contribution to the Gapon's and Nikolsky's equations of the ion-exchange isotherm. (Rus) *Pochvovedenie* 2:158-162. Ref. Feb.1968. 57.8 P34  
English summary.
- 78033 MOKADY, R. S., and ZASLAVSKY, D. Movement and fixation of phosphates applied to soil. *Int. Soc. Soil Sci. Trans.* 1966:329-334. 1967. 56.9 In8
- 78034 NEUNYLOV, B. A., and KHAVKINA, N. V. Studying decomposition rate of organic matter tagged with C<sup>14</sup>. (Rus) *Pochvovedenie* 2:103-108. Feb.1968. 57.8 P34  
English summary.  
In soil.
- 78035 NOWAK, J., and NIPANICZ, A. pH value and levels of available phosphorus and potassium in Zulawy soils (at the delta of Vistula). (Pol) *Rocz. Gleboznawcze* 18(1):247-265, map. Ref. 1967. 56.8 R592  
English summary.
- 78036 NYE, P. H. Changes in the concentration of nutrients in the soil near planar absorbing surfaces when simultaneous diffusion and mass flow occur. *Int. Soc. Soil Sci. Trans.* 1966:317-327. 1967. 56.9 In8  
Sulfur and nitrates.
- 78037 OBUKHOV, A. I. Content and distribution of minor elements in soils of the arid tropical zone in Burma. (Rus) *Pochvovedenie* 2:93-102. Ref. Feb.1968. 57.8 P34  
English summary.
- 78038 OKAZAKI, E., and CHAO, T. T. Boron adsorption and desorption by some Hawaiian soils. *Soil Sci.* 105(4):255-259. Ref. Apr.1968. 56.8 So3
- 78039 OSTER, J. D. Measuring soil salinity. *Calif. Citrogr.* 53(7):280-282. May 1968. 80 C125
- 78040 PERKOVIC, M. Level of phosphorus supply in parapodzol and its influence upon the efficacy of superphosphate. (Se) *Agrohemijska* 1/2:73-79. 1968. 385 Ag87  
English summary.
- 78041 PHILLIPS, R. E., PLACE, G. A., and BROWN, D. A. Self-diffusion of phosphorus in clays and soils: I. The effect of phosphorus rate. *Soil Sci. Soc. Amer. Proc.* 32(1):41-44. Ref. Jan./Feb.1968. 56.9 So3
- 78042 PIONKE, H. B., COREY, R. B., and SCHULTE, E. E. Contributions of soil factors to lime requirement and lime test requirement test. *Soil Sci. Soc. Amer. Proc.* 32(1):113-117. Ref. Jan./Feb.1968. 56.9 So3



- 78043 REES, C. P. The effects of three red and white pine stands of differing ages on the pH, litter depth, and nutrient content of the underlying soil. *Arboretum News* 16(3/4):1-4, map. <sup>4</sup> Summer/Autumn 1967. 80 Ar12
- 78044 REIMANN, B., and MICHÁLEK, K. Plant available magnesium in some soils of Wielkopolska. (Pol) *Rocz. Gleboznawcze* 18(1):71-76. Ref. 1967. 56.8 R592  
English summary.
- 78045 RENEAU, R. B., RAGLAND, J. L., and ATKINSON, W. O. Effects of ammonium nitrate and the growth of burley tobacco plants on soil pH. *Tobacco [New York]* 166(12):33-37. Mar. 22, 1968. 286.89 T552
- 78046 ROEDER, M., and BORNEMISZA, E. Some properties of soils of the Amazon region of the State of Maranhao, Brazil. (Sp) *Turrialba* 18(1):39-44. Ref. Jan./Mar. 1968. 8 T86  
English summary.  
Chemistry.
- 78047 ROTH, C. B., and others. Surface colloids on micaceous vermiculite. *Int. Soc. Soil Sci. Trans.* 1966:217-221. 1967. 56.9 In8  
M. L. Jackson, J. M. De Villiers, and V. V. Volk, joint authors.
- 78048 ROURKE, R. V., and BEEK, C. Soil-water, chemical and physical characteristics of eight soil series in Maine. *Maine. Agr. Exp. Sta. Tech. Bull.* T29,95 p. Ref. Feb. 1968. 100 M28B
- 78049 SADOWSKI, S., and DUNAT, S. Studies on the content of available magnesium in soils of the Kozielsk and Raciborz districts. (Pol) *Rocz. Gleboznawcze* 18(1):231-246. Ref. 1967. 56.8 R592  
English summary.
- 78050 SAHA, J. G. Comparison of several methods for extracting dieldrin-C<sub>14</sub> from soil. *Bull. Environ. Contamination Toxicol.* 3(1):26-36. Ref. Jan./Feb. 1968. RA1270.P35A1
- 78051 SAPEK, A., and SAPEK, B. Application of formaldoxime for determining manganese in soil extracts and in plant material. (Pol) *Rocz. Gleboznawcze* 18(1):207-216. Ref. 1967. 56.8 R592  
English summary.
- 78052 SCHARPENSEEL, H. W. Tracer investigations on synthesis and radiometric combination of soil organo-mineral complexes. *Int. Soc. Soil Sci. Trans.* 1966:41-52. Ref. 1967. 56.9 In8
- 78053 SENN, T. L., and others. Effect of humic acid derivatives on the conversion of ammonium nitrogen in sandy loam soil. *S. C. Agr. Exp. Sta. Dep. Hort. Res. Ser.* 96,31 p. Feb. 1967. SB21.S6  
G. E. Stembridge, E. T. Sims, and J. H. Crawford, joint authors.
- 78054 SHAH, R., and others. The forms of inorganic phosphorus extracted from soils by N sulphuric acid. *New Zeal. J. Agr. Res.* 11(1):184-192. Ref. Feb. 1968. 23 N4892  
J. K. Syers, J. D. H. Williams, and T. W. Walker, joint authors.
- 78055 SHELTON, J. E., and COLEMAN, N. T. Inorganic phosphorus fractions and their relationship to residual value of large applications of phosphorus on high phosphorus fixing soils. *Soil Sci. Soc. Amer. Proc.* 32(1):91-94. Ref. Jan./Feb. 1968. 56.9 So3
- 78056 SLAWINSKI, J. Application of chemiluminescence in the liquid phase to soil analysis. I. Effect of soil extracts on chemiluminescence of alkalimetric indicators. (Pol) *Rocz. Gleboznawcze* 17:191-200. 1967. 56.8 R592  
English summary.
- 78057 STEWART, B. A. Nitrogen-sulphur relationships in plant tissues, plant residues, and soil organic matter. *Int. Soc. Soil Sci. Trans.* 1966:131-138. Ref. 1967. 56.9 In8
- 78058 SWIECICKI, C. A field instrument for oxygen measurement in soil solutions. (Pol) *Rocz. Gleboznawcze* 17:157-167. 1967. 56.8 R592  
English summary.
- 78059 TANDON, H. L. S., CESCAS, M. P., and TYNER, E. H. An acid-free vanadate-molybdate reagent for the determination of total phosphorus in soils. *Soil Sci. Soc. Amer. Proc.* 32(1):48-51. Jan./Feb. 1968. 56.9 So3
- 78060 TAYLOR, R. M. The association of manganese and cobalt in soils—further observations. *J. Soil Sci.* 19(1):77-80. Mar. 1968. 56.8 J823
- 78061 TURNER, M. A., and ADAMS, R. S. The adsorption of atrazine and atratone by anion- and cation-exchange resins. *Soil Sci. Soc. Amer. Proc.* 32(1):62-63. Jan./Feb. 1968. 56.9 So3
- 78062 TURNER, R. C., and CLARK, J. S. Lime potential in acid clay and soil suspensions. *Int. Soc. Soil Sci. Trans.* 1966:207-215. Ref. 1967. 56.9 In8
- 78063 VAIDYANATHAN, L. V., DREW, M. C., and NYE, P. H. The measurement and mechanism of ion diffusion in soils. IV. The concentration dependence of diffusion coefficients of potassium in soils at a range of moisture levels and a method for the estimation of the differential diffusion coefficient at any concentration. *J. Soil Sci.* 19(1):94-107. Mar. 1968. 56.8 J823
- 78064 WIER, D. R., and BLACK, C. A. Mineralization of organic phosphorus in soils as affected by addition of inorganic phosphorus. *Soil Sci. Soc. Amer. Proc.* 32(1):51-55. Ref. Jan./Feb. 1968. 56.9 So3
- 78065 WILLIAMS, C. H. Nitrogen, sulphur and phosphorus, their interactions and availability. *Int. Soc. Soil Sci.* 1966:93-111. 1967. 56.9 In8  
Review of the Literature.
- 78066 WILLIAMS, I. H. Note on the effect of water on Soxhlet extraction of some organochlorine insecticides from soil and comparison of this method with three others. *Ass. Offic. Anal. Chem. J.* 51(3):715-717. May 1968. 381 As7
- 78067 WOCLAWEK, T. Characteristics of the chemistry and mineral composition of the colloidal fraction of some eroded and deluvial soils of the Masurian Lakeland. (Pol) *Rocz. Gleboznawcze* 17:201-227. Ref. 1967. 56.8 R592

### Soil Biology

- 78068 AHRENS, E. A contribution to the quantitative analysis of Cyanophyceae and Chlorophyceae in soils. (Ge) *Soil Biol. Int. New Bull.* 7:18-19. July 1967. S590.B5
- 78069 AHRENS, E. Preparation of an oat nutritive medium for the counting and breeding of actinomycetes. (Ge) *Soil Biol. Int. New Bull.* 7:20-22. July 1967. S590.B5  
From soils.
- 78070 ATTIWILL, P. M. The loss of elements from decomposing litter. *Ecology* 49(1):142-145. Ref. Winter 1968. 410 Ec7  
Studied with *Eucalyptus obliqua*.
- 78071 BAKSHI, B. K. Mycorrhiza—its role in man-made forests. *World Symp. Man-Made Forests Indus. Import [Position Paper]* 5b/2,6 p. Ref. 1967. SD391.W6 1967a
- 78072 BALICKA, N. Adaptation of Nikitin's soil dishes for studies on the influence of herbicides upon soil microflora. *Soil Biol. Int. New Bull.* 7:42. July 1967. S590.B5
- 78073 BELL, R. G. Separation of gases likely to be evolved from flooded soils by gas chromatography. *Soil Sci.* 105(2):78-80. Feb. 1968. 56.8 So3  
In relation to microbial activity in soil.
- 78074 BENOIT, R. E., and STARKEY, R. L. Enzyme inactivation as a factor in the inhibition of decomposition of organic matter by tannins. *Soil Sci.* 105(4):203-208. Ref. Apr. 1968. 56.8 So3
- 78075 BORTELS, H., and HENKEL, H. G. On pigment production by *Azotobacter chroococcum*. II. The chromogen. (Ge) *Arch. Mikrobiol.* 60(2):99-110. Ref. 1968. 442.8 Ar26  
English summary.  
Dark humus-like pigment.

- 78076 CASELEY, J. C., and BROADBENT, F. E. The effect of five fungicides on soil respiration and some nitrogen transformations in Yolo fine sandy loam. *Bull. Environ. Contamination Toxicol.* 3(1):58-64. Jan./Feb.1968. RA1270.P35A1  
Effects on soil fungi and bacteria.
- 78077 CHALVIGNAC, M. A. Presentation and preliminary study of a soil enzymatic system degrading tryptophan, in the absence of proliferating bacteria. (Fr) *Acad. Sci. C. R., Ser. D*, 266 (6):637-639. Ref. Feb.5,1968. 505 P21
- 78078 COMMONWEALTH BUR. OF SOILS. Bibliography on decomposition of forest litter (1967-1960). Commonwealth Bur. Soils [Annot. Bibliogr.] 1163,30 p. 1967. 241 C734A
- 78079 DAVIS, B. N. K. The soil macrofauna and organochlorine insecticide residues at twelve agricultural sites near Huntingdon. *Ann. Appl. Biol.* 61(1):29-45. Ref. Feb.1968. 442.8 An72  
Chiefly Carabidae and earthworms in Great Britain.
- 78080 DE LEY, J. DNA base composition and classification of some more free-living nitrogen-fixing bacteria. *Antonie van Leeuwenhoek J. Microbiol. Serol.* 43(1):66-70. Ref. 1968. 448.8 N28A
- 78081 DOMMERGUES, Y., and BECK, G. A quick method for the evaluation of the inhibitory or stimulating effect of a substance on a complex micropopulation. (Fr) *Soil Biol. Int. New Bull.* 7:26-29. July 1967. S590.B5  
English summary.  
In soils.
- 78082 DUBEY, H. D. A method for soil moisture control in nitrification studies. *Soil Biol. Int. News Bull.* 7:35. July 1967. S590.B5
- 78083 ELIADE, G., and others. Contribution to the preparation of a medium and optimum dispersion for analysis of total microflora of soil. (Fr) *Soil Biol. Int. New Bull.* 7:10-13. July 1967. S590.B5  
L. Ghinea, G. Stefanic, and V. Gheorghiadu, joint authors.
- 78084 FAILLY, C., and BLACHERE, H. Immunological identity of certain extracellular polysaccharides in different species of *Rhizobium*. I. (Fr) *Can. J. Microbiol.* 14(3):247-251. Ref. Mar.1968. 448.8 C162  
English summary.  
*Rhizobium meliloti*.
- 78085 FASSI, B. Research on mycorrhiza of agricultural soils of resin producing nurseries. (Fr) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.5:191-208. Ref. 1967. 99.9 In82  
*Pinus* spp. in Italy, chiefly.
- 78086 FELBECK, G. T. Normal alkanes in muck soil organic-matter hydrogenolysis products. *Int. Soc. Soil Sci. Trans.* 1966:11-17. 1967. 56.9 In8
- 78087 FREDERICK, L. R., and LAMBERT, I. R. Another look at inoculation. *Iowa Farm Sci.* 22 (10):3-6. Apr.1968. 275.28 Io94  
Legumes.
- 78088 GOBL, F. Mycorrhiza—types in the tree nurseries. (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.5:60-66. 1967. 99.9 In82
- 78089 GOODFELLOW, M. Properties and composition of the bacterial flora of a pine forest soil. *J. Soil Sci.* 19(1):154-167. Ref. Mar.1968. 56.8 J823
- 78090 HACSKAYLO, E., and VOZZO, J. A. Inoculation of *Pinus caribaea* with pure cultures of mycorrhizal fungi in Puerto Rico. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.5:139-148. 1967. 99.9 In82
- 78091 HOFSTETTER, A. M. A preliminary report on the algal flora of soils from selected areas of Shelby County. *Tenn. Acad. Sci. J.* 43(1):20-21. Ref. Jan.1968. 500 T25A
- 78092 JENKINSON, D. S. Studies on the decomposition of plant material in soil. III. *J. Soil Sci.* 19(1):25-39. Ref. Mar.1968. 56.8 J823
- 78093 KIEL, E. Soil microorganisms. (Da) *Haven* 68(9):120-121. Apr.1968. 80 H29
- 78094 KOBUS, J., and STRZELCOWA, A. Effect of clay minerals on the biological activity and fertility of sandy soils. III. (Pol) *Rocz. Gleboznawcze* 18(1):115-131. Ref. 1967. 56.8 R592  
English summary.
- 78095 MARKS, G. C., DITCHBURNE, N., and FOSTER, R. C. A technique for making quantitative estimates of mycorrhiza populations in *Pinus radiata* forests and its application in Victoria. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.5:67-83. 1967. 99.9 In82
- 78096 NUTMAN, P. S. Varietal differences in the nodulation of subterranean clover. *Australian J. Agr. Res.* 18(3):381-425. Ref. May 1967. 23 Au783
- 78097 PATRICK, W. H., PETERSON, F. J., and TURNER, F. T. Nitrification inhibitors for lowland rice. *Soil Sci.* 105(2):103-105. Feb. 1968. 56.8 So3  
2-Chloro-6-(trichloromethyl) pyridine and 2-amino-4-chloro-6-methyl pyrimidine.
- 78098 PERRY, J. J., and SCHELD, H. W. Oxidation of hydrocarbons by microorganisms isolated from soils. *Can. J. Microbiol.* 14(4):403-407. Ref. Apr.1968. 448.8 C162
- 78099 PERSSON, J. A biological chemical study of soil organic-matter fractionation. *Int. Soc. Soil Sci. Trans.* 1966:59-64. 1967. 56.9 In8
- 78100 PRASAD, J., and JHA, K. K. Protozoa in Bihar soils. *Cur. Sci.* 37(2):55-56. Jan.20,1968. 475 Sci23
- 78101 RAMIREZ MARTINEZ, J. R. Organic phosphorus mineralization and phosphatase activity in soils. *Folia Microbiol.* 13(2):161-174. 1968. 448.3 C332  
Review of literature.
- 78102 RIXON, A. J. Oxygen uptake and nitrification at various moisture levels by soils and mats from irrigated pastures. *J. Soil Sci.* 19(1):56-66. Ref. Mar.1968. 56.8 J823
- 78103 ROSS, D. J., and ROBERTS, H. S. A study of activities of enzymes hydrolysing sucrose and starch and of oxygen uptake in a sequence of soils under tussock grassland. *J. Soil Sci.* 19 (1):186-196. Ref. Mar.1968. 56.8 J823  
New Zealand.
- 78104 SCHEFFLER, J. G., and LOUW, H. A. The serological characteristics of the clover *Rhizobia* in the soils of the Stellenbosch district. *S. Afr. J. Agr. Sci.* 10(1):161-174. Ref. Mar.1967. 24 Su3
- 78105 SINGH-VERMA, S. B. On the problem of quantitative estimation of microorganisms in soil by Koch's plate method. *Soil Biol. Int. News Bull.* 7:14-17. July 1967. S590.B5
- 78106 SMIRNOVA, V. I., and TRET'YAKOV, N. N. Microbiological processes in different genetic horizons of reclaimed soddy-podzolic soils. (Rus) *Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina. Dokl.* 1:2-4. Jan.1968. 20 Ak1
- 78107 STENINA, T. A. Fermentative activity of some middle taiga soils. (Rus) *Pochvovedenie* 2: 109-113. Ref. Feb.1968. 57.8 P34  
English summary.
- 78108 TU, G. M., MILES, J. R. W., and HARRIS, C. R. Soil microbial degradation of aldrin. *Life Sci.* 7(6,pt.2):311-322. Ref. Mar.15,1968. 442.8 L62
- 78109 VUKHRER, E. G., and SHAMSHIEVA, K. T. Activity of some ferments in central Tien-Shan soils. (Rus) *Pochvovedenie* 3:94-100. Mar. 1968. 57.8 P34  
English summary.
- 78110 WEBER, J. B., and COBLE, H. D. Microbial decomposition of diquat adsorbed on montmorillonite and kaolinite clays. *J. Agr. Food Chem.* 16(3):475-478. Ref. May/June 1968. 381 J8223
- 78111 WILL, G. M., and STYLES, J. H. Decomposition of *Pinus radiata* litter on the forest floor. I-II. *New Zeal. J. Sci.* 10(4):1030-1060. Dec. 1967. 514 N482



- 78112 WITKAMP, M. Assessment of microbial immobilization of mineral elements. *Soil Biol. Int. News Bull.* 7:36-37. July 1967. S590.B5 In soils.
- 78113 ZHGENTI, M. P. Effect of systematic application of fertilizers in the vegetable crop rotation on microbiological activities in the Gray-Brown soils. (Rus) *Akad. Nauk Gruz. SSR. Soobshch.* 49(1):221-226. Jan. 1968. 511 Ak146

#### Soil-Plant-Animal Relationships

- 78114 ALLAWAY, W. H. Minerals in Montana soils and plants in relation to livestock nutrition. *Mont. Nutr. Conf. Proc.*, 19th Annu. Conf.:63-68. 1968. 389.79 M76
- 78115 SIMS, J. R. Nitrates: people, food, pollution, evolution, change. *Agr. Nitrogen News* 18(3): 44-46, 48-49. May/June 1968. 381 Ag82  
Chiefly on the problem of eutrophication.

#### Soil Genesis, Formation, Classification, and Mapping

- 78116 AHMAD, N., JONES, R. L., and BEAVERS, A. H. Genesis, mineralogy, and related properties of West Indian soils. I-II. *J. Soil Sci.* 19(1):1-19. Ref. Mar. 1968. 56.8 J823
- 78117 AUSTRALIA, COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION. DIV. OF SOILS. Atlas of Australian soils. Northern part of Northern Territory. Canberra, 1967. map. 56.28 AU72A
- 78118 BARNES, B. A., and MCSWEENEY, C. A. The soil survey comes inside. *Soil Conserv.* 33(10):225-227. May 1968. 1.6 So3S  
Analysis to complete survey.
- 78119 BARRATT, B. C. Micromorphological observations on the effects of land use differences on some New Zealand soils. *New Zeal. J. Agr. Res.* 11(1):101-129. Ref. Feb. 1968. 23 N4892
- 78120 BLEVINS, R. L., and WILDING, L. P. Hoytville soils: Their properties, distribution, management and use. *Ohio. Agr. Res. Develop. Center. Res. Bull.* 1006, 30 p., map. Ref. Mar. 1968. 100 Oh3S  
Indiana, Michigan and Ohio.
- 78121 BOUMA, J., PONS, L. J., and VAN SCHUYLENBORGH, J. On soil genesis in temperate humid climate. VI. The formation of a Glossudalf in loess (silt loam). *Neth. J. Agr. Sci.* 16(1):58-70. Ref. 1968. 12N3892
- 78122 CORBETT, J. R. The genesis of some basaltic soils in New South Wales. *J. Soil Sci.* 19(1):174-185. Ref. Mar. 1968. 56.8 J823
- 78123 DERR, L. E. [National] Cooperative Soil Survey fixes on year 2000 as target date for completing mapping. *Soil Conserv.* 33(10):231. May 1968. 1.6 So3S
- 78124 GLENTWORTH, R. Soils of Scotland. *Int. Soc. Soil Sci. Trans.* 1966:401-409, map. 1967. 56.9 In8
- 78125 GRAY, F., and STAHNKE, C. Characteristics and a new soil classification of key soils developed in the old Reddish Chestnut zone of Oklahoma. *Okla. Agr. Exp. Sta. Tech. Bull.* T-122, 48 p., map. Mar. 1968. 100 Ok4
- 78126 GROOT, A. J. DE. Mobility of trace elements in deltas. (A study of pedogenesis relevant to availability problems). *Int. Soc. Soil Sci. Trans.* 1966:257-279, map. 1967. 56.9 In8  
Netherlands.
- 78127 HARTIA, S., and SIRBU, N. Organization of statistical studies for agricultural production in pedoclimatic zones. (Rum) *Bucharest. Inst. Cent. Cercet. Agr. Sect. Econ. Agr. An.* 3:101-107. 1966, pub. 1967. HD2052.A115 1966  
English summary.
- 78128 HELGASON, B. Basaltic soils of South-West Iceland. II. *J. Soil Sci.* 19(1):127-134. Ref. Mar. 1968. 56.8 J823
- 78129 HENDRICKS, D. M., and WHITTIG, L. D. Ande-site weathering. I-II. *J. Soil Sci.* 19(1):135-153, map. Ref. Mar. 1968. 56.8 J823
- 78130 HOFSTEE, J. Some characteristics of young sediments in Lake Yssel. *Neth. J. Agr. Sci.* 15(4):304-313, map. Nov. 1967. 12 N3892
- 78131 JUANG, T. C., and UEHARA, G. Mica genesis in Hawaiian soils. *Soil Sci. Soc. Amer. Proc.* 32(1):31-35. Ref. Jan./Feb. 1968. 56.9 So3
- 78132 KALNINA, V. A. Improving methods of large-scale soil map compilation and correction by means of interpreting aerial surveys. (Rus) *Pochvovedenie* 3:3-9. Mar. 1968. 57.8 P34  
English summary.
- 78133 KARMANOV, I. I. Studying soil forming processes by means of spectrophotometric coefficients. (Rus) *Pochvovedenie* 2:13-29. Ref. Feb. 1968. 57.8 P34  
English summary.
- 78134 KARMELI, D., and RAVINA, I. A study of the Hamra soil association of Israel. *Soil Sci.* 105(4):209-215. Apr. 1968. 56.8 So3
- 78135 KERZUM, P. P. Irrigated soils in the lower part of the Kafirnigan River plain and the elements of their evolution. (Rus) Leningrad. *Univ. Vestnik. Ser. Biol.* 1:151-160. Ref. 1968. 442.9 L542V
- 78136 KIEL, E. What is soil? (Da) *Haven* 68(1):18-19, map. Jan. 1968. 80 H29
- 78137 KLEMENT, K. W. Role of the blue-green alga *Girvanella* in skeletal grain destruction and lime-mud formation in the Lower Ordovician of West Texas. *J. Sediment. Petrol.* 37(4): 1045-1051. Ref. Dec. 1967. 398.8 J82
- 78138 LOMOV, S. P. Tuareg soils of the Great Kabylia in Algeria. (Rus) *Pochvovedenie* 2:43-51. Ref. Feb. 1968. 57.8 P34  
English summary.
- 78139 MARCOUX, R. The cartography of agricultural soils of Quebec. (Fr) *Agriculture [Montreal]* 25(1):18-21. Mar. 1968. 7 Ag82
- 78140 OGLEZNEV, A. A. The nature of new-formations of fine-textured hydromorphous soddy-podzolic soils. (Rus) *Pochvovedenie* 3:27-39. Ref. Mar. 1968. 57.8 P34  
English summary.
- 78141 OKRUSZKO, H., CHURSKI, T., and KARPINSKA, J. Peats in the district of karst lakes of the Usciwierz group (Leczna-Wlodawa post-glacial lake region). *Water Econ. [Selec. Articles]* 20(2/12):183-188, map. 1966. (TT 63-11363) HD1697.P7S4  
Translation from *Gospodarka Wodna* 20(6): 285-286. 1960.  
Issued by CFSTI.
- 78142 OLSON, G. W., and MARSHALL, R. L. Using high-intensity soil surveys for big development projects: A Cornell experience. *Soil Sci.* 105(4):223-231, map. Ref. Apr. 1968. 56.8 So3
- 78143 OMODT, H. W., and others. The major soils of North Dakota. *N. Dak. Agr. Exp. Sta. Bull.* 472, 60 p., map. Jan. 1968. 100 N813  
G. A. Johnsgard, D. D. Patterson, and O. P. Olson, joint authors.  
Chiefly soil classification, genesis and profiles.
- 78144 ORVEDAL, A. C. Small scale maps for the big picture. *Soil Conserv.* 33(10):222-224, map. May 1968. 1.6 So3S
- 78145 PERSHINA, M. N. Ash composition of crops in the arid-steppe zone as related to soil formation and soil fertility. *Int. Soc. Soil Sci. Trans.* 1966:139-143. 1967. 56.9 In8
- 78146 PETTERSSON, M. Indications of provenance in some Anglesey drift soils. *J. Soil Sci.* 19(1): 168-173, map. Mar. 1968. 56.8 J823
- 78147 RAYMOND, R. Evaluation index of the farm soils of the Anse-Saint-Jean-Saguenay region. (Fr) *Agriculture [Montreal]* 25(1):24-27. Mar. 1968. 7 Ag82
- 78148 SHERMAN, G. D., and others. Genesis of the bauxitic Haliu soils. *Hawaii. Agr. Exp. Sta. Tech. Bull.* 56, 46 p. Ref. Jan. 1967. 100 H313T  
J. G. Cady, H. Ikawa, and N. E. Blomberg, joint authors.

- 78149 SHIELDS, R. R., and SOPPER, W. E. A shallow seismic refraction study of the soil mantle and bedrock configuration of an experimental water storage characteristics of soil mantle and its relationship to groundwater table. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.1:362-386. Ref. 1967. 99.9 In82
- 78150 SOKOLOV, A. A., and KURMANGALIEV, A. B. Reddish Chestnut soils of South Kazakhstan. (Rus) Pochvovedenie 3:19-26. Ref. Mar.1968. 57.8 P34  
English summary.  
Formation.
- 78151 TEDROW, J. C. F. Pedogenic gradients of the Polar regions. J. Soil Sci. 19(1):197-204. Ref. Mar.1968. 56.8 J823
- 78152 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Soil surveys for community planning and resource development. Hearing-Eighty-ninth Congress, second session on S. 902, H.R. 2076, H.R. 6423, H.R. 13552, and H.R. 13566, July 14, 1966. Washington, 1966. 39 p. PREP 1113
- 78153 U. S. SOIL CONSERVATION SERV. Soil survey of Blaine County, Oklahoma, by C. F. Fisher, D. G. Bartolina, and D. L. Rieke. Washington, 1968. 87 p.,map. aS591.A3F5  
Oklahoma Agricultural Experiment Station, cooperating.
- 78154 U. S. SOIL CONSERVATION SERV. Soil survey of Cabezon area, New Mexico, by J. J. Folks, and W. B. Stone. Washington, 1968. 44 p.,map. aS591.A3F6  
U. S. Bureau of Land Management, and New Mexico Agricultural Experiment Station, cooperating.
- 78155 U. S. SOIL CONSERVATION SERV. Soil survey of Carroll County, Virginia, by W. E. Thomas, L. E. Williamson, D. L. Smith, R. L. Hodges, F. W. Hursey, and G. V. Wilson. Washington, 1967. 109 p.,map. Ref. aS591.A3S63  
Virginia Agricultural Experiment Station, cooperating.
- 78156 U. S. SOIL CONSERVATION SERV. Soil survey of Dougherty County, Georgia, by R. G. Middleton, M. M. Blevins, E. H. Smith, R. O. Neal, and W. S. Carson. Washington, 1968. 64 p.,map. Ref. aS591.A3M5  
Georgia Agricultural Experiment Station, cooperating.
- 78157 U. S. SOIL CONSERVATION SERV. Soil survey of Gray County, Kansas, by B. I. Tomasu, W. E. Roth, J. B. Baumann, and R. L. Haberman. Washington, 1968. 59 p.,map. Ref. aS591.A3T6  
Kansas Agricultural Experiment Station, cooperating.
- 78158 U. S. SOIL CONSERVATION SERV. Soil survey of Houston County, Alabama, by D. M. Harris, G. L. Hickman, J. H. Hataway, and L. A. Dungan. Washington, 1968. 72 p.,map. aS591.A3H3  
Alabama Agricultural Experiment Station, and Alabama Department of Agriculture and Industries, cooperating.
- 78159 U. S. SOIL CONSERVATION SERV. Soil survey of Indiana County, Pennsylvania, by J. B. Weaver, J. D. Ruffner, J. S. Beard, G. C. Borland, R. K. Craver, L. E. Espy, W. M. Kunkle, E. R. Leadbetter, R. S. Long, F. G. Loughry, W. F. Maresch, R. G. Mowery, J. J. Noll, B. J. Patton, J. B. Rayburn, A. F. Snyder, J. G. Steele, and W. J. Steputis. Washington, 1968. 110 p.,map. Ref. aS591.A3W4  
Pennsylvania Agricultural Experiment Station; Pennsylvania State University, College of Agriculture; and Pennsylvania Department of Agriculture, State Soil and Water Conservation Commission, cooperating.
- 78160 U. S. SOIL CONSERVATION SERV. Soil survey of Ionia County, Michigan, by G. Threlkeld, S. Alfred, C. Eby, L. Kannenberg, W. Studley, W. A. Van Eck, R. Johnson, R. Larson, and K. E. Pregitzer. Washington, 1967. 167 p.,map. aS591.A3T55  
Michigan Agricultural Experiment Station, cooperating.
- 78161 U. S. SOIL CONSERVATION SERV. Soil survey of Kay County, Oklahoma, by J. R. Culver, W. R. Bain, and B. G. Baggett. Washington, 1967. 86 p.,map. aS591.A3C8  
Oklahoma Agricultural Experiment Station, cooperating.
- 78162 U. S. SOIL CONSERVATION SERV. Soil survey of Pulaski County, Indiana, by S. Pilgrim, R. Bell, P. Edmonds, K. Huffman, G. Preston, A. Zachary, and D. Post. Washington, 1967. 84 p.,map. Ref. aS591.A3P5  
Indiana Agricultural Experiment Station, cooperating.
- 78163 U. S. SOIL CONSERVATION SERV. Soil survey of Republic County, Kansas, by C. H. Atkinson, and D. A. Gier. Washington, 1967. 61 p.,map. Ref. aS591.A3A7  
Kansas Agricultural Experiment Station, cooperating.
- 78164 U. S. SOIL CONSERVATION SERV. Soil survey of Ross County, Ohio, by J. H. Petro, W. H. Shumate, M. F. Tabb, H. R. Finney, P. E. Baldridge, N. E. Reeder, D. E. Garner, D. L. McCune, and D. F. Jones. Washington, 1967. 168 p.,map. aS591.A3P4  
Ohio Agricultural Experiment Station, Agricultural Research and Development Center, and Ohio Department of Natural Resources, Division of Lands and Soil, cooperating.
- 78165 U. S. SOIL CONSERVATION SERV. Soil survey of Scotland County, North Carolina, by R. E. Horton, J. W. Turpin, J. H. McIntyre, R. B. Stephens, R. A. Goodwin, and D. W. DaMoude. Washington, 1967. 70 p.,map. aS591.A3H6  
North Carolina Agricultural Experiment Station, cooperating.
- 78166 U. S. SOIL CONSERVATION SERV. Soil survey of Sherburne County, Minnesota, by M. F. Grimes, M. G. Ziebell, C. K. Sutton, L. M. Chamberlain, and E. Meir. Washington, 1968. 81 p.,map. aS591.A3G75  
Minnesota Agricultural Experiment Station, cooperating.
- 78167 U. S. SOIL CONSERVATION SERV. Soil survey of Warren County, Tennessee, by G. T. Jackson, S. R. Bacon, J. F. Brasfield, D. B. Freeman, and I. D. Persinger. Washington, 1967. 79 p.,map. Ref. aS591.A3J3  
Tennessee Agricultural Experiment Station, cooperating.
- 78168 WALKER, P. H., HALL, G. F., and PROTZ, R. Relation between landform parameters and soil properties. Soil Sci. Soc. Amer. Proc. 32(1):101-104. Jan./Feb.1968. 56.9 So3
- 78169 WALKER, P. H., HALL, G. F., and PROTZ, R. Soil trends and variability across selected landscapes in Iowa. Soil Sci. Soc. Amer. Proc. 32(1):97-101. Ref. Jan./Feb.1968. 56.9 So3
- 78170 WESTIN, F. C., and others. Characteristics of some Venezuelan soils. Soil Sci. 105(2):92-102, map. Feb.1968. 56.8 So3  
J. Avilan, A. Bustamante, and M. Marino, joint authors.
- 78171 ZYUZ', N. S. Topography and formation of soil-grounds in hilly sandy soils of the Middle Don River. (Rus) Pochvovedenie 2:29-35. Ref. Feb.1968. 57.8 P34  
English summary.

## SOIL MANAGEMENT

- 78172 BAY, R. R. Techniques of hydrologic research in forested peatlands, U.S.A. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.1:400-415. Ref. 1967. 99.9 In82  
Watershed management research.



- 78173 DAVIS, G. Hydrology of contour strip mines in the Appalachian region of the United States. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.1:420-443, map. Ref. 1967. 99.9 In82 Includes effects on watersheds.
- 78174 DUNFORD, E. G. Technique in grassland watershed research. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.1:444-462. Ref. 1967. 99.9 In82  
Various aspects and roles of grassland in watershed management.
- 78175 ELLIS, J. K. On guard against the wind. U I (Utah-Idaho) Cult. 28(1):41-43. Spring 1968. 66.8 U12  
Preparation of soils for planting of sugar beets.
- 78176 HOLTAN, H. N., and MINSHALL, N. E. Plot samples of watershed hydrology. U. S. Agr. Res. Serv. ARS-41-133, 206 p. Jan. 1968. A56.9 R31  
Research method.
- 78177 KELLER, H. M. Water quality to characterize runoff from small watersheds. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.1:264-280. 1967. 99.9 In82  
New Zealand and Switzerland.
- 78178 KRONFELLNER-KRAUS, G. Runoff and erosion measurement in Austria according to the international FAO/EFC/Torr. classification for torrent-watershed areas. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.1:349-361. Ref. 1967. 99.9 In82
- 78179 LACZKO, I. Main problems of soil utilization in hill areas. (Hu) Magyar Mezogazdasag 23 (15):10-11. Apr. 10, 1968. 19 M27  
Management and soil erosion control, chiefly.
- 78180 PLASS, W. T. Land disturbances from strip-mining in eastern Kentucky. 3. Licking River Coal Reserve District. U. S. Forest Serv. Res. Note NE-68, 6 p., map. 1967. A99.9 F7622U
- 78181 PLASS, W. T. Land disturbances from strip-mining in eastern Kentucky. 4. Big Sandy Coal Reserve District. U. S. Forest Serv. Res. Note NE-69, 7 p., map. 1967. A99.9 F7622U
- 78182 PLASS, W. T. Land disturbances from strip-mining in eastern Kentucky. 5. Hazard River Coal Reserve District. U. S. Forest Serv. Res. Note NE-71, 7 p., map. 1967. A99.9 F7622U
- 78183 PLASS, W. T. Land disturbances from strip-mining in eastern Kentucky. 6. Southwestern Coal Reserve District. U. S. Forest Serv. Res. Note NE-72, 8 p., map. 1967. A99.9 F7622U
- 78184 SHUBLADZE, K. K. The achievements of the Soviet research in melioration. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 11:71-79. Nov. 1967. 20 V633  
English summary.  
Soil management.
- 78185 SOPPER, W. E. An evaluation of streamflow timing from small watersheds in northeastern United States. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.1:281-297. Ref. 1967. 99.9 In82
- 78186 SORENSEN, A. Soil management in the orchard. (Da) Erhvervsfrugtavlere 35(4):138-141. Apr. 1968. 80 Er3
- 78187 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Watershed projects. Hearings—Eighty-ninth Congress, second session, March 21, August 4, 5, 8, 12, 15, and September 21, 1966. Washington, 1966. 218 p. PREP 1115
- 78188 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Watershed projects. Hearings—Ninetyeth Congress, first session. Washington, 1967. 182 p. PREP 2148
- 78189 U. S. CONGRESS. HOUSE. COMMITTEE ON PUBLIC WORKS. Watershed projects—1967. Hearings—Ninetyeth Congress, first session. Washington, 1968. 53 p. PREP 2087
- 78190 U. S. FOREST SERV. PACIFIC NORTHWEST FOREST AND RANGE EXPERIMENT STATION. Hydrologic and related characteristics of three small watersheds in the Oregon Cascades, by J. Rothacher, C. T. Dyrness, and R. L. Fredriksen. Portland, Oregon, 1967. 54 p., map. Ref. aTC424.O7R6
- 78191 URSIC, S. J., and POPHAM, T. W. Using runoff events to calibrate small forested catchments. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.1:319-324. Ref. 1967. 99.9 In82
- 78192 WADIE, K. A. O. Soil improvement practices in Ghana. Compost Sci. 8(2):17. Autumn 1967/Winter 1968. 57.8 C734
- Soil Fertility**
- 78193 ABBOT, J. L., and LINGLE, J. C. Effect of soil temperature on the availability of phosphorus in animal manures. Soil Sci. 105(3):145-152. Ref. Mar. 1968. 56.8 So3
- 78194 ADAMS, F. Response of cotton to lime in field experiments. Ala. Agr. Exp. Sta. Bull. 376, 23 p. Mar. 1968. 100 AL1S  
Yields.
- 78195 ALLEN, S. E., and TERMAN, G. L. Response of maize and sudangrass to zinc in granular macronutrients. Int. Soc. Soil Sci. Trans. 1966:255-266. Ref. 1967. 56.9 In8
- 78196 BACHY, A. Principal results obtained by the I.R.H.O. (Institute for Research on Oils and Oil-bearing plants) in fertilizing oil palm. (Fr) Oleagineux 3(1):9-14. Jan. 1968. 77.8 OL2  
English summary, p. XXXVI.
- 78197 BARNES, H. H. Fertilizing for 1968 bumper crop of soybeans. Com. Fert. Plant Food Indus. 116(4):15, 18-20. Apr. 1968. 57.8 C73
- 78198 BAUER, A., and ZUBRISKI, J. C. Phosphorus fertilizer for corn: how should it be applied? N. Dak. Farm Res. 25(3):6-8. Ref. Jan./Feb. 1968. 100 N813B
- 78199 BEERS, Z. H. For a big harvest—topdress small grains. Agr. Nitrogen News 18(2):64-66. Mar./Apr. 1968. 381 Ag82  
With nitrogen.
- 78200 BENNETT, R. J., RUSSELL, R. D., and WATKIN, J. E. Lime and phosphate treatments for reclamation of heather moorland. Brit. Grassland Soc. J. 23(1):34-39. Mar. 1968. 60.19 B773  
Calcium carbonate.
- 78201 BERINDEI, M., TANASESCU, E., and DRAGOMIR, L. Some aspects of the rational fertilizing of potato crops. (Rum) Probl. Agr. [Bucharest] 20(1):10-16. 1968. 21 R862  
English summary.
- 78202 BLACK, A. L. Nitrogen and phosphorus fertilization for production of crested wheatgrass [Agropyron desertorum] and native grass in northeastern Montana. Agron. J. 60(2):213-216. Ref. Mar./Apr. 1968. 4 Am34P  
Effect on yields.
- 78203 BONDARENKO, S. F. Available phosphorus in Chernozem soils in the vicinity of Azov. (Rus) Pochvovedenie 3:101-106. Ref. Mar. 1968. 57.8 P34  
English summary.  
Induced by fertilization of corn with superphosphates.
- 78204 BOULD, C. Leaf analysis as a diagnostic method and advisory aid in crop nutrition. Exp. Agr. 4(1):17-27. Jan. 1968. 10 Ex72  
Review of the literature.
- 78205 BOURQUI, P. The fertilizing of mountain pastures. (Fr) Indus. Lait. Suisse 49(10):2-3. Mar. 8, 1968. 44.8 In24  
Switzerland.
- 78206 BROWN, L. D. Pop-up: Where, when, & how much? Agr. Chem. 23(4):22-24, 26. Apr. 1968. 381 Ag8  
Fertilizer applied with seed at planting time.
- 78207 CHAMBERLAND, E., and SCOTT, A. N-P-K experiments with potatoes in the lower St. Lawrence region of Quebec. Amer. Potato J. 45(3):93-102. Ref. Mar. 1968. 75.8 P842

- 78208 CHOBANU, S. A., and REVUT, T. B. Heterogeneity of fertility of the heavy soil arable layers in the Dniester River region. (Rus) *Pochvovedenie* 3:107-116. Ref. Mar.1968. 57.8 P34  
English summary.
- 78209 COWLING, D. W. Ammonia as a source of nitrogen for grass swards. *Brit. Grassland Soc. J.* 23(1):53-60. Ref. Mar.1968. 60.19 B773  
Chiefly application methods and effects on yields.
- 78210 CROTHERS, B. Tropical legumes reclaim Co-roy dairy lands. *Queensland Agr. J.* 93(12): 710-712. Dec.1967. 23 Q33  
Chiefly fertilizing.
- 78211 CURTIS, O. D. Fertilization for optimum cotton yield on soils of the Mississippi alluvium. *Com. Fert. Plant Food Indus.* 116(2):20-21,24-25. Feb.1968. 57.8 C73
- 78212 CZUBA, R. The problem of trace element fertilization in prospect of years to come. (Pol) *Nowe Roln.* 17(4):13-15. Feb.16/29,1968. 20.5 N86
- 78213 DALTON, F. E. Reclaiming land with Chicago sewage sludge. *Compost Sci.* 8(2):5-8, map. Autumn 1967/Winter 1968. 57.8 C734
- 78214 DEERING, R. E. Let the plant talk back; plant analysis picks up where soil testing leaves off. *Farm Quart.* 23(3):50-51,112. Summer 1968. 44.8 Am38
- 78215 DELBOSC, G. A study on the regeneration of soil fertility in the groundnut zone of Senegal. (Fr) *Oleagineux* 23(1):27-33. Jan.1968. 77.8 OL2  
English summary, p.XXXVII.
- 78216 DOKURNO, A., and MODRZEJEWSKA, I. Fertilizer application to sugar beets in the light of the experiments carried out by the Regional Agricultural Experiment Station in Besia. (Pol) *Nowe Roln.* 17(5):16-18. Mar.1/15,1968. 20.5 N86
- 78217 DONALD, L. Sidedress; increase yield and profit hedge against dry weather. *Agr. Nitrogen News* 18(3):11,14,16. May/June 1968. 381 Ag82
- 78218 DOUGLAS, J. A. Fertiliser trials on cereals in North Otago. *New Zeal. J. Agr.* 116(3):82-83. Mar.1968. 23 N48J
- 78219 DURING, C., and WEEDA, W. C. Nitrogenous fertiliser in grassland farming. *New Zealand J. Agr.* 116(4):32-33,35,37. Apr.1968. 23 N48J
- 78220 DUVICK, R. D. Trends in the use of major fertilizer nutrients on Michigan cropland and pasture. *Mich. State Univ. [Ext.] Agr. Econ. Rep.* 88,19 p.,map. Dec.1967. 281.9 M5842
- 78221 EVATT, N. S. Effect of varying the time of early single nitrogen applications on rice. *Rice J.* 71(3):10,12. Mar.1968. 59.8 R36
- 78222 EXPERIENCES in fertilizer application. (Ge) *Allg. Forstzeitung* 79(3):60-61. Mar.1968. 99.8 AL53  
In forestry.
- 78223 FALKOWSKI, M., and KARLOWSKA, G. The effect of phosphate fertilization on the quantitative and qualitative composition of the sward on newly established meadow. *Water Econ. [Selec. Articles]* 20(2/12):338-340. 1966. (TT 63-11363) HD1697.P7S4  
Translation from *Gospodarka Wodna* 20(8): 384. 1960.  
Issued by CFSTI.
- 78224 FEDDERSEN, H. D. Yes, but what kind of potash? *S. Australia J. Agr.* 71(7):255-256. Feb.1968. 23 So84  
For potato fertilizer.
- 78225 FERRARI, T. J. Principles of experimentation in the study of soil-crop relationships. *Int. Soc. Soil Sci. Trans.* 1966:345-355. 1967. 56.9 In8  
Fertility research.
- 78226 FULLER, W. H., CARPENTER, E. W., and L'ANNUNZIATA, M. F. Evaluation of municipal waste compost for greenhouse potting purposes. *Compost Sci.* 8(2):22-26. Autumn 1967/Winter 1968. 57.8 C734  
Ornamentals and tomatoes as test plants.
- 78227 FURST, L. Nitrogen production of variously fertilized soils in fruit culture. (Ge) *Lebendige Erde* 1:4-9. Jan./Feb.1968. 18 L49  
Emphasis on organic fertilizers.
- 78228 GETHING, P. A., JONES, P. D., and ROSS, A. I. The effects of heavy dressings of potash applied to the seedbed of a ley compared with annual dressings. *Brit. Grassland Soc. J.* 23(1):61-68. Mar.1968. 60.19 B773  
Chiefly effects on yields.
- 78229 GIULIMONDI, G. Experiences in fertilizing and soil cultivation in poplar nurseries. (Fr) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.4:225-237. Ref. 1967. 99.9 In82  
Italy.
- 78230 GLEBOWSKI, H. Value of serpentinites as magnesium fertilizers. (Pol) *Rocz. Gleboznawcze* 18(1):95-113. Ref. 1967. 56.8 R592  
English summary.  
Oat, buckwheat and lupine on Podzol.
- 78231 GORALSKI, J., and BUDZISZEWSKA, J. Effect of the Kingisepp ground rock phosphate in the light of laboratory and greenhouse tests. (Pol) *Rocz. Gleboznawcze* 18(1):77-94. Ref. 1967. 56.8 R592  
English summary.  
Italian ryegrass and oat yields.
- 78232 GORBUNOV, N. I. Pochvennye kolloidy i ikh znachenie dlya plodorodiya [Soil colloids and their importance for soil fertility]. *Moskva, Nauka*, 1967. 159 p. S593.3.G6
- 78233 HABERLAND, R. Fertilizing and tillage in field vegetable culture. (Ge) *Indus. Obst- Gemüseverwertung* 53(5):139-145. Mar.7,1968. 389.8 K832
- 78234 HAGIN, J., and SCHERZER, S. Potassium metaphosphate as a fertilizer. *Int. Soc. Soil Sci. Trans.* 1966:175-185. 1967. 56.9 In8  
Oat yields.
- 78235 EL-HAMIDI, A., MOURSI, M. A., and AHMED, S. S. Effects of nitrogen and spacing on castor bean in sandy soils in Egypt. *Exp. Agr.* 4(1): 61-64. Ref. Jan.1968. 10 Ex72  
Fertilizer.
- 78236 HARRIS, R. B., and NICKEL, P. E. Plant analysis. *Agrichem West* 11(4):5,7. Apr.1968. 381 Ag85  
Analysis and foliar diagnosis for determining soil fertility.
- 78237 HARTZOG, D., and ADAMS, F. Soil fertility experiments with peanuts in 1967. *Ala. Agr. Exp. Sta. Progr. Rep. Ser.* 89,3 p. Feb.1968. 100 AL1M
- 78238 HAWKES, G. R. Sugar beets—"there is a time." *Agr. Nitrogen News* 18(3):36,38. May/June 1968. 381 Ag82  
Fertilizing.
- 78239 HOLLAND, D. A. The component analysis approach to the interpretation of plant analysis data from groundnuts and sugar cane. *Exp. Agr.* 4(2):179-185. Ref. Apr.1968. 10 Ex72  
From fertilizer trials.
- 78240 HOPPER, M. J., and CLEMENT, C. R. The supply of potassium to grassland; an integration of field, pot and laboratory investigations. *Int. Soc. Soil Sci. Trans.* 1966:237-246. 1967. 56.9 In8
- 78241 HOWELER, R. H., and WOODRUFF, C. M. Dissolution and availability to plants of rock phosphates of igneous and sedimentary origins. *Soil Sci. Soc. Amer. Proc.* 32(1):79-82. Ref. Jan./Feb.1968. 56.9 So3  
Includes its effect on soybean and corn yields.
- 78242 INGESTAD, T. Methods for uniform optimum fertilization of forest tree plants. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.2: 265-269. 1967. 99.9 In82



- 78243 INKSON, R. H. E., and REITH, J. W. S. Estimating optimal nutrient rates for potatoes. *Int. Soc. Soil Sci. Trans.* 1966:377-384. 1967. 56.9 In8
- 78244 JAKOBSEN, S. T. Pot-culture experiments measuring the effects of compound or straight N, P and K fertilizers on yield, uptake and utilization of added N, P and K. *Int. Soc. Soil Sci. Trans.* 1966:393-399. 1967. 56.9 In8 Oats.
- 78245 JANSSEN, S. L. Lime in agriculture in the 1960ties. (Sw) *Hallands Lans Hushallnings-sallsk. Tidskr.* 11(2):3-5. Mar.1968. 11 H152
- 78246 JANSSEN, S. L. Soil organic matter and fertility. *Int. Soc. Soil Sci. Trans.* 1966:1-10. Ref. 1967. 56.9 In8
- 78247 JELENIC, D., and others. Intensities of nitrogen mineralization and the content of the available forms of mineral nitrogen depending on the amount of total nitrogen in some soils of Yugoslavia. (Se) *Agrohemija* 1/2:21-32. Ref. 1968. 385 Ag87  
Z. Aleksic, F. Megusar, and M. Jakovljevic, joint authors.  
English summary.
- 78248 JELENIC, D., PETROVIC, M., and JAKOVljeVIC, M. The total hydrolyzing nitrogen and its individual fraction in Pseudogley soils in different localities of Yugoslavia. (Se) *Agrohemija* 1/2:39-43. Ref. 1968. 385 Ag87  
English summary.
- 78249 JONES, J. B., and SCHMIDT, W. H. Pop-up fertilizer. *Ohio Rep. Res. Develop. Biol. Agr. Home Econ.* 53(2):21-22. Mar./Apr.1968. 100 Oh3S  
Application to corn.
- 78250 KAZIEV, M. Z., and KHAMRAEV, T. R. The reasons of potassium fertilizer efficiency on soils susceptible to salinization. (Rus) *Pochvovedenie* 3:124-129. Ref. Mar.1968. 57.8 P34  
English summary.  
Cotton soils.
- 78251 KENNEL, R., and WEHRMANN, J. Results of fertilizing experiments of an inferior quality pine stands with extremely high nitrogen doses. (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.6:216-231. Ref. 1967. 99.9 In82  
English summary.  
*Pinus sylvestris*.
- 78252 KILGARRIFF, P. J. Dairy factory wastes benefit farms. *New Zeal. J. Agr.* 114(6):20-21, 23. June 1967. 23 N49J  
Whey as pasture fertilizer.
- 78253 KIRCHGESSNER, M., LORENZ, J., and MAIER, D. A. A contribution to the fertilizer treatment of grassland with trace elements. (Ge) *Wirtschaftseigene Futter* 14(1):48-50. Jan.1968. 389.79 F98  
English summary.
- 78254 KLESZCZYCKI, A., KOZAKIEWICZ, A., and LAKOMIEC, I. Effect of many-year treatment with mineral fertilizers and farmyard manure on the organic soil matter in the light of 44 experimental years. (Pol) *Rocz. Gleboznawcze* 17:243-251. 1967. 56.8 R592  
English summary.
- 78255 KLESZCZYCKI, A., KOZAKIEWICZ, A., and LAKOMIEC, I. Tentative comparison of methods used in research of humus in mineral soils. (Pol) *Rocz. Gleboznawcze* 17:229-241. Ref. 1967. 56.8 R592  
English summary.
- 78256 KOPER, S. Some methods of estimating phosphorus and potassium fertilizer requirements of grassland in the light of field tests. (Pol) *Rocz. Gleboznawcze* 18(1):143-157. Ref. 1967. 56.8 R592  
English summary.
- 78257 KRAPPENBAUER, A., and TUSZYNSKI, M. Effects of a fertilizing experiment aiming at transformation of an unfavorable floor cover (raw humus) in a pine stand, *Pinus strobus*, evaluated at the end of the first experimental year. (Pol) *Rocz. Gleboznawcze* 17:169-190. 1967. 56.8 R592  
English summary.  
Mineral fertilizing in Austria.
- 78258 KUZNETSOV, V. S., and BELOKON', E. P. Joint foliar application of nitrogen fertilizers with minor elements and herbicides on flax crops. (Rus) *Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl.* 131:67-73. Ref. 1967. 20 M857
- 78259 LAUGHLIN, W. M. Effect of calcium metaphosphate and treblesuperphosphate on yield and chemical composition of Kennebec potatoes. *Amer. Potato J.* 45(2):45-50. Feb.1968. 75.8 P842
- 78260 LIANI, A. Experiments of sulphur fertilization of poplars. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.2:298-317. Ref. 1967. 99.9 In82
- 78261 LIKINS, L. Viewpoints; are you taking advantage of ANI [Agricultural Nitrogen Institute] services? *Agr. Nutritional News* 17(4):36. July/Aug.1967. 381 Ag82
- 78262 LUDWICK, A. E., SHARPEE, K. W., and ATTOE, O. J. Manganese-sulfur fusions as a source of manganese for crops. *Agron. J.* 60(2):232-234. Mar./Apr.1968. 4 Am34P  
Tests with *Lolium perenne*.
- 78263 LUTWICK, L. E., and DORMAAR, J. F. Productivity of a soil biosequence of the fescue prairie-aspen transition. *J. Range Manage.* 21(1):24-27. Jan.1968. 60.18 J82  
Study of the fertility of black Chernozem soil brought about by the advance of trees.
- 78264 MANSSON, E. Nitrogen fertilizing in the spring. (Sw) *Hallands Lans Hushallnings-sallsk. Tidskr.* 11(2):5-6. Mar.1968. 11 H152  
Field crops.
- 78265 MARTENS, D. C., BRYANT, H. T., and PETERSON, J. R. Response of corn to boron fertilization of six northern Virginia soils. *Va. Agr. Exp. Sta. Res. Rep.* 120,9 p. Ref. Mar.1967. 100 V81R
- 78266 MATTINGLY, G. E. G., and PENNY, A. Evaluation of phosphate fertilizers. I-II. *J. Agr. Sci.* 70(2):131-153. Ref. Apr.1968. 10 J822  
I, Immediate value of dicalcium phosphate, nitrophosphates, Gafsa rock phosphate, basic slag and potassium metaphosphate for barley and ryegrass; II, Residual value of nitrophosphate, Gafsa rock phosphate, basic slag and potassium metaphosphate for potatoes, barley and swedes grown in rotation, with special reference to changes in soil phosphorus status.
- 78267 MCCLELLAND, V. F. Superphosphate on wheat: The cumulative effect of repeated applications on yield response. *Australian J. Agr. Res.* 19(1):1-8. Ref. Jan.1968. 23 Au783
- 78268 MERENYI, GY. The effect of manganese containing superphosphate on the yield of winter wheat. (Hu) *Magyar Mezogazdasag* 23(4):14. Jan.24,1968. 19 M27
- 78269 MISSISSIPPI AGRICULTURAL EXPERIMENT STATION. 1968 crop and fertilizer recommendations for Mississippi. *Miss. Agr. Exp. Sta. Bull.* 756,28 p.,map. Jan.1968. 100 M69  
Includes fruit, ornamentals and vegetables.
- 78270 MOLINE, W. J. Fertilizer early: then take advantage of spring rains. *Fert. Solutions* 12(2):50. Mar./Apr.1968. 57.8 So4  
Pastures.
- 78271 MORILLO, M. R., and FASSBENDER, H. W. Forms and availability of soil phosphates in the lower basin of the Choluteca River, Honduras. (Sp) *Turrialba* 18(1):26-33. Ref. Jan./Mar. 1968. 8 T86  
English summary.

- 78272 NAUER, E. M., ROISTACHER, C. N., and LABANAUSKAS, C. K. Effects of mix composition, fertilization, and pH on citrus grown in U.C.-type potting mixtures under greenhouse conditions. *Hilgardia* 38(15):557-567. Ref. Nov. 1967. 100 C12H  
California.
- 78273 NAVROT, J., and RAVIKOVITCH, Š. Zinc availability in calcareous soils: II. Relation between "available" zinc and response to zinc fertilization. *Soil Sci.* 105(3):184-189. Ref. Mar. 1968. 56.8 So3  
Corn as test plant.
- 78274 NELSON, L. B. What fertilizer for your farm? *Hoard's Dairyman* 113(8):519,539. Apr.25,1968. 44.8 H65  
Types.
- 78275 NIKITOVCHINA, T. D. Top dressing applied on apple seedlings. (Rus) *Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl.* 132:101-105. 1967. 20 M857
- 78276 NIKLEWSKI, M. The problem of papilionaceous crops as related to present practices of fertilizer management and utilization in our country. (Pol) *Nowe Roln.* 17(3):16-17. Feb.1/15,1968. 20.5 N86
- 78277 ONKEN, A. B., and ROBERTSON, W. Time and rate of nitrogen application on grain sorghum. *Tex. Agr. Exp. Sta. Progr. Rep.* 2534,9 p. Apr.2,1968. 100 T31P  
Effects on yields.
- 78278 PAARLAHTI, K. On the influence of the time of fertilization on the growth reactions in a pine stand on peat soil. *Int. Union Forest. Res. Organ. Papers*, 14th Congr.,v.4:483-493. 1967. 99.9 In82  
Nitrogen, phosphorus and potassium applied in Finland.
- 78279 PAAUW, F. VAN DER. Role of the organic cycle in fluctuations of crop yield. *Int. Soc. Soil Sci. Trans.* 1966:125-129. 1967. 56.9 In8
- 78280 PARKS, W. L., SAFLEY, L. M., and LATHAM, D. H. Fertilization of dark tobacco. *Tenn. Agr. Exp. Sta. Bull.* 427,35 p. July 1967. 100 T258  
Effects of nitrogen, phosphorus and potassium on quality and yields.
- 78281 PIONKE, H. B., and WALSH, L. M. How to apply nitrogen fertilizers. *Hoard's Dairyman* 113(9):579. May 10,1968. 44.8 H65
- 78282 POTASHOV, A. I., and KÉVORKOV, A. P. The All-Union D. N. Pryanishnikov Institut of Fertilizers and Soil Fertility [Vsesoyuznyi Nauchno-Issledovatel'skii Institut Udobrenii i Agropochvovedeniya imeni D. N. Pryanishnikova]. (Rus) *Vestnik Sel'skokhoz. Nauk.* [Moscow] 11:88-92. Nov.1967. 20 V633  
Activities.
- 78283 PRATT, J. N. Fertilizing pastures. *Agr. Nitrogen News* 17(4):46-48,50. July/Aug.1967. 381 Ag82
- 78284 RANDELL, H. "Fertigation"—the booming market for liquid fertilizers. *Fert. Solutions* 12(2):16-18,20. Mar./Apr.1968. 57.8 So4  
Field crops.
- 78285 RAYBURN, R., and PETERSON, V. H.  $\text{NH}_3$  for forage. *Agr. Nitrogen News* 17(4):6-8,10,12. July/Aug.1967. 381 Ag82
- 78286 READY, E. L. Fertilizing Coastal bermuda. *Agr. Nitrogen News* 18(3):52,54. May/June 1968. 381 Ag82
- 78287 RENNIE, D. A., and CLAYTON, J.S. An evaluation of techniques used to characterize the comparative productivity of soil profile types in Saskatchewan. *Int. Soc. Soil Sci. Trans.* 1966:366-376. Ref. 1967. 56.9 In8
- 78288 RIXON, A. J., and BRIDGE, B. J. Soil fertility changes in a red-brown earth under irrigated pastures. III. Water relations of the mat and surface soil. *Australian J. Agr. Res.* 18(5):741-753. Ref. Sept.1967. 23 Au783
- 78289 ROGERS, H. V. Fluid fertilizers. *Clemson Univ. Ext. Circ.* 498,rev.8 p.-folder. Jan.1968. 275.29 So8E
- 78290 RUBIN, S. S. Fertilization and soil management. (Rus) *Sadovodstov* 2:45-46. Feb.1968. 80 Sa13  
Fruit soils in the USA.
- 78291 SANTHIRASEGARAM, K. Studies on the nutritive status of some coconut soils in Ceylon. 10. Minor soil series and conditions in the Chilaw district. *Exp. Agr.* 4(2):161-165. Apr.1968. 10 Ex72
- 78292 SCAIFE, M. A. Maize fertilizer experiments in western Tanzania. *J. Agr. Sci.* 70(2):209-222. Ref. Apr.1968. 10 J822
- 78293 SCHAIRER, E. Report of the Working Group on Fertilizing of Forest Soils. (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr.,v.4:528-538. 1967. 99.9 In82
- 78294 SCHWENDIMANN, F. On the cycle of nutrients of mountain pastures of Nante-Airolo. (Ge) *Arb. Geb. Futterbaues* 9:38-46. Ref. Oct.1967. 60.8 Ar1  
French and Italian summaries.  
Includes fertilizers and yields.
- 78295 SCOTT, A. Difference in the productivity of soils. (Fr) *Agriculture [Montreal]* 25(1):22-23. Mar.1968. 7 Ag82
- 78296 SEIBT, G., and others. On the effect of fertilizing on yield, wood properties, mineral content of needles and soil conditions on Norway spruce [*Picea abies*] stand in fertilizing trial at Oerrel-Lintzel. II. (Ge) *Allg. Forst- Jagdzeitung* 139(3):57-71. Ref. Mar.1968. 99.8 AL3  
W. Knigge, J. B. Reemtsma, and B. Ulrich, joint authors.  
English summary.  
Minerals.
- 78297 SIMPSON, D. M. H. Trend in Midwest is to fall plowdown. *Agr. Nitrogen News* 17(4):68. July/Aug.1967. 381 Ag82  
Anhydrous ammonia application.
- 78298 SINGH, A., and ROYSHARMA, R. P. Long term experiments with fertilizers and manures on sugarcane in India. *Exp. Agr.* 4(1):65-75. Ref. Jan.1968. 10 Ex72
- 78299 SKOGLEY, C. R., and KING, J. W. Controlled release nitrogen fertilization of turfgrass. *Agron. J.* 60(1):61-64. Jan./Feb.1968. 4 Am34P
- 78300 SKOGLEY, C. R. Turfgrass fertilizer research at the Rhode Island Agricultural Experiment Station. *Sports Turf Res. Inst. J.* 43:34-39. 1967, pub. Mar.1968. 60.19 B772
- 78301 SLUIJSMANS, C. M. J. Changes of the soil nutrient status. *Int. Soc. Soil Sci. Trans.* 1966:357-363. 1967. 56.9 In8
- 78302 SMITH, A. M. Organic nitrogen in fertilizer. *Com. Fert. Plant Food Indus.* 116(5):22,24-25, 29. May 1968. 57.8 C73
- 78303 SMITH, W. G., and PARKS, W. L. A method incorporating probability into fertilizer recommendations. *J. Farm Econ.* 49(5):1511-1515. Dec.1967. 280.8 J822
- 78304 SOGO, M., and OZAKI, M. A study on the soil management of the slope orchard. 2. The effect of soil management on the loss of fertilizer, change in the physical and chemical characters of soil and the yield of grape. (Ja) *Shikoku Agr. Exp. Sta. Bull.* 16:35-68. Ref. Mar.1967. 107.6 Z4  
English summary.
- 78305 STEFAN, K., and LIPPAY, H. Nutrition and disease attack in forest plants. 2. Evaluation of the nutritional conditions of poplars with the help of chemical leaf analysis. (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr.,v.5:409-413. Ref. 1967. 99.9 In82
- 78306 STEPHENS, D. Fertilizer trials on cotton and other annual crops on small farms in Uganda. *Exp. Agr.* 4(1):49-59. Ref. Jan.1968. 10 Ex72  
Includes groundnuts and millet.
- 78307 STRAUSS, J. L. Let's use more liquid starter fertilizer. *Fert. Solutions* 12(2):40-42. Mar./Apr.1968. 57.8 So4  
Grain fertilizing.



- 78308 SWAN, H. S. D. The fertilization of man-made forests. World Symp. Man-Made Forests Indus. Import. [Position Paper] 9d/1,13 p. Ref. 1967. SD391.W6 1967a
- 78309 SZALA, S. Some problems of fertilizer use on private farms in the Koszalin Province. (Pol) Nowe Roln. 17(4):18-20. Feb.16,/29,1968. 20.5 N86
- 78310 TAGGART, J. Judgments to make in selecting your method of applying N. Agr. Nitrogen News 17(4):64. July/Aug.1967. 381 Ag82
- 78311 TEWARI, G. P. Responses of grasses and legumes to fertilizer treatments in Nigeria. Exp. Agr. 4(1):87-91. Jan.1968. 10 Ex72
- 78312 THOMPSON, S. O., WEDIN, W. F., and ATTOE, O. J. Effect of oil treatment of fertilizers on crop yields and uptake of fertilizer constituents. Agron. J. 60(2):241-242. Mar./Apr.1968. 4 Am34P  
Field crops.
- 78313 THOMPSON, W. R. Fertilizer-farmer's best avenue to profits. Chem. Farming 10(2): 4-6. Spring 1968. 57.8 C422  
Effects on crop yields.
- 78314 THOMPSON, W. R. Forage needs nitrogen. Agr. Nitrogen News 17(4):21,24-25. July/Aug. 1967. 381 Ag82
- 78315 THORUP, R. M. "Nitrogen" principles and practices. Agr. Nitrogen News 18(3):28,30. May/June 1968. 381 Ag82  
Application of nitrogen in irrigation water.
- 78316 TOMS, W. J. Fertilisers for the wheatbelt. West. Australia. Dep. Agr. J. (ser.4)8(12):486-488,491-493. Dec.1967. 23 W52J
- 78317 TONKAL', E. A., and others. Fertilization in the sugar beet crop rotation system. (Rus) Sakh. Svekla 3:32-37. Mar.1968. 66.8 Su393  
E. N. Alekseeva, S. T. Ligum, T. S. Zubchenko, and E. N. Tregub, joint authors.
- 78318 TROUGHTON, A. Measurement of plant response to mineral nutrition. Int. Soc. Soil Sci. Trans. 1966:385-391. 1967. 56.9 In8  
Grasses.
- 78319 TSERLING, V. V., GORSHKOVA, M. A., and ZINKEVICH, A. S. Agrochemical description of soils and plant diagnostics. Int. Soc. Soil Sci. Trans. 1966:145-150. 1967. 56.9 In8
- 78320 ULRICH, B. Determining nutrient conditions of soils. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:51-71. 1967. 99.9 In82  
Bibliography, p.64-71.
- 78321 VERNAZZA, N. Results of investigation of vineyard nutrition in Dalmatia by the use of foliar diagnosis. (Se) Agrohemiija 1/2:49-58. 1968. 385 Ag87  
English summary.
- 78322 VETTER, H. The effect of nitrogen on a permanent pasture on a Gray Brown Podzolic soil in an 8-year experiment. (Ge) Wirtschafts-eigene Futter 14(1):34-47. Jan.1968. 389.79 F98  
English summary.
- 78323 VICENTE-CHANDLER, J. Agricultural potential of Latin America's hot humid tropics. J. Soil Water Conserv. 23(2):51-54. Ref. Mar./Apr.1968. 56.8 J822  
Chiefly soil fertility and soil management.
- 78324 VINCZEFFY, I. Mineral fertilizing of pastures. (Hu) Magyar Mezogazdasag 23(14):9. Apr.3,1968. 19 M27
- 78325 VIRO, P. J. One-tree plots in manuring mature stands. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.4:597-607. 1967. 99.9 In82
- 78326 WALENDZIK, R. J. Nitrogen—the factor decisive for the growth of Scotch pine seedlings in forest nurseries. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:417-428. Ref. 1967. 99.9 In82  
Poland.
- 78327 WALSH, L. M. Should you use "pop-up" fertilizer? Hoard's Dairymen 113(9):582. May 10,1968. 44.8 H65
- 78328 WARING, H. D. The role of nitrogen in the maintenance of productivity in conifer plantations. World Symp. Man-Made Forests Indus. Import. [Position Paper] 13/3,17 p. Ref. 1967. SD391.W6 1967a  
Pinus radiata in Australia.
- 78329 WEBB, B. Fertilization and irrigation. U I (Utah-Idaho) Cult. 28(1):14. Spring 1968. 66.8 U12  
Sugar beets.
- 78330 WESOLOWSKI, P. Effectiveness of grassland fertilization on peat soils. (Pol) Nowe Roln. 17(4):17-18. Feb.16/29,1968. 20.5 N86
- 78331 WOLF, B. Are we getting the most out of soil and plant analysis? Farm Chem. Handbook 131(3):40-41,44. Mar.1968. 57.8 Am3  
In relation to crop fertilizing.
- 78332 WORLEY, R. E., and HARMON, S. A. Effect of nitrogen, phosphorus, & potassium on yield and plant growth of fall half-runner snap beans. Ga. Agr. Exp. Sta. Res. Rep. 12,11 p. Ref. Sept.1967. S51.E22
- 78333 WORLEY, R. E. Pecan leaf analysis summary. 1966. Ga. Agr. Exp. Sta. Res. Rep. 9,19 p. Sept.1967. S51.E22
- 78334 ZANDSTRA, H. G., and MACKENZIE, A. F. Potassium exchange equilibria and yield responses of oats, barley, and corn on selected Quebec soils. Soil Sci. Soc. Amer. Proc. 32 (1):76-79. Ref. Jan./Feb.1968. 56.9 So3
- 78335 ZELENSKAYA, E. D., and CHERNI, A. M. Fertilization of the young fruit gardens. (Rus) Sadovodstvo 1:18. Jan.1968. 80 Sa13  
Mineral fertilizers applied to apples.
- 78336 ZHUKOV, M. S. Using lime in preparing soil for hemp. (Rus) Len Konoplya 2:30-31. 1968. 73.8 L542

#### Soil Tillth and Tillage

- 78337 BOTT, W. The long and short of fallowing. Queensland Agr. J. 94(2):119-120. Feb.1968. 23 Q33
- 78338 BUNTUSH, T. A., and SHPYTA, M. V. Presowing leveling and packing of soils for flax. (Rus) Len Konoplya 4:20-21. 1968. 73.8 L542
- 78339 FRANZ, M. Mulching experiments and trials: a report and a look ahead. Org. Gard. Farming 15(1):48-51. Jan.1968. 57.8 Or32  
Vegetables.
- 78340 GAPRINDASHVILI, G. V. Soil tillage, before planting. (Rus) Sadovodstvo 2:26. Feb.1968. 80 Sa13  
Plowing of grape soils.
- 78341 GILL, W. R., and VAN DEN BERG, G. E. Soil dynamics in tillage and traction. U. S. D. A. Agr. Handbook 316,511 p. 1967. 1 Ag84Ah  
Bibliography, p.460-487.  
Includes effects of tillage.
- 78342 HOPKINSON, D. Experiments on mulching sisal with black polythene in Tanganyika. Exp. Agr. 4(2):143-150. Ref. Apr.1968. 10 Ex72
- 78343 JAY, R. Spring work shortcuts. Farm Quart. 23(2):100-101,116-117. Spring 1968. 6 F22995  
Tillage.
- 78344 KHRITONOV, A., and PASNOV, V. What conclusion could be drawn from the performed experiments? (Rus) Zemledelie 4:2-4. Apr.1968. 20 Z44  
On the soil tillage.
- 78345 KITAIKIN, I., and OLEINIKOV, A. Advantages of the deep tillage. (Rus) Zemledelie 4:7. Apr. 1968. 20 Z44
- 78346 KOROLEVA, F. S., and others. Preparing soils for planting flax and hemp in the spring. (Rus) Len Konoplya 3:20-24. 1968. 73.8 L542  
I. S. Zavorodchenko, A. M. Karaseva, E. D. Vasilenko, and P. T. Borisenko, joint authors.

- 78347 LACHOWSKI, J. Preparing seedbed for sugar beet with reduced number of germs. (Pol) Nowe Roln. 17(5):6-8. Mar.1/15,1968. 20.5 N86
- 78348 MCCLURE, W. R., PHILLIPS, S. H., and HERRON, J. W. No-tillage systems for grain production. Ky. Univ. Ext. Leaf. 310,8 p.-folder. Feb.1968. 275.29 K415Le
- 78349 MERCKENS, G. Soil problems in strawberry culture and methods of solving them. (Ge) Lebendige Erde 1:1-4. Jan./Feb.1968. 18 L49  
Tillage and fertilizing.
- 78350 MUKHAMETOV, E. Packing leached Chernozem soils. (Rus) Zemledelie 4:8-10. Apr. 1968. 20 Z44
- 78351 OSTAPENKO, V. Preparation of soil before planting peas. (Rus) Zemledelie 4:4-5. Apr. 1968. 20 Z44
- 78352 ROSS, K. W. Disk or plow soybean land for corn? Iowa Farm Sci. 22(9):9-10. Mar.1968. 275.28 I094
- 78353 SHISHAKOV, B. K., and KRYZHKO, B. A. Harrowing seed sugar beets. (Rus) Sakh. Svekla 4:35. Apr.1968. 66.8 Su393
- 78354 TKACHENKO, V. G. Improving the role of stubble as factor of snow retention. (Rus) Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina. Dokl. 1:7-9. Jan.1968. 20 Ak1  
To control wind erosion and soil moisture.
- Drainage, Irrigation, Water Supply, and Flood Control**
- 78355 ALEKSEEVSKII, E. E. Progress in the reclamation of land. (Rus) Gidrotekh. Melior. 1:1-11. Jan.1968. 290.8 G362
- 78356 BACHTIYAROV, R. I. Irrigating capacity of the Amu-Darya. (Rus) Gidrotekh. Melior. 1:12-17, map. Jan.1968. 290.8 G362
- 78357 BOGATOV, E. A., and GORYACHEVA, G. A. The highest operational speed of drainage machine with spiral cutter. (Rus) Mekh. Elek. Sots. Sel. Khoz. 3:43-44. 1968. 58.8 M46
- 78358 BÖRNSTEIN, J., and BENOIT, G. R. Soil drainage; key to better farming. Vt. Farm Home Sci. 10(2):9-10. Winter 1968. 100 V593  
Research.
- 78359 BYKOVA, N. V., and TERNAEVA, A. I. The transportation of water-soluble salts, as a result of soil leaching with various differential porosity. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 1:90-94. 1968. 20 V633  
English summary.
- 78360 CAMPBELL, D. B. The economics of supplementary irrigation in sugar cane. Int. Sugar J. 70(830):43-45. Feb.1968. 65.8 In8
- 78361 CEBULAK, K. Water balance in the low land. Water Econ. [Selec. Articles] 20(8):273-279. 1966. (TT 63-11363) HD1697.P7S4  
Translation from Gospodarka Wodna 20(8):351-353. 1960.  
Issued by CFSTI.
- 78362 CHUDZYNSKI, M. Design of, and prefabricated elements for, typical structures in hydraulic improvement of land. Water Econ. [Selec. Articles] 20(9):423-429. 1966. (TT 63-11363) HD1697.P7S4  
Includes drainage.  
Translation from Gospodarka Wodna 20(9):417-419. 1960.  
Issued by CFSTI.
- 78363 CONTINI-BONACOSSO, U. Creation of artificial lakes a solution to irrigation problems in the Mediterranean Basin. (Fr) Mediterranee 18:109-114. Feb.1968. 281.8 M462  
English summary.
- 78364 DITWILER, C. D. Water transfer in Washington; institutional and legal framework. Wash. Agr. Exp. Sta. Bull. 693,16 p. Ref. Feb.1968. 100 W27
- 78365 DOGARU, I. Aspects of the utilization of fields managed for irrigation. (Rum) Probl Agr. [Bucharest] 20(1):63-68. 1968. 21 R862
- 78366 ENGGASS, P. M. Land reclamation and resettlement in the Guadalquivir Delta-Las Marismas. Econ. Geogr. 44(2):125-143, map. Apr. 1968. 278.8 Ec7  
Includes land use.
- 78367 ERDEI, S. The Research Institute for Irrigation and Rice Culture [Ontozesi es Rizstermeszesi Kutato Intezet] at Szarvas. (Hu) Magyar Mezogazdasag 23(14):12-13. Apr.3,1968. 19 M27
- 78368 ESMAILI, H., and SCOTT, V. H. Unconfined aquifer characteristics and well flow. Amer. Soc. Civil Eng. J. 94 (IR1,proc. paper 5872):115-136. Ref. Mar.1968. 290.9 Am3Ps
- 78369 FANTI, K. Water management in Egypt. Water Econ. [Selec. Articles] 20(5):103-119, map. 1966. (TT 63-11363) HD1697.P7S4  
Irrigation.  
Translation from Gospodarka Wodna 20(5):213-219. 1960.  
Issued by CFSTI.
- 78370 FISCHER, B. B., YAMADA, H., and POMEROY, C. R. Effects of irrigation practices on safflower yield in San Joaquin Valley. Calif. Agr. 21(11):6-7. Nov.1967. 100 C12Cag
- 78371 GIERCZAK, J. Progress of works on the construction of the Wieprz-Krzna Canal. Water Econ. [Selec. Articles] 20(2/12):147-154. 1966. (TT 63-11363) HD1697.P7S4  
Irrigation.  
Translation from Gospodarka Wodna 20(6):258-260. 1960.  
Issued by CFSTI.
- 78372 GOODELL, B. C., WATT, J. P. C., and ZORICH, T. M. Streamflow volumes and hydrographs by fluorescent dyes. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.1:325-348. 1967. 99.9 In82
- 78373 GREEN, M. E. Some hints on irrigation. Rhodesian Tobacco J. 21(1):45. Jan.1968. 69.8 R34
- 78374 GRODZKI, J. Project for a composite solution of water management problems in the Lodz region. Water Econ. [Selec. Articles] 20(9):379-395, map. 1966. (TT 63-11363) HD1697.P7S4  
Includes water for agricultural purposes.  
Translation from Gospodarka Wodna 20(9):401-406. 1960.  
Issued by CFSTI.
- 78375 GUSEIN-ZADE, S., and KHUDIYEV, Z. Diesel engines for sprinkling machines. (Rus) Tekh. Sel'skom Khoz. 4:31-32. 1968. 58.8 M11
- 78376 HALSEY, D. D., and MARSH, A. W. Pea gravel envelopes for tile drains in Coachella Valley. Calif. Agr. 21(12):12-14. Dec.1967. 100 C12Cag
- 78377 HERRERO ALCON, A. Considerations on the Tajo-Segura water diversion. (Sp) Agricultura [Madrid] 429:3-8. Jan.1968. 15 Ag84  
For irrigation.
- 78378 HORTON, M. L. Precise information for irrigation planning. S. Dak. Farm Home Res. 19(1):10-14. Winter 1968. 100 So82S  
Research on evaporation and consumptive use of water.
- 78379 HOUSTON, C. E. Drainage of irrigated land. Calif. Univ. Ext. Circ. 504, rev. 40 p., map. Dec.1967. 100 C12S
- 78380 HOWE, C. W. Water resources and regional economic growth in the United States, 1950-1960. Southern Econ. J. 34(4):477-489. Ref. Apr.1968. 280.8 So84  
Includes irrigation water.
- 78381 HULSBOS, W. C. The determination of the drainage factor as a criterion for the soils of the Indus Plains. Neth. J. Agr. Sci. 16(1):25-35. 1968. 12 N3892
- 78382 ILISHKINA, S. I., and KUKUSHIN, V. S. Irrigation of cereal crops within large checks. (Rus) Gidrotekh. Melior. 1:44-47. Jan.1968. 280.9 G362
- 78383 ISAEV, A. P. On the calculation of parameters of artificial rain. (Rus) Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina. Dokl. 1:40-43. Jan.1968. 20 Ak1



- 78384 JOHNSON, R. C. Let's take a look at irrigation. U I (Utah-Idaho) Cult. 28(1):8-12. Spring 1968. 66.8 U12  
Sugar beets.
- 78385 KAMPF, H. Useful work performed during the non-campaign time in Bolivia. (Ge) Z. Zucker-indus. 17(8):429-430, map. Aug. 20, 1967. 65.8 D48  
Reclamation of land which was used then to plant sugarcane.
- 78386 KHUDYAJOV, P. Economics of water supply of irrigation. (Rus) Ekon. Sel'skogo Khoz. 1:64-68. 1968. 281.8 So73  
Costs and returns chiefly.
- 78387 KICINSKI, T. Base flow in the Warta drainage area. Water Econ. [Selec. Articles] 20(9):415-421. 1966. (TT 63-11363) HD1697.P7S4  
Translation from Gospodarka Wodna 20(9):414-416. 1960.  
Issued by CFSTI.
- 78388 KICINSKI, T. Ground-water flow into rivers and how it is to be determined. Water Econ. [Selec. Articles] 20(10):469-476. Ref. 1966. HD1697.P7S4  
Translation from Gospodarka Wodna 20(10):439-441. 1960.  
Issued by CFSTI.
- 78389 KIELBASKA, M. Profitability of sprinkling irrigation for sugar beets. (Pol) Nowe Roln. 17(5):15-16. Mar. 1/15, 1968. 20.5 N86
- 78390 KOCZOROWSKA, J. Water conditions in a small lowland catchment area as illustrated by the Gasawka River. Water Econ. [Selec. Articles] 20(11):581-583. 1966. (TT 63-11363) HD1697.P7S4  
For irrigation.  
Translation from Gospodarka Wodna 20(11):507. 1960.  
Issued by CFSTI.
- 78391 KOSHKIN, V. V., and ZEMAN, G. G. Mineralization of irrigation water and the meliorative state of the irrigated area. (Rus) Pochvovedenie 2:52-57. Feb. 1968. 57.8 P34  
English summary.
- 78392 KOSTENKO, G. F. Experience with Ingulets River irrigation system. (Rus) Gidrotekh. Melior. 1:25-32. Jan. 1968. 290.8 G362
- 78393 KOVACS, J. Operational plan for irrigation for better utilization of portable installations. (Hu) Magyar Mezogazdasag 23(11):12-13. Mar. 13, 1968. 19 M27
- 78394 KRATYNSKII, V. I. Use of canal facing equipment. (Rus) Gidrotekh. Melior. 1:99-105. Jan. 1968. 290.8 G362
- 78395 KULSAR, E. Need water on your place? - try dowsing. Org. Gard. Farming 15(2):82-86. Feb. 1968. 57.8 Or32
- 78396 KWAPISZEWSKI, J. Wieprz-Krzna Canal. Water Econ. [Selec. Articles] 20(2/12):141-145. 1966. (TT 63-11363) HD1697.P7S4  
Irrigation.  
Translation from Gospodarka Wodna 20(6):256-258. 1960.  
Issued by CFSTI.
- 78397 LANDESKULTURTAGUNG 13, OLDENBURG, 1965. Landeskulturelle Massnahmen im Rahmen der Agrarstrukturverbesserung; Vortrage [Land development measures within the framework of improvement of agrarian structure; papers]. Deut. Landwirt.-Ges. Arb. 108, 50 p. 1966. 18 D48  
Water and soil programs and consolidation of holdings.
- 78398 LATSHAW, G. J., and THOMPSON, R. F. Water table study verifies soil interpretations. J. Soil Water Conserv. 23(2):65-67. Mar./Apr. 1968. 56.8 J822  
Pennsylvania.
- 78399 LEMBKE, W. D. Control of water table level. S. Dak. Farm Home Res. 19(1):9. Winter 1968. 100 So82S  
Research using lysimeters.
- 78400 LEMBKE, W. D. Drainage designed for your field. S. Dak. Farm Home Res. 19(1):6-8. Winter 1968. 100 So82S
- 78401 LEMBKE, W. D. Getting water away from irrigated areas. S. Dak. Farm Home Res. 19(1):5-6. Winter 1968. 100 So82S  
Drainage research.
- 78402 LEMBKE, W. D. "Programming" irrigation drainage systems. S. Dak. Farm Home Res. 19(1):14-15. Winter 1968. 100 So82S  
Research with data processing equipment.
- 78403 LEMBKE, W. D. Seek better, cheaper drain filters. S. Dak. Farm Home Res. 19(1):16. Winter 1968. 100 So82S
- 78404 MAGRISO, YU., and GEORGIEV, A. Comparative tests on sprinkling and gravitational irrigation of beds for rooting grapevines. (Bu) Gradenar. Lozar. Nauk. 5(1):43-51. 1968. 87 G75  
French summary.
- 78405 MAKARENKO, P. History of reclamation of the sand dunes. (Rus) Sadovodstvo 1:27. Jan. 1968. 80 Sa13
- 78406 MASYUK, A. A. Automatic device to maintain constant water level in flumes. (Rus) Gidrotekh. Melior. 1:40-44. Jan. 1968. 290.8 G362
- 78407 MATUL, K. The radiation and heat balance in Poland and its application to water economy in connection with the water balance. Water Econ [Selec. Articles] 20(9):353-378, map. Ref. 1966. (TT 63-11363) HD1697.P7S4  
Study of irrigation with reference to evapotranspiration.  
Translation from Gospodarka Wodna 20(9):392-401. 1960.  
Issued by CFSTI.
- 78408 MAYO, K. L. Specialist advice for field drainage. New Zeal. J. Agr. 115(1):61. July 1967. 23 N48J
- 78409 MCMARTIN, W., and BERGAN, R. O. Irrigation practices and costs in North Dakota. N. Dak. Agr. Exp. Sta. Bull. 474, 48 p. Mar. 1968. 100 N813  
Canals and overhead systems.
- 78410 MIKUCKI, Z., and WISNIEWSKI, B. Siltation of water reservoir at Porabka. Water Econ. [Selec. Articles] 20(12):683-690, map. 1966. (TT 63-11363) HD1697.P7S4  
Includes runoff.  
Translation from Gospodarka Wodna 20(12):557-559. 1960.  
Issued by CFSTI.
- 78411 NEFEDOV, V. D., and LAPIDOVSKII, K. M. Soil reclamation in the non-Chernozem zone (Rus) Gidrotekh. Melior. 1:61-77. Jan. 1968. 290.8 G362  
Drainage chiefly.
- 78412 NEW SOUTH WALES. WATER CONSERVATION AND IRRIGATION COMMISSION. Water resources of the Towamba and Genoa valleys. n.p., 1968. 107 p., map. (Report No. 10) HD1698.N4N4  
Includes possible irrigation development.
- 78413 NORTH, J. J. Water planning and control. Power Farming 40(2):39-42. Feb. 1968. 58.8 P872  
For irrigation.
- 78414 OFFENGENDEN, S. R., and RAD'KO, A. F. Irrigation under the Soviet rule. (Rus) Gidrotekh. Melior. 1:18-25. Jan. 1968. 290.8 G362  
Policies chiefly.
- 78415 OKRUSZKO, H. The principles of reclamation and utilization of peatlands in the United States of America. Water Econ. [Selec. Articles] 20(11):607-617. 1966. (TT 63-11363) HD1697.P7S4  
Translation from Gospodarka Wodna 20(11):517-520. 1960.  
Issued by CFSTI.
- 78416 OKRUSZKO, H. Reclamation and management of Kuwasy peatlands. Water Econ. [Selec. Articles] 20(11):537-547. 1966. (TT 63-11363) HD1697.P7S4  
Translation from Gospodarka Wodna 20(11):480-484. 1960.  
Issued by CFSTI.

- 78417 OPREA, C. V., ONU, N., and VLAD, I. Achievements and new possibilities of using ground water for irrigation in the production agricultural cooperatives from the region of Banat. (Rum) Probl. Agr. [Bucharest] 20(1):53-62, map. 1968. 21 R862
- 78418 OSTROWSKI, J. Experiments with a vertical drainage duct, carried out at the Agricultural Experimental Station at Wolica. Water Econ. [Selec. Articles] 20(4):65-68. 1966. (TT 63-11363) HD1697.P7S4  
Translation from Gospodarka Wodna 20(4): 187-188. 1960.  
Issued by CFSTI.
- 78419 PAKHOMOVA, S. S. Effect of irrigation on yields of the early potatoes. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 131:23-27. 1967. 20 M857
- 78420 PAPADAKIS, J. Evaluation of the irrigation water requirements in the Mediterranean Basin. (Fr) Meditteranea 18:115-123. Feb. 1968. 281.8 M462  
English summary.  
Chiefly estimation of potential evapotranspiration.
- 78421 PRIMOV, G. Mobile pumping stations with the low pressure. (Rus) Tekh. Sel'skom Khoz. 4: 33-35. 1968. 58.8 M11  
Irrigation equipment.
- 78422 RADWAN-DEBSKI, R. The architectural concept of the Hydrologic Research Station at Ursynow. Water Econ. [Selec. Articles] 20 (2/12):189-195, map. 1966. (TT 63-11363) HD1697.P7S4  
Study of surface and underground water.  
Translation from Gospodarka Wodna 20(6): 288. 1960.  
Issued by CFSTI.
- 78423 RAGUSE, C. A., BERRY, L. J., and STREET, J. E. Irrigated pastures in California. Calif. Univ. Ext. Circ. 545, 35 p. Nov. 1967. 100 C12S  
Published jointly with California Agricultural Experiment Station.  
Includes management.
- 78424 RIMKUS, A. Channel cleaners. (Rus) Tekh. Sel'skom Khoz. 2:33-36. 1968. 58.8 M11
- 78425 ROQUERO DE LABURN, C. The problems of the water diversion; need for extreme technical caution. (Sp) Agricultura [Madrid] 429:14-23, map. Ref. Jan. 1968. 15 Ag84  
For irrigation.
- 78426 SARARU, C. Modern irrigation works at Valea Carasu. (Rum) Probl. Agr. [Bucharest] 20(1):69-77, map. 1968. 21 R862
- 78427 SARTZ, R. S. Winter thaws can raise ground water levels in driftless area. U. S. N. Cent. Forest Exp. Sta. U. S. Forest Serv. Res. Note NC-35, 2 p. Aug. 1967. aSD11.A33  
Wisconsin.
- 78428 SAVESON, I. L. Surface drainage of flatlands. U. S. D. A. Misc. Publ. 1062, 10 p. Dec. 1967. 1 Ag84M  
Louisiana Agricultural Experiment Station, cooperating.  
Louisiana.
- 78429 SCHUT, B. School and land consolidation. (Du) Ned. Heidemaatsch. Tijdschr. 79(1):24-32. Jan. 1968. 12 N282  
Teaching children about reclamation projects.
- 78430 SOKOLOSKI, A. A. Externalities and empiricism in water resources. Can. J. Agr. Econ. 15(2):1521-1525. Dec. 1967. 281.8 C16  
External effects in relation to management.
- 78431 SOLOPOV, G. S. Ground water regime of Izobilensk massif of the Egorlyksk irrigation system. (Rus) Pochvovedenie 2:57-71. Feb. 1968. 57.8 P34  
English summary.
- 78432 SPENCER, R. T. Drainage in the home garden. Agr. Gaz. New S. Wales 79(2):117-119. Feb. 1968. 23 N472
- 78433 SULLIVAN, G. D., WOOLF, W. F., and PHILLIPS, S. A. An economic analysis of irrigation and fertilization for cotton in the Macon Ridge area of Louisiana. La. Rural Econ. 30 (1):2-4. Feb. 1968. 281.8 L93  
Costs.
- 78434 SZABO, L. The dam of Kiskoros and its irrigation systems. (Hu) Magyar Mezogazdasag 23(9):12-13, map. Feb. 28, 1968. 19 M27
- 78435 SZECHY, K. A contribution to the theory of lowering of ground-water level. Water Econ. [Selec. Articles] 20(7):201-215. 1966. (TT 63-11363) HD1697.P7S4  
Translation from Gospodarka Wodna 20(7): 296-301. 1960.  
Issued by CFSTI.
- 78436 SZIKI, G. Water system within the farm. (Hu) Magyar Mezogazdasag 23(7):12-13. Feb. 14, 1968. 19 M27  
Irrigation canals and overhead irrigation.
- 78437 TAKUSHKI, S. Project for irrigating the Jordan Valley. Water Econ. [Selec. Articles] 20 (10):507-514, map. 1966. (TT 63-11363) HD1697.P7S4  
Translation from Gospodarka Wodna 20(10): 453-455. 1960.  
Issued by CFSTI.
- 78438 TARAN, V. Operational peculiarities of electric motors of submerged pumps. (Rus) Tekh. Sel'skom Khoz. 4:36-37. 1968. 58.8 M11  
Irrigation equipment.
- 78439 THIELE, H. The cleaning of drainage pipes with simple measures. (Ge) Chem. Tech. Landwirt. 19(3):79-80. 1968. 384 C4292
- 78440 TRUTNEV, G. A. The reclamation of waste lands and building up of their fertility. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 1:40-48. 1968. 20 V633  
English summary.
- 78441 TURESHEV, O. T., and RYABININA, E. V. Irrigation regime of seed sugar beets. (Rus) Sakh. Svekla 4:29-30. Apr. 1968. 66.8 Su393
- 78442 U. S. CONGRESS. HOUSE. COMMITTEE ON INTERIOR AFFAIRS. Mid-state Reclamation Project, Nebraska. Hearings—Ninetieth Congress, first session on H.R. 345 and H.R. 427 to authorize the Secretary of the Interior to construct, operate, and maintain the Nebraska Midstate Division, Missouri River Basin Project, and for other purposes, May 16 and 18, 1967. Washington, 1967. 102 p. PREP 1087
- 78443 U. S. CONGRESS. HOUSE. COMMITTEE ON INTERIOR AND INSULAR AFFAIRS. Colorado river basin project. Hearings—Ninetieth Congress, first session on H.R. 3300 and similar bills to authorize the construction, operation, and maintenance of the Colorado River Basin Project, and for other purposes, S. 20 and similar bills to provide for a comprehensive review of national water resource problems and programs, and for other purposes, March 13, 14, 16, and 17, 1967. Washington, 1967. 690 p. PREP 1084  
Irrigation and flood control included.
- 78444 U. S. CONGRESS. HOUSE. COMMITTEE ON INTERIOR AND INSULAR AFFAIRS. Water resources research. Hearings—Eighty-ninth Congress, Second session on H.R. 3606 and S. 22 and related bills, to promote a more adequate national program of water research, February 14, and 15, and 18, 1966. Washington, 1966. 195 p. PREP 1154
- 78445 U. S. CONGRESS. HOUSE. COMMITTEE ON PUBLIC WORKS. Additional monetary authorization for certain river basin plans. Hearings—Ninetieth Congress, first session on H.R. 8363, March 20, 21, and 22, 1967. Washington, 1967. 61 p. PREP 1080  
Includes flood control.



- 78446 U. S. CONGRESS. SENATE. COMMITTEE ON INTERIOR AND INSULAR AFFAIRS. Oahe Unit, Missouri River Basin Project. Hearings—Ninetieth Congress, first session on S. 6 a bill to authorize the Secretary of the Interior to construct, operate, and maintain the first stage of the Oahe Unit, James Division, Missouri River Basin project, South Dakota, and for other purposes. Washington, 1967. 231 p. PREP 1983
- 78447 U. S. SOIL CONSERVATION SERV. Conservation and the water cycle. U. S. D. A. Agr. Inform. Bull. 326, 8 p.-folder. 1967. 1 Ag84Ab
- 78448 USMANBEKOV, N. Irrigation and fertilization of potatoes. (Rus) Kartofel' Ovoshchi 1:5. Jan. 1968. 75.8 K147
- 78449 VAZQUEZ, R., and ORTIZ VELEZ, J. Drainage and ground-water research in Lajas Valley, Puerto Rico. P. R. (Rio Piedras) Agr. Exp. Sta. Bull. 206, 66 p., map. Sept. 1967. 100 P83
- 78450 VERMES, L. Sewage irrigation in winter. (Hu) Magyar Mezogazdasag 23(8):12-13. Feb. 21, 1968. 19 M27
- 78451 VINOKUR, E. YA., and others. Automated sprinkling. (Rus) Gidrotekh. Melior. 1:33-40. Jan. 1968. 290.8 G362  
A. B. Dvorkin, A. N. Ievlev, A. I. Landsman, and A. A. Nikol'skaya, joint authors.
- 78452 WATER economy; selected articles. Water Econ. [Selec. Articles] 20(2/12):706 p. 1966. (TT 63-11363) HD1697.P7S4  
Translation from Gospodarka Wodna 20 (2/12). 1960.  
CFSTI: \$10.00.
- 78453 WATTS, D. G., and others. Consumptive use and net irrigation requirements for Oregon. Oreg. Agr. Exp. Sta. Circ. Inform. 628, 40 p., map. Mar. 1968. 100 Or3C  
C. R. Dehlinger, J. W. Wolfe, and M. N. Shearer, joint authors.  
Oregon State Water Resources Board; and Oregon State University Federal Cooperative Extension Service, cooperating.
- 78454 WESSELS, W. P. J., and STRELKOFF, T. Established surge on an impervious vegetated bed. Amer. Soc. Civil Eng. J. 94(IR1, Proc. Paper 5832):1-22. Ref. Mar. 1968. 290.9 Am3Ps  
Flood irrigated system.
- 78455 WHEN salt takes over. S. Australia J. Agr. 71 (8):266-272, map. Mar. 1968. 23 So84  
Reclamation.
- 78456 WHETHAM, E. H. Sectoral advance in English agriculture 1850-80: a summary. Agr. Hist. Rev. 16(1):46-48. 1968. 30.98 Ag82  
Drainage of clay soils for the improvement of production.
- 78457 WILLIAMSON, R. E. Effect of water table depth and method of watering on yield of string-beans. Agron. J. 60(2):242-244. Mar./Apr. 1968. 4 Am34P
- 78458 WRIGHT, J. Some factors affecting water penetration. Queensland. Bur. Sugar Exp. Sta. Cane Growers' Quart. 31(3):86-88. Jan. 1, 1968. 65.9 Q3C  
Furrow irrigation in relation to soil properties and tillage.
- 78459 ZAPARII, M. P. Use of ground water for irrigation. (Rus) Gidrotekh. Melior. 1:48-56. Jan. 1968. 290.8 G362
- 78460 ZIEGLER, L. W. Is it wise to invest in irrigation now? Citrus Indus. 49(3):18-19. Mar. 1968. 80 C49
- 78461 ZIEMNICKI, S. Erosion-control measures on a farm field at Weglinek. Water Econ. [Selec. Articles] 20(7):253-263, map. 1966. (TT 63-11363) HD1697.P7S4  
Translation from Gospodarka Wodna 20(7):333-336. 1960.  
Issued by CFSTI.
- 78462 ZIEMNICKI, S. Example of an amelioration solution on a strip meadow. Water Econ. [Selec. Articles] 20(2/12):177-182. 1966. (TT 63-11363) HD1697.P7S4  
Drainage and erosion control.  
Translation from Gospodarka Wodna 20(6):283-284. 1960.  
Issued by CFSTI.
- Erosion and Erosion Control**
- 78463 BURNS, H. The soil conservation approach to forestry. Forest Farmer 27(8):25, 28. Apr. 1968. 99.8 F7692  
Chiefly on soil conservation activities in Florida.
- 78464 CHAKVETADZE, E. A. Vetroviya eroziya temno-kashtanovykh supeschanykh pochv Severnogo Kazakhstana [Wind erosion on dark-Chestnut-sandy soils in the northern Kazakhstan]. Moskva, Nauka, 1967. 142 p. S625.K3C45  
Bibliography, p.134-141.
- 78465 DRAGOUN, F., and KUHLMAN, A. R. Effect of pasture management practices on runoff. J. Soil Water Conserv. 23(2):55-57. Mar./Apr. 1968. 56.8 J822  
Chiefly on the effectiveness of contouring in Nebraska.
- 78466 DRULLINGER, R. H., and SCHMIDT, B. L. Wind erosion problems and controls in the Great Lakes region. J. Soil Water Conserv. 23 (2):58-59. Mar./Apr. 1968. 56.8 J822
- 78467 DYRNESS, C. T. Grass-legume mixtures for roadside soil stabilization. U. S. Forest Serv. Res. Note PNW-71, 19 p. Dec. 1967. A99.9 F7625U  
Soil erosion control in Oregon.
- 78468 FITZGERALD, K. The Ord River catchment regeneration project. 1. The nature, extent and causes of erosion in the Ord River catchment area. West. Australia. Dep. Agr. J. (ser. 48) (11):446-448, 451-452, map. Nov. 1967. 23 W52J
- 78469 MANNERING, J. V., MEYER, L. D., and JOHNSON, C. B. Effect of cropping intensity on erosion and infiltration. Agron. J. 60(2):206-209. Ref. Mar./Apr. 1968. 4 Am34P  
Includes corn-pasture rotation.
- 78470 MILOS, H. Soil erosion in Czechoslovakia. Water Econ. [Selec. Articles] 20(8):297-312. 1966. (TT 63-11363) HD1697.P7S4  
Translation from Gospodarka Wodna 20(8):359-365. 1960.  
Issued by CFSTI.
- 78471 OBRACZKA, R. Soil erosion and land improvement in Kielce Voivodeship. Water Econ. [Selec. Articles] 20(12):695-706. 1966. HD1697.P7S4  
Translation from Gospodarka Wodna 20(12):561-564. 1960.  
Issued by CFSTI.
- 78472 OSTROWSKI, S., and KOCAN, T. Water soil erosion control in Yugoslavia. Water Econ. [Selec. Articles] 20(12):667-678. 1966. (TT 63-11363) HD1697.P7S4  
Translation from Gospodarka Wodna 20(12):540-544. 1960.  
Issued by CFSTI.
- 78473 PUTNAM COUNTY. SOIL CONSERVATION DISTRICT. 1967 annual report. Cookeville, 1968. 48 p. 56.9 P98
- 78474 SHIVEBS, G. I. Materials on studying the eroding action of water drops. (Rus) Pochvovedenie 2:133-141. Feb. 1968. 57.8 P34  
English summary.
- 78475 TAKEDA, S. Movement of sub-surface flow from forest area and mechanism that affects soil erosion. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.1:298-318. 1967. 99.9 In82
- 78476 TUBB, R. A., and SHARP, R. W. Aging of our lakes. S. Dak. Farm Home Res. 19(1):25-26. Winter 1968. 100 So82S  
Control by soil conservation and disposal of industrial waste.

- 78477 U. S. SOIL CONSERVATION SERV. Sediment; it's filling harbors, lakes, and roadside ditches. U. S. D. A. Agr. Inform. Bull. 325,15 p. Dec. 1967. 1 Ag84Ab
- 78479 VISOTSKIS, O. A. Some physical and chemical properties of eroded soils of Lithuanian SSR. (Rus) Pochvovedenie 2:141-148. Feb.1968. 57.8 P34  
English summary.  
Includes control.
- 78479 WAY, W. A. Grass makes better ski slopes. Vt. Farm Home Sci. 10(2):6-7. Winter 1968. 100 V593  
Chiefly soil erosion control.

#### Sanitation

- 78480 BARDSLEY, C. E., SAVAGE, K. E., and WALKER, J. C. Trifluralin behavior in soil. II. Volatilization as influenced by concentration, time, soil moisture content, and placement. Agron. J. 60(1):89-92. Ref. Jan./Feb.1968. 4 Am34P
- 78481 FISHER, L. E. Plant fumigation techniques improving. Tobacco [New York] 166(2):12-14. Jan.12,1968. 286.89 T552  
Tobacco seed bed soil fumigation.
- 78482 FORMIDGE, C. G. L., HILL, A. C., and OSGERBY, J. M. Physico-chemical aspects of the availability of pesticides in soil. II. Controlled release of pesticides from granular formulations. J. Sci. Food Agr. 19(2):91-95. Feb.1968. 382 So12
- 78483 HURLE, K. Quantitative and qualitative determination of dinitro-o-cresol (DNOC) in the soil. (Ge) Z. Pflanzenkr. (Pflanzenpathol.) Pflanzenschutz 75(1):29-32. Ref. Jan.1968. 464.8 Z3  
English summary.
- 78484 NALEWAJA, J. D. Dissipation of atrazine residues in North Dakota soils. N. Dak. Farm Res. 25(3):3-5. Jan./Feb.1968. 100 N813E
- 78485 POLYAKOV, I. M., and others. Sanitation of soils with vapam. (Rus) Zashch. Rast. 2:7-8. 1968. 421 Z1  
M. E. Vladimirskaia, M. N. Il'na, and M. D. Olikier, joint authors.

#### MATERIALS FOR SOIL IMPROVEMENT

##### Chemical Fertilizers

- 78486 DALE, J. M. Sulphur sources of the future. II. Agr. Chem. 23(2):19-21. Ref. Feb.1968. 381 Ag8  
For fertilizer.
- 78487 KUBIT, E. Resources of ammonia water in the light of economic research. (Pol) Nowe Roln. 17(4):10-13. Feb.16/29,1968. 20.5 N86
- 78488 RUDOLPH, W. Ammonium sulfate. (Ge) Chem. Tech. Landwirt. 19(3):85-86. 1968. 384 C4292  
Fertilizer.

##### Fertilizer Technology and Statistics

- 78489 ANDO, J., and LEHR, J. R. Compounds in nitric phosphates. J. Agr. Food Chem. 16(3):391-398. Ref. May/June 1968. 381 J8223
- 78490 BARKER, J. E. Stoichiometry of the volumetric ammonium phosphomolybdate method for P<sub>2</sub>O<sub>5</sub>. Ass. Offic. Anal. Chem. J. 50(3):712-713. June 1967. 381 As7  
In fertilizers.
- 78491 BROWN, M. L., GREEN, A. W., and BLANTON, L. Stabilizing ammonium nitrate against crystalline change. J. Agr. Food Chem. 16(3):373-377. Ref. May/June 1968. 381 J8223  
In fertilizers.
- 78492 CURTIS, L. F. Attitude: an integral part of safety. Agr. Nitrogen News 17(4):37. July/Aug.1967. 381 Ag82  
Use of anhydrous ammonia.
- 78493 DUMONT, R. A world strategy for fertilizers; give away fertilizer factories to the developing countries? FAO (Food Agr. Organ.) Rev. 1(1):42-46. Jan./Feb.1968. TX341.F63
- 78494 FERTILISER MANUFACTURERS ASSOCIATION LTD. Fertiliser statistics, 1967. London, 1968. 28 p.,map. 286.84 F41
- 78495 FRAZIER, A. W., and LEHR, J. R. A new calcium nitrate phosphate CaH<sub>2</sub>NO<sub>3</sub>PO<sub>4</sub>-H<sub>2</sub>O. J. Agr. Food Chem. 16(3):388-390. Ref. May/June 1968. 381 J8223  
Fertilizer.
- 78496 GEISSLER, P. R. Hygroscopicity of complex fertilizers; determination of critical relative humidity of multicomponent systems. J. Agr. Food Chem. 16(3):378-383. Ref. May/June 1968. 381 J8223
- 78497 GRISSE, R. D., and KIMBROUGH, H. L. Suspension fertilizers running hot in Louisiana. Fert. Solutions 12(2):36-38. Mar./Apr.1968. 57.8 So4
- 78498 HANNA, J. G. Report on inspection and analysis of commercial fertilizers, 1966. Conn. Agr. Exp. Sta. Circ. 229,10 p. Apr.1968. 100 C76St
- 78499 HOPKINS, D. P. Fertilisers. Chem. Age 98 (2532):xxxi-xxxii,xxxiv. Jan.27,1968. 382 C427  
Survey.
- 78500 JALASS, G. Determination of cost prices in the transportation of solid mineral fertilizers. (Ge) Deut. Agrartech. 18(2):85-86. Feb.1968. 58.8 D482
- 78501 LATHAM, R. L., and GEISSLER, P. R. Hygroscopicity of complex fertilizers; effect of calcium nitrate and water concentrations on critical relative humidity of ammonium nitrate-limestone. J. Agr. Food Chem. 16(3):384-387. May/June 1968. 381 J8223
- 78502 ROHE, D. Spain's nitrogen industry needs a modern agriculture. (Ge) Chem. Ind. [Frankfurt] 20(2):78-80. Feb.1968. 384 C4222  
Fertilizer industry and consumption.
- 78503 ROOSEN, D. VAN. New-low-cost process for elemental sulfur. Farm Chem. 131(4):48-49. Apr.1968. 57.8 Am3
- 78504 SMITH, A. M. Pulverized limestone—tonnage used versus estimated needs for 1966. Com. Fert. Plant Food Indus. 116(2):14,16-17. Feb. 1968. 57.8 C73
- 78505 SOUTH CAROLINA. AGRICULTURAL EXPERIMENT STATION. Inspection and analysis of commercial fertilizers, 1966-67. S. C. Agr. Exp. Sta. Bull. SB 536,48 p. Nov.1967. 100 So8
- 78506 STUFFLEBAM, J. Recent Federal order will cause changes. Agr. Nitrogen News 18(2):54,56. Mar./Apr.1968. 381 Ag82  
Transportation of ammonia.
- 78507 WALSH, L. M. How much fertilizer is profitable? Hoard's Dairyman 113(8):523,554. Apr.25,1968. 44.8 H65
- 78508 WHITE, L. The economics of fertilizer use in Arkansas. Ark. Univ. Ext. Leaflet. 420,12 p.-folder. Jan.1968. 275.29 Ar4Le
- 78509 WHITTINGTON, J. Bulk blend economics. Agr. Chem. 23(2):22,24-26. Feb.1968. 381 Ag8  
Fertilizers.
- 78510 WILBANKS, J. A. Suspensions and slurries. Agr. Chem. 22(9):37-38,40,44. Sept.1967. 381 Ag8  
Fertilizer manufacture.

##### Manures and Composts

- 78511 CHEEMA, A. S. India develops urban compost-sewage use plan. Compost Sci. 8(2):13-15. Autumn 1967/Winter 1968. 57.8 C734
- 78512 HAMPL, A. Composting wastes in Czechoslovakia. Compost Sci. 8(2):27-29. Autumn 1967/Winter 1968. 57.8 C734
- 78513 HEIM, W. Barn manure, its care and importance. (Ge) Lebendige Erde 1:9-11. Jan./Feb. 1968. 18 L49



- 78514 IBBOTSON, H. Compost from earthworms. *Org. Gard. Farming* 15(2):40-42. Feb.1968. 57.8 Or32
- 78515 KALININ, V. Conveying manure by pipes with compressed air. (Rus) *Tekh. Sel'skom Khoz.* 2:25-28. 1968. 58.8 M11  
Liquid manure.
- 78516 KOLB, L. P. Municipal composting: some economic considerations. *Compost Sci.* 8(2): 9-11. Autumn 1967/Winter 1968. 57.8 C734
- 78517 OLDS, J. What's the best way to sell compost? *Compost Sci.* 8(2):3-4. Autumn 1967/Winter 1968. 57.8 C734
- 78518 UEMURA, O., and others. Studies on biological treatment of livestock excreta with special reference to removal of ammoniac nitrogen from media by zooglea-forming bacteria. (Ja) *Jap. Vet. Med. Ass. J.* 20(6):33-35. June 1967. 41.9 J275  
T. Kitabatake, S. Furui, and I. Uriu, joint authors.  
Handling of manure.





**MISCELLANEOUS**

Publications of the U. S. Department of Agriculture, State Agricultural Experiment Stations, and State Agricultural Extension Services on home management, personnel, and other subjects not ordinarily covered in the Bibliography of Agriculture will be included in this list.

**GENERAL**

- 78519 AMERICAN VEGETABLE GROWER. What's new in pesticides? Amer. Veg. Grower 16(3): 14,16. Mar.1968. 80 C733
- 78520 BRINKLEY, P. C. Pesticide chemicals; the magic of modern farming. Nat. Agr. Chem. Ass. News Pesticide Rev. 26(4):3-4. Apr.1968. 421 Ag8 Industry.
- 78521 BROWN, E. E., CULVER, D. W., and ROSE, B. B. Potentials for growth in Georgia's food, forest, and recreation industries. Ga. Agr. Exp. Sta. Res. Rep. 10,38 p. Ref. Sept.1967. S51.E22
- 78522 CAVENDER, N. Tragedy and hope: pesticide accidents. Farm Quart. 23(3):44-45. Summer 1968. 6 F22995
- 78523 CLEPPER, H. The first White House Conference on Natural Resources. Amer. Forests 74 (5):28-31,50-51. May 1968. 99.82 F762
- 78524 DE FREITAS, SIR. G. The Council of Europe and nature conservation. Mediterranea 18:79-82. Feb.1968. 281.8 M462
- 78525 DENMARK, K. L. Healthful living in an emergency; fact sheet. Tex. Agr. Mech. Univ. Ext. L-713,2 p. July 1967. 275.29 T313
- 78526 DENMARK, K. L. Human emotions in an emergency; fact sheet. Tex. Agr. Mech. Univ. Ext. L-715,2 p. July 1967. 275.29 T313
- 78527 DENMARK, K. L. Understanding nuclear radiation; fact sheet. Tex. Agr. Mech. Univ. Ext. L-714,2 p. July 1967. 275.29 T313 Includes civilian defense.
- 78528 DENMARK, KEMIKALIEKONTROLLEN. The Chemical Control Board in the fiscal year 1966-67. (Da) Tidsskr. Planteavl 71(4):538-552. 1968. 11 T439.
- 78529 EICHERS, T., and others. Quantities of pesticides used by farmers in 1964. U. S. D. A. Agr. Econ. Rep. 131,37 p. Jan.1968. A281.9 Ag8A P. Andrienas, R. Jenkins, and A. Fox, joint authors.
- 78530 EYAMA, M. Ethics between man and nature. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.7:401-405. 1967. 99.9 In82 Conservation vs. recreation.
- 78531 FRANKEL, E. N., SELKE, E., and GLASS, C. A. Homogenous 1,4 addition of hydrogen catalyzed by tricarbonyl (arene) chromium complexes. Amer. Chem. Soc. J. 90(9):2446-2448. Apr.24,1968. 381 Am33J
- 78532 FREED, V. Effective spraying. Agr. Chem. 23(2):39-40,42. Feb.1968. 381 Ag8 Economic poisons.
- 78533 GOODWIN, W. J. Role of agricultural experiment stations in environmental health. n.p., n.d. 5 p. PREP 613 Includes air pollution and food protection.
- 78534 GUREVICH, G. P., and KRASIL'SHCHIKOV, M. I. Safety measures, by handling economic poisons in the storage. (Rus) Zashch. Rast. 2: 34-36. 1968. 421 Z1
- 78535 GUTERMUTH, C. R. Federal funding for conservation programs. J. Soil Water Conserv. 23 (2):43-46. Mar./Apr.1968. 56.8 J822
- 78536 HANSEN, C. M. Granular pesticide metering, a new concept. Mich. Agr. Exp. Sta. Quart. Bull. 50(3):324-330. Feb.1968. 100 M58S
- 78537 HOCKENHULL, D. J. D., ed. Progress in industrial microbiology. Volume 6. London, Heywood Books, 1967. 281 p. Ref. 448.2 H653
- 78538 INTERNATIONAL CONGRESS OF PURE AND APPLIED CHEMISTRY, 21, PRAGUE, 1967. Abstracts of papers. Prague, 1967? 3 v. Ref. QD1.151 1967.
- 78539 IRVING, G. W. Pest control, its growing significance here and abroad; talk before the University of Florida Pest Control Conference, Gainesville, February 27, 1968. U. S. Agricultural Research Service, 1968? 8 p. 1.913 A2Ir8
- 78540 JAIN, N. C., and GUPTA, R. C. Utilisation of industrial, agricultural and forest waste. Indian Forest. 94(1):118-126. Jan.1968. 99.8 In2
- 78541 JONES, F. C. The influence of color on heat absorption. Ariz. Agr. Exp. Sta. Rep. 246,12 p. Jan.1968. 100 Ar4M
- 78542 JORDAN, E. F., ARTYMYSHYN, B., and WRIGLEY, A. N. Chain transfer for vinyl monomers polymerized in N-allylstearamide. J. Polymer Sci. Part A-1, Polymer Chem. 6(3):575-588. Ref. Mar.1968. QD471.J6
- 78543 KADOUM, A. M. Application of the rapid micro-method of sample cleanup for gas chromatographic analysis of common organic pesticides in ground water, soil, plant and animal extracts. Bull. Environ. Contamination Toxicol. 3(2):65-70. Mar./Apr.1968. RA1270.P35A1
- 78544 KOBRITS, G. A. Be careful with mercuric economic poisons! (Rus) Zashch. Rast. 3:31-32. 1968. 421 Z1
- 78545 KOCHEREZHNIKIN, V. G. Basic achievements in the field of agricultural chemistry during the 50 years of the Soviet rule. (Rus) Akad. Nauk SSSR. Izv. Ser. Biol. 1:162-167. Jan./Feb.1968. 511 Sa2B
- 78546 KOMAREK, E. V. Fire—and the ecology of man. Tall Timbers Fire Ecol. Conf. Proc., 6th Annu. Conf.:143-170. 1967. 99.9 T142 Bibliography, p.165-170.
- 78547 KONASHEVICH, V. A., and KITAEV, S. P. A list of economic poisons for 1968. (Rus) Zashch. Rast. 3:32-34. 1968. 421 Z1
- 78548 KORCHAGIN, V. N. Preparations used for protection of plants. (Rus) Zashch. Rast. 2: 39-41. 1968. 421 Z1 Economic poisons.
- 78549 KORCHAGIN, V. N. Proper application of economic poisons. (Rus) Sadovodstvo 3:37. Mar.1968. 80 Sa13 Refers to hazards.
- 78550 LAMADE, W. Potatoes/chemicals. Agr. Chem. 23(4):64,66. Apr.1968. 381 Ag8 Growing demand for fertilizers and pesticides.
- 78551 LANDEBOUWGIDS [Agricultural guide], 1968. Utrecht, 1967. 496 p. 12 L239 Library has also issue for 1967, 488 p.
- 78552 LAYCOCK, G. The rancher and the condors. Farm Quart. 23(3):74,86. Summer 1968. 6 F22995 Protection in California.
- 78553 LOFGREN, J. A., and CUTKOMP, L. K. Insecticides and their uses in Minnesota, 1968. Minn. Univ. Ext. Bull. 263, rev., 36 p. Mar. 1968. 275.29 M66S
- 78554 MEEKS, R. L. The accumulation of C136 ring-labeled DDT in a freshwater marsh. J. Wildlife Manage. 32(2):376-398. Ref. Apr.1968. 410 J827
- 78555 MITRUKA, B. M., and ALEXANDER, M. Rapid and sensitive detection of bacteria by gas chromatography. Appl. Microbiol. 16(4):636-640. Apr.1968. 448.3 Ap5 Of agricultural significance.
- 78556 PRICE, J. D. Poisoning first aid guide. Tex. Agr. Mech. Univ. Ext. L-696,6 p.-folder. Jan.1967. 275.29 T313 Texas Medical Association, cooperating.
- 78557 ROHRMAN, D. F. Pesticide laws and legal implications of pesticide use. I. Food Drug Cosmet. Law J. 23(3):142-161. Ref. Mar.1968. 389.58 F732

- 78558 ROHRMAN, D. F. Pesticide laws and legal implications of pesticide use. II. Food Drug Cosmet. Law J. 23(4):172-184. Apr. 1968. 389.58 F732
- 78559 ROSS, H. H. Relationships between vegetation, insects, and wildlife. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.7:218-226, map. 1967. 99.9 In82 Ecology.
- 78560 ROY, E. P. Establishing branch farm supply stores. La. Rural Econ. 30(1):7-9. Feb. 1968. 281.8 L93
- 78561 SMITHSONIAN INSTITUTION. Smithsonian year 1967; annual report for the year ended June 30, 1967, including the financial report of the Executive Committee of the Board of Regents. Washington, 1967. 515 p. 500 Sm6S
- 78562 SOCIETY FOR INDUSTRIAL MICROBIOLOGY. Developments in Industrial Microbiology. Volume 9; proceedings of the twenty-fourth general meeting of the Society for Industrial Microbiology, London, Ontario, August 14-17, 1967. Washington, D. C. 1968. 482 p. Ref. 448.3 D49
- 78563 SOUTHERN RHODESIA. MINISTRY OF AGRICULTURE. Report of the Secretary of Agriculture for the period 1st October, 1965, to 30th September, 1966. Salisbury, 1967. 75 p., map. Ref. 24 R3463
- 78564 STAPLETON, G. Conservation for sixth graders. Amer. Forests 74(4):27-29, 52. Apr. 1968. 99.8 F762 Oregon.
- 78565 SWIFT, E. Trees for Tomorrow. II. Amer. Forests 74(5):32-35. May 1968. 99.82 F762 A natural resources conservation program.
- 78566 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Miscellaneous. Hearings—Ninetieth Congress, first session on H. R. 2375 cropland adjustment program agreements; H. R. 8077 and H. R. 8656 convey lands to the city of Glendale, Arizona; H. Con. Res. 90 and H. Con. Res. 413 World Farm Center; H. R. 10864 conveyance of lands in Saline County, Arkansas; S. 2195 delivery of rice marketing excess to Commodity Credit Corporation. Washington, 1967. 45 p. PREP 2149
- 78567 U. S. CONGRESS. HOUSE. COMMITTEE ON APPROPRIATIONS. Department of Agriculture appropriations for 1969. Hearings, 90th Cong., 2d sess. Part 4. Washington, 1968. 645 p. 1 Ag81Hes
- 78568 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. Your home & safe use of pesticides; facts about pest control. Rev. Washington, D. C., 1967. 4 p. ATP248.P47U5 1967
- 78569 USPENSKII, I. I. Economic poisons in the small packages. (Rus) Zashch. Rast. 2:43. 1968. 421 Z1
- 78570 USPENSKII, I. I. Improving supply of economic poisons. (Rus) Zashch. Rast. 4:44. 1968. 421 Z1
- 78571 WHERE to buy everything for agriculture and horticulture. No. 18, 1968 edition. London, "Where to Buy" Ltd., 1968. 155 p. 225 W57
- 78572 ZAIKIN, B. A. Assortment of economic poisons in the German Democratic Republic. (Rus) Zashch. Rast. 4:53-54. 1968. 421 Z1
- BIOGRAPHY**
- 78573 ABRAMOVA, T. G., and LIPATOVA, V. V. Eightieth birth anniversary of I. D. Bogdanovskaya-Gienef. (Rus) Bot. Zhur. [Moscow] 52(2):283-286. Feb. 1967. 451 R923 Includes list of publications.
- 78574 AKHUNDOV, G. F., and PRILIPKO, L. I. Ivan Ivanovich Karyagin (1894-1966). (Rus) Bot. Zhur. [Moscow] 53(1):117-120. Jan. 1968. 451 R923 Includes list of publications.
- 78575 ANNIVERSARY of I. M. Kodanov. (Rus) Zemledelie 4:47. Apr. 1968. 20 Z44
- 78576 ARTHUR Hawkins honored. Amer. Potato J. 45(2):80. Feb. 1968. 75.8 P842 By the Connecticut Potato Industry Committee, Incorporated for "twenty years outstanding service to the potato industry."
- 78577 AUERBACH, C. Obituary notes; H. J. Muller 1890-1967. Mutation Res. 5(2):207. Mar./Apr. 1968. 443.8 M98
- 78578 BARBARICH, A. I., and KHARKEVICH, S. S. Mikhail Ivanovich Kotov (70th birthday). (Rus) Bot. Zhur. [Moscow] 52(2):286-293. Feb. 1967. 451 R923 Includes list of publications.
- 78579 BERGNER, H. In memory of the 120th birthday of Nathan Zuntz. (Ge) Arch. Tierernahr. 18(1):1-3. Feb. 1968. 389.78 Ar22
- 78580 BIDWELL, R. G. S. Gleb Krotkov, 1901-1968. Plant Physiol. 43(3):i. Mar. 1968. 450 P692
- 78581 BILLY R. Trimmer, D.V.M. Southwest. Vet. 21(3):243-244. Spring 1968. 41.8 So82
- 78582 BIOGRAPHICAL notes from the history of nutrition: Casimir Funk—February 23, 1864-November 14, 1967. Amer. Diet. Ass. J. 52(5):432. May 1968. 389.8 Am34
- 78583 BLUZMANAS, P. I., and MINKYAVICHUS, A. I. Sixtieth anniversary of I. K. Dagis. (Rus) Bot. Zhur. [Moscow] 53(3):402-406. 1968. 451 R923 Includes list of publications.
- 78584 BOGDANOVSKAYA, I. D., and TYUREMNOV, S. N. Seventieth birthday of D. A. Gerasimov. (Rus) Bot. Zhur. [Moscow] 53(3):398-401. 1968. 451 R923 Includes list of publications.
- 78585 BROWN, F. M. James Riding (1803-1880). Entomol. News [Philadelphia] 79(5):135-137. May 1968. 521 En88
- 78586 CENTENNIAL medals. Forest. Chron. 44(2):63-66. Apr. 1968. 99.8 F7623 Given by the Canadian Institute of Forestry to G. W. I. Creighton, K. G. Fensom, R. D. Loomis, F. Matte and M. L. Prebble.
- 78587 CHARLES Bartoli (1918-1967). (Fr) Rev. Forest. Franc. 2:135-137. Feb. 1968. 99.8 R329
- 78588 CINQ-MARS, L. Homage to a botanist, abbot Leon Provancher (1820-1892), founder of Naturalist Canadien. (Fr) Nature Can. 95(1):7-18. Ref. Jan./Feb. 1968. 410 N216
- 78589 COHRS. Prof. Dr. G. Pallaske of Giessen is 70 years old. (Ge) Tierarztl. Umsch. 23(4):184. Apr. 1, 1968. 41.8 T445
- 78590 COHRS. Prof. Dr. Georg Pallaske is 70 years old. (Ge) Berliner Munchener Tierarztl. Wochenschr. 81(8):168. Apr. 15, 1968. 41.8 B45
- 78591 COULTER, C. H. Robert C. Brent. Forest Farmer 27(8):26-27. Apr. 1968. 99.8 F7692
- 78592 DALMASSO, F. Francesco Londonio, a bucolic painter. (It) Ital. Agr. 105(2):183-189. Feb. 1968. 16 It1
- 78593 DR. CLYDE H. Bailey, 1887-1968. Cereal Sci. Today 13(5):207-208. May 1968. 59.8 C333
- 78594 EGGERT, O. K. Inventor of surgical instruments—Adolf von Rueff. (Ge) Tierarztl. Umsch. 23(4):166, 169-174. (Cont.) Apr. 1, 1968. 41.8 T445
- 78595 FLOYD L. Gunn, D.V.M. Southwest. Vet. 21(3):241-242. Spring 1968. 41.8 So82
- 78596 FLUNO, J. A., and WEIDHAAS, D. E. William Carl McDuffie, 1910-1967. J. Econ. Entomol. 61(2):590. Apr. 15, 1968. 421 J822
- 78597 FRENKEL, H. S. In memoriam Prof. Dr. Jacob van der Hoeden. (Du) Tijdschr. Diergeneesk. 93(7):476-478. Apr. 15, 1968. 41.8 T431
- 78598 FREUDE, H. Heinrich Wichmann (Jan. 16, 1889-Nov. 17, 1967). (Ge) Anz. Schädlingkunde 41(3):43. Mar. 1968. 421 An9
- 78599 FROHLICH, H. J. Rudolf Muller is 70 years old. (Ge) Forstarchiv 39(2):43-45. Feb. 1968. 99.8 F7723



- 78600 GOTTINGEN, UNIVERSITÄT. FORST-ZOOLOGISCHES INSTITUT. Professor Dipl.-Ing. Dr. Erwin Schimitschek on his 70th birthday. (Ge) Anz. Schädlingkunde 41(4):49-50. Apr.1968. 421 An9
- 78601 HADRICH, F. Professor Dr. Robert Ganssen is 65 years old. (Ge) Allg. Forst- Jagdzeitung 139(3):75. Mar.1968. 99.8 AL3
- 78602 HANAU, A., and RICHTER-ALTSCHAFER, J. H. Naum Jasny and his work. (Ge) Agrarwirtschaft 17(3):84-86. Mar.1968. 281.8 Ag826  
Includes list of publications.
- 78603 HANSSON, A. Pioneer in apiculture; Samuel Linnaeus. (Sw) Bitidningen 67(2):40. Feb. 1968. 424.8 B54
- 78604 HESLOP, I. R. P. Robert Dick centenary exhibition, Thurso, Saturday, 16th July 1966. Entomol. Rec. J. Variation 80(4):102-103. Apr. 1968. 421 En89  
Includes inaugural speech by Mr. Heslop.
- 78605 HONORARY doctorate given to Prof. Dr. M. K. Zacherl. (Ge) Wien. Tierarztl. Monatsschr. 55(2):115-122. Feb.1968. 41.8 T345
- 78606 HOWARD, T. M. In memoriam—Morris Walker Clint, 1903-1967. Plant Life 24:16. 1968. 450 P695
- 78607 IN MEMORY of Dr. Theodore C. Fitzgerald. Auburn Vet. 24(2):44-45. Winter 1968. 41.8 Aul
- 78608 IN MEMORY of N. A. Maisuryan. (Rus) Selek. Semenovodstvo 1:79. Jan./Feb.1968. 61.9 Se5
- 78609 IN MEMORY of N. D. Ierusalimskii. (Rus) Akad. Nauk SSSR. Izv. Ser. Biol. 1:175. Jan./Feb.1968. 511 Sa2B
- 78610 IN MEMORY of N. I. Kosarev. (Rus) Selek. Semenovodstvo 1:78. Jan./Feb.1968. 61.9 Se5
- 78611 IN MEMORY of N. L. Gerbil'skii. (Rus) Leningrad. Univ. Vestnik. Ser. Biol. 1:175-176. 1968. 442.9 L542V
- 78612 INDEFATIGABLE research worker (70th anniversary of academician of Lenin All-Union Academy of Agricultural Sciences [Vsesoyuznaya Akademiya Sel'skokhozyaistvennykh Nauk imeni V. I. Lenina], A. S. Yablokov). (Rus) Les. Khoz. 1:51. Jan.1968. 99.8 L5622
- 78613 JOHAN Lindset will be 60 years old. (No) Meieriposten 57(16):313. Apr.20,1968. 44.8 M47
- 78614 JONES, J. P., and KELSHEIMER, E. G. James Munday Walter, 1906-1967. Phytopathology 58(4):396. Apr.1968. 464.8 P56
- 78615 KAISER, A. Josef Bannwart, Bichelsee, February 2, 1885-July 12, 1967. (Ge) Schweiz. Bienen-Zeitung 91(1):31-32. Jan.1968. 424.8 Sch9
- 78616 KOBULEJ, T. Sandor Kotlan, founder of modern parasitology in Hungary. (Hu) Magyar Allatorv. Lapja 23(2):55-60. Feb.1968. 41.8 V644  
Includes list of publications.
- 78617 KONIG, Chief veterinarian Dr. [Wilhelm] Zieger is 60 years old. (Ge) Tierarztl. Umsch. 23(3):143. Mar.1,1968. 41.8 T445
- 78618 KORNBERG, H. L. Professor E. R. Redfearn. Nature 217(5135):1294. Mar.30,1968. 472 N21
- 78619 THE LATE Mr. J. M. Morris, M.R.C.V.S. Irish Vet. J. (n.s.)22(2):38. Feb.1968. 41.8 Ir4
- 78620 LECHNER, W. From the beginning of veterinary medicine; Dr. Ferdinand Bernhard Vietz (1772-1815). (Ge) Wien. Tierarztl. Monatsschr. 55(3):125-132. Ref. Mar.1968. 41.8 T345
- 78621 LEVINA, R. E. K. K. Zazhurilo. (Rus) Bot. Zhur. [Moscow] 53(3):407-409. 1968. 451 R923
- 78622 LINDQUIST, A. W. Daniel Cleveland Parman, 1885-1967. J. Econ. Entomol. 61(2):589. Apr.15,1968. 421 J822
- 78623 MAHAN, J. E. In memoriam—Edward Francis Authement, 1909-1967. Plant Life 24:17-19. 1968. 450 P695
- 78624 MALLIS, S. William Jacob Holland (1848-1932). Entomol. News [Philadelphia] 79(5):125-135. May 1968. 421 En88
- 78625 MINISTERIAL director Heinrich von Waechter is 65 years old. (Ge) Landtechnik 23(6):176-178. Mar.1968. 58.8 L235
- 78626 NUSBAUM, C. J. Luther Shaw, 1906-1965. Phytopathology 58(4):395. Apr.1968. 464.8 P56
- 78627 OBITUARY of Professor Dr. Sandor Kotlan, 1887-1967. Acta Vet. [Budapest] 18(1):1. 1968. 41.8 Ac83
- 78628 ORAZIO Querci, 1875-1967. Entomol. Rec. Variation 80(3):87-88. Mar.1968. 421 En89
- 78629 PORFIR'EV, V. S. Sergei Yakovlevich Sokolov (70th birthday). (Rus) Bot. Zhur. [Moscow] 53(1):121-130. Jan.1968. 451 R923  
Includes list of publications.
- 78630 PRESCOTT, G. W. G. Bernard Wilson (1914-1968). Amer. Microscop. Soc. Trans. 87(2):210-212. Apr.1968. 440.9 Am33  
Includes list of publications.
- 78631 PROFESSOR C. H. Parsons honored. J. Dairy Sci. 51(4):5. Apr.1968. 44.8 J822  
Alumni achievement award of the Department of Veterinary, Dairy and Animal Sciences of the University of Massachusetts.
- 78632 RADOJCEVIC, M. Seventieth birthday and fortytwo years of pedagogic and scientific activity of academician Dr. Cedimir Simic. (Se) Vet. Glas. 21(4):379-381. 1967. 41.8 J93
- 78633 RIECK, W. Prof. Dr. G. Eis of Heidelberg is 60 years old. (Ge) Tierarztl. Umsch. 23(4):185. Apr.1,1968. 41.8 T445
- 78634 RIECK, W. Professor Dr. Gerhard Eis is 60 years old. (Ge) Berliner Münchener Tierarztl. Wochenschr. 81(8):168. Apr.15,1968. 41.8 B45
- 78635 ROLLER, K. J. Tree breeding and introduction at Dropmore Manitoba; an appreciation of F. L. Skinner. Forest. Chron. 44(2):78-81. Apr. 1968. 99.8 F7623  
Obituary.
- 78636 RUBTSOV, V. I., and others. Prominent scientist. (Rus) Les. Khoz. 1:40. Jan.1968. 99.8 L5622  
N. P. Anuchin, A. D. Dudarev, E. S. Pavlovskii, V. P. Tsepelyaev, K. B. Lositskii, and A. Ya. Rodionov, joint authors.  
Aleksander V. Tyurin.
- 78637 RUSANOV, F. N. Ilaria Alekseevna Raikova (70th birthday). (Rus) Bot. Zhur. [Moscow] 53(1):130-138. Jan.1968. 451 R923  
Includes list of publications.
- 78638 SCHEUNEMANN, Chief veterinary director Dr. Leo Kiedrowski is 60 years old. (Ge) Berliner Münchener Tierarztl. Wochenschr. 81(5):99-100. Mar.1,1968. 41.8 B45
- 78639 SCHMIDT-VOGT, H. Professor Dr. [Ernst] Rohmeder is 65 years old. (Ge) Allg. Forst-Jagdzeitung 139(3):75-76. Mar.1968. 99.8 AL3
- 78640 SCHRODER, H. Professor Dr. Karl Jordan is 80 years old. (Ge) Entomol. Z. 78(7):78-79. Apr.1,1968. 421 En85
- 78641 SEVENTIETH anniversary of Professor G. L. Yukhnovskii. (Rus) Maslo-Zhir. Prom. 3:45. Mar.1968. 307.8 M37
- 78642 70TH BIRTHDAY and 45th anniversary of scientific and educational activities of S. I. Sokolov. (Rus) Pochvovedenie 2:163-164. Feb.1968. 57.8 P34
- 78643 SEVENTIETH birthday of Professor A. V. Nikolaev. (Rus) Pochvovedenie 3:139. Mar. 1968. 57.8 P34
- 78644 SEVENTY-FIFTH birthday anniversary of A. A. Markov. (Rus) Veterinariya 1:124. 1968. 41.8 V6426
- 78645 SHANOR, L. The career of John Nathaniel Couch. Elisha Mitchell Sci. Soc. J. 84(1):1-7. Spring 1968. 500 EL4  
Includes list of publications.

- 78646 SIXTIETH anniversary of Professor A.M. Goldovskii. (Rus) Maslo-Zhir. Prom. 3:45-46. Mar.1968. 307.8 M37
- 78647 SIXTIETH birthday anniversary of N. B. Ezo-vitov. (Rus) Veterinariya 1:124. 1968. 41.8 V6426
- 78648 STEIN Flata Garberg will be 50 years old. (No) Meieriposten 57(14/15):290-291. Apr.13, 1968. 44.8 M47
- 78649 STILL, G. W., and others. James Everett Bussart, 1903-1965. J. Econ. Entomol. 61(2): 588. Apr.15,1968. 421 J822  
J. M. Magner, C. C. Compton, L. L. Stitt, and F. O. Dodd, joint authors.
- 78650 SUVOROV, N. I., KUROCHKINA, L. YA., and UTKIN, V. V. Nikolai Ivanovich Rubtsov (60th birth anniversary). (Rus) Bot. Zhur. [Moscow] 52(2):293-299. Feb.1967. 451 R923  
Includes list of publications.
- 78651 TAYLOR, C. M. Grace MacLeod—a biographical sketch (August 6, 1878—November 16, 1962. J. Nutr. 95(1):207. May 1968. 389.8 J82
- 78652 TILLMANN, H. Diedrich Kust is 80 years old. (Ge) Tierarztl. Umsch. 23(3):99. Mar.1,1968. 41.8 T445
- 78653 TRYGVE Langslet will be 60 years old. (No) Meieriposten 57(16):309-310. Apr.20,1968. 44.8 M47
- 78654 ULRICH, B. Professor Dr. Alexander Mitscherlich. (Ge) Allg. Forst- Jagdzeitung 139(4/5): 105-106. Apr./May 1968. 99.8 AL3
- 78655 WEIGLE, C. G. David Gallus Milbrath, 1880-1965. Phytopathology 58(4):397. Apr.1968. 464.8 P56
- 78665 U. S. FEDERAL EXTENSION SERV. DIV. OF HOME ECONOMICS. Clean electric ranges for a clean house. U. S. D. A. PA-829,8 p. Oct. 1967. 1 Ag84Pro  
Auburn University Agricultural Extension Service, cooperating.
- 78669 U. S. FEDERAL EXTENSION SERV. DIV. OF HOME ECONOMICS. Clean gas ranges, for a clean house. U. S. D. A. PA-828,8 p. Oct.1967. 1 Ag84Pro  
Auburn University Agricultural Extension Service, cooperating.
- 78670 U. S. FEDERAL EXTENSION SERV. DIV. OF HOME ECONOMICS. Clean upholstered furniture, for a clean house. U. S. D. A. PA-827, 4 p. Oct.1967. 1 Ag84Pro
- 78671 U. S. FEDERAL EXTENSION SERV. DIV. OF HOME ECONOMICS. Get rid of bedbugs, for a clean house. U. S. D. A. PA-831,4 p. Oct.1967. 1 Ag84Pro  
Cimex lectularius.
- 78672 U. S. FEDERAL EXTENSION SERV. DIV. OF HOME ECONOMICS. Get rid of garbage and trash, for a clean house. U. S. D. A. PA-826, 4 p. Oct.1967. 1 Ag84Pro
- 78673 U. S. FEDERAL EXTENSION SERV. DIV. OF HOME ECONOMICS. Kill those flies, for a clean house. U. S. D. A. PA-832,4 p. Oct.1967. 1 Ag84Pro  
Auburn University Agricultural Extension Service, cooperating.
- 78674 U. S. FEDERAL EXTENSION SERV. DIV. OF HOME ECONOMICS. Kill those roaches, for a clean house. U. S. D. A. PA-833,4 p. Oct.1967. 1 Ag84Pro  
Auburn University Agricultural Extension Service, cooperating.

## HISTORY

- 78656 BEECHAM, H. A., comp. List of books and articles on agrarian history issued since September 1966. Agr. Hist. Rev. 16(1):54-59. 1968. 30.98 Ag82
- 78657 PINKETT, H. T. Federal agricultural records: preserving the valuable core. Agr. Hist. 43(2): 139-146. Apr.1968. 30.98 Ag8  
National Archives and Department of Agriculture.
- 78658 ROGERS, E. M. Books on agricultural history published in 1965. Agr. Hist. 43(2):147-152. Apr.1968. 30.98 Ag8
- 78659 ZUCCHINI, M. Ferrara agriculture across the centuries. (It) G. Agr. 78(15):189. Apr.14, 1968 16It1G

## HOME MANAGEMENT

- 78660 BAIERL, T. Jeans and wash slacks for children; buymanship series. Minn. Univ. Ext. Ext. Pam. 220,4 p. Feb.1967. 275.29 M66P
- 78661 EASTON, E. K. Accent on accessories. S. Dak. State Univ. Ext. FS 386,4 p. Jan.1968. 275.29 So85Fs
- 78662 HOFFMAN, D. S. Guidelines for international programs in home economics. J. Home Econ. 60(4):253-256. Apr.1968. 321.8 J82
- 78663 MANNING, S. L. Time use in household tasks by Indiana families. Ind. Agr. Exp. Sta. Res. Bull. 837,48 p. Jan.1968. 100 In2P
- 78664 U. S. FEDERAL EXTENSION SERV. Getting ready to wash—for clean clothes. U. S. D. A. PA-846,4 p. Feb.1968. 1 Ag84Pro
- 78665 U. S. FEDERAL EXTENSION SERV. A note to agents on clean clothes. U. S. D. A. PA-843, 2 p. Feb.1968. 1 Ag84Pro
- 78666 U. S. FEDERAL EXTENSION SERV. Program Aide's guide on clean clothes. U. S. D. A. PA-844,2 p. Feb.1968. 1 Ag84Pro
- 78667 U. S. FEDERAL EXTENSION SERV. DIV. OF HOME ECONOMICS. Clean beds, for a clean house. U. S. D. A. PA-830,4 p. Oct.1967. 1 Ag84Pro

## INTERNATIONAL RELATIONS

- 78675 HOUPHOUET-BOIGNY, F. The meaning of true international cooperation. FAO (Food Agr. Organ.) Rev. 1(1):18-20. Jan./Feb.1968. TX341.F63
- 78676 SEN, B. R. The FAO Review. FAO (Food Agr. Organ.) Rev. 1(1):16-17. Jan./Feb.1968. TX341.F63  
Introduction to the first issue of the publication.

## METEOROLOGY

- 78677 BARRETT, E. C. Viewing weather from space. New York, 1967. 140 p. Ref. (Praeger Monographs in Geography) QC879.5 B3  
Includes forecasting.
- 78678 CASSELMAN, T. W. 1967 climatological report. Fla. Everglades Exp. Sta. Mimeo Rep. EES 68-5,10 p. Jan.1968. 100 F663  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 78679 DICKERSON, W. H., CANFIELD, N. L., and HAVENS, A. V. Regional research in agricultural climatology in the northeastern United States; a ten-year summary, 1956-1966. West. Va. Agr. Exp. Sta. Misc. Publ. 4,8 p. 1967. S127.E2  
Northeast Regional Research Publication.
- 78680 GOETSCH, F. Does weather follow a pattern? Doane's Agr. Rep. 31(14):14-15. May 8,1968. 281.8 D652
- 78681 MILLER, M. E., and WEAVER, C. R. Monthly and annual precipitation probabilities for climatic divisions in Ohio. Ohio Agr. Res. Develop. Center. Res. Bull. 1005,11 p.,map. Mar. 1968. 100 Oh3S
- 78682 NORWAY. NORSKE METEOROLOGISKE INSTITUTT. Pentademidler for landbruket [Pentahedron averages for agriculture], 1967. Oslo, 1968. 52 p. 345 N832



- 78683 TAFI, P. H., and OVERPECK, J. C. Climate calendar, New Mexico State University, Las. Cruces, New Mexico 1851 to 1966. N. Mex. Agr. Exp. Sta. Res. Rep. 138, 15 p. Jan. 1968. 100 N465R

## RESEARCH

- 78684 AVANZI, E. Experimentation; observations on the reform. (It) G. Agr. 78(15):187-188. Apr. 14, 1968. 16 It1G  
Agricultural research.
- 78685 GEORGIA. AGRICULTURAL EXPERIMENT STATION. Serving Georgia through research; 1967 annual report, by S. Burgess, and T. Dalton. Athens, 1967. 115 p., map. 100 G293A
- 78686 INDIANA AGRICULTURAL EXPERIMENT STATION. Annual report; Purdue University Agricultural Experiment Station, July 1, 1966 to June 30, 1967. Lafayette, 1967? 40 p. 100 In2Br

## STATISTICS

- 78687 FINNEY, D. J. Teaching biometry in the university. Biometrics 24(1):1-12. Mar. 1968. 442.8 B5224
- 78688 INTERNATIONAL BIOMETRIC CONFERENCE, 6. SYDNEY, 1967. Abstracts of papers. Biometrics 24(1):203-238. Mar. 1968. 442.8 B5224  
Includes application to agriculture.
- 78689 POLITOVA, I. D., and others. Pratikum po obshchei i sel'skokhozyaistvennoi statistike [Handbook of general and agricultural statistics]. Moskva, Kolos, 1967. 512 p. HA29.P7
- 78690 RENFREY, A. W., and PFLAUM, P. Rural statistics. S. Australia J. Agr. 71(8):279-281. Mar. 1968. 23 So84  
Methods of collection.

## NEW PERIODICALS AND SERIALS

AUSTRALIAN DRIED FRUIT JOURNAL. v.1, No.15. Jan. 1967. Melbourne, Australian Dried Fruits Association. HD9258.A8A9

CENTRAL BANK OF THE PHILIPPINES. DEPT. OF RURAL BANKS. Annual report, 1965. Manila. HG2051.P5C6

CENTRE D'ETUDE ET DE DOCUMENTATION DES TRAVAUX RURAUX. Publication. No.2. Gembloux, 1962. TH4911.A1C4

L'EST AGRICOLE ET VITICOLE. v.1. Apr. 7, 1967. Strasbourg. S5.E8

FAO DOCUMENTATION. CURRENT INDEX. Rome, Food and Agriculture Organization of the United Nations. Documentation Center, 1967. Z7164.F7F6

FARM EQUIPMENT DIRECTORY. 1967. London, 1966. S673.F3

THE FOUNDATION DIRECTORY. 3d. New York, Russell Sage Foundation, 1967. AS911.A2F6

JAPAN. NORIN KEIZAIKYOKU. TOKEI CHO-SABU. Gyogyo yoshokugyo seisan tokei nenpo. No.9. 1965. Tokyo, 1967. 269.7 J274Agr

KAISETSU NOGOY HAKUSHO. Tokyo, Norin Tokei Kyokai, Norin tokei chosa. v.16, No.3. Mar. 1966. 22.5 M763

ORQUIDEOLOGIA. Medellin [Sociedad Colombiana de Orquideologia]. v.2, No.3. Apr. 1967. SB409.O7

PROGRESS IN THEORETICAL BIOLOGY. v.1. New York, 1967. QH301.P7

TECHNOLOGY. v.3, No.4. Oct./Dec. 1966. Sindri, Planning & Development Division, Fertilizer Corporation of India. TP963.A1T4

VETERINARIA. No.4. July/Sept. 1965. Rio de Janeiro. SF604.V45

VIERTELJAHRES-BERICHT: EIER. Oct./Dec. 1966. Bad Godesberg, Zentrale Mart- und Preisberichtsstelle der Deutschen Landwirtschaft, 1967. HD9284.E8V5

## TRANSLATIONS

Includes translations received in the Library during the preceding month. Except for articles in journals translated in full and received on subscription (starred items), the translations are included also in the classified section and indexed in the personal and subject indexes.

No copies are available for distribution. Photocopies may be ordered from the Library.

CEBULAK, K. Water balance in the low land. *Water Econ.* [Selec. Articles] 20(8):273-279. 1966. (TT 63-11363) HD1697.P7S4

Translation from *Gospodarka Wodna* 20(8): 351-353. 1960.  
Issued by CFSTI.

CHUDZYNSKI, M. Design of, and prefabricated elements for, typical structures in hydraulic improvement of land. *Water Econ.* [Selec. Articles] 20(9):423-429. 1966. (TT 63-11363) HD1697.P7S4

Translation from *Gospodarka Wodna* 20(9): 417-419. 1960.  
Issued by CFSTI.

DOBOSZYNSKI, L. Research on a few species of grasses grown for seed in mixtures with birdsfoot trefoil (*Lotus corniculatus* L.). *Water Econ.* [Selec. Articles] 20(9):451-453. 1966. (TT 63-11363) HD1697.P7S4

Translation from *Gospodarka Wodna* 20(9): 432. 1960.  
Issued by CFSTI.

DOSTAL, R. On integration in plants. Cambridge, Harvard University Press, 1967. 218 p. QK81.D62

Translation of O celistvosti rostliny.

FALKOWSKI, M., and KARLOWSKA, G. The effect of phosphate fertilization on the quantitative and qualitative composition of the sward on newly established meadow. *Water Econ.* [Selec. Articles] 20(2/12):338-340. 1966. (TT 63-11363) HD1697.P7S4

Translation from *Gospodarka Wodna* 20(8): 334. 1960.  
Issued by CFSTI.

FANTI, K. Water management in Egypt. *Water Econ.* [Selec. Articles] 20(5):103-109, map. 1966. (TT 63-11363) HD1697.P7S4

Translation from *Gospodarka Wodna* 20(5): 213-219. 1960.  
Issued by CFSTI.

GIERCZAK, J. Progress of works on the construction of the Wieprz-Krzna Canal. *Water Econ.* [Selec. Articles] 20(2/12):147-154. 1966. (TT 63-11363) HD1697.P7S4

Translation from *Gospodarka Wodna* 20(6): 258-260. 1960.  
Issued by CFSTI.

GRODZKI, J. Project for a composite solution of water management problems in the Lodz region. *Water Econ.* [Selec. Articles] 20(9): 379-395, map. 1966. (TT 63-11363) HD1697.P7S4

Translation from *Gospodarka Wodna* 20(9): 401-406. 1960.  
Issued by CFSTI.

HIBNER, J., and KUCHARSKI, M. Ground-water salinity in Ciechocinek lowland. *Water Econ.* [Selec. Articles] 20(10):455-468, map. 1966. (TT 63-11363) HD1697.P7S4

Translation from *Gospodarka Wodna* 20(10): 434-439. 1960.  
Issued by CFSTI.

KICINSKI, T. Base flow in the Warta drainage area. *Water Econ.* [Selec. Articles] 20(9):415-421. 1966. (TT 63-11363) HD1697.P7S4

Translation from *Gospodarka Wodna* 20(9): 414-416. 1960.  
Issued by CFSTI.

KICINSKI, T. Ground-water flow into rivers and how it is to be determined. *Water Econ.* [Selec. Articles] 20(10):469-476. Ref. 1966. HD1697.P7S4

Translation from *Gospodarka Wodna* 20(10): 439-441. 1960.  
Issued by CFSTI.

KOCZOROWSKA, J. Water conditions in a small lowland catchment area as illustrated by the Gasawka River. *Water Econ.* [Selec. Articles] 20(11):581-583. 1966. (TT 63-11363) HD1697.P7S4

Translation from *Gospodarka Wodna* 20(11): 507. 1960.

Issued by CFSTI.

KWAPISZEWSKI, J. Wieprz-Krzna Canal. *Water Econ.* [Selec. Articles] 20(2/12):141-145. 1966. (TT 63-11363) HD1697.P7S4

Translation from *Gospodarka Wodna* 20(6): 256-258. 1960.  
Issued by CFSTI.

LIWSKI, S. Microelements—manganese, iron, boron, copper, cobalt, zinc and molybdenum—in meadow and marsh vegetation. *Water Econ.* [Selec. Articles] 20(8):335-338. 1966. (TT 63-11363) HD1697.P7S4

Translation from *Gospodarka Wodna* 20(8): 383-384. 1960.  
Issued by CFSTI.

MALEJ, J. Abnormal variations of water level in the Slupia River and their influence on the biocenosis of that river. *Water Econ.* [Selec. Articles] 20(12):645-654. 1966. (TT 63-11363) HD1697.P7S4

Translation from *Gospodarka Wodna* 20(12): 531-534. 1960.  
Issued by CFSTI.

MARTIN, J. A., and SENN, T. L. The influence of various rates of nitrogen and humic acid derivatives on the growth and yield of greenhouse tomatoes. *S. C. Agr. Exp. Sta. Dep. Hort. Res. Ser.* 95, 7 p. Feb. 1967. SB21.S6

MATSUSHIMA, S. Crop science in rice; theory of yield determination and its application. Ed. 2. Tokyo, Fuji, 1967. 365 p. SB191.R5M323 1967

Translated from Japanese.

MATUL, K. The radiation and heat balance in Poland and its application to water economy in connection with the water balance. *Water Econ.* [Selec. Articles] 20(9):353-378, map. Ref. 1966. (TT 63-11363) HD1697.P7S4

Translation from *Gospodarka Wodna* 20(9): 392-401. 1960.  
Issued by CFSTI.

MIKUCKI, Z., and WISNIEWSKI, B. Siltation of water reservoir at Porabka. *Water Econ.* [Selec. Articles] 20(12):683-690, map. 1966. (TT 63-11363) HD1697.P7S4

Translation from *Gospodarka Wodna* 20(12): 557-559. 1960.  
Issued by CFSTI.

MILOS, H. Soil erosion in Czechoslovakia. *Water Econ.* [Selec. Articles] 20(8):297-312. 1966. (TT 63-11363) HD1697.P7S4

Translation from *Gospodarka Wodna* 20(8): 359-365. 1960.  
Issued by CFSTI.

NISHIDA, T. Comparative and topographical anatomy of the fowl. X. The blood vascular system of the hind-limb in the fowl. I. The artery. East Lansing, n. d. 44 p. QL835.N53

Translated from Japanese for the USDA Avian Anatomy Project, Dept. of Poultry Science, Michigan State University.

From the Japanese Journal of Veterinary Science.

OBRACZKA, R. Soil erosion and land improvement in Kielce Voivodeship. *Water Econ.* [Selec. Articles] 20(12):695-706. 1966. HD1697.P7S4

Translation from *Gospodarka Wodna* 20(12): 561-564. 1960.  
Issued by CFSTI.



OKRUSZKO, H., CHURSKI, T., and KARPIN-SKA, J. Peats in the district of karst lakes of the Usciwierz group (Leczna-Wlodawa post-glacial lake region). *Water Econ. [Selec. Articles]* 20(2/12):183-188, map. 1966. (TT 63-11363) HD1697.P7S4

Translation from *Gospodarka Wodna* 20(6): 285-286. 1960.

Issued by CFSTI.

OKRUSZKO, H. The principles of reclamation and utilization of peatlands in the United States of America. *Water Econ. [Selec. Articles]* 20(11):607-617. 1966. (TT 63-11363) HD1697.P7S4

Translation from *Gospodarka Wodna* 20(11): 517-520. 1960.

Issued by CFSTI.

OKRUSZKO, H. Reclamation and management of Kuwasy peatlands. *Water Econ. [Selec. Articles]* 20(11):537-547. 1966. (TT 63-11363) HD1697.P7S4

Translation from *Gospodarka Wodna* 20(11): 480-484. 1960.

Issued by CFSTI.

OSTROWSKI, J. Experiments with a vertical drainage duct, carried out at the Agricultural Experiment Station at Wolica. *Water Econ. [Selec. Articles]* 20(4):65-68. 1966. (TT 63-11363) HD1697.P7S4

Translation from *Gospodarka Wodna* 20(4): 187-188. 1960.

Issued by CFSTI.

OSTROWSKI, S., and KOCAN, T. Water soil erosion control in Yugoslavia. *Water Econ. [Selec. Articles]* 20(12):667-678. 1966. (TT 63-11363) HD1697.P7S4

Translation from *Gospodarka Wodna* 20(12): 540-544. 1960.

Issued by CFSTI.

RADWAN-DEBSKI, R. The architectural concept of the Hydrologic Research Station at Ursynow. *Water Econ. [Selec. Articles]* 20(2/12):189-195, map. 1966. (TT 63-11363) HD1697.P7S4

Translation from *Gospodarka Wodna* 20(6): 288. 1960.

Issued by CFSTI.

\*SHAVLOVSKII, G. M., and LOGVINENKO, E. M. Xanthine catabolism in the yeast *Candida guilliermondii* and role of metals in the process. *Biochemistry (Biokhimiya)* 32(1,pt.1):48-56. Ref. Jan./Feb. 1967. 385 B523Ae

\*SHLYK, A. A., and others. Selective pheophytinization of new chlorophyll molecules in *Euglena* cells. *Biochemistry (Biokhimiya)* 32(1,pt.1):41-47. Ref. Jan./Feb. 1967. 385 B523 385 B523Ae

A. A. Baranov, M. D. Makhtyuk, and E. N. Rusak, joint authors.

SZECHY, K. A contribution to the theory of lowering of ground-water level. *Water Econ. [Selec. Articles]* 20(7):201-215. 1966. (TT 63-11363) HD1697.P7S4

Translation from *Gospodarka Wodna* 20(7): 296-301. 1960.

Issued by CFSTI.

TAKUSHKI, S. Project for irrigating the Jordan Valley. *Water Econ. [Selec. Articles]* 20(10):507-514, map. 1966. (TT 63-11363) HD1697.P7S4

Translation from *Gospodarka Wodna* 20(10): 453-455. 1960.

Issued by CFSTI.

WATER economy; selected articles. *Water Econ. [Selec. Articles]* 20(2/12), 706 p. 1966. (TT 63-11363) HD1697.P7S4

Translation from *Gospodarka Wodna* 20(2/12). 1960.

CFSTI: \$10.00

ZIEMNICKI, S. Erosion-control measures on a farm field at Weglinek. *Water Econ. [Selec. Articles]* 20(7):253-263, map. 1966. (TT 63-11363) HD1697.P7S4

Translation from *Gospodarka Wodna* 20(7): 333-336. 1960.

Issued by CFSTI.

ZIEMNICKI, S. Example of an amelioration solution on a strip meadow. *Water Econ. [Selec. Articles]* 20(2/12):177-182. 1966. (TT 63-11363) HD1697.P7S4

Translation from *Gospodarka Wodna* 20(6): 283-284. 1960.

Issued by CFSTI.

## CHECKLISTS

Checklists of publications of the U. S. D. A., State Agricultural Experiment Stations, and State Agricultural Extension Services are prepared for the convenience of those who wish to follow the literature from these sources. All such publications are included also in the classified section and indexed in the author and subject indexes.

U. S. D. A. PUBLICATIONS

Publications in the various United States Department of Agriculture series are listed first, followed by publications issued by the various agencies within the Department, arranged alphabetically by name of agency.

Domestic requests for publications in the various Department series will be filled free to libraries and other qualified agencies and organizations upon application to the United States Department of Agriculture, Office of Information, Washington, D.C., 20250, as long as the supply lasts. They may also be purchased from the Superintendent of Documents, Washington, D.C., 20250.

Domestic requests for most publications issued by the Department will be filled free by the issuing agency, as long as the supply lasts. Requests should be addressed to the United States Department of Agriculture, name of the specific issuing agency, Washington, D.C., 20250.

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For further information about the availability of United States Department of Agriculture publications, consult U.S.D.A. List Number 11, List of Available Publications of the United States Department of Agriculture, obtainable from the United States Department of Agriculture, Office of Information, Washington, D.C., 20250, and for sale by the Superintendent of Documents, Washington, D.C., 20402.

Agricultural Economic Reports

EICHERS, T., and others. Quantities of pesticides used by farmers in 1964. U. S. D. A. Agr. Econ. Rep. 131,37 p. Jan.1968. A281.9 Ag8A

P. Andrienas, R. Jenkins, and A. Fox, joint authors.

Agriculture Handbooks

GILL, W. R., and VANDEN BERG, G. E. Soil dynamics in tillage and traction. U. S. D. A. Agr. Handbook 316,511 p. 1967. 1 Ag84Ah Bibliography, p.460-487.

Agriculture Information Bulletins

U. S. SOIL CONSERVATION SERV. Sediment; it's filling harbors, lakes, and roadside ditches. U. S. D. A. Agr. Inform. Bull. 325,15 p. Dec. 1967. 1 Ag84Ab

U. S. SOIL CONSERVATION SERV. Conservation and the water cycle. U. S. D. A. Agr. Inform. Bull. 326,8 p.-folder. 1967. 1 Ag84Ab

U. S. CONSUMER AND MARKETING SERV. COTTON DIV. Summary of cotton fiber and processing test results; crop of 1967. U. S. D. A. Agr. Inform. Bull. 331,119 p.,map. Apr.1968. 1 Ag84Ab

Farmers' Bulletins

MORRISON, W. W. Preparing strawberries for market. U. S. D. A. Farmers' Bull. 1560, rev.,16 p. Jan.1968. 1 Ag84F

MCGREW, J. R., and STILL, G. W. Control of grape diseases and insects in the Eastern United States. U. S. D. A. Farmers' Bull. 1893,rev.,28 p. Jan.1968. 1 Ag84F

U. S. AGRICULTURAL RESEARCH SERV. ANIMAL DISEASE AND PARASITE RESEARCH DIV. Infectious anemia (swamp fever) of horses, mules, and donkeys. U. S. D. A. Farmers' Bull. 2088,slightly rev.,10 p. Mar. 1968. 1 Ag84F

CLARK, R. T., BAKER, A. L., and WHITMORE, G. E. Beef cattle dehorning, castrating, branding, and marking. U. S. D. A. Farmers' Bull. 2141,slightly rev.,16 p. Dec.1967. 1 Ag84F

REID, W. J., and CUTHBERT, F. P. Aphids on leafy vegetables; how to control them. U. S. D. A. Farmers' Bull. 2148,slightly rev., 16 p. Dec.1967. 1 Ag84F

U. S. AGRICULTURAL RESEARCH SERV. ANIMAL HUSBANDRY RESEARCH DIV. Slaughtering, cutting, and processing lamb and mutton on the farm. U. S. D. A. Farmers' Bull. 2152, slightly rev.,16 p. Dec.1967. 1 Ag84F

U. S. AGRICULTURAL RESEARCH SERV. ANIMAL HUSBANDRY RESEARCH DIV. Feeding dairy cattle. U. S. D. A. Farmers' Bull. 2153,slightly rev.,32 p. Feb.1968. 1 Ag84F

U. S. AGRICULTURAL RESEARCH SERV. CROPS RESEARCH DIV. Varieties of alfalfa. U. S. D. A. Farmers' Bull. 2231,rev.,12 p. Mar.1968. 1 Ag84F

U. S. AGRICULTURAL RESEARCH SERV. CROPS RESEARCH DIV. Commercial growing of asparagus. U. S. D. A. Farmers' Bull. 2232,22 p. Apr.1968. 1 Ag84F

U. S. Agricultural Research Service, Entomology Research Division, cooperating.

Foreign Agricultural Economic Reports

U. S. DEPT. OF AGRICULTURE. ECONOMIC RESEARCH SERV. The world agricultural situation, review of 1967 and outlook for 1968, by D. Chrisler. U. S. D. A. Foreign Agr. Econ. Rep. 38,27 p. Feb.20,1968. A281.9 Ag8F

U. S. Foreign Agricultural Service, cooperating.

HENDRIX, W. E., NAIVE, J. J., and ADAMS, W. E. Accelerating India's food grain production 1967-68 to 1970-71: Requirements and prospects for a yearly growth rate of 5 percent. U. S. D. A. Foreign Agr. Econ. Rep. 40,28 p., map. Ref. Mar.1968. A281.9 Ag8F

Home and Garden Bulletins

KREZDORN, A. H. Growing figs in the South for home use. U. S. D. A. Home Gard. Bull. 87,slightly rev.,11 p.,map. Jan.1968. 1 Ag84Hg

U. S. AGRICULTURAL RESEARCH SERV. HUMAN NUTRITION RESEARCH DIV. Poultry in family meals: A guide for consumers. U. S. D. A. Home Gard. Bull. 110,slightly rev., 30 p. Nov.1967. 1 Ag84Hg

U. S. CONSUMER AND MARKETING SERV. How to buy eggs. U. S. D. A. Home Gard. Bull. 144,8 p.-folder. Jan.1968. 1 Ag84Hg

Leaflets

U. S. AGRICULTURAL RESEARCH SERV. ENTOMOLOGY RESEARCH DIV. The alfalfa weevil [*Hypera postica*]; how to control it. U. S. D. A. Leaflet. 368,slightly rev.,8 p. Nov. 1967. 1 Ag84L

U. S. AGRICULTURAL RESEARCH SERV. ANIMAL DISEASE AND PARASITE RESEARCH DIV. Liver flukes in cattle. U. S. D. A. Leaflet. 493,slightly rev.,8 p. Feb.1968. 1 Ag84L



Marketing Bulletins

U. S. CONSUMER AND MARKETING SERV. FRUIT AND VEGETABLE DIV. The market news service on fruits and vegetables. U. S. D. A. Marketing Bull. 39, rev., 12 p. Dec. 1967. A280.39 Ag8M

Marketing Research Reports

CHAPMAN, W. E., MULLIKIN, R. A., and LA FERNEY, P. E. Quality and performance of Pima S-1 and Pima S-2 cotton under different ginning conditions, El Paso area, 1964-65. U. S. D. A. Marketing Res. Rep. 803, 13 p. Feb. 1968. 1 Ag84Mr

CHAPMAN, W. E., MULLIKIN, R. A., and LA FERNEY, P. E. Effects of gin cleaning on fiber properties and spinning quality, Pima cotton, 1965-66, with and without crusher rolls. U. S. D. A. Marketing Res. Rep. 806, 14 p. Mar. 1968. 1 Ag84Mr

Miscellaneous Publications

U. S. AGRICULTURAL RESEARCH SERV. PERSONNEL DIV. Opportunities for doctors of veterinary medicine in USDA. U. S. D. A. Misc. Publ. 1014, slightly rev., 4 p. Sept. 1967. 1 Ag84M

SAVESON, I. L. Surface drainage of flatlands. U. S. D. A. Misc. Publ. 1062, 10 p. Dec. 1967. 1 Ag84M

Louisiana Agricultural Experiment Station, cooperating.

U. S. AGRICULTURAL RESEARCH SERV. Potato storage, 60,000 cwt., cross alley; cooperative farm building plan No. 6018. U. S. D. A. Misc. Publ. 1069, 2 p. Mar. 1968. 1 Ag84M

U. S. AGRICULTURAL RESEARCH SERV. 3-bedroom tenant house, cooperative farm building plan No. 7182. U. S. D. A. Misc. Publ. 1072, 2 p. Mar. 1968. 1 Ag84M

U. S. AGRICULTURAL RESEARCH SERV. Cabin with dormitory loft; cooperative farm building plan No. 6013. U. S. D. A. Misc. Publ. 1074, 2 p. Mar. 1968. 1 Ag84M

U. S. AGRICULTURAL RESEARCH SERV. Pole-frame cabin; cooperative farm building plan No. 6004. U. S. D. A. Misc. Publ. 1076, 2 p. Apr. 1968. 1 Ag84M

Program Aid

U. S. FARMERS HOME ADMIN. Operating loans for better farming, better living. U. S. D. A. PA-182, slightly rev., 8 p. Oct. 1967. 1 Ag84Pro

U. S. AGRICULTURAL RESEARCH SERV. PLANT PEST CONTROL DIV. The European chafer [*Amphimallon majalis*]; how we fight it. U. S. D. A. PA-455, slightly rev., 6 p.-folder. Nov. 1967. 1 Ag84Pro

U. S. FOREST SERV. Skiing. U. S. D. A. PA-525, rev., 23 p., map. Nov. 1967. 1 Ag84Pro

U. S. AGRICULTURAL RESEARCH SERV. ANIMAL HEALTH DIV. African swine fever; an expanding threat to American hogs. U. S. D. A. PA-817, 8 p.-folder, map. Feb. 1968. 1 Ag84Pro

U. S. Agricultural Research Service, Animal Disease and Parasite Research Division, cooperating.

U. S. DEPT. OF AGRICULTURE. Attention, overseas travelers. U. S. D. A. PA-820, 2 p. Mar. 1968. 1 Ag84Pro

U. S. FEDERAL EXTENSION SERV. DIV. OF HOME ECONOMICS. Get rid of garbage and trash, for a clean house. U. S. D. A. PA-826, 4 p. Oct. 1967. 1 Ag84Pro

U. S. FEDERAL EXTENSION SERV. DIV. OF HOME ECONOMICS. Clean upholstered furniture, for a clean house. U. S. D. A. PA-827, 4 p. Oct. 1967. 1 Ag84Pro

U. S. FEDERAL EXTENSION SERV. DIV. OF HOME ECONOMICS. Clean gas ranges, for a clean house. U. S. D. A. PA-828, 8 p. Oct. 1967. 1 Ag84Pro

Auburn University Agricultural Extension Service, cooperating.

U. S. FEDERAL EXTENSION SERV. DIV. OF HOME ECONOMICS. Clean electric ranges for a clean house. U. S. D. A. PA-829, 8 p. Oct. 1967. 1 Ag84Pro

Auburn University Agricultural Extension Service, cooperating.

U. S. FEDERAL EXTENSION SERV. DIV. OF HOME ECONOMICS. Clean beds, for a clean house. U. S. D. A. PA-830, 4 p. Oct. 1967. 1 Ag84Pro

U. S. FEDERAL EXTENSION SERV. DIV. OF HOME ECONOMICS. Get rid of bedbugs, for a clean house. U. S. D. A. PA-831, 4 p. Oct. 1967. 1 Ag84Pro

U. S. FEDERAL EXTENSION SERV. DIV. OF HOME ECONOMICS. Kill those flies, for a clean house. U. S. D. A. PA-832, 4 p. Oct. 1967. 1 Ag84Pro

Auburn University Agricultural Extension Service, cooperating.

U. S. FEDERAL EXTENSION SERV. DIV. OF HOME ECONOMICS. Kill those roaches, for a clean house. U. S. D. A. PA-833, 4 p. Oct. 1967. 1 Ag84Pro

Auburn University Agricultural Extension Service, cooperating.

U. S. SOIL CONSERVATION SERV. Conservation plantings: Invite birds to your home. U. S. D. A. PA-840, 16 p.-folder. Feb. 1968. 1 Ag84Pro

U. S. FEDERAL EXTENSION SERV. A note to agents on clean clothes. U. S. D. A. PA-843, 2 p. Feb. 1968. 1 Ag84Pro

U. S. FEDERAL EXTENSION SERV. Program Aide's guide on clean clothes. U. S. D. A. PA-844, 2 p. Feb. 1968. 1 Ag84Pro

U. S. FEDERAL EXTENSION SERV. Getting ready to wash—for clean clothes. U. S. D. A. PA-846, 4 p. Feb. 1968. 1 Ag84Pro

U. S. FARMERS HOME ADMIN. Technical Action Panels: Rural areas development and outreach functions. U. S. D. A. PA-850, 4 p. Jan. 1968. 1 Ag84Pro

U. S. AGRICULTURAL STABILIZATION AND CONSERVATION SERV. The 1968 voluntary Feed Grain Program. U. S. D. A. PA-858, 11 p. Jan. 1968. 1 Ag84Pro

Statistical Bulletins

U. S. CONSUMER AND MARKETING SERV. TOBACCO DIV. Annual report on tobacco statistics, 1967. U. S. D. A. Statist. Bull. 424, 71 p., map. Apr. 1968. 1 Ag84St

Technical Bulletins

OWENS, C. D., and FARRAR, C. L. Electric heating of honey bee hives. U. S. D. A. Tech. Bull. 1377, 24 p. Nov. 1967. 1 Ag84Te

AGRICULTURAL RESEARCH SERVICE

CEPONIS, M. J., and KAUFMAN, J. Effect of relative humidity on moisture loss and decay of eastern lettuce prepackaged in different films. U. S. Agr. Res. Serv. ARS 51-18, 9 p. Ref. Jan. 1968. A280.39 R31A

COONS, C. M. Selected references on cereal grains in protein nutrition; human and experimental animal studies of major and minor cereals, 1910-1966. U. S. Agr. Res. Serv. ARS 61-5, 150 p. Jan. 1968. A389.9 R31

HARDENBURG, R. E. Wax and related coatings for horticultural products; a bibliography. U. S. Agr. Res. Serv. ARS 51-15, 15 p. Dec. 1967. A280.39 R31A

HOLTAN, H. N., and MINSHALL, N. E. Plot samples of watershed hydrology. U. S. Agr. Res. Serv. ARS-41-133,206 p. Jan.1968. A56.9.R31

IRVING, G. W. Pest control, its growing significance here and abroad; talk before the University of Florida Pest Control Conference, Gainesville, February 27, 1968. U. S. Agricultural Research Service, 1968? 8 p. 1.913 A2I8

KINGSOLVER, J. M., and SANDERSON, M. W. A selected bibliography of insect-vascular plant associational studies. U. S. Agr. Res. Serv. ARS-33-115,33 p. Apr.1967. A420 R31

U. S. AGRICULTURAL RESEARCH SERV. General catalogue of the Homoptera. Fascicle VI. Cicadelloidea. 10. Euscelidae. I-II, by Z. P. Metcalf. Washington, 1967. 2074 p. 431 H78Gc

Contribution from North Carolina Agricultural Experiment Station.

U. S. AGRICULTURAL RESEARCH SERV. General catalogue of the Homoptera. Fascicle VI. Cicadelloidea. 10. Euscelidae. III, by Z. P. Metcalf. Washington, 1967. p.2075-2695. 431 H78Gc

Contribution from North Carolina Agricultural Experiment Station.

U. S. AGRICULTURAL RESEARCH SERV. Salmonella in livestock and poultry, procedure for submitting requests for laboratory report for Salmonella serotyping. U. S. Agr. Res. Serv. ARS 91-48-5,12 p. Sept.1967. A41.9 R315Ar

U. S. AGRICULTURAL RESEARCH SERV. ANIMAL DISEASE AND PARASITE RESEARCH DIV. BELTSVILLE PARASITOLOGICAL LABORATORY. Index-catalogue of medical and veterinary zoology, supplement 16, part 4, parasite-subject catalogue. Parasites: Nematoda and Acanthocephala, by D. B. Segal, J. M. Humphrey, S. J. Edwards, and M. D. Kirby. Washington, 1967. 209 p. 1 An5Ind

U. S. AGRICULTURAL RESEARCH SERV. ANIMAL HEALTH DIV. Cooperative State-Federal hog cholera eradication program, progress report 1967. U. S. Agr. Res. Serv. ARS 91-67, 39 p.,map. Feb.1968. A41.9 R315Ar

U. S. AGRICULTURAL RESEARCH SERV. ANIMAL HEALTH DIV. Questions and answers on keeping screwworms [*Cochliomyia hominivorax*] out of the United States. U. S. Agr. Res. Serv. ARS 91-61,8 p. Apr.1967. A41.9 R315Ar

U. S. AGRICULTURAL RESEARCH SERV. PLANT PEST CONTROL DIV. METHODS IMPROVEMENT OPERATIONS. An aircraft insect-trap dispenser. U. S. Agr. Res. Serv. ARS-81-27,7 p. Oct.1967. A423.9 R31

U. S. AGRICULTURAL RESEARCH SERV. PLANT PEST CONTROL DIV. METHODS IMPROVEMENT OPERATIONS. Traps attached to aircraft for sampling of insect populations. U. S. Agr. Res. Serv. ARS-81-22,6 p. Ref. Sept.1967. A423.9 R31

WALTERS, R. E. Improved equipment for weighing and packing turkeys. U. S. Agr. Res. Serv. ARS-52-24,22 p. Jan.1968. A289.9 R31

#### AGRICULTURAL STABILIZATION AND CONSERVATION SERVICE

U. S. AGRICULTURAL STABILIZATION AND CONSERVATION SERV. 1967 annual report; Virginia. Richmond, 1967? 73 p. A281.9 St17

U. S. AGRICULTURAL STABILIZATION AND CONSERVATION SERV. Washington, 1966 annual report. Spokane, 1967? 189 p.,map. A281.9 St192

#### CONSUMER AND MARKETING SERVICE

U. S. CONSUMER AND MARKETING SERV. 1968 acreage-marketing guides, summer and fall potatoes. U. S. Consum. Marketing Serv. AMG 61,40 p. Mar.1968. A281.3919 M34

U. S. CONSUMER AND MARKETING SERV. 1968 acreage-marketing guides, summer and fall vegetables, melons, sweetpotatoes. U. S. Consum. Marketing Serv. AMG 62,56 p. Mar. 1968. A281.3919 M34

U. S. CONSUMER AND MARKETING SERV. Rolled oats (quick cooking): a good choice for the thrifty family. U. S. Consum. Marketing Serv. C&MS-59,4 p. Feb.1968. A280.39 C762  
U.S. Agricultural Research Service, cooperating.

#### ECONOMIC RESEARCH SERVICE

ALLEN, G. C., and others. Structure of six farm input industries: Petroleum, farm machinery and equipment, fertilizers, chemical pesticides, livestock feeds [and] farm credit. U. S. D. A. Econ. Res. Serv. ERS-357,75 p. Ref. Jan.1968. A281.9 Ag83E

T. R. Eichers, P. E. Strickler, J. F. Gale, A. Fox, E. F. Hodges, and P. T. Allen, joint authors.

COYNER, M. S. The agriculture and trade of British Honduras. U. S. D. A. Econ. Res. Serv. ERS- Foreign 209,15 p.,map. Jan.1968. A281.9 Ag83

GALE, H. F., and VAN HORN, T. R. Labor productivity in food distribution. U. S. D. A. Econ. Res. Serv. ERS-372,9 p. Feb.1968. A281.9 Ag83E

MOE, L. E. Turkey: Supply and demand projections for farm products to 1975, with implications for U.S. exports. U. S. D. A. Econ. Res. Serv. ERS- Foreign 204,25 p.,map. Ref. Nov. 1967. A281.9 Ag83

SINGLETON, C. B. Uganda's agricultural economy in brief. U. S. D. A. Econ. Res. Serv. ERS- Foreign 210,14 p.,map. Jan.1968. A281.9 Ag83

U. S. DEPT. OF AGRICULTURE. ECONOMIC RESEARCH SERV. Big Blue River Basin, Nebraska; water and related land resources. Lincoln, 1967. 72 p.,map. A5932.N2A5

U. S. Forest Service and U. S. Soil Conservation Service, cooperating.

#### FOREIGN AGRICULTURAL SERVICE

MEHR, S. Competition in world raisin markets. U. S. Foreign Agr. Serv. FAS-M-136,rev.,43 p. Dec.1967. A281.9 F76Fm

SINDELAR, G. E. Portugal's tomato processing industry. U. S. Foreign Agr. Serv. FAS-M-196,15 p.,map. Jan.1968. A281.9 F76Fm

#### FOREST SERVICE

ALEXANDER, R. R. Site indexes for Engelmann spruce [*Picea engelmannii*] in the central Rocky Mountains. U. S. Forest Serv. Res. Paper RM-32,7 p. 1967. A99.9 F7632U

ALEXANDER, R. R. Windfall after clearcutting on Fool Creek, Fraser Experimental Forest, Colorado. U. S. Forest Serv. Res. Note RM-92, 11 p.,map. 1967. A99.9 F7632Us

BASSETT, J. R. Pole production in natural loblolly pine [*Pinus taeda*] stands near Crossett, Arkansas. U. S. Forest Serv. Res. Note SO-58, 5 p.-folder. 1967. A99.9 F7628U

BERGER, J. M. Timber resource statistics for central Oregon. U. S. Forest Serv. Resour. Bull. PNW-24,38 p.,map. 1968. A99.9 F7625Un

BOLDT, C. E. Survival and early growth of ponderosa pine planting stock in the Black Hills. U. S. Forest Serv. Res. Note RM-97,4 p. 1968. A99.9 F7632Us

CARLSON, R. B., and WILSON, L. F. Zimmerman pine moth [*Dioryctria zimmermani*]. U. S. Forest Serv. Forest Pest Leaflet 106, 6 p.-folder. May 1967. A423.9 F764

COOPER, G. A. Hardwood siding performance. U. S. N. Cent. Forest Exp. Sta. U. S. Forest Serv. Res. Paper NC-16,11 p. Aug.1967. ASD11.A34



- COPES, D. Influence of cambial contact length on graft survival and leader elongation in Douglas-fir. U. S. Forest Serv. Res. Note PNW-69, 8 p. Ref. Nov.1967. A99.9 F7625U
- DOYLE, D. V., and MARKWARDT, L. J., Tension parallel-to-grain properties of southern pine dimension lumber. U. S. Forest Serv. Res. Paper FPL-84,36 p.,map. Dec.1967. A99.9 F7634U
- DUNMIRE, D. E., and ENGLERTH, G. H. Development of a computer method for predicting lumber cutting yields. U. S. N. Cent. Forest Exp. Sta. U. S. Forest Serv. Res. Paper NC-15, 7 p. Aug.1967. aSD11.A34
- DYRNESS, C. T. Grass-legume mixtures for roadside soil stabilization. U. S. Forest Serv. Res. Note PNW-71,19 p. Dec.1967. A99.9 F7625U
- FRANKLIN, J. F., and MITCHELL, R. G. Successional status of subalpine fir [*Abies lasiocarpa*] in the Cascade range. U. S. Forest Serv. Res. Paper PNW-46,16 p.,map. Ref. Aug.1967. A99.9 F7625Uni
- GORDON, D. T. Prescribed burning in the interior ponderosa pine type of northeastern California; a preliminary study. U. S. Forest Serv. Res. Paper PSW-45,20 p. 1967. A99.9 F7652P
- HAIR, D. Use of regression equations for projecting trends in demand for paper and board, with projections of demand to 1985 for major grades of paper and board, wood pulp, and pulpwood. U. S. Forest Serv. Forest Resource Rep. 18,178 p. Ref.,p.175-178. Dec.1967. 1 F76Frr
- HOLMGREN, A. H., and REVEAL, J. L. Checklist of the vascular plants of the Intermountain region. U. S. Forest Serv. Res. Paper INT-32,160 p.,map. 1966. A99.9 F764U
- Utah Agricultural Experiment Station, cooperating.  
Bibliography, p.125-137.
- JORDAN, J. S., and SHARP, W. M. Seeding and planting hemlock for ruffed grouse cover. U. S. Forest Serv. Res. Paper NE-83,17 p. 1967. A99.9 F7622Un
- KALLIO, E., and SESCO, J. A. Residential fencing in a metropolitan area and three small towns. U. S. N. Cent. Forest Exp. Sta. U. S. Forest Serv. Res. Paper NC-14,8 p. Aug.1967. aSD11.A34
- KOELLING, M. R., and BLUM, B. M. Controlling taphole depth in maple sap production research. U. S. Forest Serv. Res. Note NE-61, 4 p. 1967. A99.9 F7622U
- LARSON, J. S. Forests, wildlife, and habitat management: A critical examination of practice and need. U. S. Forest Serv. Res. Paper SE-30,28 p. Ref. Dec.1967. A99.9 F7623U
- LEVNO, A., and ROTHACHER, J. Increases in maximum stream temperatures after logging in old-growth Douglas-fir watersheds. U. S. Forest Serv. Res. Note PNW-65,12 p.,map. Oct.1967. A99.9 F7625U
- LULL, H. W., and REIGNER, I. C. Radiation measurements by various instruments in the open and in the forest. U. S. Forest Serv. Res. Paper NE-84,21 p. 1967. A99.9 F7622Un
- LUTZ, J. F., MERGEN, A., and PANZER, H. Effect of moisture content and speed of cut on quality of rotary-cut veneer. U. S. Forest Serv. Res. Note FPL-0176,13 p. Nov.1967. A99.9 F7634Un
- MARQUIS, D. A. Clearcutting in northern hardwoods: Results after 30 years. U. S. Forest Serv. Res. Paper NE-85,13 p. Ref. 1967. A99.9 F7622Un
- MCMILLEN, J. M. Transverse strains during drying of 2-inch ponderosa pine [*Pinus ponderosa*]. U. S. Forest Serv. Res. Paper FPL-83,26 p. Ref. Jan.1968. A99.9 F7634U
- MUELLER, L. A., and KOVNER, J. L. Lumber production from selected Black Hills ponderosa pine. U. S. Forest Serv. Res. Paper RM-31, 20 p.,map. 1967. A99.9 F7632U
- PLASS, W. T. Land disturbances from strip-mining in eastern Kentucky. 3. Licking River Coal Reserve District. U. S. Forest Serv. Res. Note NE-68,6 p.,map. 1967. A99.9 F7622U
- PLASS, W. T. Land disturbances from strip-mining in eastern Kentucky. 4. Big Sandy Coal Reserve District. U. S. Forest Serv. Res. Note NE-69,7 p.,map. 1967. A99.9 F7622U
- PLASS, W. T. Land disturbances from strip-mining in eastern Kentucky. 5. Hazard Coal Reserve District. U. S. Forest Serv. Res. Note NE-71,7 p.,map. 1967. A99.9 F7622U
- PLASS, W. T. Land disturbances from strip-mining in eastern Kentucky. 6. Southwestern Coal Reserve District. U. S. Forest Serv. Res. Note NE-72,8 p.,map. 1967. A99.9 F7622U
- QUIRK, J. T., KOZLOWSKI, T. T., and BLOMQUIST, R. F. Effects of adhesive formulation and age on strength of bonded butt joints. U. S. Forest Serv. Res. Note FPL-0178,17 p. Ref. Dec.1967. A99.9 F7634Un
- QUIRK, J. T., KOZLOWSKI, T. T., and BLOMQUIST, R. F. Location of failure in adhesive-bonded butt joints. U. S. Forest Serv. Res. Note FPL-0177,16 p. Ref. Dec.1967. A99.9 F7634Un
- SARTZ, R. S. Annual soil temperature wave at four depths in southwestern Wisconsin. U. S. N. Cent. Forest Exp. Sta. U. S. Forest Serv. Res. Note NC-32,2 p. Aug.1967. aSD11.A33
- SARTZ, R. S. Winter thaws can raise ground water levels in driftless area. U. S. N. Cent. Forest Exp. Sta. U. S. Forest Serv. Res. Note NC-35,2 p. Aug.1967. aSD11.A33
- SHOULDERS, E. Growth of slash and longleaf pines [*Pinus elliotii* and *P. palustris*] after cultivation, fertilization, and thinning. U. S. Forest Serv. Res. Note SO-59,3 p. 1967. A99.9 F7628U
- SHOULDERS, E. Longleaf [*Pinus palustris*] field performance unimpaired by nursery clipping to facilitate brown-spot control. U. S. Forest Serv. Res. Note SO-60,3 p. 1967. A99.9 F7628U
- SMITH, L. F. Effects of spacing and site on the growth and yield of planted slash pine [*Pinus elliotii*]. U. S. Forest Serv. Res. Note SO-63,4 p. 1967. A99.9 F7628U
- SORENSEN, F. Two-year results of a West-East transect-provenance test of Douglas-fir in Oregon. U. S. Forest Serv. Res. Note PNW-72, 8 p. Dec.1967. A99.9 F7625U
- STRANSKY, J. J., and WILSON, D. R. Soil moisture and texture affect root and shoot weights of transplanted pine seedlings. U. S. Forest Serv. Res. Note SO-62,3 p. 1967. A99.9 F7628U
- TANG, W. K., and EICKNER, H. W. Effect of inorganic salts on pyrolysis of wood, cellulose, and lignin determined by differential thermal analysis. U. S. Forest Serv. Res. Paper FPL-82,30 p. Ref. Jan.1968. A99.9 F7634U
- THATCHER, R. C. Pine sawfly *Neodiprion excrucians* Roh. U. S. Forest Serv. Forest Pest Leaflet 105,4 p. Apr.1967. A423.9 F764
- U. S. FOREST SERV. Engineering field tables. Ed. 3. Washington, 1967. 185 p. aTA332.A5U5 1967
- U. S. Department of the Interior, Bureau of Land Management, cooperating.
- U. S. FOREST SERV. National forest system, areas as of June 30, 1967. Washington, 1968. 20 p.,map. 1 F765
- U. S. FOREST SERV. 1969 budget, explanatory notes. n.p., 1967. 181 p.,map. A99.9 F76Ex
- U. S. FOREST SERV. INTERMOUNTAIN REGION. National forests in profiles; 1967 year-book. Ogden, Utah, 1968. 27 p.,map. A99.9 F7635

U. S. FOREST SERV. PACIFIC NORTHWEST FOREST AND RANGE EXPERIMENT STATION. Aerial photographic techniques for estimating damage by insects in Western forests, by J. F. Wear, R. B. Pope, and P. W. Orr. Portland, Oregon, 1966. 79 p. aSD387.A25W4

Bibliography, p.75-79.

U. S. FOREST SERV. PACIFIC NORTHWEST FOREST AND RANGE EXPERIMENT STATION. Hydrologic and related characteristics of three small watersheds in the Oregon Cascades, by J. Rothacher, C. T. Dyrness, and R. L. Fredriksen. Portland, Oregon, 1967. 54 p.,map. Ref. aTC424.O7R6

U. S. FOREST SERV. SOUTHEASTERN FOREST EXPERIMENT STATION. Key to Nearctic parasites of the genus *Rhyacionia*; with species annotations, by H. O. Yates. Asheville, North Carolina, 1967. 127 p. aQL561.O6Y3

Bibliography, p.107-119.

VAN DEUSEN, J. L. Conversion of tree heights in logs to heights in feet: Black Hills ponderosa pine. U. S. Forest Serv. Res. Note RM-94,2 p. 1967. A99.9 F7632Us

WALL, B. R. 1966 Oregon timber harvest. U. S. Forest Serv. Resour. Bull. PNW-22,2 p. Dec.1967. A99.9 F7625Un

WIKSTROM, J. H., and ALLEY, J. R. Cost control in timber growing on the National Forests of the Northern Region. U. S. Forest Serv. Res. Paper INT-42,37 p. 1967. A99.9 F764U

WILLISTON, H. L. Thinning desirable in loblolly pine [*Pinus taeda*] plantations in west Tennessee. U. S. Forest Serv. Res. Note SO-61,7 p. 1967. A99.9 F7628U

#### INFORMATION, OFFICE OF

U. S. DEPT. OF AGRICULTURE; OFF. OF INFORMATION. Your home & safe use of pesticides; facts about pest control. Rev. Washington, D. C., 1967. 4 p. aTP248.P47U5 1967

#### NATIONAL AGRICULTURAL LIBRARY

SZENT-IVANY, G. Selected list of recent publications on agricultural economics and policy in Hungary, compiled from the holdings of the U. S. National Agricultural Library. Washington, 1968. 3 p. Z5074.E3S8

U. S. NATIONAL AGRICULTURAL LIBRARY. Dictionary catalog of the National Agricultural Library, 1862-1965. V.1-10, A-B. New York, Rowman and Littlefield, 1967. 10 v. aZ5076.N32

U. S. NATIONAL AGRICULTURAL LIBRARY. PROGRAM COORDINATION SERV. The National Agricultural Library and its activities, by C. W. Mehring. Washington, 1968. 17 p. aZ733.N3A5

#### SOIL CONSERVATION SERVICE

U. S. SOIL CONSERVATION SERV. Soil survey of Blaine County, Oklahoma, by C. F. Fisher, D. G. Bartolina, and D. L. Rieke. Washington, 1968. 87 p.,map. aS591.A3F5

Oklahoma Agricultural Experiment Station, cooperating.

U. S. SOIL CONSERVATION SERV. Soil survey of Cabezon area, New Mexico, by J. J. Folks, and W. B. Stone. Washington, 1968. 44 p.,map. aS591.A3F6

U. S. Bureau of Land Management, and New Mexico Agricultural Experiment Station, cooperating.

U. S. SOIL CONSERVATION SERV. Soil survey of Carroll County, Virginia, by W. E. Thomas, L. E. Williamson, D. L. Smith, R. L. Hodges, F. W. Hursey, and G. V. Wilson. Washington, 1967. 109 p.,map. Ref. aS591.A3S63

Virginia Agricultural Experiment Station, cooperating.

U. S. SOIL CONSERVATION SERV. Soil survey of Dougherty County, Georgia, by R. G. Middleton, M. M. Blevins, E. H. Smith, R. O. Neal, and W. S. Carson. Washington, 1968. 64 p.,map. Ref. aS591.A3M5

Georgia Agricultural Experiment Station, cooperating.

U. S. SOIL CONSERVATION SERV. Soil survey of Gray County, Kansas, by B. I. Tomasu, W. E. Roth, J. B. Baumann, and R. L. Haberman. Washington, 1968. 59 p.,map. Ref. aS591.A3T6

Kansas Agricultural Experiment Station, cooperating.

U. S. SOIL CONSERVATION SERV. Soil survey of Houston County, Alabama, by D. M. Harris, G. L. Hickman, J. H. Hataway, and L. A. Dungan. Washington, 1968. 72 p.,map. aS591.A3H3

Alabama Agricultural Experiment Station, and Alabama Department of Agriculture and Industries, cooperating.

U. S. SOIL CONSERVATION SERV. Soil survey of Indiana County, Pennsylvania, by J. B. Weaver, J. D. Ruffner, J. S. Beard, G. C. Borland, R. K. Craver, L. E. Espy, W. M. Kunkle, E. R. Leadbetter, R. S. Long, F. G. Loughry, W. F. Maresch, R. G. Mowery, J. J. Noll, B. J. Patton, J. B. Rayburn, A. F. Snyder, J. G. Steele, and W. J. Stepitis. Washington, 1968. 110 p.,map. Ref. aS591.A3W4

Pennsylvania Agricultural Experiment Station; Pennsylvania State University, College of Agriculture; and Pennsylvania Department of Agriculture, State Soil and Water Conservation Commission, cooperating.

U. S. SOIL CONSERVATION SERV. Soil survey of Ionia County, Michigan, by G. Threlkeld, S. Alfred, C. Eby, L. Kannenberg, W. Studley, W. A. Van Eck, R. Johnson, R. Larson, and K. E. Pregitzer. Washington, 1967. 167 p.,map. aS591.A3T55

Michigan Agricultural Experiment Station, cooperating.

U. S. SOIL CONSERVATION SERV. Soil survey of Kay County, Oklahoma, by J. R. Culver, W. R. Bain, and B. G. Baggett. Washington, 1967. 86 p.,map. aS591.A3C8

Oklahoma Agricultural Experiment Station, cooperating.

U. S. SOIL CONSERVATION SERV. Soil survey of Pulaski County, Indiana, by S. Pilgrim, R. Bell, P. Edmonds, K. Huffman, G. Preston, A. Zachary, and D. Post. Washington, 1967. 84 p.,map. Ref. aS591.A3P5

Indiana Agricultural Experiment Station, cooperating.

U. S. SOIL CONSERVATION SERV. Soil survey of Republic County, Kansas, by C. H. Atkinson, and D. A. Gier. Washington, 1967. 61 p.,map. Ref. aS591.A3A7

Kansas Agricultural Experiment Station, cooperating.

U. S. SOIL CONSERVATION SERV. Soil survey of Ross County, Ohio, by J. H. Petro, W. H. Shumate, M. F. Tabb, H. R. Finney, P. E. Baldrige, N. E. Reeder, D. E. Garner, D. L. McCune, and D. F. Jones. Washington, 1967. 168 p.,map. Ref. aS591.A3P4

Ohio Agricultural Experiment Station, Ohio Agricultural Research and Development Center, and Ohio Department of Natural Resources, Division of Lands and Soil, cooperating.

U. S. SOIL CONSERVATION SERV. Soil survey of Scotland County, North Carolina, by R. E. Horton, J. W. Turpin, J. H. McIntyre, R. B. Stephens, R. A. Goodwin, and D. W. DaMoude. Washington, 1967. 70 p.,map. aS591.A3H6

North Carolina Agricultural Experiment Station, cooperating.

U. S. SOIL CONSERVATION SERV. Soil survey of Sherburne County, Minnesota, M. F. Grimes, M. G. Ziebell, C. K. Sutton, L. M. Chamberlain, and E. Meir. Washington, 1968. 81 p.,map. aS591.A3G75

Minnesota Agricultural Experiment Station, cooperating.



U. S. SOIL CONSERVATION SERV. Soil survey of Warren County, Tennessee, by G. T. Jackson, S. R. Bacon, J. F. Brasfield, D. B. Freeman, and I. D. Persinger. Washington, 1967. 79 p., map. Ref. aS591.A3J3

Tennessee Agricultural Experiment Station, cooperating.

#### STATISTICAL REPORTING SERVICE

U. S. CROP REPORTING BOARD. Meat animals; farm production, disposition, and income, by States, 1966--1967. Washington, 1968. 15 p. 1.9 Ec71Ep

U. S. CROP REPORTING BOARD. Summary of regional cold storage holdings, 1967. Washington, 1968. 22 p. 1.956 M34Su62

WEIDENHAMER, M., KNOTT, E. M., and SHERMAN, L. R. Homemakers' opinions about selected meats, a preliminary report.

U. S. D. A. Statist. Rep. Serv. SRS-12, 26 p. Mar. 1968. A280.9 Ag83

### STATE AGRICULTURAL EXPERIMENT STATION PUBLICATIONS

Publications issued by the State Agricultural Experiment Stations are usually available from the issuing experiment station, except where noted, and as long as the supply lasts. The National Agricultural Library does not distribute them.

Reproductions of material not available from the various State institutions may be ordered at regular Library rates from the United States Department of Agriculture, National Agricultural Library, Photoduplication Section, Washington, D.C., 20250.

#### Alabama Agricultural Experiment Station, Auburn

- ROUSE, R. D. Soil test theory and calibration for cotton, corn, soybeans and Coastal bermudagrass. Ala. Agr. Exp. Sta. Bull. 375, 67 p. Ref. Feb. 1968. 100 AL1S
- ADAMS, F. Response of cotton to lime in field experiments. Ala. Agr. Exp. Sta. Bull. 376, 23 p. Mar. 1968. 100 AL1S
- GOGGANS, J. F., and POSEY, C. E. Variation in seeds and ovulate cones of some species and varieties of Cupressus. Ala. Agr. Exp. Sta. Circ. 160, 23 p., map. Ref. Feb. 1968. 100 AL1S
- ADAMS, E. Relative responses of grain and annual forage crops to lime, phosphorus, and potassium on Norfolk sandy loam. Ala. Agr. Exp. Sta. Circ. 161, 11 p. Feb. 1968. 100 AL1S
- HARTZOG, D., and ADAMS, F. Soil fertility experiments with peanuts in 1967. Ala. Agr. Exp. Sta. Progr. Rep. Ser. 89, 3 p. Feb. 1968. 100 AL1M

#### Arizona Agricultural Experiment Station, Tucson

- RAMEY, J. E., FOX, R. W., and CABLE, C. C. A statistical handbook for the desert citrus industry. Ariz. Agr. Exp. Sta. Rep. 244, 68 p. Dec. 1967. 100 Ar4M
- Arizona University, and Arizona University Extension Service, cooperating.
- JONES, F. C. The influence of color on heat absorption. Ariz. Agr. Exp. Sta. Rep. 246, 12 p. Jan. 1968. 100 Ar4M

#### Arkansas Agricultural Experiment Station, Fayetteville

- BROWN, C. J., ROUSSEL, J. D., and STALLCUP, O. T. Observations of a "founder-like" anomaly in a group of Hereford cattle. Ark. Agr. Exp. Sta. Bull. 724, 18 p. Ref. May 1967. 100 Ar42
- RAY, M. L., and others. Weight, grade, and value of beef calves as affected by cow quality, forage quality, season of birth, creep feeding, and sex. Ark. Agr. Exp. Sta. Bull. 729, 25 p. Ref. Jan. 1968. 100 Ar42
- A. E. Spooner, C. J. Brown, R. M. Smith, and R. D. Child, joint authors.
- ROM, R. C., and TALBERT, R. E. Field evaluation of herbicides in fruit crops, 1967. Ark. Agr. Exp. Sta. Mimeogr. Ser. 167, 16 p. Feb. 1968. 100 Ar42M
- CAVINESS, C. E., WALTERS, H. J., and RIGGS, R. D. Soybean variety performance trials in Arkansas, 1961 to 1966. Ark. Agr. Exp. Sta. Rep. Ser. 168, 28 p. Ref. Feb. 1968. 100 Ar42R

#### California Agricultural Experiment Station, Berkeley

- BRADFORD, G. R., and others. Total content of nine mineral elements in fifty selected benchmark soil profiles of California. Hilgardia 38(14):541-556. Ref. Oct. 1967. 100 C12H
- R. J. Arkley, P. F. Pratt, and F. L. Bair, joint authors.
- NAUER, E. M., ROISTACHER, C. N., and LABANAUSKAS, C. K. Effects of mix composition, fertilization, and pH on citrus grown in U.C.-type potting mixtures under greenhouse conditions. Hilgardia 38(15):557-567. Ref. Nov. 1967. 100 C12H

- CALIFORNIA agriculture 21(2), 16 p. Feb. 1967. 100 C12Cag
- CALIFORNIA agriculture 21(3), 16 p. Mar. 1967. 100 C12Cag
- CALIFORNIA agriculture 21(4), 16 p. Apr. 1967. 100 C12Cag
- CALIFORNIA agriculture 21(5), 16 p. May 1967. 100 C12Cag

#### Colorado Agricultural Experiment Station, Fort Collins

- ROHRBACH, K. G., LUEPSCHEN, N. S., and CORE, C. M. Effect of fungicidal materials on *Cytospora* [leucostoma] spore germination, a basis for preventive control of peach canker. Colo. Agr. Exp. Sta. Colo. Progr. Rep. PR 68-1, 2 p. Jan. 1968. 100 C71C
- Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- LUEPSCHEN, N. S., and others. Coryneum blight infection and control studies. Colo. Agr. Exp. Sta. Colo. Progr. Rep. PR 68-2, 2 p. Jan. 1968. 100 C71C
- K. G. Rohrbach, C. M. Core, and H. A. Gilbert, joint authors.
- Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- CRUMPACKER, D. W., and others. Performance tests of corn hybrids grown in various regions of Colorado in 1967. Colo. Agr. Exp. Sta. Gen. Ser. 868, 23 p. Mar. 1968. 100 C71G
- W. B. Kelly, J. F. Swink, and J. C. Hoff, joint authors.
- Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- COLORADO. AGRICULTURAL EXPERIMENT STATION. 19th annual Beef Cattle Improvement Day & Auction. Colo. Agr. Exp. Sta. Gen. Ser. 869, 19 p. Apr. 1968. 100 C71G

#### Connecticut Agricultural Experiment Station, New Haven

- SCHREAD, J. C. Control of lace bugs on broad-leaf evergreens. Conn. Agr. Exp. Sta. Bull. 684, 7 p. Mar. 1968. 100 C76St
- HANNA, J. G. The 70th report on food products, 1965. Conn. Agr. Exp. Sta. Bull. 690, 102 p. Apr. 1968. 100 C76St
- HANNA, J. G. The 71st report on food products, 1966. Conn. Agr. Exp. Sta. Bull. 691, 104 p. Apr. 1968. 100 C76St
- HANNA, J. G. The 72nd report on food products, 1967. Conn. Agr. Exp. Sta. Bull. 692, 83 p. Apr. 1968. 100 C76St
- HANNA, J. G. Report on inspection and analysis of commercial fertilizers, 1966. Conn. Agr. Exp. Sta. Circ. 229, 10 p. Apr. 1968. 100 C76St

#### Delaware Agricultural Experiment Station, Newark

- LEONARD, M. D., and BURBUTIS, P. P. The aphids or plant lice of Delaware, (Homoptera: Aphididae). Del. Agr. Exp. Sta. Bull. 363, 18 p. Ref. June 1967. 100 D37S

#### Florida Agricultural Experiment Station, Gainesville

- MANLEY, W. T., and GILBRAITH, K. M. Industry perceptions about the Marketing Agreement Program for Florida tomatoes. Fla. Agr. Exp. Sta. Circ. S-186, 15 p. Apr. 1968. 100 F66Ci
- U. S. Department of Agriculture, cooperating.
- KRETSCHMER, A. E. Planting information on *S. humilis*. Fla. Agr. Exp. Sta. Indian River Field Lab. Mimeo Rep. IRL 68-1, 2 p. Feb. 26, 1968. 100 F664
- Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- HARRIS, H. C. Calcium and boron effects on Florida peanuts. Fla. Agr. Exp. Sta. Tech. Bull. 723, 18 p. Ref. Apr. 1968. 100 F66S



HARMS, R. H., and others. Citrus pulp for poultry litter and its subsequent feeding value for ruminants. Fla. Agr. Exp. Sta. Tech. Bull. 724, 12 p. Ref. Apr. 1968. 100 F66S

C. F. Simpson, P. W. Waldroup, and C. B. Ammerman, joint authors.

SUNSHINE State agricultural research report 13(1), 60 p. Jan. 1968. 100 F66Su

#### Florida Everglades Experiment Station, Belle Glade

CASSELMAN, T. W. 1967 climatological report. Fla. Everglades Exp. Sta. Mimeo Rep. EES 68-5, 10 p. Jan. 1968. 100 F663

Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.

BERGER, R. D. 1967-1968 celery fungicide trial. Fla. Everglades Exp. Sta. Mimeo Rep. EES 68-6, 3 p. Feb. 1968. 100 F663

Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.

BERGER, R. D. Rate and interval of fungicide application on the control of celery early blight. Fla. Everglades Exp. Sta. Mimeo Rep. EES 68-7, 4 p. Mar. 1968. 100 F663

Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.

#### Georgia Agricultural Experiment Stations, Athens

BROWN, J. D. Factors associated with the cost of producing milk for higher producing dairy herds in Georgia. Ga. Agr. Exp. Sta. Bull. (n.s.) 170, 18 p. Aug. 1966. 100 G293B

FRY, B. O., and SAVAGE, E. F. Effect of some cultural practices on strawberry yields. Ga. Agr. Exp. Sta. Bull. (n.s.) 172, 27 p. Ref. Sept. 1966. 100 G293B

POWERS, R. B., NOLES, R. K., and FORTSON, J. C. Broiler production; a study of the growing operation. Ga. Agr. Exp. Sta. Res. Bull. 1, 47 p., map. Mar. 1967. S51.E2

AMICK, R. J., and ALLISON, J. R. Procurement and costs of flue-cured tobacco plants in Georgia. Ga. Agr. Exp. Sta. Res. Bull. 2, 26 p., map. Mar. 1967. S51.E2

FRAZIER, T. L., HOWELL, R. E., and FORTSON, J. C. Optimizing returns in a swine processing plant. Ga. Agr. Exp. Sta. Res. Bull. 3, 42 p. Apr. 1967. S51.E2

AMICK, R. J., and ALLISON, J. R. Pre-harvest field operations and costs in growing flue-cured tobacco in Georgia. Ga. Agr. Exp. Sta. Res. Bull. 4, 32 p., map. Apr. 1967. S51.E2

BROWN, E. E., and CULVER, D. W. The economic development of the Northeast Georgia Planning and Development Commission Area through utilization of the agricultural and agribusiness base. Ga. Agr. Exp. Sta. Res. Bull. 5, 49 p., map. Apr. 1967. S51.E2

Northeast Georgia Area Planning and Development Commission, cooperating.

ANDERSON, R. F. Consumption of cotton by Georgia mills, season of 1964-65. Ga. Agr. Exp. Sta. Res. Bull. 6, 31 p. May 1967. S51.E2

MASSEY, J. H. Evaluation of plants with chemurgic potential. Ga. Agr. Exp. Sta. Res. Bull. 7, 15 p. May 1967. S51.E2

CULVER, D. W., and BROWN, E. E. Timber, wood products, and water resources in the economic development of the Chattahoochee-Flint Commission Area of Georgia. Ga. Agr. Exp. Sta. Res. Bull. 8, 41 p., map. Ref. June 1967. S51.E2

Chattahoochee-Flint Area Planning and Development Commission (Georgia), cooperating.

WISE, J. O., and BROWN, E. E. Forest and water resources in the Appalachian Area of Georgia. Ga. Agr. Exp. Sta. Res. Bull. 12, 31 p., map. June 1967. S51.E2

HALE, O. M., JOHNSON, J. C., and SOUTHWELL, B. L. Influence of dietary protein level on performance and carcass traits of swine. Ga. Agr. Exp. Sta. Res. Bull. 13, 19 p. Ref. Sept. 1967. S51.E2

HALE, O. M., JOHNSON, J. C., and SOUTHWELL, B. L. The value of Abruzzi rye grain for growing and finishing swine. Ga. Agr. Exp. Sta. Res. Bull. 14, 17 p. Sept. 1967. S51.E2

LANCE, G. C. Selected production practices for growing cattle to market weight in various areas of the Southeast. Ga. Agr. Exp. Sta. Res. Bull. 15, 27 p. Ref. Sept. 1967. S51.E2

THOMPSON, J. C., and GLOVER, G. H. A planning guide for a local farmer purchasing cooperative. Ga. Agr. Exp. Sta. Res. Bull. 16, 42 p. Sept. 1967. S51.E2

PURCELL, J. C., GOODWIN, J. D., and ELROD, J. C. Fluid milk distribution in Georgia, costs and alternatives. Ga. Agr. Exp. Sta. Res. Bull. 17, 30 p. Nov. 1967. S51.E2

BOYLE, L. W. A factorial study of certain schemes of peanut culture. Ga. Agr. Exp. Sta. Res. Bull. 18, 19 p. Nov. 1967. S51.E2

MCCORMICK, W. C., MARCHANT, W. H., and SOUTHWELL, B. L. Coastal bermudagrass & Pensacola bahiagrass hays for wintering beef calves. Ga. Agr. Exp. Sta. Res. Bull. 19, 10 p. Oct. 1967. S51.E2

CHAI, J. C., BROWN, E. E., and LAPLANTE, M. G. The economic development of the Altamaha Planning and Development Commission Area of Georgia through utilization of the agricultural and agribusiness base. Ga. Agr. Exp. Sta. Res. Bull. 20, 48 p., map. Nov. 1967. S51.E2

Altamaha Area Planning and Development Commission (Georgia), cooperating.

LAPLANTE, M. G., CULVER, D. W., and CHAI, J. C. The economic development of the Chattahoochee-Flint Planning and Development Commission Area of Georgia through utilization of the agricultural and agribusiness base. Ga. Agr. Exp. Sta. Res. Bull. 21, 58 p., map. Oct. 1967. S51.E2

Chattahoochee-Flint Area Planning and Development Commission (Georgia), cooperating.

BROWN, E. E., KUNZE, J. H., and LAPLANTE, M. G. The use of forestry and water resources in the economic development of the Slash Pine Planning and Development Commission Area. Ga. Agr. Exp. Sta. Res. Bull. 22, 57 p., map. Ref. Oct. 1967. S51.E2

Slash Pine Area Planning and Development Commission (Georgia), cooperating.

CHAI, J. C., BROWN, E. E., and LAPLANTE, M. G. The role of the agricultural and agribusiness base in the economic development of the Slash Pine Planning and Development Commission Area of Georgia. Ga. Agr. Exp. Sta. Res. Bull. 23, 49 p., map. Ref. Nov. 1967. S51.E2

Slash Pine Area Planning and Development Commission (Georgia), cooperating.

BROWN, J. D., and ELROD, J. C. Georgia peach producing industry: An analysis of inter-regional competition. Ga. Agr. Exp. Sta. Res. Bull. 24, 46 p., map. Ref. Dec. 1967. S51.E2

CARLIN, T. A., and WISE, J. O. An economic analysis of the Georgia Development Authority. Ga. Agr. Exp. Sta. Res. Rep. 3, 26 p., map. May 1967. S51.E22

JACKSON, C. R. Evaluation of Terraclor Super X [Terraclor - Terrazole] for control of soil-borne pathogens of peanuts in Georgia. Ga. Agr. Exp. Sta. Res. Rep. 4, 10 p. May 1967. S51.E22

WORLEY, R. E., and HARMON, S. A. Report of 1965 spray tests for control of pecan scab and powdery mildew. Ga. Agr. Exp. Sta. Res. Rep. 5, 18 p. June 1967. S51.E22

DEMPSEY, A. H., and BOGGESE, T. S. Sweet potato performance trials in the Georgia Piedmont. Ga. Agr. Exp. Sta. Res. Rep. 6, 16 p. Ref. Aug. 1967. S51.E22

FRY, B. O. Gem and Georgia Thornless, two new blackberries for home gardens. Ga. Agr. Exp. Sta. Res. Rep. 7,8 p. Aug.1967. S51.E22

WORLEY, R. E. Pecan leaf analysis summary, 1966. Ga. Agr. Exp. Sta. Res. Rep. 9,19 p. Sept.1967. S51.E22

BROWN, E. E., CULVER, D. W., and ROSE, B. B. Potentials for growth in Georgia's food, forest, and recreation industries. Ga. Agr. Exp. Sta. Res. Rep. 10,38 p. Ref. Sept.1967. S51.E22

JACKSON, C. R. Studies on control of peanut pod fungi. I-II. Ga. Agr. Exp. Sta. Res. Rep. 11,18 p. Ref. Oct.1967. S51.E22

WORLEY, R. E., and HARMON, S. A. Effect of nitrogen, phosphorus, & potassium on yield and plant growth of fall half-runner snap beans. Ga. Agr. Exp. Sta. Res. Rep. 12,11 p. Ref. Sept.1967. S51.E22

BECKHAM, C. M. Evaluation of insecticides for thrips control on cotton. Ga. Agr. Exp. Sta. Res. Rep. 13,15 p. Oct.1967. S51.E22

SOUTHWELL, B. L., and HUGHES, R. H. Beef cattle management practices for burned and unburned pine-wiregrass ranges of Georgia. Ga. Agr. Exp. Sta. Res. Rep. 14,19 p. Oct.1967. S51.E22

BOYLE, L. W. Basic concepts in the control of plant diseases. Ga. Agr. Exp. Sta. Res. Rep. 16,11 p. Oct.1967. S51.E22

JOHNSON, B. J., and HARRIS, H. B. Effects of seeding rates on production and other characteristics of sorghum types for silage. Ga. Agr. Exp. Sta. Res. Rep. 17,10 p. Oct.1967. S51.E22

HALE, O. M., JOHNSON, J. C., and SOUTHWELL, B. L. Influence of kind and level of fat, carbohydrate source, and breed on performance and carcass traits of swine. Ga. Agr. Exp. Sta. Res. Rep. 18,11 p. Ref. Nov.1967. S51.E22

BELL, D. K., and JACKSON, C. R. Effects of seed treatment fungicides & seed quality on the incidence of fat leg of peanut. Ga. Agr. Exp. Sta. Res. Rep. 21,13 p. Mar.1968. S51.E22

GEORGIA. AGRICULTURAL EXPERIMENT STATION. Serving Georgia through research; 1967 annual report, by S. Burgess, and T. Dalton. Athens, 1967. 115 p.,map. 100 G293A

#### Hawaii Agricultural Experiment Station, Honolulu

COLLIER, W. L., DAVIDSON, J. R., and PEE, T. Y. Analysis of daikon production on the island of Hawaii. Hawaii. Agr. Exp. Sta. Agr. Econ. Rep. 75,15 p. June 1967. 275,29 H312Ae

AKAMINE, E. K. Tangerine storage. Hawaii. Agr. Exp. Sta. Bull. 142,15 p. Ref. June 1967. 100 H313

SHERMAN, G. D., and others. Genesis of the bauxitic Hali soils. Hawaii. Agr. Exp. Sta. Tech. Bull. 56,46 p. Ref. Jan.1967. 100 H313T  
J. G. Cady, H. Ikawa, and N. E. Blomberg, joint authors.

AWADA, M., WARNER, R. M., and WATANABE, Y. Effects of soil moisture stress on growth and yield of macadamia (Macadamia integrifolia). Hawaii. Agr. Exp. Sta. Tech. Bull. 69, 27 p. Ref. Jan.1967. 100 H313T

ROSS, E. Pineapple hay as a litter material for broilers. Hawaii. Agr. Exp. Sta. Tech. Bull. 71,12 p. Ref. Jan.1967. 100 H313T

MOTOOKA, P. S., and others. Aerial herbicidal control of Hawaii jungle vegetation. Hawaii. Agr. Exp. Sta. Bull. 140,19 p. Jan.1967. 100 H313

D. F. Saiki, D. L. Plucknett, O. R. Younge, and R. E. Daehler, joint authors.

HAWAIIAN SUGAR PLANTERS' ASSOCIATION. EXPERIMENT STATION. 1967 annual report. Honolulu, 1968. 71 p. 100 H31R

#### Illinois Agricultural Experiment Station, Urbana

ELLIS, N. K., and others. Market grades and standards for carnations, chrysanthemums, and roses. Ill. Agr. Exp. Sta. Bull. 727,23 p. Ref. Jan.1968. 100 IL6S

J. R. Culbert, F. C. Gaylord, C. E. Hoxsie, C. H. Sherwood, R. W. Campbell, W. J. Carpenter, D. P. Watson, R. S. Lindstrom, R. E. Widmer, H. F. Wilkins, J. C. Grady, J. E. Smith, V. J. Miller, H. O. Werner, G. Viehmeyer, J. O. Young, D. G. Hoag, L. C. Chadwick, D. C. Kiplinger, J. C. Rawson, G. E. Beck, L. M. Berninger, L. C. Martin, J. V. Powell, L. C. Halvorson, D. Y. Perkins, and R. J. Saville, joint authors.

Agricultural Experiment Stations of Alaska, Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, Wisconsin; and U. S. Department of Agriculture, cooperating.

REISS, F. J. Farm lease practices in western Illinois. Ill. Agr. Exp. Sta. Bull. 728,44 p.,map. Mar.1968. 100 IL6S

SCOTT, J. T., and CAGLEY, C. E. The economics of machinery choice in corn production. Ill. Agr. Exp. Sta. Bull. 729,26 p. Ref. Apr. 1968. 100 IL6S

#### Indiana Agricultural Experiment Station, Lafayette

MANNING, S. L. Time use in household tasks by Indiana families. Ind. Agr. Exp. Sta. Res. Bull. 837,48 p. Jan.1968. 100 In2P

RHYKERD, C. L., and others. Managing alfalfa-grass mixtures for yield and protein. Ind. Agr. Exp. Sta. Res. Bull. 839,7 p. Nov.1967. 100 In2P

C. H. Noller, J. E. Dillon, J. B. Ragland, B. W. Crowl, G. C. Naderman, and D. L. Hill, joint authors.

CRANE, P. L., and NASS, H. G. Performance of commercial dent corn hybrids in Indiana, 1964-1967. Ind. Agr. Exp. Sta. Res. Bull. 841, 11 p.,map. Jan.1968. 100 In2P

BARE, B. B., and BEERS, T. W. The unbiasedness of horizontal and vertical point sampling for estimating forest volume. Ind. Agr. Exp. Sta. Res. Progr. Rep. 312,6 p. July 1967. 100 In2Res

PROBST, A. H., and others. Soybean varieties for Indiana. Ind. Agr. Exp. Sta. Res. Progr. Rep. 324,4 p. Jan.1968. 100 In2Res

F. A. Laviolette, J. R. Wilcox, and K. L. Athow, joint authors.

U. S. Department of Agriculture, cooperating. INDIANA AGRICULTURAL EXPERIMENT STATION. Annual report; Purdue University Agricultural Experiment Station, July 1, 1966 to June 30, 1967. Lafayette, 1967? 40 p. 100 In2Br

#### Iowa Agricultural and Home Economics Experiment Station, Ames

HANWAY, J. J., and THOMPSON, H. E. How a soybean plant develops. Iowa. Agr. Exp. Sta. Spec. Rep. 53,18 p. Nov.1967. 100 Io9Sp

SAUPE, W. E., and KALDOR, D. R. Efficient organization of the farm industry in the North Central Region of the United States in 1959 and 1980. Iowa. Agr. Home Econ. Exp. Sta. Res. Bull. 560,49 p.,map. Ref. Mar.1968. 100 Io9

Agricultural Experiment Stations of Alaska, Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, Wisconsin; and U. S. Department of Agriculture, cooperating.

LADD, G. W. Trends in the Iowa dairy industry. Iowa. Agr. Home Econ. Exp. Sta. Spec. Rep. 54,27 p.,map. Ref. Nov.1967. 100 Io9Sp

LUND, R. E., and others. Characteristics of demand for meat by consumers in Webster County, Iowa. Iowa. Agr. Home Econ. Exp. Sta. Spec. Rep. 56,38 p. Feb.1968. 100 Io9Sp

L. A. Duewer, W. R. Maki, and N. V. Strand, joint authors.



IOWA farm science 22(7),48 p. Jan.1968.  
275.28 I094  
IOWA farm science 22(9),23 p. Mar.1968.  
275.28 I094  
IOWA farm science 22(10),20 p. Apr.1968.  
275.28 I094

#### Kansas Agricultural Experiment Station, Manhattan

BAGLEY, E. S. Devaluation and gold. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Dec.5,1967,2 p. HD9004.A1K3

#### Kentucky Agricultural Experiment Station, Lexington

SHANE, J. F., and others. Results of the Kentucky soybean performance tests, 1967. Ky. Agr. Exp. Sta. Progr. Rep. 173,18 p.,map. Feb.1968. 100 K41Pr  
C. Tutt, S. H. Phillips, and J. W. Herron, joint authors.

KRUEGEL, D. L. Kentucky county population estimates, July 1, 1966. Ky. Agr. Exp. Sta. RS-27,6 p. Nov.1966. 275.29 K4152

#### Louisiana Agricultural Experiment Station, University Station, Baton Rouge

LOUISIANA. AGRICULTURAL EXPERIMENT STATION. Report of projects, Department of Agronomy, for 1967. Baton Rouge, 1968? 275 p. 100 L935

#### Maine Agricultural Experiment Station, Orono

BURNETT, F. B., CORCORAN, T. J., and SHOTTAFFER, J. E. Technical education needs and employment potential in forestry-based occupations in Maine. Maine. Agr. Exp. Sta. Bull. 650,51 p.,map. Ref. Aug.1967. 100 M28S

CHUTE, H. L., and REESE, R. S. Mycoplasma problems in integrated poultry companies. Maine. Agr. Exp. Sta. Bull. 657,17 p. Feb.1968. 100 M28S

ROURKE, R. V., and BEEK, C. Soil-water, chemical and physical characteristics of eight soil series in Maine. Maine. Agr. Exp. Sta. Tech. Bull. T29,95 p. Ref. Feb.1968. 100 M28B

#### Maryland Agricultural Experiment Station, College Park

HOYERT, J. H. Plant stands in Maryland tobacco plant beds as affected by fertilizer rates and irrigation levels. Md. Agr. Exp. Sta. Bull. 482,14 p. Mar.1968. 100 M36S

ROGERS, B. L. Peaches in Maryland; a decade of soil moisture and irrigation studies. Md. Agr. Exp. Sta. Bull. A-148,29 p. Ref. June 1967. 100 M36S

MARYLAND. AGRICULTURAL EXPERIMENT STATION. Maryland Agricultural Experiment Station publications, 1960-1965. Md. Agr. Exp. Sta. Bull. A-154,23 p. Aug.1967. 100 M36S

MURRAY, R. A., and CISSEL, E. I. The transfer of farm and open country real estate in Montgomery County, Maryland, 1964. Md. Agr. Exp. Sta. Misc. Publ. 630,21 p.,map. Aug.1967. 100 M36M

MURRAY, R. A., and CISSEL, E. I. The transfer of farm and open country real estate in Howard County, Maryland, 1964. Md. Agr. Exp. Sta. Misc. Publ. 633,25 p.,map. Aug.1967. 100 M36M

MURRAY, R. A., and CISSEL, E. I. The transfer of farm and open country real estate in Harford County, Maryland, 1964. Md. Agr. Exp. Sta. Misc. Publ. 635,29 p.,map. Aug.1967. 100 M36M

WALKER, W. P. Recent trends in tax resources of county governments in Maryland; trend in taxable basis against real estate and certain personal property in Maryland, 1956-1966. Md. Agr. Exp. Sta. Misc. Publ. 643,19 p. Mar.1968. 100 M36M

#### Michigan Agricultural Experiment Station, East Lansing

RASMUSSEN, H. P., and BUKOVAC, M. J. Comparative biological activity of 3-chlorophenoxy-alpha-propionic acid and 3-chlorophenoxy-alpha-propionamide. Mich. Agr. Exp. Sta. Quart. Bull. 49(4):384-393. Ref. May 1967. 100 M58S

LINDSTROM, R. S. Growth regulating foliar sprays on poinsettias [Euphorbia pulcherrima]. Mich. Agr. Exp. Sta. Quart. Bull. 49(4):412-415. May 1967. 100 M58S

MURAKISHI, H. H., and HONMA, S. Resistance to tomato double virus streak. Mich. Agr. Exp. Sta. Quart. Bull. 49(4):416-421. Ref. May 1967. 100 M58S

DOWNS, D. M., and others. Development of foam spray dried cream of tomato soup. Mich. Agr. Exp. Sta. Quart. Bull. 49(4):422-434. May 1967. 100 M58S

P. J. Aldrich, A. V. Armitage, and T. I. Hedrick, joint authors.

HEDRICK, T. I., ARMITAGE, A. V., and DAWSON, L. E. Development of dry egg-nogs. Mich. Agr. Exp. Sta. Quart. Bull. 49(4):435-439. May 1967. 100 M58S

BARTON, T. L., KAKADE, M. L., and SCHAI-  
BLE, P. J. Growth inhibition and pancreatic enlargement in chicks fed soya flakes extracted with certain solvents. Mich. Agr. Exp. Sta. Quart. Bull. 49(4):445-449. May 1967. 100 M58S

MOUSTAFA, S., and STOUT, B. A. A mathematical model for the apple fruit. Mich. Agr. Exp. Sta. Quart. Bull. 49(4):450-458. May 1967. 100 M58S

BEHR, E. A. Preservative treatment of beech [Fagus grandifolia] by soaking. Mich. Agr. Exp. Sta. Quart. Bull. 49(4):459-465. May 1967. 100 M58S

CHAMPION, L. R., and ZINDEL, H. C. Poultry science research at the Upper Peninsula Experiment Station, Chatham, Michigan. V. The egg laying pattern of females on litter floors and in single and multiple bird cages. Mich. Agr. Exp. Sta. Quart. Bull. 50(3):262-268. Feb. 1968. 100 M58S

AULERICH, R. J., and SWINDLER, D. R. Description of the permanent dentition of ranch mink. Mich. Agr. Exp. Sta. Quart. Bull. 50(3):269-275. Ref. Feb.1968. 100 M58S

BIXLER, E., SCHAI-  
BLE, P. J., and BANDE-  
MER, S. Preliminary studies on the nutritive value of triticales as chicken feed. Mich. Agr. Exp. Sta. Quart. Bull. 50(3):276-280. Ref. Feb. 1968. 100 M58S

HOOPINGARNER, R. A., and KRAUSE, D. H. The Mackinac Island fly problem. II. Induced insecticide resistance. Mich. Agr. Exp. Sta. Quart. Bull. 50(3):281-284. Feb.1968. 100 M58S

HONMA, S., MURAKISHI, H. H., and WITTWER, S. H. Moto-red, a tobacco mosaic virus resistant greenhouse tomato. Mich. Agr. Exp. Sta. Quart. Bull. 50(3):285-287. Feb.1968. 100 M58S

MARKARIAN, D. Spartan Lakes, a new head lettuce for Michigan mucklands. Mich. Agr. Exp. Sta. Quart. Bull. 50(3):288-292. Feb.1968. 100 M58S

MARKARIAN, D., and ELLIOTT, F. C. A bio-assay of inbred pea lines for differences in nutritional value. Mich. Agr. Exp. Sta. Quart. Bull. 50(3):293-295. Feb.1968. 100 M58S

GRZENDA, A. R., and BALL, R. C. Periphyton production in a warm-water stream. Mich. Agr. Exp. Sta. Quart. Bull. 50(3):296-303. Ref. Feb.1968. 100 M58S

HARLAN, R. L., and WHITE, D. P. Soil moisture accretion and depletion patterns under an old growth hardwood forest. Mich. Agr. Exp. Sta. Quart. Bull. 50(3):304-315. Ref. Feb.1968. 100 M58S

SKOG, R. E. Fifteen-year results of managing a former sugar bush for timber. Mich. Agr. Exp. Sta. Quart. Bull. 50(3):316-323. Feb.1968. 100 M58S

HANSEN, C. M. Granular pesticide metering, a new concept. Mich. Agr. Exp. Sta. Quart. Bull. 50(3):324-330. Feb. 1968. 100 M58S

HANSEN, C. M., LARSEN, R. P., and MONROE, G. Hedge pruning of fruit trees. Mich. Agr. Exp. Sta. Quart. Bull. 50(3):331-341. Feb. 1968. 100 M58S

COLEMAN, M. J., LINDSTROM, R. S., and LARZELERE, H. E. Consumer preferences for rose colors. Mich. Agr. Exp. Sta. Quart. Bull. 50(3):342-354. Feb. 1968. 100 M58S

SPARKS, D., and LARSEN, R. P. Some factors associated with the variation of soluble solids in Concord grapes. Mich. Agr. Exp. Sta. Quart. Bull. 50(3):355-364. Ref. Feb. 1968. 100 M58S

MAGRAB, F. M., HEIFNER, M. E., and EIGSTI, M. H. Communication and family activities: Concepts and applications. Mich. Agr. Exp. Sta. Quart. Bull. 50(3):384-391. Ref. Feb. 1968. 100 M58S

YAPTENCO, R. C., HAROLD, M. R., and WYLLIE, A. E. Pallet manufacturing costs: a case study. Mich. Agr. Exp. Sta. Quart. Bull. 50(3):365-383. Feb. 1968. 100 M58S

HOGlund, C. R. Adjustments on southern Michigan dairy farms. Mich. Agr. Exp. Sta. Res. Rep. 66, 11 p. Jan. 1968. 284.9 M58

JOHNSTON, S., and MOULTON, J. E. Blueberry distribution, variety evaluation and breeding in Michigan. Mich. Agr. Exp. Sta. Res. Rep. 67, 8 p. Mar. 1968. 284.9 M58

Minnesota Agricultural Experiment Station, St. Paul Campus, St. Paul 1

KERCHNER, O. G. Economic aspects of flexible dairy manufacturing plants. Minn. Agr. Exp. Sta. Sta. Bull. 487, 62 p. 1968. 100 M66

Mississippi Agricultural Experiment Station, State College

MISSISSIPPI AGRICULTURAL EXPERIMENT STATION. 1968 crop and fertilizer recommendations for Mississippi. Miss. Agr. Exp. Sta. Bull. 756, 28 p., map. Jan. 1968. 100 M69

MISSISSIPPI farm research 31(3), 8 p. Mar. 1968. 100 M69Mi

MISSISSIPPI farm research 31(4), 8 p. Apr. 1968. 100 M69Mi

Missouri Agricultural Experiment Station, Columbia

LEACH, H. V. Factors affecting costs for alternative meat distribution systems. Mo. Agr. Exp. Sta. Bull. B 866, 30 p. Ref. Jan. 1968. 100 M693

U. S. Department of Agriculture, cooperating.

ZUBER, M. S. Date-of-planting studies with corn in central Missouri. Mo. Agr. Exp. Sta. Bull. B 868, 34 p. Jan. 1968. 100 M693

U. S. Department of Agriculture, cooperating.

POWELL, G. M., and BEASLEY, R. P. Effect of erosion on water infiltration rates. Mo. Agr. Exp. Sta. Res. Bull. 922, 48 p. Ref. Apr. 1967. 100 M693

COLYER, D., and VOGT, F. Farm machinery investment decisions using mixed integer programming. Mo. Agr. Exp. Sta. Res. Bull. 931, 22 p. Dec. 1967. 100 M693

HINDERY, G. A., and TURNER, C. W. Effect of two levels of estradiol benzoate on reinitiation of lactation in dairy cattle. Mo. Agr. Exp. Sta. Res. Bull. 932, 15 p. Ref. Jan. 1968. 100 M693

New Jersey Agricultural Experiment Station, New Brunswick

RIEMER, D. N., and TOTH, S. J. A survey of the chemical composition of aquatic plants in New Jersey. N. J. Agr. Exp. Sta. Bull. 820, 14 p. Mar. 1968. 100 N46S

New Mexico Agricultural Experiment Station, University Park

RUTTLE, J. L., and FINLEY, R. M. Relation of body weight, staple length, and horns in range rams. N. Mex. Agr. Exp. Sta. Res. Rep. 134, 5 p. Jan. 1968. 100 N465R

JENSEN, E. R., and WIDMOYER, F. B. 1966 variety trials of summer-flowering annuals. N. Mex. Agr. Exp. Sta. Res. Rep. 137, 9 p. Dec. 1967. 100 N465R

TAFT, P. H., and OVERPECK, J. C. Climate calendar, New Mexico State University, Las Cruces, New Mexico 1851 to 1966. N. Mex. Agr. Exp. Sta. Res. Rep. 138, 15 p. Jan. 1968. 100 N465R

New York (State) Agricultural Experiment Station, Geneva

CLARK, B. E., and PAGE, H. L. Quality and labeling of seeds sold in New York State in 1967. N. Y. (State) Agr. Exp. Sta. Bull. 820, 47 p. Mar. 1968. 100 N48

North Carolina Agricultural Experiment Station, State College Station, Raleigh

TOBACCO abstracts 12(4):170-260. Apr. 1968. 241 T55

TOBACCO abstracts 12(5):261-342. May 1968. 241 T55

North Dakota Agricultural Experiment Station, State College Station, Fargo

OMODT, H. W., and others. The major soils of North Dakota. N. Dak. Agr. Exp. Sta. Bull. 472, 60 p., map. Jan. 1968. 100 N813

G. A. Johnsgard, D. D. Patterson, and O. P. Olson, joint authors.

MCMARTIN, W., and BERGAN, R. O. Irrigation practices and costs in North Dakota. N. Dak. Agr. Exp. Sta. Bull. 474, 48 p. Mar. 1968. 100 N813

NORTH Dakota farm research 25(3), 16 p. Jan./Feb. 1968. 100 N813B

Ohio Agricultural Research and Development Center, Wooster

NIEHAUS, M. H., and SCHMIDT, W. H. Ohio grain sorghum performance tests for 1967. Ohio Agr. Res. Develop. Cent. Agron. Dep. Ser. 206, 12 p. Jan. 1968. 100 Oh32

MILLER, M. E., and WEAVER, C. R. Monthly and annual precipitation probabilities for climatic divisions in Ohio. Ohio Res. Develop. Center. Res. Bull. 1005, 11 p., map. Mar. 1968. 100 Oh3S

BLEVINS, R. L., and WILDING, L. P. Hoytville soils: Their properties, distribution, management and use. Ohio Agr. Res. Develop. Center. Res. Bull. 1006, 30 p., map. Ref. Mar. 1968. 100 Oh3S

OHIO report on research and development in biology, agriculture, and home economics 53(2), 17-32. Mar./Apr. 1968. 100 Oh3S

Oklahoma Agricultural Experiment Station, Stillwater

GRAY, F., and STAHNKE, C. Characteristics and a new soil classification of key soils developed in the old Reddish Chestnut zone of Oklahoma. Okla. Agr. Exp. Sta. Tech. Bull. T-122, 48 p., map. Mar. 1968. 100 Ok4

Oregon Agricultural Experiment Station, Corvallis

WATTS, D. G., and others. Consumptive use and net irrigation requirements for Oregon. Oreg. Agr. Exp. Sta. Circ. Inform. 628, 40 p., map. Mar. 1968. 100 Or3C

C. R. Dehlinger, J. W. Wolfe, and M. N. Shearer, joint authors.

Oregon State Water Resources Board; and Oregon State University Federal Cooperative Extension Service, cooperating.



RALEIGH, R. J., and TURNER, H. A. 1968 progress report; research in beef cattle nutrition and management. Oreg. Agr. Exp. Sta. Spec. Rep. 251, 19 p. Mar. 1968. 100 Or3M  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.

ELLER, B. R., and MCARTHUR, J. A. B. Feeding on pasture versus dry lot feeding of early weaned lambs implanted with diethylstilbestrol. Oreg. Agr. Exp. Sta. Spec. Rep. 252, 2 p. Mar. 1968. 100 Or3M  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.

BROMLEY, D. W., BLANCH, G. E., and STOEVENER, H. H. Effects of selected changes in Federal land use on a rural economy. Oreg. Agr. Exp. Sta. Sta. Bull. 604, 27 p., map. Ref. Mar. 1968. 100 Or3

#### Pennsylvania Agricultural Experiment Station, University Park

HERRMANN, R. O., and STEMBERGER, A. P. The availability of fresh and processed mushrooms in U.S. supermarkets, spring 1965. Penn. Agr. Exp. Sta. Dep. Agr. Econ. Rural Sociol. A.E. R.S. 60, 13 p. Jan. 1967. 281.9 P38  
NOLL, C. J., and others. 1967 vegetable variety trials. Penn. Agr. Exp. Sta. Progr. Rep. 282, 8 p. Mar. 1968. 100 P381P  
M. L. Odland, M. H. Runner, and C. H. Miller, joint authors.

#### Puerto Rico Agricultural Experiment Station, Rio Piedras

VAZQUEZ, R., and ORTIZ VELEZ, J. Drainage and ground-water research in Lajas Valley, Puerto Rico. P. R. (Rio Piedras) Agr. Exp. Sta. Bull. 206, 66 p., map. Sept. 1967. 100 P83

GONZALEZ VILLAFANE, E., and DIAZ BIRD, Z. Marketing costs and practices of tomato wholesalers in Puerto Rico, 1964. (Sp) P. R. (Rio Piedras) Agr. Exp. Sta. Bull. 207, 35 p., map. Nov. 1967. 100 P83  
English summary.

GONZALEZ VILLAFANE, E., and CONDE RAMIREZ, A. Marketing costs and practices of tomato retailers in Puerto Rico, 1965. (Sp) P. R. (Rio Piedras) Agr. Exp. Sta. Bull. 208, 23 p. Dec. 1967. 100 P83  
English summary.

AVILES CORDERO, M., and ESPINET COLON, G. R. Cost and return data relating to tomato production in Puerto Rico, 1963-64. (Sp) P. R. (Rio Piedras) Agr. Exp. Sta. Bull. 209, 23 p., map. Dec. 1967. 100 P83  
English summary.

PRINGLE, G. E., and SOTO AGUAYO, J. Census of sugarcane varieties grown in Puerto Rico, 1967. (Sp) P. R. (Rio Piedras) Agr. Exp. Sta. E. & S. R. 72, 50 p., map. Ref. Jan. 1968. 100 P83Es  
English summary.

PUERTO RICO. AGRICULTURAL EXPERIMENT STATION. Evaluation of vegetable varieties in the substations of Fortuna, Lajas and Isabela. (Sp) P. R. (Rio Piedras) Agr. Exp. Sta. Misc. Publ. 65, 17 p. Mar. 1968. 100 P83Mp  
English summary.

#### Rhode Island Agricultural Experiment Station, Kingston

GRADY, E. R. Values and attitudes of selected homemakers in economically deprived families toward housing. R. I. Agr. Exp. Sta. Bull. 391, 35 p. Ref. Oct. 1967. 100 R34S

SPAULDING, I. A. Occupational and free-time activities: Euphoria-tension levels and selected influencing factors. R. I. Agr. Exp. Sta. Bull. 393, 22 p. Dec. 1967. 100 R34S

BROWN, J. H., and GOULD, W. P. Regeneration following cutting in a mixed-oak [*Quercus*] stand in Rhode Island. R. I. Agr. Exp. Sta. Bull. 394, 16 p. 1967. 100 R34S

#### South Carolina Agricultural Experiment Station, Clemson

MALPHRUS, L. D., and LYTLE, J. S. An analysis of South Carolina corn prices. S. C. Agr. Exp. Sta. AE 308, 23 p. Nov. 1967. 281.9 C59

VON TUNGELN, G. R., and SKELTON, B. R. The economic feasibility of establishing a sweet potato canning plant in Horry County, South Carolina. S. C. Agr. Exp. Sta. AE 310, 26 p. Jan. 1968. 281.9 C59  
Horry County Development Board (South Carolina), cooperating.

BURCH, T. A. Farm machinery custom rates, South Carolina. S. C. Agr. Exp. Sta. AE 311, 46 p., map. Feb. 1968. 281.9 C59

SOUTH CAROLINA. AGRICULTURAL EXPERIMENT STATION. Inspection and analysis of commercial fertilizers, 1966-67. S. C. Agr. Exp. Sta. Bull. SB 536, 48 p. Nov. 1967. 100 So8

EDWARDS, R. L., and others. A comparison of drylot and supplemented pasture systems for finishing beef cattle. S. C. Agr. Exp. Sta. Bull. 537, 36 p. Ref. Feb. 1968. 100 So8

G. C. Skelley, D. W. Eaddy, W. C. Godley, R. F. Wheeler, J. W. Hubbard, and H. C. Gilliam, joint authors.

U. S. Department of Agriculture, cooperating.

DREW, L. O., and others. Mechanical harvesting of snap beans for fresh market. S. C. Agr. Exp. Sta. Bull. 538, 28 p. Dec. 1967. 100 So8

C. E. Hood, W. L. Ogle, and G. R. Von Tungeln, joint authors.

OGLE, W. L., FLEMING, M. J., and ALTMAN, C. D. A progress report on herbicide studies conducted with vegetable crops in 1966. S. C. Agr. Exp. Sta. Dep. Hort. Res. Ser. 93, 15 p. Jan. 1967. SB21.S6

SENN, T. L., and others. Effect of humic acid derivatives on the conversion of ammonium nitrogen in sandy loam soil. S. C. Agr. Exp. Sta. Dep. Hort. Res. Ser. 96, 31 p. Feb. 1967. SB21.S6

G. E. Stenbridge, E. T. Sims, and J. H. Crawford, joint authors.

GARRETT, J. T. The measurement of endogenous gibberellin-like substances in the developing peach fruit. S. C. Agr. Exp. Sta. Dep. Hort. Res. Ser. 97, 43 p. Ref., p. 41-43. Feb. 1967. SB21.S6

SIMS, E. T., and GAMBRELL, C. E. The quality and maturity of Ranger peaches as influenced by six plant growth regulators applied as post-bloom sprays in 1965. S. C. Agr. Exp. Sta. Dep. Hort. Res. Ser. 98, 26 p. Ref. Feb. 1967. SB21.S6

STEMBRIDGE, G. E. Some effects of growth regulator sprays on vegetative growth and flower bud formation in young Red Delicious apple trees. S. C. Agr. Exp. Sta. Dep. Hort. Res. Ser. 99, 9 p. Mar. 1967. SB21.S6

FERREE, M. E., and STEMBRIDGE, G. E. The effects of n-dimethyl amino succinamic acid on flower bud development, vegetative growth and fruit quality of Red Delicious apples. S. C. Agr. Exp. Sta. Dep. Hort. Res. Ser. 100, 47 p. Ref., p. 45-47. Apr. 1967. SB21.S6

GAMBRELL, C. E., RHODES, W. H., and SIMS, E. T. Some effects of four growth regulations on thinning, yield, size and maturity of Ranger peaches when applied for one year and two years in succession. S. C. Agr. Exp. Sta. Dep. Hort. Res. Ser. 101, 21 p. May 1967. SB21.S6

GAMBRELL, C. E., and RHODES, W. H. The influence of several residual and contact herbicides on weed control and growth of young peach trees. S. C. Agr. Exp. Sta. Dep. Hort. Res. Ser. 102, 12 p. May 1967. SB21.S6

CRAWFORD, J. H., SENN, T. L., and STEM-BRIDGE, G. E. The influence of humic acid fractions on sprout production and yield of the Carogold sweet potato. S. C. Agr. Exp. Sta. Tech. Bull. 1028, 16 p. Jan. 1968. 100 So8T

#### South Dakota Agricultural Experiment Station, Brookings

SEAS, S. W., and SPURGEON, K. R. New spread-type dairy product. S. Dak. Agr. Exp. Sta. Bull. 543, 23 p. Ref. Apr. 1968. 100 So82

SOUTH Dakota farm and home research 18(2), 20 p. Spring 1967. 100 So82S

SOUTH Dakota farm and home research 19(1), 28 p. Winter 1968. 100 So82S

#### Tennessee Agricultural Experiment Station, Knoxville

PARKS, W. L., SAFLEY, L. M., and LATHAM, D. H. Fertilization of dark tobacco. Tenn. Agr. Exp. Sta. Bull. 427, 35 p. July 1967. 100 T25S

BARTH, K. M., and MOHAMMED, A. S. Evaluation of two in vitro fermentation methods for estimating the nutritive value of mixed rations for beef cattle. Tenn. Agr. Exp. Sta. Bull. 430, 18 p. Sept. 1967. 100 T25S

CHANDLER, P. T., CRAGLE, R. G., and GARDNER, D. A. An investigation of the nutrition of the young dairy calf by response surface techniques. I-II. Tenn. Agr. Exp. Sta. Bull. 429, 40 p. Ref. Sept. 1967. 100 T25S

U. S. Atomic Energy Commission, cooperating.

GRAVES, C. R., and others. 1963-66 performance of cotton varieties harvested by hand and spindle-picked. Tenn. Agr. Exp. Sta. Bull. 433, 74 p. Oct. 1967. 100 T25S

P. E. Hoskinson, J. R. Overton, and T. McCutchen, joint authors.

BOONE, L. M., and LARD, C. F. Changes in Tennessee agriculture by counties 1954-1964. Tenn. Agr. Exp. Sta. Bull. 435, 66 p., map. Dec. 1967. 100 T25S

TENNESSEE farm and home science progress report 62, 24 p. Apr./June 1967. 100 T25F

#### Texas Agricultural Experiment Station, College Station

SORENSEN, J. W., and PERSON, N. K. Harvesting and drying selected forage crops. Tex. Agr. Exp. Sta. B-1071, 16 p. Ref. Nov. 1967. 100 T31S

GRAVES, J. W. Raw cotton requirements of textile mills; implications for Southwestern cotton. Tex. Agr. Exp. Sta. B-1072, 16 p., map. Dec. 1967. 100 T31S

NILES, G. A., and RICHMOND, T. R. Release of primary breeding stocks of cotton. Tex. Agr. Exp. Sta. MP-867, 2 p. Jan. 1968. 100 T31M

AKHTAR, M. I., and MULLINS, T. Optimum resource use on a representative rice farm under selected tenure situations, acreage allotments and rice prices—Coast Prairie of Texas. Tex. Agr. Exp. Sta. MP-868, 15 p., map. Jan. 1968. 100 T31M

HUBBARD, J. L. Performance of cotton varieties, Lower Rio Grande Valley Research and Extension Center, 1963-67. Tex. Agr. Exp. Sta. MP-870, 2 p. Feb. 1968. 100 T31M

ONKEN, A. B., and ROBERTSON, W. Time and rate of nitrogen application on grain sorghum. Tex. Agr. Exp. Sta. Progr. Rep. 2534, 9 p. Apr. 2, 1968. 100 T31P

BOWEN, H. H. Efficiency of two chemical thinners on Redskin peaches as affected by wind, temperature and relative humidity. Tex. Agr. Exp. Sta. Progr. Rep. 2535, 3 p. Apr. 8, 1968. 100 T31P

WENDT, C. W., and RUNKLES, J. R. A study of potential evaporation suppressants under greenhouse conditions: Evaluation. I. Tex. Agr. Exp. Sta. Progr. Rep. PR-2510, 10 p. Feb. 9, 1968. 100 T31P

WOOD, J. R. Soybean research, Rich-Pasture Research and Extension Center, 1967. Tex. Agr. Exp. Sta. Progr. Rep. PR-2529, 6 p. Feb. 27, 1968. 100 T31P

MCBEE, G. G., and SURLS, L. E. Some effects of certain benzoic, phenoxyacetic and phenoxypropionic acid derivatives on St. Augustinegrass [*Stenotaphrum secundatum*]. Tex. Agr. Exp. Sta. Progr. Rep. PR-2530, 5 p. Mar. 25, 1968. 100 T31P

KYLE, J. H. Dry bean yields on the High Plains of West Texas, 1966-67. Tex. Agr. Exp. Sta. Progr. Rep. PR 2532, 3 p. Mar. 25, 1968. 100 T31P

KYLE, J. H. Relationship of seed size to seeding rate in carrot production. Tex. Agr. Exp. Sta. Progr. Rep. PR-2533, 3 p. Mar. 27, 1968. 100 T31P

SHARP, W. W., and BOYKIN, C. C. A dynamic programming model for evaluating investments in mesquite control and alternative beef cattle systems. Tex. Agr. Exp. Sta. Tech. Monogr. 4, 38 p., map. Sept. 1967. 100 T31Tec

U. S. Department of Agriculture, cooperating.

#### Vermont Agricultural Experiment Station, Burlington

BEVINS, M. I., and TREMBLAY, R. H. Dairy farming trends in Vermont. Vt. Agr. Exp. Sta. Misc. Publ. 49, 28 p. July 1967. 100 V59M

VERMONT farm and home science 10(2), 12 p. Winter 1968. 100 V593

#### Virginia Agricultural Experiment Station, Blacksburg

MARTENS, D. C., BRYANT, H. T., and PETERSON, J. R. Response of corn to boron fertilization of six northern Virginia soils. Va. Agr. Exp. Sta. Res. Rep. 120, 9 p. Ref. Mar. 1967. 100 V81R

#### Washington Agricultural Experiment Stations, Pullman

SLOCUM, W. L. Educational aspirations and expectations of students in rural Washington high schools. Wash. Agr. Exp. Sta. Bull. 690, 23 p. Ref. Jan. 1968. 100 W27E

DITWILER, C. D. Water transfer in Washington; institutional and legal framework. Wash. Agr. Exp. Sta. Bull. 693, 16 p. Ref. Feb. 1968. 100 W27E

BRUEHL, G. W., and others. Experiments with *Cercospora* [herpotrichoides] foot rot (straw breaker) disease of winter wheat. Wash. Agr. Exp. Sta. Bull. 694, 14 p., map. Ref. Apr. 1968. 100 W27E

W. L. Nelson, F. Koehler, and O. A. Vogel, joint authors.

U. S. Department of Agriculture, cooperating.

GALGAN, M. W., and RUSSELL, T. S. Use of Dyna-farm and monosodium glutamate in rations for lambs. Wash. Agr. Exp. Sta. Bull. 695, 4 p. Apr. 1968. 100 W27E

MUELLER, R. G. Costs of cow-calf ranching in northern interior Washington. Wash. Agr. Exp. Sta. Circ. 481, 22 p. Jan. 1968. 100 W27S

EVANS, D. W. Sudangrass and sorghum-sudangrass hybrid variety trials. Wash. Agr. Exp. Sta. Circ. 482, 8 p. Mar. 1968. 100 W27S

EVANS, D. W. The effect of post-harvest drought on Kentucky bluegrass [*Poa pratensis*] seed production. Wash. Agr. Exp. Sta. Circ. 484, 5 p. Apr. 1968. 100 W27S

WHITTLESEY, N. K., and COLYAR, L. J. Decision-making under conditions of weather uncertainty in the summer fallow-annual cropping area of eastern Washington. Wash. Agr. Exp. Sta. Tech. Bull. 58, 24 p., map. Mar. 1968. 100 W27T



West Virginia Agricultural Experiment Station,  
Morgantown

- DORSEY, C. K. Experimental control of insect pests of alfalfa in West Virginia, other than the alfalfa weevil [*Hypera postica*], 1959-1964. W. Va. Agr. Exp. Sta. Bull. 549T, 39 p. Ref. June 1967. 100 W52
- DICKERSON, W. H., CANFIELD, N. L., and HAVENS, A. V. Regional research in agricultural climatology in the northeastern United States; a ten-year summary, 1956-1966. West. Va. Agr. Exp. Sta. Misc. Publ. 4, 8 p. 1967. S127.E2
- Northeast Regional Research Publication.

**REGIONAL PUBLICATIONS**

North Central Region

- ELLIS, N. K., and others. Market grades and standards for carnations, chrysanthemums, and roses. Ill. Agr. Exp. Sta. Bull. 727, 23 p. Ref. Jan. 1968. 100 IL6S
- J. R. Culbert, F. C. Gaylord, C. E. Hoxsie, C. H. Sherwood, R. W. Campbell, W. J. Carpenter, D. P. Watson, R. S. Lindstrom, R. E. Widmer, H. F. Wilkins, J. C. Grady, J. E. Smith, V. J. Miller, H. O. Werner, G. Viehmeyer, J. O. Young, D. G. Hoag, L. C. Chadwick, D. G. Kiplinger, J. C. Rawson, G. E. Beck, L. M. Berninger, L. C. Martin, J. V. Powell, L. C. Halvorson, D. Y. Perkins, and R. J. Saville, joint authors.
- Agricultural Experiment Stations of Alaska, Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, Wisconsin; and U. S. Department of Agriculture, cooperating.
- Also North Central Regional Research Publication No. 173.

- SAUPE, W. E., and KALDOR, D. R. Efficient organization of the farm industry in the North Central Region of the United States in 1959 and 1980. Iowa. Agr. Home Econ. Exp. Sta. Res. Bull. 560, 49 p., map. Ref. Mar. 1968. 100 Io9
- Agricultural Experiment Stations of Alaska, Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, Wisconsin; and U. S. Department of Agriculture, cooperating.
- Also North Central Regional Research Publication No. 182.

Southern Cooperative Series

- DIXON, J. B., and NASH, V. E. Chemical, mineralogical and engineering properties of Alabama and Mississippi Black Belt soils. S. Coop. Ser. 130, 69 p. Feb. 1968. 100 G29S0
- Agricultural Experiment Stations of Alabama and Mississippi; and U. S. Department of Agriculture, cooperating.

STATE AGRICULTURAL EXTENSION SERVICE  
PUBLICATIONS

Publications issued by the State Agricultural Extension Service are usually available from the issuing extension service, except where noted, and as long as the supply lasts. The National Agricultural Library does not distribute them.

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ALABAMA - Auburn University, Agricultural Extension Service, Auburn

LEDBETTER, R. J., and GILLILAND, F. R. 1968 guide to the control of cotton insects in Alabama. Auburn Univ. Ext. Circ. P-12,8 p.-folder. Feb.1968. 275.29 AL14Cp

ARIZONA University, Agricultural Extension Service, Tucson

ARIZONA, UNIVERSITY. AGRICULTURAL EXTENSION SERV. Arizona farm & home publications of the University of Arizona Cooperative Extension Service and Agricultural Experiment Station. Ariz. Univ. Ext. Folder 68,rev., 15 p. Jan.1968. 275.29 Ar42Ext

ARIZONA, UNIVERSITY. AGRICULTURAL EXTENSION SERV. Arizona Dairy Herd Improvement Associations annual summary, October 1966-September 1967, by W. R. Van Sant. Tucson, 1967? 29 p. 275.29 AR42AD

ARKANSAS University, Agricultural Extension Service, Little Rock

JOHNSON, J. S. Furniture refinishing. Ark. Univ. Ext. Circ. 478,rev.,22 p. Oct.1967. 275.29 Ar4

ROBERTS, J. E., and BARNES, G. Control peach tree borer on peach and plum trees. Ark. Univ. Ext. Leaf. 91,rev.,4 p. Mar.1968. 275.29 Ar4Le

ROBERTS, J. E., and BARNES, G. Spraying and dusting tomatoes. Ark. Univ. Ext. Leaf. 217,rev.,8 p.-folder. Mar.1968. 275.29 Ar4Le

ROBERTS, J. E., and BARNES, G. Vegetable insect control recommendations for commercial growers. Ark. Univ. Ext. Leaf. 291,rev., 2 p. Feb.1968. 275.29 Ar4Le

BARNES, G., and ROBERTS, J. E. Rice insect control recommendations. Ark. Univ. Ext. Leaf. 330,rev.,6 p.-folder. Feb.1968. 275.29 Ar4Le

WHITE, L. The economics of fertilizer use in Arkansas. Ark. Univ. Ext. Leaf. 420,12 p.-folder. Jan.1968. 275.29 Ar4Le

ATKINSON, T. E., WILLIAMS, J. B., and RYKER, D. E. Arkansas, a growing State. Ark. Univ. Ext. Misc. Publ. MP 101,8 p.-folder. June 1967. 275.29 Ar4Mi

CALIFORNIA University, Agricultural Extension Service, Berkeley

HOUSTON, C. E. Drainage of irrigated land. Calif. Univ. Ext. Circ. 504,rev.,40 p.,map. Dec.1967. 100 C12S

RAGUSE, C. A., BERRY, L. J., and STREET, J. E. Irrigated pastures in California. Calif. Univ. Ext. Circ. 545,35 p. Nov.1967. 100 C12S

Published jointly with California Agricultural Experiment Station.

SIEBERT, J. B. An analysis of the California potato industry's market alternatives. Calif. Univ. Ext. Inform. Ser. Agr. Econ. 67-2,47 p., map. Ref. Dec.1967. 275.29 C121

Giannini Foundation of Agricultural Economics, cooperating.

COLORADO State University, Cooperative Extension Service, Fort Collins

COLORADO, STATE UNIVERSITY. COOPERATIVE EXTENSION SERV. 1968 tree fruit spray guide. Colo. State Univ. Ext. Gen. Ser. 858, 13 p. Mar.1968. 100 C71G

Published jointly with Colorado Experiment Station.

COLORADO, STATE UNIVERSITY. COOPERATIVE EXTENSION SERV. 1968 insect control guide for Colorado. I. Field crops. Colo. State Univ. Ext. Gen. Ser. 859,22 p. Jan.1968. 100 C71G

Published jointly with Colorado Experiment Station.

Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.

COLORADO, STATE UNIVERSITY. COOPERATIVE EXTENSION SERV. 1968 insect control guide for Colorado. II. Vegetable crops. Colo. State Univ. Ext. Gen. Ser. 860,23 p. Jan.1968. 100 C71G

Published jointly with Colorado Experiment Station.

Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.

COLORADO, STATE UNIVERSITY. COOPERATIVE EXTENSION SERV. 1968 insect control guide for Colorado. III. Livestock pests. Colo. State Univ. Ext. Gen. Ser. 861,15 p. Jan.1968. 100 C71G

Published jointly with Colorado Experiment Station.

FLORIDA University, Agricultural Extension Service, Gainesville

FLORIDA, UNIVERSITY. AGRICULTURAL EXTENSION SERV. How to profitably increase litter size. Fla. Univ. Ext. Circ. 320,8 p. Jan. 1968. 275.29 F66C

JONES, D. W. Bahiagrass in Florida. Fla. Univ. Ext. Circ. 321,9 p.-folder. Jan.1968. 275.29 F66C

ALSTON, C. Partial budgeting (an aid in farm business planning). Fla. Univ. Ext. Circ. 323, 7 p. Mar.1968. 275.29 F66C

GEORGIA University, College of Agriculture, Extension Service, Athens

MCGLOHON, N. E., HARRIS, E. D., and TAYLOR, J. Georgia apple disease and insect control guide. Ga. Univ. Ext. Bull. 643,rev.,12 p. Mar.1968. 275.29 G29B

SMITH, O. C., and GOLDEN, W. I. Let's get better acquainted with agriculture. Ga. Univ. Ext. Bull. 666,8 p. Jan.1967. 275.29 G29B

MCGLOHON, N. E. Control diseases in your home garden! Ga. Univ. Ext. Bull. 667,11 p. Feb.1968. 275.29 G29B

HARRIS, E. D. Control sweet potato insects. Ga. Univ. Ext. Bull. 668,10 p. Mar.1968. 275.29 G29B

WOMACK, H., JORDAN, C. R., and FRENCH, J. C. Control cotton insects! Ga. Univ. Ext. Circ. 501,rev.,16 p. Mar.1968. 275.29 G29C

Published jointly with Georgia Agricultural Experiment Station.

COX, C. J. Wash them right. Ga. Univ. Ext. Circ. 532,8 p.-folder. Feb.1968. 275.29 G29C

HARRIS, E. D. Corn earworm [*Heliothis zea*] and fall armyworm [*Spodoptera frugiperda*] on sweet corn. Ga. Univ. Ext. Leaf. 80,8 p.-folder. Apr.1968. 275.29 G29L

HAWAII University, Agricultural Extension Service, Honolulu

ORR, K. J., and GASCON, H. C. About Japanese foods. Hawaii. Univ. Ext. Home Econ. Circ. 340,6 p.-folder. Dec.1967. 275.29 H312H



ORR, K. J., and GASCON, H. C. About Chinese foods. Hawaii. Univ. Ext. Home Econ. Circ. 341,6 p.-folder. Dec.1967. 275.29 H312H

GASCON, H. C., and ORR, K. J. Pupus—hors d'oeuvres—Hawaiian style. Hawaii. Univ. Ext. Home Econ. Circ. 342,6 p.-folder. Dec.1967. 275.29 H312H

GASCON, H. C., and ORR, K. J. About Korean foods. Hawaii. Univ. Ext. Home Econ. Circ. 344,6 p.-folder. Dec.1967. 275.29 H312H

GASCON, H. C., and ORR, K. J. About Portuguese foods. Hawaii. Univ. Ext. Home Econ. Circ. 345,6 p.-folder. Dec.1967. 275.29 H312H

GASCON, H. C., and ORR, K. J. About [Hawaiian] Island vegetables. Hawaii. Univ. Ext. Home Econ. Circ. 346,6 p.-folder. Dec.1967. 275.29 H312H

GASCON, H. C., and ORR, K. J. About Filipino foods. Hawaii. Univ. Ext. Home Econ. Circ. 347,6 p.-folder. Dec.1967. 275.29 H312H

HUGH, W. I. Breeding stock selection for commercial swine production. Hawaii. Univ. Ext. Circ. 422,24 p. Nov.1967. 275.29 H312Ac

AKANA, D. A. Lawns for island homes: Choosing a grass for your lawn. Hawaii. Univ. Ext. Circ. 425,24 p. Mar.1968. 275.29 H312Ac

AKANA, D. A. Lawns for island homes: Planting a new lawn. Hawaii. Univ. Ext. Circ. 426, 20 p. Mar.1968. 275.29 H312Ac

ORR, K. J. About Hawaiian foods and ancient food customs. Hawaii. Univ. Ext. Home Econ. Circ. 343,6 p.-folder. Dec.1967. 275.29 H312H

#### IDAHO University, College of Agriculture, Extension Service, Moscow

TANKERSLEY, H. C., and DUREN, E. Horse sense and safety for the beginner. Idaho. Agr. Coll. Ext. Bull. 492,25 p. Jan.1968. 100 Id14

ALDEN, H. R., and SAMSON, R. S. So you're planning an outdoor recreation business. Idaho. Agr. Coll. Ext. Bull. 493,8 p. Feb.1968. 100 Id14

HALL, R. F. Diseases causing abortions in cattle. Idaho. Univ. Ext. Idaho. Curr. Inform. Ser. 63,2 p. Jan.1968. 275.29 Id13Idc

FRANK, F. W., WALDHAM, D. G., and HALL, R. F. Vibriosis of cattle. Idaho. Univ. Ext. Idaho. Curr. Inform. Ser. 64,2 p. Feb.1968. 275.29 Id13Idc

PORTMAN, R. W. Toxicity of insecticides to insect pollinators. Idaho. Univ. Ext. Idaho. Curr. Inform. Ser. 67,2 p. Feb.1968. 275.29 Id13Idc

TORELL, P. J., and HIGGINS, R. E. Weed control in alfalfa seed crops. Idaho. Univ. Ext. Idaho. Curr. Inform. Ser. 68,4 p. Mar.1968. 275.29 Id13Idc

Published jointly with Idaho Agricultural Experiment Station.

#### ILLINOIS University, Cooperative Extension Service in Agriculture and Home Economics, Urbana

ILLINOIS. UNIVERSITY. COOPERATIVE EXTENSION SERV. IN AGRICULTURE AND HOME ECONOMICS. Illinois agronomy handbook 1968. Ill. Univ. Ext. Circ. 976,38 p.,map. Dec.1967. 275.29 IL62C

MEYERHOLZ, G. W., and FRYMAN, L. R. The Illinois mastitis control program. Ill. Univ. Ext. Circ. 979,8 p.-folder. Mar.1968. 275.29 IL62C

Illinois Mastitis Council, cooperating.

CARBONNEAU, M. C. Care of flowering potted plants. Ill. Univ. Ext. Circ. 980,6 p.-folder. Mar.1968. 275.29 IL62C

COURTER, J. W., and VANDEMARK, J. S. Growing tomatoes at home. Ill. Univ. Ext. Circ. 981,12 p.,map. Apr.1968. 275.29 IL62C

BUTLER, J. D., BRITTON, M. P., and RANDELL, R. Keeping a lawn. Ill. Univ. Ext. Circ. 982,15 p. Mar.1968. 275.29 IL62C

ILLINOIS. UNIVERSITY. COOPERATIVE EXTENSION SERV. IN AGRICULTURE AND HOME ECONOMICS. Report of Dairy Herd Improvement Associations in Illinois, February, 1968, by J. G. Cash, L. R. Fryman, G. W. Harpestad, and R. V. Johnson. Urbana, 1968. 12 p.,map. 275.29 IL622

#### IOWA State University of Science and Technology, Cooperative Extension Service, Ames

HARTMAN, J. J. Characteristics and structure of Iowa's population. Iowa. State Univ. Ext. Spec. Rep. 57,18 p.,map. Mar.1968. 100 Io9Sp

#### KENTUCKY University, Agricultural Extension Service, Lexington

MCCLURE, W. R., PHILLIPS, S. H., and HERRON, J. W. No-tillage systems for grain production. Ky. Univ. Ext. Leaflet. 310,8 p.-folder. Feb.1968. 275.29 K415Le

#### MARYLAND University, Cooperative Extension Service, College Park

BEAL, G. M., ISHEE, S., and WYSONG, J. W. Farm programs: some observations and ideas. Md. Univ. Ext. Agr. Econ. Inform. Ser. 35,37 p. June 1966. 275.29 M36Ag4

#### MICHIGAN State University of Agriculture and Applied Science, Cooperative Extension Service, East Lansing

CONNOR, L. J., and others. Michigan farm management handbook. Mich. State Univ. [Ext.] Agr. Econ. Rep. 36,84 p. Oct.1967. 281.9 M5842

G. L. Benjamin, J. R. Brake, and W. F. Lee, joint authors.

CONNOR, L. J. Costs and returns for major cash crops in southern Michigan. Mich. State Univ. [Ext.] Agr. Econ. Rep. 87,37 p.,map. Nov.1967. 281.9 M5842

DUVICK, R. D. Trends in the use of major fertilizer nutrients on Michigan cropland and pasture. Mich. State Univ. [Ext.] Agr. Econ. Rep. 88,19 p.,map. Dec.1967. 281.9 M5842

PUTNAM, A. R., and others. Chemical weed control for horticultural crops. Mich. State Univ. Ext. Ext. Bull. 433,rev.,11 p. Feb.1968. 275.29 M58B

S. K. Ries, J. Hull, and R. P. Larsen, joint authors.

NICKLOW, C., and DOWNES, J. Commercial production of asparagus in Michigan. Mich. State Univ. Ext. Ext. Bull. 598,8 p. Jan.1968. 275.29 M58B

MEGGITT, W. F., and ERDMANN, M. H. Weed control in field crops. Mich. State Univ. Ext. Ext. Bull. E-434,8 p. Mar.1968. 275.29 M58B

MICHIGAN. STATE UNIVERSITY OF AGRICULTURE AND APPLIED SCIENCE. COOPERATIVE EXTENSION SERV. The money world of your young teen-ager. Mich. State Univ. Ext. Ext. Bull. E-611,6 p.-folder. Mar.1968. 275.29 M58B

STOVER, H. E., and TREE, J. A. Cleaning and adjusting your sewing machine. Mich. State Univ. Ext. Ext. Bull. E-612,8 p. Apr.1968. 275.29 M58B

BOYD, J. S. Pole building buying guide and specification sheet. Mich. State Univ. Ext. Ext. Bull. E-617,4 p. Mar.1968. 275.29 M58B

MICHIGAN. STATE UNIVERSITY OF AGRICULTURE AND APPLIED SCIENCE. COOPERATIVE EXTENSION SERV. Play and your child's development. Mich. State Univ. Ext. Ext. Publ. 605,12 p. Mar.1968. 275.29 M58B

#### MINNESOTA University, Agricultural Extension Service, St. Paul

RYAN, D. M. Cold hog finishing houses with either slats or bedding. Minn. Univ. Ext. M-133,rev.,9 p. Mar.1968. 275.29 M66Ps

MUNSON, S. T., and others. Freezing foods for home use. Minn. Univ. Ext. Ext. Bull. 244, rev., 57 p. 1968. 275.29 M66S

J. D. Winter, M. L. Hamre, and C. E. Allen, joint authors.

HERTZ, L. B., and STUSHNOFF, C. Fruit for the home. Minn. Univ. Ext. Ext. Bull. 255, 35 p., map. 1968. 275.29 M66S

LOFGREN, J. A., and CUTKOMP, L. K. Insecticides and their uses in Minnesota, 1968.

Minn. Univ. Ext. Ext. Bull. 263, rev., 36 p. Mar. 1968. 275.29 M66S

MIKESH, V., and KEAN, T. Game animals from field to kitchen. Minn. Univ. Ext. Ext. Bull. 345, 15 p. 1968. 275.29 M66S

MIKESH, V., and KEAN, T. Game birds from field to kitchen. Minn. Univ. Ext. Ext. Bull. 346, 11 p. 1968. 275.29 M66S

LARSEN, D. M., MILES, W. R., and SMITH, M. E. Planting trees in Minnesota. Minn. Univ. Ext. Ext. Bull. 350, 12 p., map. 1968. 275.29 M66S

LOFGREN, J. A., and SOLAC, R. B. Pests and parasites of hogs. Minn. Univ. Ext. Ext. Folder 208, rev., 8 p.-folder. 1968. 275.29 M66Ex

MINNESOTA. UNIVERSITY. AGRICULTURAL EXTENSION SERV. Principal stored grain insects. Minn. Univ. Ext. Ext. Folder 233, 2 p. Jan. 1968. 275.29 M66Ex

MINNESOTA. UNIVERSITY. AGRICULTURAL EXTENSION SERV. Common household pests. Minn. Univ. Ext. Ext. Folder 234, 2 p. Jan. 1968. 275.29 M66Ex

MINNESOTA. UNIVERSITY. AGRICULTURAL EXTENSION SERV. Common tree and shrub pests. Minn. Univ. Ext. Ext. Folder 235, 2 p. Jan. 1968. 275.29 M66Ex

MINNESOTA. UNIVERSITY. AGRICULTURAL EXTENSION SERV. Corn insects—above ground. Minn. Univ. Ext. Ext. Folder 236, 2 p. Jan. 1968. 275.29 M66Ex

MINNESOTA. UNIVERSITY. AGRICULTURAL EXTENSION SERV. Corn insects—below ground. Minn. Univ. Ext. Ext. Folder 237, 2 p. Jan. 1968. 275.29 M66Ex

KALDENBERG, R. E. Grain drying tables. Minn. Univ. Ext. Ext. Folder 239, 19 p. Feb. 1968. 275.29 M66Ex

BAIERL, T. Jeans and wash slacks for children; buymanship series. Minn. Univ. Ext. Ext. Pam. 220, 4 p. Feb. 1967. 275.29 M66P

DUNHAM, W. C. Labels tell the inside story. N. H. Univ. Ext. Consum. Leaflet. 2, 6 p.-folder 1967. HC110.C6C63

MINNESOTA. UNIVERSITY. AGRICULTURAL EXTENSION SERV. Publications. St. Paul, 1968. 33 p. 275.29 M664

Published jointly with Minnesota Agricultural Experiment Station.

NEW JERSEY - Rutgers State University, College of Agriculture, Extension Service, New Brunswick

WRIGHT, F. A., and OLESKIE, E. T. New Jersey dairying: Challenge those fresh cows! Rutgers State Univ. Ext. Leaflet. 434, 4 p. Jan. 1968. 275.29 N46L

NEW MEXICO State University, Agricultural Extension Service, University Park

JARVIS, G. J., HOFF, G., and LEEDY, C. D. Land judging. N. Mex. State Univ. Ext. Circ. 406, 14 p. Dec. 1967. 275.29 N463E

NORTH CAROLINA University, Extension Service, State College Station, Raleigh

COVINGTON, H. M., and others. Grow quality sweet potatoes. N. C. Univ. Ext. Ext. Circ. 353, rev., 31 p. Jan. 1968. 275.29 N811

D. T. Pope, L. J. Kushman, L. W. Nielsen, D. V. Phillips, H. E. Scott, C. H. Brett, J. V. Baird, and E. A. Proctor, joint authors.

HOBBS, L. H. Lumber manufacturing defects in the planing mill. N. C. Univ. Ext. Misc. Ext. Publ. 25, 31 p. Ref. Oct. 1967. S544.3.N6N6

NEW YORK - Cornell University, State College of Agriculture, Extension Service, Ithaca

DICKSON, A., HEIT, C. E., and STONE, E. L. Growing trees in small nurseries. Cornell Univ. Ext. Cornell Ext. Bull. 1198, 21 p. Mar. 1968. 275.29 N48E

RHODE ISLAND University, Extension Service in Agriculture and Home Economics, Kingston

HINDLE, R. J., and LARMIE, W. E. Perennials in Rhode Island. R. I. Univ. Agr. Ext. Bull. 195, 11 p. Dec. 1967. 275.29 R34

SOUTH CAROLINA - Clemson University, Extension Service, Clemson

ROGERS, H. V. Fluid fertilizers. Clemson Univ. Ext. Circ. 498, rev., 8 p.-folder. Jan. 1968. 275.29 So8E

ROGERS, H. V., and others. How to grow more high quality soybeans. Clemson Univ. Ext. Circ. 501, rev., 4 p., map. Feb. 1968. 275.29 So8E

C. N. Nolan, F. H. Smith, W. C. Nettles, M. C. McKenzie, and C. A. Thomas, joint authors.

ROGERS, H. V., NOLAN, C. N., and HARVEY, L. H. Produce quality cotton in South Carolina. Clemson Univ. Ext. Cotton Leaflet. 1, rev., 8 p.-folder. Feb. 1968. 275.29 So86C

NETTLES, W. C., SMITH, F., and SPARKS, L. M. Control cotton diseases. Clemson Univ. Ext. Cotton Leaflet. 2, 8 p.-folder. Feb. 1968. 275.29 So86C

ANDERSON, L. P. 1968 spring planting schedule; major South Carolina field crops. Clemson Univ. Ext. Inform. Card 107, rev., chart. Jan. 1968. 275.29 So8I

ROGERS, H. V., and NOLAN, C. N. Plan to make high corn yields. Clemson Univ. Ext. Inform. Card 113, rev., 4 p. Feb. 1968. 275.29 So8I

PARDUE, F. Feeding dairy cows in South Carolina. Clemson Univ. Ext. Dairy Sci. Ext. Leaflet. 1, rev., 8 p.-folder. Jan. 1968. 275.29 C593

SOUTH DAKOTA State University, Cooperative Extension Service, Brookings

SANDERSON, E. E., and WOOD, L. S. Spring wheat production. S. Dak. State Univ. Ext. FS 383, 6 p.-folder. Jan. 1968. 275.29 So85Fs

SANDERSON, E. E., and WOOD, L. S. Oat production in South Dakota. S. Dak. State Univ. Ext. FS 384, 4 p. Jan. 1967. 275.29 So85Fs

EASTON, E. K. Accent on accessories. S. Dak. State Univ. Ext. FS 386, 4 p. Jan. 1968. 275.29 So85Fs

PRASHAR, P., and MARTIN, D. 1968 vegetable varieties for South Dakota. S. Dak. State Univ. Ext. FS 388, 7 p., map. Jan. 1968. 275.29 So85Fs

CARLSON, C. W., and BONZER, B. J. Feeding turkeys. S. Dak. State Univ. Ext. FS 389, 4 p. Jan. 1968. 275.29 So85Fs

SOUTH DAKOTA. STATE UNIVERSITY. CO-OPERATIVE EXTENSION SERV. Small grain production; a summary of recommendations. S. Dak. State Univ. Ext. FS 392, chart. Feb. 1968. 275.29 So85Fs



SOUTH DAKOTA. STATE UNIVERSITY. CO-OPERATIVE EXTENSION SERV. Sorghum and soybean production guide; a summary of recommendations. S. Dak. State Univ. Ext. FS 394,6 p.-folder.,map. Feb.1968. 275.29 So85Fs

PETERSON, R. M., and MARTIN, D. Fruit varieties for South Dakota. S. Dak. State Univ. Ext. FS 398,2 p.,map. Mar.1968. 275.29 So85Fs

DERSCHEID, L. A., and PARKER, R. Weed control in sorghum. S. Dak. State Univ. Ext. FS 400,6 p.-folder. Feb.1968. 275.29 So85Fs

DERSCHEID, L. A., and WESTIN, F. C. Soil atlas and crop production guide for North Central South Dakota. S. Dak. State Univ. Ext. Circ. 660,53 p.,map. Feb.1968. 275.29 So85

TEXAS Agricultural and Mechanical University, Agricultural Extension Service, College Station

PRICE, J. D., and others. Suggestions of weed control with chemicals. Tex. Agr. Mech. Univ. Ext. B-1029,rev.,35 p. 1968. 100 T31S

E. B. Hudspeth, H. P. O'Neal, B. G. Reeves, L. H. Wilkes, T. E. Boswell, A. L. Harrison, R. H. Haas, G. O. Hoffman, W. G. McCully, H. H. Bowen, R. D. Brigham, T. E. Denman, F. C. Elliott, W. T. Flinchum, E. C. Gilmore, B. G. Hancock, R. J. Hodges, E. C. Holt, E. E. Janne, J. H. Kyle, R. F. Leyden, T. D. Longbrake, N. P. Maxwell, G. G. McBee, M. G. Merkle, M. J. Norris, A. C. Novosad, D. R. Paterson, J. N. Pratt, U. A. Randolph, B. R. Spears, J. B. Storey, A. F. Wiese, J. M. Inglis, W. G. Klussmann, R. D. Palmer, and E. M. Trew, joint authors.

Published jointly with Texas Agricultural Experiment Station.

ALLEN, W. S., and others. Make sure that your portable equipment is properly grounded! Tex. Agr. Mech. Univ. Ext. L-695,4 p. 1967? 275.29 T313

W. E. McCune, R. C. Jaska, and T. Neumann, joint authors.

PRICE, J. D. Poisoning first aid guide. Tex. Agr. Mech. Univ. Ext. L-696,6 p.-folder. Jan.1967. 275.29 T313

Texas Medical Association, cooperating.

FRANKLIN, T. E., and PATTERSON, C. M. Anaplasmosis of cattle; fact sheet. Tex. Agr. Mech. Univ. Ext. L-700,4 p.,map. Mar.1967. 275.29 T313

UVACEK, E. What's the best way to buy beef; fact sheet. Tex. Agr. Mech. Univ. Ext. L-701,4 p. Mar.1967. 275.29 T313

ALMAND, L. K., and THOMAS, J. G. Tree banding to determine the best spraying time for pecan nut casebearer; fact sheet. Tex. Agr. Mech. Univ. Ext. L-702,4 p. 1967? 275.29 T313

SHULTZ, J. A. Selecting books for school-age children; fact sheet. Tex. Agr. Mech. Univ. Ext. L-703,2 p. Apr.1967. 275.29 T313

HAMMAN, P. J., and THOMAS, J. G. Texas guide for controlling insects on peanuts. Tex. Agr. Mech. Univ. Ext. L-704,6 p.-folder. Apr.1967. 275.29 T313

PEPOON, L., and SHULTZ, J. A. Books for children under six; fact sheet. Tex. Agr. Mech. Univ. Ext. L-705,2 p. Apr.1967. 275.29 T313

PRICE, M. A., NEWTON, W. H., and HAMMAN, P. J. External parasites attacking swine in Texas; fact sheet. Tex. Agr. Mech. Univ. Ext. L-706,2 p. Apr.1967. 275.29 T313

SPEIGHTS, D. E., LARSEN, J. E., and PATERSON, D. R. Storage and handling of sweet potatoes; fact sheet. Tex. Agr. Mech. Univ. Ext. L-709,4 p. May 1967. 275.29 T313

SPEIGHTS, D. E., LARSEN, J. E., and PATERSON, D. R. Improve Texas vegetables—sweet potatoes; fact sheet. Tex. Agr. Mech. Univ. Ext. L-710,2 p. May 1967. 275.29 T313

DENMARK, K. L. Healthful living in an emergency; fact sheet. Tex. Agr. Mech. Univ. Ext. L-713,2 p. July 1967. 275.29 T313

DENMARK, K. L. Understanding nuclear radiation; fact sheet. Tex. Agr. Mech. Univ. Ext. L-714,2 p. July 1967. 275.29 T313

DENMARK, K. L. Human emotions in an emergency; fact sheet. Tex. Agr. Mech. Univ. Ext. L-715,2 p. July 1967. 275.29 T313

UTAH State University, Agricultural Extension Service, Logan

ANDERSON, J. L., and others. Chemical weed control guide, Utah, 1967. Utah. State Univ. Ext. Ext. Circ. 301,39 p. Ref. June 1967. 275.29 Utl

A. R. Hamson, L. A. Jensen, K. G. Parker, R. S. Roberts, and A. L. Stark, joint authors.

ROBERTS, R. S. Where should we be going in pesticide safety? Utah. State Univ. Ext. Entomol. Newslett. 21,1 p. May 16,1966. SB933.A1U8

ROBERTS, R. S. Report on the pesticide residue problem. Utah. State Univ. Ext. Entomol. Newslett. 22,1 p. May 16,1966. SB933.A1U8

ROBERTS, R. S. Pesticide resource people and agencies in Utah. Utah. State Univ. Ext. Pestic. Ser. 3,rev.,3 p. Oct.1966. SB951.A1U8

KNOWLTON, G. F., and ROBERTS, R. S. Use pesticides safely. Utah. State Univ. Ext. Pestic. Ser. 5,2 p. Sept.1965. SB951.A1U8

KNOWLTON, G. F., and ROBERTS, R. S. Use all pesticides safely. Utah. State Univ. Ext. Pestic. Ser. 6,rev.,2 p. Aug.1966. SB951.A1U8

KNOWLTON, G. F., and ROBERTS, R. S. USDA cancels aldrin and dieldrin registration for some uses. Utah. State Univ. Ext. Pestic. Ser. 9,rev.,2 p. Oct.1966. SB951.A1U8

ROBERTS, R. S. The "zero tolerance" report. Utah. State Univ. Ext. Pestic. Ser. 16,rev.,2 p. July 1966. SB951.A1U8

ROBERTS, R. S. Parathion, safety precautions and first aid. Utah. State Univ. Ext. Pestic. Ser. 17,rev.,4 p. July 1966. SB951.A1U8

ROBERTS, R. S. The role of the sanitarian in the pesticide safety program. Utah. State Univ. Ext. Pestic. Ser. 18,2 p. July 1966. SB951.A1U8

ROBERTS, R. S. Pesticide safety in the home. Utah. State Univ. Ext. Pestic. Ser. 19,2 p. Aug. 1966. SB951.A1U8

ROBERTS, R. S. Larry the Label says: Use pesticides safely, read the label. Utah. State Univ. Ext. Pestic. Ser. 21,1 p. Aug.1966. SB951.A1U8

VIRGINIA Polytechnic Institute, Agricultural Extension Service, Blacksburg

PORTER, M. A. Buying food. Va. Polytech. Inst. Ext. Circ. 811,rev.,10 p. Feb.1968. 275.29 V81C

HILL, C. H. 1967 insecticide recommendations; apple insect control (commercial). Va. Polytech. Inst. Ext. Circ. 1004,8 p. Dec.1966. 275.29 V81C

BOBB, M. L. 1967 insecticide recommendations; peach insect control (commercial). Va. Polytech. Inst. Ext. Circ. 1007,4 p. Dec.1966. 275.29 V81C

ROWELL, J. O. 1967 insecticide recommendations; insects of cabbage, broccoli, cauliflower, and brussels sprouts. Va. Polytech. Inst. Ext. Circ. 1020,4 p. Dec.1966. 275.29 V81C

ROWELL, J. O. 1967 insecticide recommendations; insects of Irish potatoes. Va. Polytech. Inst. Ext. Circ. 1024,4 p. Dec.1966. 275.29 V81C

ROWELL, J. O. 1967 insecticide recommendations; insects of tomatoes. Va. Polytech. Inst. Ext. Circ. 1025,4 p. Dec.1966. 275.29 V81C

- ROWELL, J. O. 1967 insecticide recommendations; pests of greenhouse tomatoes. Va. Polytech. Inst. Ext. Circ. 1031,4 p. Dec.1966. 275.29 V81C
- ROWELL, J. O. 1967 insecticide recommendations; insects of growing Christmas trees. Va. Polytech. Inst. Ext. Circ. 1032,4 p. Dec. 1966. 275.29 V81C
- FESSLER, D. R., BRYANT, L., and STRAUSS, B. Community education: An approach to urban problems. Va. Polytech. Inst. Ext. Circ. 1059, 23 p. Feb.1968. 275.29 V81C
- CHAPPELL, W. E. 1967 herbicide recommendations; control annual grasses and broad-leaved plants in peaches. Va. Polytech. Inst. Ext. Leaflet. 225,2 p. Dec.1966. 275.29 V81L
- AMOS, J. M., and DRAKE, C. R. Fungicide and insecticide recommendations; grape disease and insect control. Va. Polytech. Inst. Ext. Leaflet. 226,2 p. Dec.1966. 275.29 V81L
- CHAPPELL, W. E. 1967 herbicide recommendations; control of annual broadleaf weeds and grass in grapes. Va. Polytech. Inst. Ext. Leaflet. 227,2 p. Dec.1966. 275.29 V81L
- AMOS, J. M., and DRAKE, C. R. Strawberry insect and disease control. Va. Polytech. Inst. Ext. Leaflet. 228,4 p. Dec.1966. 275.29 V81L
- PRISTOU, R. 1967 fungicide recommendations; diseases of peanuts. Va. Polytech. Inst. Ext. Leaflet. 236,8 p. Dec.1966. 275.29 V81L
- OSBORNE, W. W. 1967 nematode recommendations; nematode control on peanuts. Va. Polytech. Inst. Ext. Leaflet. 237,2 p. Dec.1966. 275.29 V81L
- PRISTOU, R. 1967 fungicide recommendations; diseases of soybeans. Va. Polytech. Inst. Ext. Leaflet. 239,2 p. Dec.1966. 275.29 V81L
- KATES, A. H. 1967 herbicide recommendations; weed control in cotton. Va. Polytech. Inst. Ext. Leaflet. 241,2 p. Dec.1966. 275.29 V81L
- KATES, A. H. 1967 herbicide recommendations; weed control in forage crops. Va. Polytech. Inst. Ext. Leaflet. 244,2 p. Dec.1966. 275.29 V81L
- PRISTOU, R. 1967 fungicide recommendations; diseases of asparagus. Va. Polytech. Inst. Ext. Leaflet. 250,2 p. Dec.1966. 275.29 V81L
- OSBORNE, W. W. 1967 nematode recommendations; nematode control on asparagus. Va. Polytech. Inst. Ext. Leaflet. 251,2 p. Dec. 1966. 275.29 V81L
- CHAPPELL, W. E. 1967 herbicide recommendations; annual weed and grass control in beets. Va. Polytech. Inst. Ext. Leaflet. 252,2 p. Dec.1966. 275.29 V81L
- PRISTOU, R. 1967 fungicide recommendations; diseases of cabbage and broccoli. Va. Polytech. Inst. Ext. Leaflet. 254,2 p. Dec.1966. 275.29 V81L
- OSBORNE, W. W. 1967 nematode recommendations; nematode control on cucumbers, watermelons, muskmelons, and squash (summer). Va. Polytech. Inst. Ext. Leaflet. 257,2 p. Dec. 1966. 275.29 V81L
- CHAPPELL, W. E. 1967 herbicide recommendations; annual weed and grass control in peas. Va. Polytech. Inst. Ext. Leaflet. 258,2 p. Dec. 1966. 275.29 V81L
- PRISTOU, R. 1967 fungicide recommendations; diseases of green peas. Va. Polytech. Inst. Ext. Leaflet. 260,2 p. Dec.1966. 275.29 V81L
- PRISTOU, R. 1967 fungicide recommendations; diseases of Irish potatoes. Va. Polytech. Inst. Ext. Leaflet. 263,2 p. Dec.1966. 275.29 V81L
- OSBORNE, W. W. 1967 nematode recommendations; nematode control on Irish potatoes. Va. Polytech. Inst. Ext. Leaflet. 264,2 p. Dec. 1966. 275.29 V81L
- PRISTOU, R. 1967 fungicide recommendations; diseases of kale, spinach, collards, and upland cress. Va. Polytech. Inst. Ext. Leaflet. 267,2 p. Dec.1966. 275.29 V81L
- ROWELL, J. O. 1967 insecticide recommendations; insects of lettuce. Va. Polytech. Inst. Ext. Leaflet. 269,2 p. Dec.1966. 275.29 V81L
- PRISTOU, R. 1967 fungicide recommendations; diseases of peppers. Va. Polytech. Inst. Ext. Leaflet. 272,2 p. Dec.1966. 275.29 V81L
- OSBORNE, W. W. 1967 nematode recommendations; nematode control on peppers. Va. Polytech. Inst. Ext. Leaflet. 273,2 p. Dec.1966. 275.29 V81L
- PRISTOU, R. 1967 fungicide recommendations; diseases of snap beans and lima beans. Va. Polytech. Inst. Ext. Leaflet. 276,2 p. Dec.1966. 275.29 V81L
- OSBORNE, W. W. 1967 nematode recommendations; nematode control on snap beans and lima beans. Va. Polytech. Inst. Ext. Leaflet. 277, 2 p. Dec.1966. 275.29 V81L
- ROWELL, J. O. 1967 insecticide recommendations; insects of sweet corn. Va. Polytech. Inst. Ext. Leaflet. 279,2 p. Dec.1966. 275.29 V81L
- PRISTOU, R. 1967 fungicide recommendations; diseases of sweet corn. Va. Polytech. Inst. Ext. Leaflet. 280,2 p. Dec.1966. 275.29 V81L
- PRISTOU, R. 1967 fungicide recommendations; diseases of sweet potatoes. Va. Polytech. Inst. Ext. Leaflet. 282,2 p. Dec.1966. 275.29 V81L
- OSBORNE, W. W. 1966 nematode recommendations; nematode control on sweet potatoes. Va. Polytech. Inst. Ext. Leaflet. 283,2 p. Dec. 1966. 275.29 V81L
- CHAPPELL, W. E. 1967 herbicide recommendations; annual weed and grass control in tomatoes and peppers. Va. Polytech. Inst. Ext. Leaflet. 284,2 p. Dec.1966. 275.29 V81L
- OSBORNE, W. W. 1967 nematode recommendations; nematode control on tomatoes. Va. Polytech. Inst. Ext. Leaflet. 285,2 p. Dec.1966. 275.29 V81L
- PRISTOU, R. 1967 fungicide recommendations; diseases of corn. Va. Polytech. Inst. Ext. Leaflet. 293,2 p. Dec.1966. 275.29 V81L
- OSBORNE, W. W. 1967 nematode recommendations; nematode control on cotton. Va. Polytech. Inst. Ext. Leaflet. 294,2 p. Dec.1966. 275.29 V81L
- PRISTOU, R. 1967 fungicide recommendations; diseases of small grains (seed treatment). Va. Polytech. Inst. Ext. Leaflet. 295,2 p. Dec.1966. 275.29 V81L
- PRISTOU, R. 1967 fungicide recommendations; diseases of sorghum. Va. Polytech. Inst. Ext. Leaflet. 296,2 p. Dec.1966. 275.29 V81L
- OSBORNE, W. W. 1967 nematode recommendations; nematode control in greenhouse bench and potting soil. Va. Polytech. Inst. Ext. Leaflet. 297,2 p. Dec.1966. 275.29 V81L
- GILL, C. E., and MARKS, R. T. Guide for obtaining wildlife and beautification conservation practice payments under A.C.P. [Agricultural Conservation Program]. Va. Polytech. Inst. Ext. Leaflet. 326,6 p.-folder. Dec.1967. 275.29 V81L

**WASHINGTON State University, Extension Service,  
Pullman**

WASHINGTON, STATE UNIVERSITY, EXTENSION SERV. Fly control on dairy farms. Wash. State Univ. Ext. E. M. 2624, rev., 4 p. Jan.1967. 275.29 W27Mi

WASHINGTON, STATE UNIVERSITY, EXTENSION SERV. Controlling mole damage, prepared by Division of Wildlife Services, United States Department of the Interior, Fish and Wildlife Services, Bureau of Sport Fisheries and Wildlife. Wash. State Univ. Ext. E. M. 2758,3 p. Feb.1967. 275.29 W27Mi



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FOOD AND AGRICULTURE ORGANIZATION  
OF THE UNITED NATIONS. Pesticide resi-  
dues in food; joint report of the FAO Working  
Party on Pesticide Residues and the WHO Ex-  
pert Committee on Pesticide Residues, Gene-  
va, 14-24 November 1966. Food Agr. Organ.  
UN. FAO Agr. Stud. 73,19 p. 1967. 28 F73







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**AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY**

References on farm structures and rural housing are classified with Agricultural Engineering.

**GENERAL**

- 78691 AMADEI, G. Agriculture-industry relations, crucial point of economic systems. (It) Riv. Polit. Agr. 15(1):21-30. Mar.1968. 281.8 R523
- 78692 BANCO CENTRAL DE VENEZUELA. Informe economico correspondiente al ano 1966 [Economic report for the year 1966]. Caracas, 1967. 444 p. 284.9 B2287M  
Contains a chapter on agriculture.
- 78693 BANGKOK BANK LIMITED. Annual report, 1967. Bangkok, 1968. 66 p. 284.9 B2253
- 78694 BARCLAY'S BANK. Barclays overseas survey 1968; a survey of trade and economic conditions during 1967 in the territories in which the bank is represented. London, 1968. 205 p., map. 280.9 B2320V  
Agriculture included.
- 78695 BECKER, W. The economic system of socialism in the DDR. (Ge) Feldwirtschaft 9(1):5-7. Jan.1968. 18 W763
- 78696 BELLI, N. The decisive role of agriculture for economic progress. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 625:35-57. Feb.13, 1968. (JPRS 44,358) 173 J663Ste  
In Romania.  
Translation from Probleme Economice 20(12): 135-150. Dec.1967.  
Issued by CFSTI.
- 78697 BIERLY, S. S. We can recruit ag students; California Fertilizer Association's successful educational panel approach is helping to bring young people into agri-business. Farm Chem. 131(6):55-56. June 1968. 57.8 Am3
- 78698 BONNEN, J. T. Food and fiber, farms, and rural community: policy alternatives for the future. Iowa. State Univ. Sci. Technol. Cent. Agr. Econ. Develop. CAED Rep. 31:175-182. 1968. 281.9 Io93  
Brings out the industry-agriculture relationship.
- 78699 BONTE-FRIEDHEIM, C., and SINCLAIR, S. A. programme for training of agricultural economists at the proposed faculty of agriculture in Kenya. Z. Ausländische Landwirt. 7(1):128-131. Jan.1968. 281.8 Z32
- 78700 BULGARU, M. Promotion of economic criteria in agriculture. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 615:10-15. Dec.18, 1967. (JPRS 43,753) 173 J663Ste  
In Romania.  
Translation from Scinteia 7531:1-3. Nov. 1967.  
Issued by CFSTI.
- 78701 CALAN, L. DE. Problems posed to owners and farmers. (Fr) Agr. Prat. 132(4):23-25. Apr. 1968. 14 J82  
Indemnification for passage of electric lines, expenses of land consolidation, and estimation of wheat prices for agreements.
- 78702 CARTER, J. The Fulani in Bamenda. J. Trop. Geogr. 25:1-7, map. Dec.1967. 331.8 M29  
Includes discussion of the agricultural economy.
- 78703 CONOLLY, V. Beyond the Urals; economic developments in Soviet Asia. London, Oxford University Press, 1967. 420 p. HC487.S5C6  
Bibliography, p.388-400.  
Includes the agricultural economy.
- 78704 DULBOKOV, S. October Revolution and development of Bulgarian economy. (Bu) Ikonomicheska Mis'l 12(8):3-13. 1967. 280.8 Ik7  
French summary, p.138.  
Includes agriculture.
- 78705 ELLIOTT, C. M. The ideology of economic growth: a case study. In Jones, E. L., and Mingay, G. E. Land, labour and population in the industrial revolution, p.75-99. Ref. 1968. HC254.5.J6
- 78706 ENSMINGER, M. E. Moving ahead with agri-services. Feeds Illus. 19(3):20. Mar.1968. 389.78 F326
- 78707 FRANCE. DIRECTION DE LA DOCUMENTATION. Les économies regionales: L'économie de la région champagne-ardenne [Regional economies: The economy of the Champagne-Ardenne region]. France. Dir. Doc. Notes Etudes Doc. 3436/3437, 108 p., map. Nov.17, 1967. 280.9 F843  
Agriculture included.
- 78708 GIORGI, G. Conferences on economics, agricultural policy, rural sociology. (It) Agricoltura 17(1):29-46. Jan.1968. 16 Ag8226  
English summary, p.9.
- 78709 GRAU BELMONTE, L. R. Situation and outlook of the agricultural economy. (Sp) Cultiv. Mod. 51(2):60. Feb.1968. 18 C89
- 78710 HARDAWAY, I. L. Economics of agriculture; reports and publications issued or sponsored by USDA's Economic Research Service, October 1966-September 1967. U. S. D. A. Econ. Res. Serv. ERS-368, 17 p. Mar.1968. A281.9 Ag83E
- 78711 HAYAMI, Y. Agricultural growth in the take-off period; an analysis of the views of James. I. Nakamura. (Ja) Econ. Rev. 19(1):69-73. Jan.1968. 280.8 Ec798  
In his book, Agricultural Production and the Economic Development of Japan, 1873-1922.
- 78712 INTERNATIONAL CONFERENCE OF AGRICULTURAL ECONOMISTS, SYDNEY, 1967. Reports of the discussion groups. Int. J. Agr. Aff. 5(3):183-255. Dec.1967. 281.8 In82
- 78713 JENSEN, R. C. Agriculture in the New Zealand economy. Canterbury Chamber Com. Agr. Bull. 459, 5 p. Mar.1968. 23 C162
- 78714 JENSEN, S. P. Socio-economic importance of agricultural production. (Da) Dansk Landbrug 87(2):34-38. Feb.1968. 280.28 V91
- 78715 JONES, E. L., and MINGAY, G. E. Land, labour and population in the industrial revolution; essays presented to J. D. Chambers. New York, Barnes & Noble, 1968. 286 p. Ref. HC254.5.J6
- 78716 JONES, H. B., and THOMPSON, J. C. Squared versus unsquared deviations for lines of best fit. Agr. Econ. Res. 20(2):64-69. Ref. Apr. 1968. 1 Ec7Agr
- 78717 KLEVEMANN, K. G. Economic education in agricultural schools. (Ge) Ausbildung Beratung Land- Hauswirtsch. 21(3):53-54. Mar. 1968. 18 N11
- 78718 KOREA (REPUBLIC) KONGBOBU. Taet'ong-nyong youdu kyoso haesol: yol'ahop yesun-ilgop nyon [Commentary on the President's beginning-of-the-year message]. Seoul, 1967. 221 p. JQ1726.A5  
Includes agricultural economic policy.
- 78719 KRACK, E. Increased responsibility of final producer in agriculture. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 607:10-16. Nov.24, 1967? (JPRS 43,427) 173 J663Ste  
In East Germany; relations of industry and agriculture.  
Translation from Kooperation 2:3-6. Sept. 1967.  
Issued by CFSTI.
- 78720 KRUSE-RODENACKER, A. Experiences with the economic planning of Italy. (Ge) Z. Ausländische Landwirt. 7(1):75-80. Jan.1968. 281.8 Z32  
English summary.
- 78721 MELICZEKE, H. Economic and social change in Messa, a settlement in Cyrenaica. (Ge) Z. Ausländische Landwirt. 7(1):87-93. Jan. 1968. 281.8 Z32  
-English summary.

- 78722 MOCHIDA, K. Economic structure of industrialization; an approach into the industrial revolution. (Ja) Quart. J. Agr. Econ. 22(1):1-62. Ref. Jan.1968. 22.5 N687
- 78723 MOVEMENT of the Yugoslav economy in the first two years of the reform: statistical data. U. S. Joint Publ. Res. Serv. Transl. Econ. Organ. Manage. East. Europe 781,91 p. Jan.15, 1968. (JPRS 44,015) 173 J663Tre  
Includes the agricultural economy.  
Translation from Studies, Analyses and Surveys Series, Union Statistics Institute, Belgrade 34:2-65. 1967.  
Issued by CFSTI.
- 78724 NIEDERSTUCKE, H. Economic considerations on agriculture in Poland. (Ge) Mitt. Deut. Landwirt.-Ges. 83(10):322-324. Mar.7,1968. 18 N39
- 78725 PAGNELLO, D. Development and requirements of Italian agriculture. (It) Riv. Polit. Agr. 15(1):31-43. Mar.1968. 281.8 R523  
With special reference to scientific and technical progress, industrialization, improved cultural level of the rural population, and the European Common Market.
- 78726 PHILPOTT, B. P., and ROSS, B. J. Input-output models for projecting & planning the economy. Lincoln Coll. Agr. Econ. Res. Unit Publ. 41,41 p. 1968. 281.9 L632
- 78727 RANDOLPH, J. N. Basic data on the economy of New Zealand. Overseas Bus. Rep. OBR-68-23,23 p.,map. Mar.1968. 157.54 Ov2  
Includes the agricultural economy.
- 78728 RAUSSER, V. New dimensions of Romanian economy in 1968. (Rum) Probl. Econ. [Bucharest] 21(1):5-29. Jan.1968. 280.8 P947  
Economic growth.
- 78729 RESTIVO, F. Drop in the disequilibrium between North and South. (It) Agricoltura 17(1):19-21. Jan.1968. 16 Ag8226  
English summary, p.9.  
Economic.
- 78730 SCHALLER, W. N. A national model of agricultural production response. Agr. Econ. Res. 20(2):33-45,map. Ref. Apr.1968. 1 Ec7Agr  
FPED [Farm Production Economics Division]  
National Model with emphasis on production adjustments.
- 78731 SCHICKELE, R. Overcoming institutional obstacles to agricultural progress in the developing countries. Alternatives Balancing World Food Prod. Needs. Rep. 1967:112-133. HD9000.1.A4  
Education, land reform, and cooperation included.
- 78732 SEN, B. The role of agriculture's contributions in the theory of economic growth in over-populated countries. Indian J. Agr. Econ. 22(4):86-93. Oct./Dec.1967. 281.8 In2
- 78733 SILCOCK, T. H., ed. Thailand; social and economic studies in development. Durham, North Carolina, Duke University Press, 1967. 334 p.,map. HC497.T5S5  
Bibliography, p.323-328.
- 78734 U. S. AGENCY FOR INTERNATIONAL DEVELOPMENT. The foreign assistance program; annual report to the Congress fiscal year 1966. Washington, 1968. 77 p. 173.2 M98Re
- 78735 U. S. BUR. OF THE CENSUS. County business patterns 1967. No. 2-14, 16-21, 23-33, 36-37, 39-52. Washington, 1968. 46 v. (CBP-67: 2-14, 16-21, 23-33, 36-37, 39-52) 173.2 SolBus  
2, Alabama; 3, Alaska; 4, Arizona; 5, Arkansas; 6, California; 7, Colorado; 8, Connecticut; 9, Delaware; 10, District of Columbia; 11, Florida; 12, Georgia; 13, Hawaii; 14, Idaho; 16, Indiana; 17, Iowa; 18, Kansas; 19, Kentucky; 20, Louisiana; 21, Maine; 23, Massachusetts; 24, Michigan; 25, Minnesota; 26, Mississippi; 27, Missouri; 28, Montana; 29, Nebraska; 30, Nevada; 31, New Hampshire; 32, New Jersey; 33, New Mexico; 36, North Dakota; 37, Ohio; 39, Oregon; 40, Pennsylvania; 41, Rhode Island; 42, South Carolina; 43, South Dakota; 44, Tennessee; 45, Texas; 46, Utah; 47, Vermont; 48, Virginia; 49, Washington; 50, West Virginia; 51, Wisconsin; 52, Wyoming.
- 78736 U. S. BUR. OF THE CENSUS. County business patterns 1967; Illinois. Washington, 1968. 157 p. (CBP-67-15) 173.2 SolBus  
Includes agricultural services and industries.
- 78737 U. S. BUR. OF THE CENSUS. County business patterns 1967; Maryland. Washington, 1968. 64 p. (CBP-67-22) 173.2 SolBus  
Includes agricultural services and industries.
- 78738 U. S. BUR. OF THE CENSUS. County business patterns 1967; New York. Washington, 1968. 191 p. (CBP-67-34) 173.2 SolBus  
Includes agricultural services and industries.
- 78739 U. S. BUR. OF THE CENSUS. County business patterns 1967; North Carolina. Washington, 1968. 136 p. (CBP-67-35) 173.2 SolBus  
Includes agricultural services and industries.
- 78740 U. S. BUR. OF THE CENSUS. County business patterns 1967; Oklahoma. Washington, 1968. 73 p. (CBP-67-38) 173.2 SolBus  
Includes agricultural services and industries.
- 78741 U. S. BUR. OF THE CENSUS. County business patterns 1967; Puerto Rico, American Samoa, Guam, Virgin Islands. Washington, 1968. 68 p. 173.2 SolBus  
Includes agricultural services and industries.
- 78742 U. S. OFF. OF INTERNATIONAL REGIONAL ECONOMICS. AFRICAN DIV. Basic data on the economy of the Republic of Ivory Coast. Overseas Bus. Rep. 68-18,18 p.,map. Apr. 1968. 157.54 Ov2  
Agriculture included.
- 78743 U. S. OFF. OF INTERNATIONAL REGIONAL ECONOMICS. FAR EASTERN DIV. Basic data on the economy of Hong Kong. Overseas Bus. Rep. OBR-66-75,20 p.,map. May 1968. 157.54 Ov2  
Includes the agricultural economy.
- 78744 WEBER, A. Results of and remarks on the 13th conference of the International Association of Agricultural Economists. (Ge) Agrarwirtschaft 17(4):112-117. Apr.1968. 281.8 Ag826

## AGRICULTURAL FINANCE

- 78745 ALEXE, E. Improvement needed in agricultural investment financing. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 620:25-27. (JPRS 44,096) 173 J663Ste  
In Romania.  
Translation from Agricultura Socialista, Nov.23,1967:1-2.  
Issued by CFSTI.
- 78746 ANISTRATOV, P. V. Finance under new conditions. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 11:26-27. 1967. 30.69 Uc4
- 78747 BALJOZOVIC, S. The economic efficiency of means in agriculture. (Se) Ekon. Poljoprivrede 15(4):269-275. Apr.1968. 281.8 Ek72  
Chiefly investments and capital.
- 78748 BYMERS, G. J. Family decision making and financial management. Nat. Seminar Workshop Home Econ. Res. Admin. Proc. 1967:47-51. TX5.N3
- 78749 COSTEA, I. Present aspects of the growth of economic effectiveness of agricultural investment. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 608:8-25. Nov.28,1967. (JPRS 43,485) 173 J663Ste  
Translation from Probleme Economice 9:45-57. Sept.1967.  
Issued by CFSTI.
- 78750 CUMBERLAND, K. B. Maybe "our New Zealander is much too meek and mild and uncomplaining." Service [New Plymouth], Autumn 1968:10-12,15. 385 Se6  
Effect of devaluation on cost of living.
- 78751 DRZYWONOS, J. Fixed assets in agriculture. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 630:7-20. Mar.4,1968. (JPRS 44,573) 173 J663Ste  
In Poland.  
Translation from Nowe Rolnictwo 23:26-29. Dec.1968.  
Issued by CFSTI.



- 78752 GUTMAN, S. Capital as a tool for planning. (He) Agr. Israel 13(6/7):34-36. Mar./Apr. 1968. 22.5 Ag825
- 78753 HOOGH, J. de. Financing and future of the farm as a small production unit. (Du) Landbouwkundig Tijdschr. 80(4):158-161. Ref. Apr. 1968. 105.2 Or3  
Includes capital requirements, credit, and problems in succession and enlargement.
- 78754 IVANOV, F. A. Financial analysis—an important factor. (Rus) Uchet. Finansy Kolkhoz. Sovkhoz. 2:34-35. 1968. 30.69 Uc4  
Basic capital on the collective farms.
- 78755 JASRAI, P. Norms of stock capital depreciation constitute a vital economic lever. U. S. Joint Publ. Res. Serv. Transl. Mongolia 153: 36-39. Jan.8, 1968. (JPRS 43,901) 173 J663Tmo  
Livestock depreciation.  
Translation from Unen, June 24, 1967:2-3. Issued by CFSTI.
- 78756 JOHNSON, W. C. A good budget, is there a better management tool? Farm Credit News, Spring 1968:6. 284.28 F227  
Farmers expenditures.
- 78757 JONES, E. L. Industrial capital and landed investment: the Arkwrights in Herefordshire, 1809-43. In Jones, E. L., and Mingay, G. E. Land, labour and population in the industrial revolution, p.48-71. Ref. 1968. HC254.5.J6
- 78758 KINOSHITA, T. Preliminary calculations and surveys before investing in agricultural development. (Ja) Agr. Asia 6(4):8-14, map. Apr. 1968. 22.5 Aj5  
In Malaysia.
- 78759 KOVACS, S. Some aspects of financing agricultural investments under the new economic mechanism. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 618:14-23. Jan.4, 1968. (JPRS 43,870) 173 J663Ste  
Hungary.  
Translation from Penzugyi Szemle 9:705-713. Sept. 1967.  
Issued by CFSTI.
- 78760 MANDLE, E. Bankruptcies in industry and agriculture. (Ge) Mitt. Deut. Landwirt.-Ges. 83(9):268,270-271. Feb.29, 1968. 18 N39
- 78761 MERLAU, G. Lack of liquidity—a step toward bankruptcy? (Ge) Mitt. Deut. Landwirt.-Ges. 83(9):266,268. Feb.29, 1968. 18 N39
- 78762 MICHIeli, I. On the fruitfulness of land improvements. (It) Genio Rurale 31(3):203-216. Mar. 1968. 281.8 R522
- 78763 MILANOVIC, P. Investments in and development of production of socialized farms. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 627:7-15. 1968? (JPRS 44,425) 173 J663Ste  
In Yugoslavia.  
Translation from Privredni Pregled, Jan.21, 1968:7.  
Issued by CFSTI.
- 78764 NOELL, G. Revolving of money on the farm. (Ge) Mitt. Deut. Landwirt.-Ges. 83(9):249-250. Feb.29, 1968. 18 N39
- 78765 OSMANOV, O. A. Control of capital investments. (Rus) Uchet. Finansy Kolkhoz. Sovkhoz. 2:35-36. 1968. 30.69 Uc4  
State farms.
- 78766 REYNLA, M. Problems involved in placing Estonian sovkhoses on complete autonomous financing. U. S. Joint Publ. Res. Serv. Transl. USSR Agr. 226:38-43. Nov.30, 1967. (JPRS 43,507) 173 J663Tso  
Translation from Ekonomicheskaya Gazeta 43:39. Oct. 1967.  
Issued by CFSTI.
- 78767 RIVKIN, A. D. Planning and calculation of the social consumption fund. (Rus) Uchet. Finansy Kolkhoz. Sovkhoz. 2:17-18. 1968. 30.69 Uc4  
Collective farm.
- 78768 ROSEFELDT, E. The profitable livestock finishing farm. (Ge) Kraftfutter 51(2):50,52,54. Feb. 1968. 389.78 K85  
Capital requirements and gross income included.
- 78769 SABADEANU, P. Efficient utilization of accumulation funds in cooperative farms. (Rum) Rev. Statist. 17(3):44-54. Mar. 1968. 267.8 St22
- 78770 SAMTLEBEN, W. Problems of financing agricultural holdings. (Ge) Mitt. Deut. Landwirt.-Ges. 83(1):2. Jan.4, 1968. 18 N39  
Capital.
- 78771 SEUSTER, H. Estimation of liquidity on agricultural holdings. (Ge) Mitt. Deut. Landwirt.-Ges. 83(5):105-106. Feb.1, 1968. 18 N39
- 78772 TAYKALOV, V. Shortcomings in the fulfilment of the plan of capital investments in agriculture. U. S. Joint Pub. Res. Serv. Transl. USSR Agr. 226:48-55. Nov.30, 1967. (JPRS 43,507) 173 J663Tso  
Translation from Ekonomika i Zhizn' 8:48-50. Aug. 1967.  
Issued by CFSTI.
- 78773 VERMEHREN, W. Ways to health of the national economy and agriculture. (Ge) Lebendige Erde 2:63-69. (Concl.) Mar./Apr. 1968. 18 L49  
On money and capital.
- 78774 ZALSKI, T. Investment outlays for farm-food industry. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 609: 34-41. Nov.29, 1967. (JPRS 43,494) 173 J663Tou  
In Poland.  
Translation from Zycie Gospodarcze 44:1-4. Oct. 1967.  
Issued by CFSTI.

## Credit

- 78775 ALLEN, P. Where the money is coming from to help finance agriculture. U. S. Fur Rancher 47(3):15,17. Apr. 1968. 412.629 Am3M
- 78776 ATKINSON, J. H., and KADLEC, J. E. A new farm finance institution: is it needed. Agr. Banking Financ. 10(3):10-11. May/June 1968. 284.8 B22  
For expansion loans.
- 78777 BOEHN, L. VON. Real credit and personal credit on the farm. (Ge) Mitt. Deut. Landwirt.-Ges. 83(9):253-254. Feb.29, 1968. 18 N39
- 78778 COTTON, G. Agricultural Land Societies [Societes Fonciers Agricoles] for re-launching investments. (Fr) Inform. Agr. [Paris] 380: 36-38. Apr. 1968. HD1945.A115  
Proposed.
- 78779 DWEHUS, F. Agriculture needs suitable credit. (Ge) Mitt. Deut. Landwirt.-Ges. 83(9):251-252. Feb.29, 1968. 18 N39
- 78780 DZAGUROV, G. B. Direct credit for collective farms. (Rus) Uchet. Finansy Kolkhoz. Sovkhoz. 5:24-28. May 1967. 30.69 Uc4
- 78781 GRAN, O. New regulation for the settling of accounts and management credit in agriculture. (No) Nord. Lantbruksekon. Tidskr. 18(1):5-11. 1968. 281.8 N75
- 78782 KIRCHENKO, M. YA. Improving credit system. (Rus) Uchet. Finansy Kolkhoz. Sovkhoz. 2:30-33. 1968. 30.69 Uc4  
For the state farms.
- 78783 KRUSH, Z. A. The credit for the state farms with complete commercial accounting system. (Rus) Uchet. Finansy Kolkhoz. Sovkhoz. 12:19-22. 1967. 30.69 Uc4
- 78784 NORIN CHUO KINKO. Norin kinyu tokei 1967 [Statistics of agricultural and forestry financing] 1967. Cent. Coop. Bank Agr. Forest. Res. Data 112,180 p. Nov. 1967. 284.9 C332
- 78785 PAGANI, A. Annuity rates in international symbolism. (It) Genio Rurale 31(3):193-201. Mar. 1968. 281.8 R522  
Applied to debt amortization.

- 78786 ROBLES B., I. Speaking of credit for the rural sector. (Sp) Agr. Trop. 24(2):73-75. Feb. 1968. 26 Ag8  
Colombia.
- 78787 SEUSTER, H. The balance sheet as determinant of credit capacity. (Ge) Mitt. Deut. Landwirt.-Ges. 83(9):258-261. Feb. 29, 1968. 18 N39
- 78788 SPIKA, I. Policies of the Yugoslav agricultural bank [Jugoslovenska Poljoprivredna Banka] in 1968. (Se) Glasnik 12(3):8-12. 1968. 280.28 Z13
- 78789 STOATE, J. T. Sources of credit for farmers. West. Australia. Dep. Agr. J. (ser.4)9(1):38-40. Jan. 1968. 23 W52J  
In Australia.
- 78790 STRAUSMANIS, G. A. Increasing effectiveness of the long-term credits for collective farms. (Rus) Uchet. Finansy Kolkhoz. Sovkhoz. 2:19-22. 1968. 30.69 Uc4  
Latvian SSR.
- 78791 SURRIDGE, B. J. Member credit policies and rural indebtedness in developing countries. In Warley, T. K., ed. Agricultural producers and their markets, p.480-485. 1967. HD9000.1.W3  
Cooperative credit.
- 78792 SVERIGES JORDBRUKSKASSEFORBUND. Arsredovisning och revisionsberattelse [Annual report and accounting report of the Association of Swedish Rural Credit Societies], 1967. Kristianstad, 1968. 16 p., map. 284.29 Sv2S
- 78793 U. S. DEPT. OF AGRICULTURE. Reseal loans. U. S. D. A. PA-836,3 p. Dec. 1967. 1 Ag84Pro
- 78794 U. S. DEPT. OF AGRICULTURE. ECONOMIC RESEARCH SERV. Farm mortgage debt held by major lenders. U. S. D. A. Econ. Res. Serv. FMD-6,7 p. Dec. 1967. A284.9 Ag84
- 78795 VOGEL, G. Possibilities of development through investment financing of living inventory. (Ge) Mitt. Deut. Landwirt.-Ges. 83(1):12-13. Jan. 4, 1968. 18 N39
- 78796 WYSZOMIRSKI, T. Farm credit in Poland 1966-1968. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 648:1-12. May 15, 1968. (JPRS 45,381) 173 J663Ste  
Translation from Wiadomosci Narodowego Banku Polskiego, Mar. 1968:81-86.  
Issued by CFSTI.
- 78797 ZAITSEVA, L. N. More attention to the credit. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 12:24-25. 1967. 30.69 Uc4  
For state farms.
- 78798 ZECHNER, F. W. The Development and Reorganization Fund for Agriculture in the Netherlands. Can. Dep. Agr. Agr. Abroad 23(2):38-41. Apr. 1968. 281.9 C1642A  
Credit and retirement of farmers from the land.
- Income
- 78799 BITULEANU, I. The growth of the role and function of profit in the economy. (Rum) Probl. Econ. [Bucharest] 21(1):69-80. Jan. 1968. 280.8 P947  
English summary.
- 78800 HUBL, J., and KROTIL, V. Some problems of the formation and distribution of gross income. (Cz) Statni Statky. 11(2):22-24. 1968. 19.5 St2
- 78801 RAJKOV, B., and KOLARSKI, J. Analysis of business results of agricultural enterprises in Vojvodina. (Se) Ekon. Poljoprivreda 15(1/2):9-19. Jan./Feb. 1968. 281.8 Ek72  
Chiefly income.
- 78802 REYER, W. The importance of diversified income for the farmer. (Ge) Mitt. Deut. Landwirt.-Ges. 83(11):351-352, 354. Mar. 14, 1968. 18 N39
- 78803 SCHMIDT, H. Disparity of success in agriculture. (Ge) Agrarwirtschaft 16(10):322-335. (Cont.) Oct. 1967. 281.8 Ag826
- 78804 TABEYEV, F. Strengthening of the public economy and growth of payment for labor in kolkhoses. U. S. Joint Publ. Res. Serv. Transl. USSR Labor 224:71-82. Jan. 19, 1968. (JPRS 44,091) 173 J663Tou  
Translation from Sotsialisticheskii Trud 11:86-93. 1967.  
Issued by CFSTI.
- 78805 WIRTH, H. Preliminary evaluation of market proceeds of Baden-Wurtemberg agriculture 1967/68. (Ge) Mitt. Deut. Landwirt.-Ges. 83(13):446-448. Mar. 28, 1968. 18 N39
- Insurance
- 78806 BENASIC, Z. The life rent as a substitute for annuity to farmers. (Se) Ekon. Poljoprivreda 15(3):169-177. Mar. 1968. 281.8 Ek72
- 78807 BOOTH, P. Sickness insurance and California farm workers. Soc. Secur. Bull. 31(5):3-13. May 1968. 173.2 Sol8oc
- 78808 CREUTZ, H. The I.L.O. and social security for foreign and migrant workers. Int. Labour Rev. 97(4):351-369. Apr. 1968. 283.8 In8
- 78809 MYRIC, D., and others. Crop insurance in the Great Plains. Mont. Agr. Exp. Sta. Bull. 617, 96 p. July 1967. 100 M76  
D. Larson, L. Loftsgard, O. Walker, C. Cox, J. Shipley, and R. Cole, joint authors.  
Also Great Plains Agricultural Council Publication No. 28.  
Bibliography, p.88-96.  
Report of research project on activities of Federal Crop Insurance Corporation undertaken by Great Plains Agricultural Council Regional Project Committee GP-8.
- 78810 SCHUSTER, W. Compulsory or free life insurance? (Ge) Diplomlandwirt 18(4):78,80. Apr. 1968. 18 D62
- Taxation
- 78811 BARIL, J. L. The T.V.A. and the agriculture. (Fr) Paysans 12(69):41-65. Dec. 1967/Jan. 1968. 14 R323
- 78812 BEEKEEPERS and the extension of the added value tax in agriculture. (Fr) Gaz. Apic. 69 (728):35-36. Feb. 1968. 424.8 G25
- 78813 CHATANAY, J. N. Added value tax and management. (Fr) Inform. Agr. [Paris] 380:28. Apr. 1968. HD1945.A115
- 78814 EDWARDS, G. W. The effect of income tax provisions on returns to investment in agriculture. Australia. Bur. Agr. Econ. Quart. Rev. Agr. Econ. 21(1):22-36. Jan. 1968. 281.9 Au73
- 78815 GORZELAK, E. The share of agriculture in the financing of economic development in Poland. (Pol) Wies Wspolczesna, Pismo Ruchu Ludowego 13(1):31-39. Jan. 1968. HN536.W5  
English summary, p.9-12 of supplement.  
Payments in taxes and compulsory deliveries as well as data on agricultural income.
- 78816 GRANT, W. F. Herd assessment and taxation. Pig Breeders' Gaz. 133:30-31. Apr. 1968. 46.8 N21  
In Great Britain.
- 78817 GUIEU, P. Generalization of the added value tax in the European Economic Community. (Fr) Indus. Aliment. Anim. 190:44-45, 47-49, 51. Feb. 1968. 389.78 In2
- 78818 HARL, N. E. Farm income tax—a management variable. Amer. Soc. Farm. Managers Rural Appraisers. J. 32(1):52-60. Apr. 1968. 281.8 Am32
- 78819 HAUPT, A. Indirect tax increases for farmers? (Ge) Mitt. Deut. Landwirt.-Ges. 83(14):480-481. Apr. 4, 1968. 18 N39



- 78820 KUAN, S. Y. A study of the Chinese communist collection of grain as agricultural tax. Joint Publ. Res. Serv. Transl. Communist China Econ. 38:1-16. Jan.10,1968. (JPRS 43,937) HC426.A1T7  
Translation from Fei Ch'ing Yueh Pao 10(9): 55-63. Nov.1,1967.  
Issued by CFSTI.
- 78821 MICHEL, J. The farmer and the added value tax. (Ge) Mitt. Deut. Landwirt.-Ges. 83(2):29-30. Jan.11,1968. 18 N39
- 78822 PAWLOWSKI, J., and WYDERKO, A. The rural community fund at the service of rural areas. (Pol) Wies Wspolczesna, Pismo Ruchu Ludowego 13(1):95-101. Jan.1968. HN536.W5  
English summary, suppl., p.15-16.  
Contributions for public services.
- 78823 PETIT, L. The added-value tax applied to transportation. (Fr) Chambres Agr. 39 (382,sup.):13-15. Feb.15,1968. 14 T69
- 78824 PYKA, E. The effects of the added value tax on the accounting center of the milk plant. (Ge) Deut. Molk.-Zeitung 88(46):1881-1883. Nov.16,1967. 44.8 Su2
- 78825 ROOSWINKEL, J. F. M. From purchase tax to tax on gross value added. (Du) Neth. Dir. Tuinbouw. Mededel. 31(4):145-152. Apr.1968. 86 N384  
English summary, p.172.
- 78826 SAINT-MARTIN, J. The added value tax. (Fr) Indus. Aliment. Anim. 190:37,39,41,43. Feb. 1968. 389.78 In2
- 78827 SCHMELZEISEN, G. K. Karl von Rotteck and the tithe problem. (Ge) Z. Agrargesch. Agrar-soziol. 16(1):55-71. Ref. Apr.1968. 30.98 Z3
- AGRICULTURAL LABOR AND WAGES**
- 78828 ANDA, R. Future labor requirements in agriculture. (No) Norsk Landbruk 9:14-15. Mar.3,1968. 11 N8122
- 78829 BAIL, A. Work studies for efficient field operations. (Ge) Feldwirtschaft 9(1):24-27. Jan.1968. 18 W763
- 78830 BAUMGARTNER, G. Investigations on the limitation of grain harvest dates. (Ge) Landarb. Tech. 35:203-219. 1968. 18 L2354  
Labor.
- 78831 BEAN, L. L. Utilisation of human resources: the case of women in Pakistan. Int. Labour Rev. 97(4):391-410. Apr.1968. 283.8 In8
- 78832 BECKERICH, A. Placement and licensing of workers are adapted to the economic situation. (Fr) Agr. Prat. 132(4):17-20. Apr.1968. 14 J82
- 78833 BOCKELMANN, M. VON. Can labor law adapt to changed conditions? (Ge) Mitt. Deut. Landwirt.-Ges. 83(22):850-851. May 30,1968. 18 N39  
Premiums for milkers.
- 78835 BOKEMEIER, R. Is education for professional farm labor still useful? (Ge) Ausbildung Beratung Land- Hauswirtsch. 21(5):84-86. 1968. 18 N11
- 78834 BOGDAN-BLAKITNYI, R., and SOLOMAKHIN, V. Formation of the sovkhos incentive fund. U. S. Joint Publ. Res. Serv. Transl. USSR Labor 249:60-63. May 28,1968. (JPRS 45,500) 173 J663Tou  
Translation from Ekonomicheskaya Gazeta 13: 28. Mar.1968.  
Issued by CFSTI.
- 78836 BRUNDKE, M. Work time control on the farm. (Ge) Landarb. Tech. 35:181-202. Ref. 1968. 18 L2354
- 78837 BUROBKIN, I. N. Analysis of working time, spent by milking personnel on the dairy farms. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 128:239-243. 1967. 20 M857
- 78838 BUZILOV, YU. Improving the organization of labor processes in agriculture. U. S. Joint Publ. Res. Serv. Transl. USSR Labor 213:25-38. Nov.24,1967. (JPRS 43,422) 173 J663Tou  
Translation from Voprosy Ekonomiki 9:66-75. Sept.1967.  
Issued by CFSTI.
- 78839 CHRNYAEV, A. Correlational analysis of labor productive capacity in agriculture. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 2:137-138. Feb.1968. 20 V633
- 78840 CHURAKOV, V. Use of rural labor. U. S. Joint Publ. Res. Serv. Transl. USSR Labor 232: 50-63. Feb.20,1968. (JPRS 44,500) 173 J663Tou  
Translation from Voprosy Ekonomiki 1:40-49. Jan.1968.  
Issued by CFSTI.
- 78841 CIMPEANU, D. Fundamental principle for effective organization of working space. (Rum) Mec. Elec. Agr. 13(3):20-32. Ref. Mar.1968. 58.8 M4623
- 78842 COHEN, I. J. La Huelga! Delano and after. U. S. Bur. Labor. Statist. Mon. Labor Rev. 91(6):13-16. June 1968. 158.6 B87M  
The grape harvesters' strike in Delano.
- 78843 COSTA, E. Employment problems and policies in Madagascar. Int. Labour Rev. 97(3):217-250. Mar.1968. 283.8 In8  
Rural employment included.
- 78844 DIETZEL, H. Work disposition—with disposition aids for spring tillage. (Ge) Feldwirtschaft 9(1):27-29. Jan.1968. 18 W763
- 78845 DORAN, S. M. Rates for custom work in irrigated central Washington. Wash. State Univ. Ext. E. M. 2701,rev., 7 p. Apr.1968. 275.29 W27Mi
- 78846 DUNN, J. M. The age structure of Scottish farm workers. Scot. Dep. Agr. Fish. Scot. Agr. Econ. 18:133-137. 1968. 281.9 Sco3S  
Both hired and family workers.
- 78847 DUPUIS, H. Anthropotechnical methods of work investigation. (Ge) Landarb. Tech. 35:221-239. Ref., p.237-239. 1968. 18 L2354  
Physiology and machine design.
- 78848 DUPUIS, H., and BROICHER, H. A. Methods for the investigation of the vibrational stress of men. (Ge) Landarb. Tech. 35:241-277. 1968. 18 L2354  
Bibliography, p.272-277.
- 78849 DZHAFAROV, D. Data processing equipment is helping. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 5:23. May 1967. 30.69 Uc4  
Labor accounting.
- 78850 EDENS, F. J. Crop husbandry in sugar beet. (Du) Landbouwmecaniasatie 19(4):359-362. Apr.1968. 58.8 L2352  
English summary.  
Thinning labor.
- 78851 ERENBURG, M. Obreros unidos in Wisconsin. U. S. Bur. Labor. Statist. Mon. Labor Rev. 91 (6):17-23. June 1968. 158.6 B87M  
Organization drive for union amongst migrant farm workers.
- 78852 ERHAN, I. The development and perspectives of the scientific organization of production and labor. (Rum) Probl. Econ. [Bucharest] 21(1): 56-68. Jan.1968. 280.8 P947  
English summary.
- 78853 FOMETSKOY, I. The kolkhoz trade union committee—rights and responsibilities. U. S. Joint Publ. Res. Serv. Transl. USSR Labor 230:1-3. Feb.19,1968. (JPRS 44,420) 173 J663Tou  
Reply by I. F. Shkuratov, p.4-6.  
Translation from Trud, Dec.27,1967:2.  
Issued by CFSTI.
- 78854 FORKEL, H., and DOHLER, H. Economic considerations on the centrally administered manure distribution brigade in Dahlen. (Ge) Feldwirtschaft 9(2):56-58. Feb.1968. 18 W763  
Labor work management, time requirements, and costs.
- 78855 GADZHIEV, A. A. Labor work management in the cotton growing of Azerbaijan. (Rus) Khlopkovodstvo 2:4-6. Feb.1968. 72.8 K522
- 78856 GAFUROV, YA. R. Control of labor productivity. (Rus) Uchet. Finansy Kolkhoz. Sovkhoz. 3:13-14. 1968. 30.68 Uc4  
Accounting.

- 78857 GATAULIN, A. M. On the problem of elaborating a qualitative body of man power on the agricultural enterprises. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 128:275-279. 1967. 20 M857
- 78858 GHOSH, B. N., and MANJI, A. G. Time and motion study in coffee processing. *World Crops* 20(1):68-71. Ref. Mar. 1968. 281.8 W892
- 78859 GLASOW, W. Development of procedures on the basis of time study results. (Ge) *Landarb. Tech.* 35:63-81. 1968. 18 L2354
- 78860 GLASS, J. C. Organization in Salinas. U. S. Bur. Labor. Statist. Mon. Labor Rev. 91(6):24-27. June 1968. 158.6 B87M  
Unionization of lettuce harvest labor.
- 78861 GOY, P. M. DE. In order to have cows and breeders we should follow the psychological and social conditions. (Fr) *Tech. Lait.* 585:35,37, 39. Mar. 2, 1968. 44.8 Of2  
Chiefly labor conditions.
- 78862 GROSSMANN, P. It pays to work in [West] Berlin. (Ge) *Landesver. Gartenbau Landwirt. Berlin. Mitteilungsbl.* 19(1):24-26. Jan. 1968. 85 L233  
In horticulture: includes lower income taxes and a bonus.
- 78863 HAMMER, W. Total and causal observations as bases for work time studies in agriculture. (Ge) *Landarb. Tech.* 35:11-45. Ref. 1968. 18 L2354
- 78864 HAREN, C. Rural counties outpace urban in rate of nonfarm job growth. *Agr. Situation [Washington]* 52(5):13. May 1968. 1 Ec7Ag
- 78865 HERB, M. Time studies with fixed working place and short repetitive tasks. (Ge) *Landarb. Tech.* 35:47-62. Ref. 1968. 18 L2354  
Seedling transplanting in boxes.
- 78866 HERMSDORF, D. Work with men, component of scientific management in crop farming. (Ge) *Feldwirtschaft* 9(1):21-22. Jan. 1968. 18 W763
- 78867 HESSELBACH, J., LORENZ, J., and UFER-MANN, S. Production data from the forage harvest. (Ge) *Landarbeit* 19(5):37-38. May 1968. 18 L2355  
Time studies.
- 78868 JADAMBAA, S. Utilizing agricultural manpower. U. S. Joint Publ. Res. Serv. Transl. *Mongolia* 153:1-3. Jan. 8, 1968. (JPRS 43,901) 173 J663Tmo  
Translation from Unen, Sept. 2, 1967:2. Issued by CFSTI.
- 78869 KABACHKOV, P. Wages and productivity. U. S. Joint Publ. Res. Serv. Transl. *USSR Labor* 233:1-9. Feb. 29, 1968. (JPRS 44,538) 173 J663Tou  
Of collective farms.  
Translation from Planovoe Khozyaistvo 1: 80-84. Jan. 1968.  
Issued by CFSTI.
- 78870 KAMPEN, J. H. van. Operations research on a large farm. (Du) *Neth. Dir. Landbouw. Landbouwwoorlichting* 25(4):158-160. Apr. 1968. 12 N383M
- 78871 KHANUKAYEV, S. Determination of work-time expenditures and number of kolkhoz workers. U. S. Joint Publ. Res. Serv. Transl. *USSR Labor* 236:30-35. Mar. 14, 1968. (JPRS 44,679) 173 J663Tou  
Translation from Voprosy Ekonomiki 1:138-141. Jan. 1968.  
Issued by CFSTI.
- 78872 KIM, H. H. Equitable labor assessment stressed. Joint Publ. Res. Serv. Transl. *N. Korea* 68: 27-35. Jan. 10, 1968. (JPRS 43,963) DS901.T7  
In harvesting and threshing grain crops.  
Translation from Nongop Kulloja, Oct. 25, 1967:4.  
Issued by CFSTI.
- 78873 KONDRAT'YEV, K. New pay rates for state farm workers given in detail. U. S. Joint Publ. Res. Serv. Transl. *USSR Labor* 225:10-12. Jan. 26, 1968. (JPRS 44,160) 173 J663Tou  
Translation from Ekonomicheskaya Gazeta 51:30. Dec. 1967.  
Issued by CFSTI.
- 78874 KOZIARA, K. S. Collective bargaining on the farm. U. S. Bur. Labor. Statist. Mon. Labor Rev. 91(6):3-9. June 1968. 158.6 B87M
- 78875 KREJCI, V. Rationalization and the long-term concept of the development of agriculture. (Cz) *Statni Statky.* 11(2):20-22, 29. 1968. 19.5 St2  
Labor on state farms.
- 78876 KRIEL, A. F. Labor problem under the searchlight. (Af) *Wynboer* 436:19-22. Jan. 1968. 390.8 W724
- 78877 KROLIS, K. E. Labor organization in rough forage production on pure meadows in the Netherlands. (Ge) *Landarbeit* 19(5):33-37. May 1968. 18 L2355
- 78878 KURBATOV, I. D. Analysis of the labor costs on the collective farms. (Rus) *Uchet Finansy Kolkhoz. Sovkhoz.* 5:37-41. May 1967. 30.69 Uc4
- 78879 LOBODA, I. Trained cadres needed for village reconstruction. U. S. Joint Publ. Res. Serv. Transl. *USSR Agr.* 224:5-11. Nov. 16, 1967. (JPRS 43,343; TT 67-33967) 173 J663Tso  
Translation from *Ekonomika Sovetskoi Ukrainy* 8:78-81. Aug. 1967.  
Issued by CFSTI.
- 78880 MAKHROV, K. A. Changing the standard unit for the accounting of labor. (Rus) *Uchet Finansy Kolkhoz. Sovkhoz.* 12:8-10. 1967. 30.69 Uc4  
On the collective farms.
- 78881 MAX-PLANCK-INSTITUT FÜR LANDARBEIT UND LANDTECHNIK. Aufgaben und Ergebnisse aus der Landarbeitswissenschaft; wissenschaftliche Beiträge zum 60. Geburtstag von Professor Dr. Gerhardt Preuschen von seinen Mitarbeitern [Tasks and results from agricultural labor science; scientific contributions upon the 60th birthday of Professor Dr. Gerhardt Preuschen, from his co-workers]. *Landarb. Tech.* 35:352 p. Ref. 1968. 18 L2354
- 78882 MCFADDEN, P. Youth helping youth, extension-employment service. *Ext. Serv. Rev.* 39 (3/4):8-9. Mar./Apr. 1968. 1 Ex892Ex Vermont.
- 78883 MCINTOSH, F. Scottish farm workers' hours and earnings 1966/67. *Scot. Dep. Agr. Fish. Scot. Agr. Econ.* 18:138-139. 1968. 281.9 Sco3S
- 78884 MEDEUBEKOV, K. YU., and ABDULLIN, V. A. Mechanized teams on the farm with loose housed cattle. (Rus) *Zhivotnovodstvo* 4:31-33. Apr. 1968. 49 Z6
- 78885 MEIER, J. Methods of inter-farm labor requirement calculations. (Ge) *Landarb. Tech.* 35:163-179. Ref. 1968. 18 L2354
- 78886 MERKE, E. The use of farm woman in field work in the Schenkenberg cooperation community. (Ge) *Feldwirtschaft* 9(3):101-102. Mar. 1968. 18 W763
- 78887 MIKHAILIN, P. A. Commercial accounting and the labor calculations. (Rus) *Uchet Finansy Kolkhoz. Sovkhoz.* 5:138-139. May 1967. 30.69 Uc4
- 78888 MIL'CHIN, T. I. Material incentives and wages. (Rus) *Uchet. Finansy Kolkhoz. Sovkhoz.* 3:36-40. 1968. 30.69 Uc4  
Accounting on the collective farms.
- 78889 MOLEN, J. van der. Labor methods in feeding. (Du) *Neth. Dir. Landbouw. Landbouwwoorlichting* 25(4):178-180. Apr. 1968. 12 N383M  
Cattle.
- 78890 MONTANARI, V. Conferences on syndical and labor problems, professional problems, cooperation. (It) *Agricoltura* 17(1):47-62. Jan. 1968. 16 Ag8226  
English summary, p. 9.
- 78891 NGUYEN THANH. Developing the role of technical cadres in agriculture. Joint Publ. Res. Serv. Transl. *N. Vietnam* 286:7-11. Nov. 22, 1967. (JPRS 43,417) DS557.A7J6  
Education.  
Translation from *Tin Tuc Hoat Dong Khoa Hoc* 8:4-6. Aug. 1967.  
Issued by CFSTI.



- 78892 NGUYEN-THE-SUONG. Labor planning is a key point in agricultural cooperatives. Joint Publ. Res. Serv. Transl. N. Vietnam 363:16-23. May 10, 1968. (JPRS 45,318) DS557.A7J6  
Translation from Khoa Hoc Ky Thuat Nong Nghiep. Dec.1967:453-456.  
Issued by CFSTI.
- 78893 NIX, J. S. Labour organization on the farm. Great Brit. Min. Agr. Fish. Food. Agr. 75(2): 59-63. Feb.1968. 10 G79J
- 78894 NORD, O. Time measurement with the sound tape apparatus. (Ge) Landarb. Tech. 35:83-91. 1968. 18 L2354
- 78895 PAPESCH, J. Brief introduction to the fundamentals of network planning. III. (Ge) Feldwirtschaft 9(1):32-33. Jan.1968. 18 W763
- 78896 PAPESCH, J. Network planning in grain harvesting. (Ge) Deut. Agrartech. 18(4):185-187. Apr.1968. 58.8 D482  
Critical path method for labor.
- 78897 PASICHNYK, P. P. Orhanizatsiya pratsi v tvarynnystvi [Labor management in the livestock husbandry]. Kyiv, Urozhai, 1967. 116 p. SF55.U35P3
- 78898 PETKOV, P. K., and MURTAZAEV, A. O. Scientific labor management in the livestock husbandry. (Rus) Zhivotnovodstvo 4:23-26. Apr. 1968. 49 Z6
- 78899 PLATEN, M. Essence and purpose of human guidance. (Ge) Feldwirtschaft 9(1):23-24. Jan.1968. 18 W763
- 78900 PREUSCHEN, G. Problems of labor technique and technology in plow development. (Ge) Landarbeit 19(1):4-8. Jan.1968. 18 L2355
- 78901 PREUSCHEN, R. Limits of automation of technical operations in agriculture. (Ge) Landarb. Tech. 35:303-314. 1968. 18 L2354  
In relation to labor.
- 78902 PUJOL, C. Wages and labor in agriculture in April 1967. (Fr) France. Inst. Nat. Statist. Etudes Econ. Conjoncture 23(3):141-182, map. 1968. 280.8 F84  
English summary, p.184.
- 78903 PURYSHEVA, T. Recommendations voiced for improving incentives on sovkhoses. U. S. Joint Publ. Res. Serv. Transl. USSR Labor 227:1-7. Feb.14, 1968. (JPRS 44,361) 173 J663Tou  
Translation from Sovetskie Profosyuzy 22: 14-15. Nov.1967.  
Issued by CFSTI.
- 78904 PUSSKEILER, H. The labor productivity and factors of its determination in the case of specialized production of Rhododendron simsii. (Ge) Arch. Gartenbau 16(1):67-79. 1968. 80 Ar2  
English summary.
- 78905 RUKOSUYEV, P. N. Remuneration for labor according to final production results in sovkhoses. U. S. Joint Publ. Res. Serv. Transl. USSR Labor 233:10-19. Feb.29, 1968. (JPRS 44,538) 173 J663Tou  
Translation from Moscow. Universitet. Vestnik, Seriya 7, Ekonomika 1:57-64. Jan./Feb. 1968.  
Issued by CFSTI.
- 78906 RUPRICH, W. Problems of method in labor studies of production procedures in cattle loafing barns. (Ge) Landarb. Tech. 35:315-326. Ref. 1968. 18 L2354
- 78907 RUTH, H., and ZIMMERMANN, E. Efficient coupling and combining of equipment with labor motions in seedbed preparation. (Ge) Feldwirtschaft 9(3):113-115. Mar.1968. 18 W763
- 78908 SAPUNDZHIEV, D. Basic production funds and labor productivity in agriculture. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 621:1-13. Jan.29, 1968. (JPRS 44,169) 173 J663Ste  
In Bulgaria.  
Translation from Planovo Stopanstvo i Statistika 9:13-24. 1967.  
Issued by CFSTI.
- 78909 SCHWAGER, E. Notice and release. (Du) Loonbedrijf Land- Tuinbouw 21(4):273,275,277, 279. Apr.1968. 283.8 L87  
In contract labor.
- 78910 SCHWARZWELLER, H. K. Community of residence and career choices of German rural youth. Rural Sociology 33(1):46-63. Ref. Mar. 1968. 281.28 R88
- 78911 SEMENOV, N. V. Some aspects of labour rate fixing for laboratory workers. (Rus) Veterinariya 12:102-104. Dec.1967. 41.8 V6426
- 78912 SHALAEV, A. K. Effect of production concentration on economic results and labor payments. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 128:251-255. 1967. 20 M857  
Collective farms.
- 78913 SHEVCHENKO, P. K., and PIPKO, V. A. Material stimulation and the payment by piecework and bonus. (Rus) Uchet Finansy Kolkhoz. Sovkhos. 5:35. May 1967. 30.69 Uc4  
On the collective and state farms.
- 78914 SHITIKOV, A. Role of mechanized labor and wages in Khabarovskiy Kray agriculture. U. S. Joint Publ. Res. Serv. Transl. USSR Labor 249: 103-108. May 28, 1968. (JPRS 45,500) 173 J663Tou  
Translation from Sel'skaya Zhizn', Apr.24, 1968:2.  
Issued by CFSTI.
- 78915 SOURCES of labor discontent in China: the worker-peasant system. Curr. Scene 6(5), 28 p. Ref. Mar.15, 1968. 280.8 C933
- 78916 STARCKE, E. Making and breaking labor agreements. (Ge) Landesver. Gartenbau Landwirt. Berlin. Mitteilungsbl. 19(1):7-8. Jan. 1968. 85 L233
- 78917 TANIS, T., and Oving, R. K. Attuning of harvest and transport. III. (Du) Landbouwmecanisatie 19(3):285-287. Mar.1968. 58.8 L2352  
English summary.  
Labor requirements for potatoes.
- 78918 TRYFAN, B. Duties of the rural woman in the household. (Pol) Wies Wspolczesna, Pismo Ruchu Ludowego 12(2):80-90. Feb.1968. HN536.W5  
English summary, p.13 of supplement.
- 78919 TUSHKANOV, M. P. Application of extra pay on the collective farms in the Yaroslavl Region. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 128:245-250. 1967. 20 M857
- 78920 VALENTE, A. Problems of rural labor. (Por) Gaz. Agr. Angola 13(2):111,115,140. Feb.1968. 24 G252
- 78921 VRBOVA, J. Rationalization of work in poultry raising. (Cz) Ekon. Zemedelstvi 7(2):50-52. 1968. 281.8 Ek7
- 78922 WISSKIRCHEN, P. Labor investigations in fruit tree pruning. (Ge) Landarb. Tech. 35: 339-352. 1968. 18 L2354  
Time and motion studies.
- 78923 WOLSKÉ, D., JOST, W., and SCHMIDT, E. Brief introduction to the principles of the net plan technique. IV. (Ge) Feldwirtschaft 9(2): 76-77. Feb.1968. 18 W763  
Time and motion study.
- 78924 WYDERKO, A. The labor factor in Polish agriculture. (Pol) Wies Wspolczesna, Pismo Ruchu Ludowego 12(2):50-59, map. Feb.1968. HN536.W5  
English summary, p.9-11 of supplement.
- 78925 YUSUPOV, O. Stimulating economic growth. U. S. Joint Publ. Res. Serv. Transl. USSR Labor 229:18-22. Feb.19, 1968. (JPRS 44,419) 173 J663Tou  
Wages for kolkhozes.  
Translation from Pravda Vostoka, Jan.7, 1968: 2.  
Issued by CFSTI.

#### AGRICULTURE - SITUATION, POLICIES, AND PROGRAMS

- 78926 ADAMSKI, I. Agriculture, the rural areas, and peasants in the future. (Pol) Wies Wspolczesna, Pismo Ruchu Ludowego 13(1):22-30. Jan. 1968. HN536.W5  
English summary, p.5-9 of supplement.

- 78927 AIELLO, C. Agrarian policy and southern action. (It) Riv. Polit. Agr. 15(1):53-57. Mar. 1968. 281.8 R523
- 78928 ALBERTARIO, P. Community agricultural policy. (It) G. Agr. 58(18):235-236. May 5, 1968. 16 It1G
- 78929 ANDREAE, B. Agrarian science before new tasks. (Ge) Diplomlandwirt 18(3):45-47. Mar. 1968. 18 D62  
The agricultural situation and research and education.
- 78930 AUSTRALIA. DEPT. OF TERRITORIES. Annual report on the Northern Territory of Australia for the period 1 July 1965 to 30 June 1966. Canberra, 1967. 190 p. 271.423 G74  
Includes chapters on agriculture and forestry.
- 78931 THE AUSTRALIAN farm situation, 1967-68. Australia. Bur. Agr. Econ. Quart. Rev. Agr. Econ. 21(1):1-14. Jan. 1968. 281.9 Au73
- 78932 BAUMER, M. Algeria in search of new rural development. (Fr) Marches Trop. Mediter. 24(1167):712-713. (Cont.) Mar. 23, 1968. 286.8 M33
- 78933 BELYAEV, I. T. Perspektivnoe planirovanie sel'skogo khozyaistva [Perspective planning in agriculture]. Ed. 2., rev. and enl. Leningrad, Lenizdat, 1967. 135 p. Ref. HD1992.B4 1967
- 78934 BERTON, P. A. M. Contemporary China; a research guide. Hsien tai Chung-kuo yen chiu-chih nan. Stanford, California, 1967. 695 p. (Hoover Institution on War, Revolution and Peace. Bibliographical Series, 31) Z3106.B4  
Includes references to agriculture for which the index should be consulted.
- 78935 BESLAY, A. Les mesures de politique agricole de 1960 a 1967 [The measures of agricultural policy from 1960 to 1967]. Chambres Agr. 39(381,sup.), 20 p. Feb. 1, 1968. 14 T69
- 78936 BICKLEY, L. S. Preview; France's farm prospects. Foreign Agr. 6(23):6-6. June 3, 1968. A281.9 F76Fo
- 78937 BIRNBECK, S. Excerpts from Hungarian agriculture. (Ge) Mitt. Deut. Landwirt.-Ges. 83(18):646-649. May 2, 1968. 18 N39
- 78938 BOALCH, D. H., ed. Current agricultural serials. Volume II. Indexes. Oxford, International Association of Agricultural Librarians and Documentalists, 1967. 95 p. 241.9 B633
- 78939 BOGUSLAWSKI, E. VON. Agricultural sciences in scientific planning. (Ge) Mitt. Deut. Landwirt.-Ges. 83(6):137-138. Feb. 8, 1968. 18 N39
- 78940 BOLOGNANI, E. Trends and direction of agriculture in Trento-Alto Adige. (It) Agr. Venezia 22(1):11-13. Jan. 1968. 16 Ag826
- 78941 BROS, C. DE. Agriculture seen from outside. (Fr) Indus. Lait. Suisse 49(15):1. Apr. 11, 1968. 44.8 In24
- 78942 BROS, C. DE. Agriculture seen from outside: National solidarity. (Fr) Indus. Lait. Suisse 49(17):2. Apr. 26, 1968. 44.8 In24
- 78943 BROWNING, W., and ALLEN, S. Q. Kentucky agricultural outlook for 1968. Ky. Univ. Ext. Misc. 138-1, 19 p. Jan. 1968. 275.29 K415M
- 78944 BUCK, R. K. Farm uneasiness—a farmer's view. Iowa. State Univ. Sci. Technol. Cent. Agr. Econ. Develop. CAED Rep. 31:3-9. 1968. 281.9 Io93
- 78945 BUI HUY DAP. Agricultural victory in Nam Ha Province. Joint Publ. Res. Serv. Transl. N. Vietnam 314:110-114. Feb. 26, 1968. (JPRS 44,491) DS557.A7J6  
Program.  
Translation from Nhan Dan, Jan. 20, 1968:2.  
Issued by CFSTI.
- 78946 BURI, D. Problems of Berne agriculture. (Ge) Grune 96(18):617-623. May 3, 1968. 17 Sch9
- 78947 BUTZ, E. L. Commercial agriculture—a story of power and progress. Amer. Soc. Farm. Managers Rural Appraisers. J. 32(1):3-8. Apr. 1968. 281.8 Am32  
Productive capacity, outlook, and marketing.
- 78948 CANADA. DEPT. OF AGRICULTURE. INFORMATION DIV. Agricultural outlook, Canada, 1968. Ottawa, 1967. 13 p. 281.8 Ag852
- 78949 CHAMPEAU, H. C. New Polish laws fight farm inefficiency. Foreign Agr. 6(22):11. May 27, 1968. A281.9 F76Fo
- 78950 CHRYST, W. E. Food and fiber for the future. Amer. Soc. Farm. Managers Rural Appraisers. J. 32(1):9-14. Apr. 1968. 281.8 Am32  
An evaluation of the report of the National Advisory Commission on Food and Fiber.
- 78951 COMELLI, A. Agriculture in the Friuli-Venezia Giulia region. (It) Agr. Venezia 22(1):8-10. Jan. 1968. 16 Ag826
- 78952 COPPOCK, J. T. The geography of agriculture. J. Agr. Econ. [Reading] 19(2):153-175. Ref. May 1968. 281.9 Ag8
- 78953 COTTON, G. The legal statute for farming in France. (Fr) France. Dir. Doc. Notes Etudes Doc. 3444:11-17. Dec. 11, 1967. 280.9 F843
- 78954 CREIXELL VENDRELL, J. Spanish agriculture and the Common Market. (Sp) Cultiv. Mod. 51(2):47. Feb. 1968. 15 C89
- 78955 DAHL, A. Structure trends in Scandinavian agriculture. (No) Norsk Landbruk 8:20-21, 33. Apr. 19, 1968. 11 N8122
- 78956 DAO THE TUAN. Basic agricultural problems of North Vietnam. Joint Publ. Res. Serv. Transl. N. Vietnam 311:24-35. Feb. 12, 1968. (JPRS 44,318) DS557.A7J6  
Increased labor productivity leading to increased production and the balance between crop and livestock production.  
Translation from Khoa Hoc Ky Thuat Nong Nghiep 70:377-383. Oct. 1967.  
Issued by CFSTI.
- 78957 DRACE, D. How the medium-term (1966-1970) plan for agriculture is being fulfilled. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 650:5-16. May 22, 1968. (JPRS 45,449) 173 J663Ste  
In Yugoslavia.  
Translation from Glasnik Poljoprivrede i Zadrugarstva 4:15-22. n.m., 1968.  
Issued by CFSTI.
- 78958 FERRETTO, R. Economic organization of agricultural producers in France. (It) Bull. Agr. [Milano] 102(7):1-4. Apr. 15, 1968. 16 B87  
Agricultural situation and structural policy.
- 78959 FRANCE. DIRECTION DE LA DOCUMENTATION. Exploitation agricole et aménagement foncier dans les pays de l'Europe des Six [Agricultural exploitation and land management in the countries of Europe of the Six]. France. Dir. Doc. Notes Etudes Doc. 3444, 40 p. Dec. 11, 1967. 280.9 F843  
Includes summary report by J. Megret.
- 78960 FREEMAN, T. R. Pakistan's third plan focuses on agricultural development. Foreign Agr. 6(26):2-4. June 24, 1968. A281.9 F76Fo
- 78961 FREETH, P. J. Our most challenging years. Service [New Plymouth], Autumn 1968:7-9. 385 Se6  
New Zealand agriculture.
- 78962 FRYCEK, A. Organization and research work of the Research Institute for Hill Farming at Gumpenstein in Austria. (Cz) Pol'nohospodarstvo 14(1):74-80. 1968. 19.5 P752
- 78963 GARRY, R. Modernization of rural areas in Cambodia. U. S. Joint Publ. Res. Serv. Transl. S. East Asia 171:1-15. Nov. 8, 1967. (JPRS 43,280; TT 67-33904) 173 J663Trso  
Translation from Le Sangkum 25:94-98. Aug. 1967.  
Issued by CFSTI.
- 78964 GASSER, U. A cross-section of Thurgau agriculture. (Ge) Grune 96(16):538-549. Apr. 19, 1968. 17 Sch9



- 78965 GERMANY (FEDERAL REPUBLIC). BUNDESKANZLER. Bericht der Bundesregierung über die Lage der Landwirtschaft gemäss 84 Landwirtschaftsgesetz und Massnahmen der Bundesregierung gemäss 85 Landwirtschaftsgesetz und EWG-Anpassungsgesetz [Report of the Federal Government on the situation of agriculture in accordance with 84 of the Agricultural Law and measures of the Federal Government in accordance with 85 of the Agricultural Law and the EEC Adaptation Law]. Bonn, 1968. 307 p., map. 18 G316
- 78966 GRAFFUNDER, S. The situation of West German farmers in 1967. (Ge) Feldwirtschaft 9 (1):4. Jan. 1968. 18 W763
- 78967 GRAY, E. L. EEC agricultural projects and programs. Can. Dept. Agr. Agr. Abroad 23(2): 32-37. Apr. 1968. 281.9 C1642A
- 78968 GROENEVELD, S. Evaluation of agricultural development projects. (Ge) Z. Ausländische Landwirt. 7(1):65-74. Jan. 1968. 281.8 Z32 English summary.
- 78969 GUAM. GOVERNOR. 1966 annual report to the Secretary of the Interior. Washington, 1967. 173 p. 153.1 G93 Includes agricultural policy.
- 78970 HADWIGER, D. F., and TALBOT, R. B. Government programs: what are the near-term prospects? Iowa. State Univ. Sci. Technol. Cent. Agr. Econ. Develop. CAED Rep. 31:131-148. 1968. 281.9 Io93 Agricultural policy.
- 78971 HANCE, W. A. African economic development. Rev. ed. New York, Praeger 1967. 326 p. HC502.H3 1967 Bibliography, p.303-309. Includes agricultural development and the Gezira Scheme.
- 78972 HARTOUNGH, J. C. C. Data on the agricultural development of the Niger Delta. (Du) Landbouwkundig Tijdschr. 80(5):192-196, map. May 1968. 105.2 Or3 In Nigeria.
- 78973 HEADY, E. O. Our long-run production potential. Iowa. State Univ. Sci. Technol. Cent. Agr. Econ. Develop. CAED Rep. 31:75-93. 1968. 281.9 Io93
- 78974 HEADY, E. O. A primer in food, agriculture, and public policy. New York, Random House, 1967. 177 p. Ref. (The Primer Series) HD1761.H4 Includes agricultural problems under economic growth.
- 78975 HEADY, E. O., and MAYER, L. V. Summary of alternatives in farm policy for the immediate period ahead. Iowa. State Univ. Sci. Technol. Cent. Agr. Econ. Develop. CAED Rep. 31:197-211, map. 1968. 281.9 Io93
- 78976 HEINTZE-BLASCZEKOWICZ, M. The situation of agriculture and nutrition in 1966. (Pol) Wies Wspolczesna, Pismo Ruchu Ludowego 13 (1):136-140. Jan. 1968. HN536.W5
- 78977 HENDEL, S., and BRAHAM, R. L., ed. The U.S.S.R. after 50 years; promise and reality. New York, Knopf, 1967. 299 p. DK266.A3H4 Papers by A. G. Meyer, P. Wiles, W. Miller, B. D. Wolfe, W. M. Mandel, F. L. Schuman; and U. Ra'anani. Includes references to agriculture for which the index should be consulted.
- 78978 HENDERSON, L. M. Steps by Pakistan government accelerate farm production. Int. Com. 74(16):7-10. Apr. 15, 1968. 157.54 F763
- 78979 HOANG-NO. Son La to develop agricultural production, animal husbandry, and local industry. Joint Publ. Res. Serv. Transl. N. Vietnam 309:30-32. Feb. 8, 1968. (JPRS 44,289) DS557.A7J6 Translation from Nhan Dan, Jan. 4, 1968:2. Issued by CFSTI.
- 78980 HOCHERL, H. Future agricultural policy. (Ge) Obst Gemuse 32(3):37-38. Mar. 1968. 286.83 Ob72
- 78981 HOCHERL, H. Why no more Green Plan? (Ge) Mitt. Deut. Landwirt.-Ges. 83(10):297-298. Mar. 7, 1968. 18 N39
- 78982 HOFRICHTEROVA, A. Zemedelstvi v clenskych stateg RVHP; statistické udaje. Souborný srovnávací přehled [Agriculture of members of the Council for Mutual Economic Assistance; statistics; comparative reviews]. Praha, Ústředí Zemedelského a Potravinárskeho Vyzkumu, 1968. 116 p. Ref. S13.S82 English summary.
- 78983 HOLZINGER, O. Importance and effects of regional priority formation with reference to the future development of Austrian agricultural production. (Ge) Forderungsdienst 16(4):116-123. Apr. 1968. 19 F75
- 78984 HONG KONG. Report for the year 1967. Hong Kong, 1968. 356 p., map. 280.184 H75 Includes a chapter on primary production.
- 78985 HOPFNER, L. Bavaria's agriculture at the beginning of the Common Market. (Ge) Mitt. Deut. Landwirt.-Ges. 83(19):663-664. May 9, 1968. 18 N39
- 78986 HULLE, A. VAN. The legal statute for farming in Belgium. (Fr) France. Dir. Doc. Notes Etudes Doc. 3444:17-18. Dec. 11, 1967. 280.9 F843
- 78987 HUNDHAMMER, A. Bavaria's agriculture in the EEC. (Ge) Mitt. Deut. Landwirt.-Ges. 83 (19):661-662. May 9, 1968. 18 N39
- 78988 HUU DUC. Serving agricultural production in Thanh Hoa Province. Joint Publ. Res. Serv. Transl. N. Vietnam 280:55-57. Nov. 13, 1967. (JPRS 43,303; TT 67-33927) DS557.A7J6 Translation from Nhan Dan, Oct. 1, 1967:2. Issued by CFSTI.
- 78989 ITALIAN agriculture through the 1967 conferences. (It) Agricoltura 17(1):22-160. Jan. 1968. 16 Ag8226
- 78990 JACKSON, A. L. Farming cameo series 4:8. Cornwall. Great Brit. Min. Agr. Fish. Food. Agr. 75(2):88-89. Feb. 1968. 10 G79J
- 78991 JAGIELSKI, M. Current tasks of people's councils in the field of agriculture. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 645:9-27. May 10, 1968. (JPRS 45,311) 173 J663Ste In Poland. Translation from Nowe Rolnictwo 4:16-29. Feb. 1968. Issued by CFSTI.
- 78992 JENSEN, E. Agricultural situation. (Da) Tidskr. Landokon. 155(4):162-187. 1968. 11 T43
- 78993 JONES, M. A. H. Farming cameo series 4:9. Lley, Caernarvonshire. Great Brit. Min. Agr. Fish. Food. Agr. 75(3):142-143. Mar. 1968. 10 G79J
- 78994 KELLOGG, C. E. World food prospects and potentials: A long-run look. Alternatives Balancing World Food Prod. Needs. Rep. 1967:98-111. Ref. HD9000.1.A4 Potentials in relation to soil and water available for agriculture, including policies and methods of development.
- 78995 KILEY, E. W. REA survey shows year's RAD progress. Rural Elec. 26(6):8. Mar. 1968. 335.8 N21
- 78996 KOLBUSZ, F. Agricultural development trends in socialist countries. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 614:1-18. Dec. 12, 1967. (JPRS 43,688) 173 J663Ste Translation from Wies Wspolczesna 11:41-53. Nov. 1967. Issued by CFSTI.
- 78997 KRASON, W. S. Expansion of farm output offers mutual benefits for Pakistan, U.S. Int. Com. 74(16):21-23. Apr. 15, 1968. 157.54 F763
- 78998 KROHN, H. What is right to one—. (Ge) Ubersicht 19(5):341-343. May 11, 1968. 18 Ub3 Agricultural situation.

- 78999 LAUFER, L. Israel and the developing countries: new approaches to cooperation. New York, Twentieth Century Fund, 1967. 298 p. Ref. HC60.L3
- 79000 LE-BA. On the basis of a successful ideological task, Thanh Oai (Ha Tay) determined to become a "five metric ton" district. Joint Publ. Res. Serv. Transl. N. Vietnam 263:71-83. Oct.16,1967. (JPRS 42,972; TT 67-33598) DS557.A7J6  
Policies to increase agricultural production. Translation from Tuyen Huan 8:32-37. Aug. 1967.  
Issued by CFSTI.
- 79001 LE-QUY-QUYNH. Industry and agriculture develop simultaneously in Hung Yen. Joint Publ. Res. Serv. Transl. N. Vietnam 309:27-29. Feb.8,1968. (JPRS 44,289) DS557.A7J6  
Translation from Nhan Dan, Jan.4,1968:2.  
Issued by CFSTI.
- 79002 LIN, P. A general view of the 1967 agricultural production on the Mainland. Joint Publ. Res. Serv. Transl. Communist China Econ. 39:1-15. Jan.29,1968. (JPRS 44,165) DS557.A1T7  
Translation from Fei Ch'ing Yueh Pao 10(10): 39-45. Dec.1967.  
Issued by CFSTI.
- 79003 LOVAS, M. The realities of agricultural development-Hungary. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 608:1-7. Nov.28,1967. (JPRS 43,485) 173 J663Ste  
Translation from Figyelo 44:8. Nov.1967.  
Issued by CFSTI.
- 79004 MADEC, A. M. Remarks on the evolution of agrarian structure in France. (Pol) Wies Wspolczesna, Pismo Ruchu Ludowego 12(2):91-97. Feb.1968. HN536.W5
- 79005 MANSHOLT, S. L. Our century. (Du) Ned. Heidemaatsch. Tijdschr. 79(4):192-198. (Cont.) Apr.1968. 12 N282  
Includes changes in agriculture.
- 79006 MARIS, A. Problems and policy of structural adaptation. (Du) Landbouw-Serv 1:28,30-32. Jan./Feb.1968. 13 L234  
In developed countries.
- 79007 MAYER, L. V. Farm uncertainty—an analysis of the issues. Iowa. State Univ. Sci. Technol. Cent. Agr. Econ. Develop. CAED Rep. 31:11-24. 1968. 281.9 I093
- 79008 MCGOVERN, G., ed. Agricultural thought in the twentieth century. Indianapolis, Bobbs-Merrill Company, 1967. 570 p. (American Heritage Series, 71) HD1759.M3  
Bibliography, p.xlvii-lv.
- 79009 MEHREN, G. L. Anticipating the year 2000. Amer. Diet. Ass. J. 52(6):467-470. June 1968. 389.8 Am34  
Agricultural policy.
- 79010 MEHREN, G. L. The Department [of Agriculture]-[experiment] station partnership. Nat. Seminar Workshop Home Econ. Res. Admin. Proc. 1967:29-32. TX5.N3
- 79011 MIDDELDORF, H. U.S. agriculture today. 1. An introduction. (Ge) Mitt. Deut. Landwirt.-Ges. 83(9):274,276-277. Feb.29,1968. 18 N39
- 79012 MILANOVIC, P. The developmental possibilities of agriculture in 1968. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 646:26-34. May 10,1968. (JPRS 45,315) 173 J663Ste  
Policies in Yugoslavia.  
Translation from Glasnik Poljoprivrede i Zadrugarstva 2:14-19. Feb.1968.  
Issued by CFSTI.
- 79013 MILANOVIC, P. Some tendencies in the development of agriculture. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 623:6-13. Feb.6,1968. (JPRS 44,258) 173 J663Ste  
In Yugoslavia.  
Translation from Glasnik za Poljoprivredu i Zagdrugarstvo 16(12):15-19. Dec.1967.  
Issued by CFSTI.
- 79014 MORO, A. For a more modern agriculture: Overcome sector lack of balance; guarantee a more adequate income. (It) Agricoltura 17 (4):27-33. Apr.1968. 16 Ag8226  
English summary, p.18.
- 79015 MULLER, H. J. The 1968 Green Report. (Ge) Mitt. Deut. Landwirt.-Ges. 83(8):201-202. Feb.22,1968. 18 N39
- 79016 MUTAPOVIC, D. Some indices of the development of agriculture during the last decade. (Se) Ekon. Poljoprivrede 15(3):155-167. Mar.1968. 281.8 Ek72
- 79017 MUTH, H. "Farmer" and "Farmer position" in the lexicon of the 19th and 20th centuries. (Ge) Z. Agrargesch. Agrarsoziol. 16(1):72-98. Ref. Apr.1968. 30.98 Z3 --
- 79018 NATIONAL ASSOCIATION OF STATE DEPARTMENTS OF AGRICULTURE. Proceedings, forty-ninth annual convention, Atlanta, Georgia, October 1-5, 1967. Athens, 1967. 145 p. 4 N217
- 79019 NATIONAL FARMERS UNION (CANADA). Submission to the Government of Canada. Ottawa, 1968. 37 p. 7 In82S
- 79020 NEETZ, R. E., and SCHOONOVER, D. M. Soviet farm production continues high. Foreign Agr. 6(26):5-6. June 24,1968. A281.9 F76Fo
- 79021 NEUMAIER, T. Mexico's agriculture today. (Ge) Mitt. Deut. Landwirt.-Ges. 83(12):403-405. Mar.21,1968. 18 N39
- 79022 NIELSEN, A. B. Impressions from Soviet and its agriculture in the jubilee year. (Da) Tolvmandsbladet 40(4):201-202,207-213. Apr.1968. 11 T58
- 79023 NOORT, P. C. VAN DEN. Sketches of American agriculture. I. The changed agriculture. (Du) Landbouwkundig Tijdschr. 80(4):168-169. Apr.1968. 105.2 Or3
- 79024 NOORT, P. C. VAN DEN. Sketches of American agriculture. II. Overproduction and overcapacity. (Du) Landbouwkundig Tijdschr. 80 (5):219. May 1968. 105.2 Or3
- 79025 ONISHCHENKO, A. Computers used in agricultural planning. U. S. Joint Publ. Res. Serv. Transl. USSR Agr. 227:1-12. Nov.30,1967. (JPRS 43,515) 173 J663Tso  
Translation from Ekonomika Sovetskoi Ukrainy 9:72-76. 1967.  
Issued by CFSTI.
- 79026 PAE, B. D. Transformation of rural communities in Korea. (Ja) Agr. Asia 6(5):11-17. May 1968. 22.5 A15
- 79027 PAGANI, A. Panorama of Italian agriculture at the beginning of 1968. (It) Riv. Polit. Agr. 15 (1):7-20. Mar.1968. 281.8 R523
- 79028 PAVLOVIC, U. Agriculture in the first two years of the economic reform. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 629:47-54. Feb.29,1968. (JPRS 44,530) 173 J663Ste  
In Yugoslavia.  
Translation from Ekonomika Poljoprivrede 1/2:123-127. Jan./Feb.1968.  
Issued by CFSTI.
- 79029 PAVLOVIC, U. The state of agriculture during the first two years of agrarian reform. (Se) Ekon. Poljoprivrede 15(1/2):123-127. Jan./Feb.1968. 281.8 Ek72
- 79030 PELLIZZARI, C. Milk, meat, and agitations of farmers. (It) Rass. Agr. Ital. 23(2):9-10. Feb. 1968. 281.8 R18  
Agricultural policy, especially guaranteed prices tied to production costs.
- 79031 PHAN QUANG. A review of agricultural production for 1967. Joint Publ. Res. Serv. Transl. N. Vietnam 314:84-89. Feb.26,1968. (JPRS 44,491) DS557.A7J6  
Translation from Nhan Dan, Jan.5,1968:2.  
Issued by CFSTI.
- 79032 PHANG QUANG. Review of agriculture in North Vietnam in 1967. Joint Publ. Res. Serv. Transl. N. Vietnam 316:25-31. Feb.28,1968. (JPRS 44,523) DS557.A7J6  
Translation from Nhan Dan, Jan.7,1968:2.  
Issued by CFSTI.



- 79033 PICCOLI, G. Veneto: summary of the 1967 agricultural year. (It) Agr. Venezie 22(1):3-7. Jan.1968. 16 Ag826
- 79034 POHORYLES, S. The macro-economic framework of agricultural planning. (He) Agr. Israel 13(6/7):10-15. Mar./Apr.1968. 22.5 Ag825
- 79035 PORUMBESCU, V., and PREDOI, I. Unity between theory and practice of socialist planning. (Rum) Probl. Econ. [Bucharest] 21(1):30-42. Jan.1968. 280.8 P947  
English summary.
- 79036 PROSPECTS brighter for 68. Can. Food Indus. 39(5):23-25. May 1968. 286.83 C166  
Agriculture.
- 79037 QUINN, J. Rotorua district served by lively development committee. New Zeal. J. Agr. 116(5):15-18. May 1968. 34 N48J  
Rotorua-Taupo Agricultural Development Committee.
- 79038 RADOV, G. Some effects of increased incentives on farm production. 16 p. (JPRS 39,346; TT 66-35768) Transl. 16544  
Translation from Literaturnaya Gazeta, Oct.18,1966:2-3; Oct.20,1966:1-2.  
Issued by CFSTI.
- 79039 RAM, P. Indicative world plan for agricultural development. (He) Agr. Israel 13(6/7):41-42. Mar./Apr.1968. 22.5 Ag825
- 79040 RANDJELOVIC, V. The agriculture of People's Republic of Bulgaria. (Se) Ekon. Poljoprivrede 15(1/2):107-111. Jan./Feb.1968. 281.8 Ek72
- 79041 RESTIVO, F. Resolute development of the farm modernization process. (It) Agricoltura 17(2):13-15. Feb.1968. 16 Ag8226  
-Agricultural policy.
- 79042 ROMAGNOLI, E. The legal statute for farming in Italy. (Fr) France. Dir. Doc. Notes Etudes Doc. 3444:4-11. Dec.11,1967. 280.9 F843
- 79043 SALTER, P. S. Changing agricultural patterns on the South Carolina Sea Islands. J. Geogr. 67(4):223-228. Apr.1968. 278.8 J82
- 79044 SCHAPPER, H. P. Irrationality gaps in agriculture. Farmer's Sci. Joint Conf. [Proc.], 7th Conf.:85-86. 1967. 27 F22  
Policies in Australia.
- 79045 SCHIJEN, J. M. "Boekel" and the consequences of "Mierlo." (Du) Neth. Dir. Landbouw. Landbouwvoorlichting 25(2):56-60. Feb. 1968. 12 N383M  
On a report of the working group "Mierlo" on Boekel regional improvement; agricultural policy.
- 79046 SCHWENDIMANN, F. The Plant Culture Commission of the Swiss Agricultural Union visits the Bern Jura. (Ge) Grune 96(10):317-322. Mar.8,1968. 17 Sch9  
Agricultural conditions.
- 79047 SENFTLEBEN, H. Agriculture and forestry in Sweden. (Ge) Mitt. Deut. Landwirt.-Ges. 83(3):62,64. Jan.18,1968. 18 N39
- 79048 SHILO, E. The nature of agricultural planning in Israel. (He) Agr. Israel 13(6/7):4-10. Mar./Apr.1968. 22.5 Ag825
- 79049 SKLENOVITS, S. Detailed planning of Israeli agriculture. (He) Agr. Israel 13(6/7):21-24. Mar./Apr.1968. 22.5 Ag825
- 79050 SMITH, B. P. The family approach to community resource development. Ext. Serv. Rev. 39(1):14-15. Jan.1968. 1 Ex892Ex  
Connecticut Extension work and Four-H project.
- 79051 SOMMER, A. The planning of agriculture in Judea and Samaria. (He) Agr. Israel 13(6/7):37-40. Mar./Apr.1968. 22.5 Ag825
- 79052 SOPRANI, C. Cuban agriculture in crisis in spite of the efforts of the Castro regime. (It) Riv. Polit. Agr. 15(1):68-70. Mar.1968. 281.8 R523
- 79053 STEPHANIDES, C. S. Agriculture moves up in Khuzistan [Iran]. Foreign Agr. 6(23):10-11. June 3,1968. A281.9 F76Fo
- 79054 STOUT, T. T. Some propositions about the nature of public policy. Iowa. State Univ. Sci. Technol. Cent. Agr. Econ. Develop. CAED Rep. 31:183-195. 1968. 281.9 Io93
- 79055 SVINSAS-LO, K. The ECC-farmers organizations—seen with Norwegian eyes. 4. Challenge of the 1970's to European agriculture. (No) Norsk Landbruk 7:12-13,30, map. Apr.5,1968. 11 N8122
- 79056 TAPAVICKI, M. Results of production of agricultural enterprises in Serbia in 1966. (Se) Ekon. Poljoprivrede 15(1/2):112-117. Jan./Feb.1968. 281.8 Ek72
- 79057 TAPAVICKI, M. Results of production of agricultural enterprises in the Autonomous Province of Kosovo and Metohija. (Se) Ekon. Poljoprivrede 15(1/2):118-122. Jan./Feb.1968. 281.8 Ek72
- 79058 THIMM, H. U. Bavaria at the intersection of the EEC, EFTA, and COMECON. (Ge) Kraftfutter 51(1):10-12,14-16, map. Jan.1968. 389.78 K85  
Effects on agriculture; includes marketing.
- 79059 TOMAL, Z. Farm policy problems and tasks. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 619:52-62. Jan.17,1968. (JPRS 44,034) 173 J663Ste  
In Poland.  
Translation from Wies Wspolczesna 12:3-12. Dec.1967.  
Issued by CFSTI.
- 79060 U. S. AGRICULTURAL STABILIZATION AND CONSERVATION COMMITTEE (NORTH CAROLINA). 1967 annual report, Franklin County, (North Carolina). Louisburg, 1968? 31 p. A281.9 St14
- 79061 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. MOTION PICTURE SERV. Films of the U.S. Department of Agriculture. U. S. D. A. Agr. Handbook 14,81 p. 1968. 1 Ag84Ah
- 79062 U. S. DEPT. OF AGRICULTURE. OFF. OF THE SECRETARY. Agriculture in the sixties. Washington, 1966. 14 p. PREP 881
- 79063 U. S. NATIONAL AGRICULTURAL LIBRARY. Serial publications indexed in the Bibliography of Agriculture. U. S. Natl. Agr. Libr. Libr. List 75, rev., 94 p. Feb.1968. 1.916 L612
- 79064 U. S. OFF. OF ECONOMIC OPPORTUNITY. INFORMATION CENTER. Summary of Federal programs for the State of Alabama, FY 1967. Washington, 1967. 284 p. HJ2052.A1U5
- 79065 UPCHURCH, M. L. The capacity of the United States to supply food for developing countries. Alternatives Balancing World Food Prod. Needs. Rep. 1967:215-223. HD9000.1.A4
- 79066 VALLAT, J. Rural development at Bruson, mountain village in the canton of Valais. (Fr) Indus. Lait. Suisse 49(17):3-4, map. Apr. 26, 1968. 44.8 In24
- 79067 VIBE-PEDERSEN, J. Revision of the agricultural policies. (Da) Tolvmandsbladet 40(5):231-237. May 1968. 11 T58
- 79068 WEINGARTNER, H. Social and agricultural conditions in the sphere of the Adriatic Riviera. (Ge) Lebendige Erde 2:78-81. Mar./Apr. 1968. 18 L49
- 79069 WEITZ, R. Town-village relationships and rural development. (He) Agr. Israel 13(6/7):16-20. Mar./Apr.1968. 22.5 Ag825
- 79070 WILSON, W., and EUBANKS, W. L. Progress doesn't just "happen." Ext. Serv. Rev. 39(6):10-11. June 1968. 1 Ex892Ex  
Alabama Extension program for rural development.
- 79071 WON, S. H. New agricultural guidance system lauded. Joint Publ. Res. Serv. Transl. N. Korea 71:9-27. Jan.29,1968. (JPRS 44,175) DS901.T7  
Translation from Nodong Sinmun, Dec.22, 1967:2-3.  
Issued by CFSTI.

- 79072 YOUNG, C. E. Yes! we can solve the farm problem. Bartow, Florida, Ceylon Company, 1967. 427 p. HD1476.U5Y6  
Agricultural policy with special reference to the family farm.
- 79073 YUN, C. H. Priority development of heavy industry and simultaneous development of light industry and agriculture. Joint Publ. Res. Serv. Transl. N. Korea 69:47-62. Jan.15,1968. (JPRS 44,010) DS901.T7  
Translation from Kulloja 9:28-36. Sept.1967. Issued by CFSTI.
- 79074 YUN, N. G. Our country has emerged as a strong socialist industrial-agricultural state. Joint Publ. Res. Serv. Transl. N. Korea 71:9-27. Jan.29,1968. (JPRS 44,175) DS901.T7  
Translation from Minju Chosun, Nov.21,1967: 2-3.  
Issued by CFSTI.

#### Subsidies

- 79075 DEBLOIS, E. N. Export-payment assistance to U.S. agricultural exports, fiscal year 1966/67. Foreign Agr. Trade U. S., June 1968:6-15. A286.9 Ag8
- 79076 DENGATE, H. V. Field beans; old crop—new look. Chartered Land Agents' Soc. J. 67(3):120-121. Mar.1968. 282.9 L22  
Production subsidies under the Field Beans Scheme.
- 79077 DIFFIDENTI, G. A. Sad land. (It) Genio Rurale 31(3):189-191. Mar.1968. 281.8 R522  
On the law making government grants to farmers who combine to employ technicians to manage their farms; includes the text of the law.
- 79078 HOCHERL, H. What agricultural subsidies are permissible under the EEC agreement? (Ge) Mitt. Deut. Landwirt.-Ges. 83(1):3-5. Jan.4, 1968. 18 N39
- 79079 KOCH, J. State financial aid for farms. (Ge) Mitt. Deut. Landwirt.-Ges. 83(1):5-8. Jan.4, 1968. 18 N39  
Subsidies.
- 79080 MADDEN, M. New farm improvement and structure schemes. Great Brit. Min. Agr. Fish. Food. Agr. 75(3):99-103. Mar.1968. 10 G79J  
Subsidies for improvement of farm size and improvements.
- 79081 MONTAGUE, D. Counsel for development. Agr. Merchant. 48(5):50-51,54. May 1968. 10 Ag89  
Set-up of the Central Council for Agricultural and Horticultural Co-operation for the issue of grants to farmers.
- 79082 PICCOLI, G. State incentives for beef production. (It) Agr. Venezia 22(3):195-204. Mar. 1968. 16 Ag826  
Includes credit.  
Includes discussion.
- 79083 TARASOV, N. S. New regulations for compensation of costs, spent for formation of basic herd on the state farms. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 5:47. May 1967. 30.69 Uc4 Cattle.
- 79084 U. S. BUR. OF OUTDOOR RECREATION. Federal assistance in outdoor recreation; available to: states, their subdivisions, organizations, individuals. U. S. Bur. Outdoor Recreation. Publ. 1, rev. 99 p. 1968. 156.63 P96

#### COST AND STANDARD OF LIVING

- 79085 MATOUSKOVA, J. Survey on consumption by agricultural families. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 619:48-51. Jan.17,1968. (JPRS 44,034) 173 J663Ste  
In Czechoslovakia.  
Translation from Rude Pravo, Nov.24,1965:5.  
Issued by CFSTI.

- 79086 STICKLEY, S. T., ROGERS, E. M., and SMITH, M. G. Levels of living among farmers in three Colombian neighborhoods. Ohio. State Univ. Dep. Agr. Econ. Rural Sociol. A.E. 414,34 p., map. Nov.1967. 281.9 Oh32

#### MANAGEMENT AND LAND ECONOMICS

- 79087 ABURDZHANIYA, O. K., and SHUKAKIDZE, E. G. Distributing resources by application of net diagram, used in management of agricultural enterprises. (Geo) Akad. Nauk Gruz. SSR. Soobshch. 48(3):531-536. Dec.1967. 511 Ak146  
Russian summary.  
Cybernetics.
- 79088 ACLAND, C. H. D. Farming in a national park; a Lake District survey. Country Life [London] 143(3709):788-790. Apr.4,1968. 80 C83
- 79089 AGRAWAL, R. C., and HEADY, E. O. Applications of game theory models in agriculture. J. Agr. Econ. [Reading] 19(2):207-218. Ref. May 1968. 281.9 Ag8
- 79090 ALFIRI, I. More economic self-management foreseen in agriculture. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 630:29-32. Mar.4,1968. (JPRS 44,573) 173 J663Ste  
In Romania.  
Translation from Gazeta Finantelor 16(759): 5. Jan.1968.  
Issued by CFSTI.
- 79091 ANDERSEN, F. Fitting in of sheep husbandry in present agriculture. (Da) Landbonyt 22(4): 193-196. Apr.1968. 11 L2322
- 79092 ARKHIPOV, A., and EFIMOV, V. Material and technical fundamentals of farming and the outlook for their development. (Rus) Voprosy Ekon. 2:109-121. Ref. Feb.1968. 280.8 V89
- 79093 ARMSTRONG, D. L. The most intensive dairy-fing in the world. Milk Prod. [London] 15(2): 48-49. Feb.1968. 280.38 M598  
New Zealand.
- 79094 ARNDT, R. Corporation farming—the experience of Norana, Inc. Amer. Soc. Farm Managers Rural Appraisers. J. 32(1):32-34. Apr. 1968. 281.8 Am32
- 79095 ATICH, S. Intensification of socialist agriculture. (Bu) Ikonomicheska Mis'1 12(9):70-77. 1967. 280.8 Ik7
- 79096 BARAN, M., and SANDOR, J. Contribution to the problems of theoretical basis of economic profitability of agricultural production. (Cz) Pol'nohospodarstvo 14(1):70-73. Ref. 1968. 19.5 P752
- 79097 BARKER, R., and SOOTHIPHAN, A. Economic efficiency and profitability of rice farming in the Philippines and Thailand. Farm Manage. Notes Asia Far East 4(1):8-14. Jan.1968. 281.8 F2228
- 79098 BARONCINI, A. Updated cooperation or integrated share society in agriculture. (It) Agr. Venezia 22(1):45-48. Jan.1968. 16 Ag826
- 79099 BARTH, W. D. Business and tax considerations relating to the purchase or sale of a farm management service. Amer. Soc. Farm Managers Rural Appraisers. J. 32(1):61-66. Apr. 1968. 281.8 Am32
- 79100 BERTSCH, H. The family farm; pattern for the future. Washington, Farmers Home Administration, 1967. 16 p. PREP 790
- 79101 BIEMANS, J. M. Developments in livestock raising on the diversified farm in North Brabant. (Du) Neth. Dir. Landbouw. Landbouwvoorlichting 25(1):11-14,17. Jan.1968. 12 N383M  
Management.
- 79102 BINDER, F. The grassland farm—today and tomorrow. (Ge) Mitt. Deut. Landwirt.-Ges. 83 (13):424-426. Mar.28,1968. 18 N39
- 79103 BLECHSTEIN, K. Step-by-step farm planning and its information data, a decisive aid for the farm manager. (Ge) Landarb. Tech. 35:93-133. 1968. 18 L2354



- 79104 BRAGG, D. D., and LUCKHAM, W. R. What can be expected from a good commercial egg enterprise in Virginia? Va. Polytech. Inst. Ext. Circ. 1055, 14 p. Feb. 1968. 275.29 V81C -Farm management and costs.
- 79105 BRATTON, C. A. Managerial skill--measure of tomorrow's farmer. Rural Realtor 20:4-5. Feb. 1968. 282.8 R88
- 79106 BUBNOVSKII, N. D. Specialization--as factor of production increase. (Rus) Zhivotnovodstvo 4:1-4. Apr. 1968. 49 Z6  
Livestock farms.
- 79107 BUI HUY DAP. Improve the quality of experimental farms to serve production. Joint Publ. Res. Serv. Transl. N. Vietnam 296:1-8. Dec. 26, 1967. (JPRS 43,828) DS557.A7J6  
Translation from Khoa Hoc Ky Thuat Nong Nghiep 67:243-247. July 1967.  
Issued by CFSTI.
- 79108 BULLER, O. Technological changes in agriculture. Kans. Stockman 53(8):5,41. June 1968. 49 K134
- 79109 BURLAKOV, N. M., and others. Economics and organization of beef production on the specialized state farms in the Stavropol Territory. (Rus) Zhivotnovodstvo 3:30-33. Mar. 1968. 49 Z6  
L. G. Ryutov, D. A. Smirnov, and V. F. Karev, joint authors.
- 79110 BURLAKOV, N. M., PARAMONOV, G. M., and KAREV, V. F. From the experience of planning and organizing on the special state farm. (Rus) Zhivotnovodstvo 4:11-14. Apr. 1968. 49 Z6  
Cattle.
- 79111 CANADA. EXPERIMENTAL FARM, BEAVER-LODGE. Research report, 1962-1964. Ottawa, 1967. 22 p. S135.E2
- 79112 CANDIOLI, P. Veronese farms by area class and form of management. (It) Verona. Accad. Agr. Sci. Lett. Atti. Mem. (ser. 6) 18:37-42. 1966/67, pub. 1968. 16 V59
- 79113 CARLSSON, M. Economics in horticulture. (Sw) Jord-Groda-Djur 24:191-208. 1968. 11 J763  
Management including costs.
- 79114 CERUTI, C. Group agriculture. (It) Agricoltura 17(2):16-18. Feb. 1968. 16 Ag8226  
-English summary, p. 7.
- 79115 CHERNOKOLEV, T. Izbrani proizvedeniya [Collected papers]. Sofiya, Izd-vo na Bulgarskata Akademiya na Naukite, 1967. 312 p. HD1491.B8C45  
On socialistic farming in Bulgaria.
- 79116 CHOLAJ, H. Recent phenomena in the economic pattern of Soviet collective farms. (Pol) Wies Wspolczesna, Pismo Ruchu Ludowego 13 (1):76-90. Jan. 1968. HN536.W5  
English summary, p. 14 of supplement.
- 79117 CHOMA, D. Economics of cooperative farms. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 620:1-2. Jan. 22, 1968. (JPRS 44,096) 173 J663Ste  
In Czechoslovakia; an input-output analysis. Translation from Rude Pravo, Dec. 15, 1967:2. Issued by CFSTI.
- 79118 CHON, M. B. Labor youth leagues to manage cooperative farms. Joint Publ. Res. Serv. Transl. N. Korea 71:1-8. Jan. 29, 1968. (JPRS 44,175) DS901.T7  
Translation from Nodong Ch'ongnyon, Dec. 10, 1967:2.  
Issued by CFSTI.
- 79119 CHURCH, B. M., and others. A type of farming map based on agricultural census data. Outlook Agr. 5(5):191-196, map. 1968. 10 Ou8  
D. A. Boyd, J. A. Evans, and J. I. Sadler, joint authors.  
Types of farming in England and Wales.
- 79120 COONEY, W. T. The need for young people in agriculture. Oreg. Agr. Progr. 15(1):3, 16. Spring 1968. 100 Or3Or
- 79121 DAIDONE, R. J. Management ability; it's an illusive commodity but it does exist and there are ways to test its presence in a farm community. Farm Credit News, Spring 1968:11. 284.28 F227  
Qualifications of farm managers.
- 79122 DANIENKO, I. A., and ADMIN, E. I. Promising outlook for dairy cattle farms. (Rus) Zhivotnovodstvo 3:21-24. Mar. 1968. 49 Z6
- 79123 DASHPUNTSAG, D. Inter-artel agricultural production. U. S. Joint Publ. Res. Serv. Transl. Mongolia 154:59-61. Jan. 31, 1968. (JPRS 44,211) 173 J663Tmo  
Translation from Unen, Oct. 1, 1967:2. Issued by CFSTI.
- 79124 DASKALOV, K. Problems in specialization concentration, and mechanization of vegetable production. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 619:15-36. Jan. 17, 1968. (JPRS 44,034) 173 J663Ste  
In Bulgaria.  
Translation from Selskostopanska Nauka 3:19-36. July/Sept. 1967.  
Issued by CFSTI.
- 79125 DENECKE, R., and GRONAU, H. Planned management of collective farms. (Ge) Feldwirtschaft 9(1):19-20. Jan. 1968. 18 W763
- 79126 DETTWELER, R. What does a practical farmer expect of extension? (Ge) Landarbeit 19(3):17-18. Mar. 1968. 18 L2355  
In farm management.
- 79127 DEURINGER, F. The mountain pasture, special case in the grassland economy. (Ge) Mitt. Deut. Landwirt.-Ges. 83(19):670,672. May 9, 1968. 18 N39  
Outlook.
- 79128 DMITREVA, G. V. Combining branches of specialized state farms, according to costs spent on production unit. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 128:93-96. 1967. 20 M857
- 79129 DIMKOVIC, B. J. About absentee farmers. (Se) Ekon. Poljoprivrede 15(1/2):43-48. Jan./Feb. 1968. 281.8 Ek72  
Restriction in size of such farm; includes part-time farmers.
- 79130 DOBERT, H. Grassland farm of tomorrow. (Ge) Mitt. Deut. Landwirt.-Ges. 83(13):421-422. Mar. 28, 1968. 18 N39
- 79131 DZAGD, C. A new stage of development of agricultural artels. U. S. Joint Publ. Res. Serv. Transl. Mongolia 161:24-27. May 16, 1968. (JPRS 45,409) 173 J663Tmo  
Translation from Unen, Nov. 26, 1967:2. Issued by CFSTI.
- 79132 EDER, A. Part-time grassland farming. (Ge) Mitt. Deut. Landwirt.-Ges. 83(18):640-641. May 2, 1968. 18 N39
- 79133 ELSTRAND, E. Economic views on the adjustment of herd size in milk production. (No) Norsk Landbruk 7:6-7, 33. Apr. 5, 1968. 11 N8122  
Includes costs and returns.
- 79134 ESIN, A. I. Formation and usage of incentive funds. (Rus) Uchet. Finansy Kolkhoz. Sovkhoz. 3:6-10. 1968. 30.69 Uc4  
On the state farms.
- 79135 EVANS, P. W. The Vale of Clwyd Estate Management Discussion Group. Chartered Land Agents' Soc. J. 67(3):115-116. Mar. 1968. 282.9 L22
- 79136 EWERT, H. G. Results of an optimization of crop combinations at the D 4 North Site. (Ge) Feldwirtschaft 9(1):29-31. Jan. 1968. 18 W763  
Use of linear programming.
- 79137 FARM management reference data. 1. Queensland Agr. J. 94(4):241. Apr. 1968. 23 Q33
- 79138 FOLTYN, J., and PROKOP, J. Relationship of the relative intensity of production of field crop to the utilization of production factors. (Cz) Czech. Min. Zemedel. Los. Hospodar. Ustav. Vedeckotechn. Inform. Zemedel. Ekon. 41(1):11-15. Jan. 1968. 281.9 C332  
English summary.  
Utilization of equipment, fertilizers and labor.

- 79139 GEPRAGS, E. The family farm between patriarchy and partnership. (Ge) Mitt. Deut. Landwirt.-Ges. 83(11):341-342. Mar.14,1968. 18 N39
- 79140 GERNER, K. Development goals of 550 North Baden farms. (Ge) Ausbildung Beratung Land-Hauswirtsch. 21(5):98-99. 1968. 18 N11
- 79141 GERRISH, W. C. Stricter management—more profit. Dairyfarming Dig. 15(2):7-14. Mar./Apr.1968. 44.8 D1443  
Dairy farms.
- 79142 GIBBONS, J., and MOSDELL, K. B. Restocking after foot-and-mouth disease. Great Brit. Min. Agr. Fish. Food. Agr. 75(2):51-55. Feb. 1968. 10 G79J  
Farm management aspects.
- 79143 GLASEROVA, J. Management of state farms in the current year. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 620:3-6. Jan.22,1968. (JPRS 44,096) 173 J663Ste  
In Czechoslovakia.  
Translation from Rude Pravo, Dec.15,1967:3. Issued by CFSTI.
- 79144 GOODING, E. G. B. Crop diversification in Barbados. World Crops 20(1):34-39. Mar. 1968. 281.8 W892
- 79145 GOSPODINOV, R., YANACHKOV, V., and SEMENOV, Y. Intensification of production of cooperative labor farms. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 619:37-47. Jan.17,1968. (JPRS 44,034) 173 J663Ste  
In Bulgaria.  
Translation from Selskostopanska Nauka 3:57-66. July/Sept.1967.  
Issued by CFSTI.
- 79146 GREINER, G. Die vertragsbeziehungen der LPG: ein Leitfaden für LPG-Vorsitzende [Contract conditions on the LPG; guide for LPG managers]. Ed. 2, rev., and enl. Berlin, Staatsverlag der Deutschen Demokratischen Republik, 1967. 390 p. HD1492.G3G7 1967
- 79147 GROSHEV, V. D. Evaluation of economic occurrences. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 128:173-177. 1967. 20 M857  
Applied in farm management.
- 79148 GUPTE, M. S. The question should be viewed from many angles. Gosamvardhana 16(1):18-19. Apr.1968. 43.8 G69  
Farming methods in India.
- 79149 GURINOV, I. V. Specialized farming in the Salsk steppe. (Rus) Zhivotnovodstvo 3:39-42. Mar.1968. 49 Z6  
Livestock farms chiefly.
- 79150 HABERLAND, R., and HABERLAND, B. Organization of efficient field vegetable production. (Ge) Mitt. Deut. Landwirt.-Ges. 83(17):594,596-598. Apr.25,1968. 18 N39
- 79151 HAEVEY, J. F., and KEARNEY, B. Are pig units too small? Farm Res. News 9(1):7-9. Jan./Feb.1968. 10.5 F223  
Farm management in Ireland.
- 79152 HAMMERMÜLLER, R., LEBELT, B., and ERD, W. Cooperation association outlines development plans. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 647:1-22, map. May 13,1968. (JPRS 45,347) 173 J663Ste  
Collective farming in East Germany.  
Translation from Kooperation 2:2-8,47. Feb. 1968.  
Issued by CFSTI.
- 79153 HARTEL, E. Poor family farm! (Ge) Mitt. Deut. Landwirt.-Ges. 83(18):621-622. May 2, 1968. 18 N39
- 79154 HEGEMANN, H. "Agricultural management" in the home economics sector. (Ge) Ausbildung Beratung Land- Hauswirtsch. 21(3):50-51. Mar.1968. 18 N11
- 79155 HERLEMANN, H. H. The future of the family farm in Germany. (Ge) Mitt. Deut. Landwirt.-Ges. 83(11):348-351. Mar.14,1968. 18 N39
- 79156 HESSELBACH, J., and EISGRUBER, L. M. Betriebliche Entscheidungen mittels Simulation; Beschreibung eines landwirtschaftlichen Simulationsmodells und Anwendungsbeispiele [Management decisions by simulation; description of an agricultural simulation model and example of use]. Hamburg, Parey, 1967. 411 p. Ref., p.409-411. S566.H4
- 79157 HESSELBACH, J. The experiment with the total farm in agricultural economic and social research. (Ge) Landarb. Tech. 35:135-161. Ref. 1968. 18 L2354
- 79158 HEUSINGER, W. VON. Farm planning for the future. (Ge) Mitt. Deut. Landwirt.-Ges. 83 (22):839-841. May 30,1968. 18 N39
- 79159 HO, C. N. Responsibilities of cooperative farmers. Joint Publ. Res. Serv. Transl. N. Korea 75:45-50. Mar.1,1968. (JPRS 44,558) DS901.T7  
Translation from Nodong Sinmun, Jan.12, 1968:2.  
Issued by CFSTI.
- 79160 HUNEK, T. Model premises of the organization of rural cooperatives in the light of the discussion in "Wies Wspolczesna." (Pol) Wies Wspolczesna, Pismo Ruchu Ludowego 12(2):28-38. Feb.1968. HN536.W5  
English summary, p.6-8 of supplement.
- 79161 JASRAI, P. Draft model by-laws for agricultural artels and collective property. U. S. Joint Publ. Res. Serv. Transl. Mongolia 153:15-17. Jan.8,1967. (JPRS 43,901) 173 J663Tmo  
For farm management.  
Translation from Unen, June 5,1967:2.  
Issued by CFSTI.
- 79162 JO, Y. H. Agricultural collectivization as the developmental model for Communist China. Tempe, 1967. 46 p. (Arizona State University. Center for Asian Studies. Occasional paper No. 1) HD1491.C6J6
- 79163 JUSTUS, F., and HEADLEY, J. C. The management factor in farming: An evaluation and summary of research. Minn. Agr. Exp. Sta. Tech. Bull. 258:4-7. Mar.1968. 100 M66
- 79164 KACZMARCZYK, E. In the footsteps of good work. (Pol) Wies Wspolczesna, Pismo Ruchu Ludowego 12(2):122-125. Feb.1968. HN536.W5  
English summary, p.16 of supplement.  
Farming activities of youth.
- 79165 KAHN, A. S., and DHAWAN, K. C. Farm planning as a dynamic process—a case study. Farm Manage. Notes Asia Far East 4(1):15-18. Jan.1968. 281.8 F2228  
India.
- 79166 KAP-HERR, W. FREIHERR VON. The successful family farm—a wishful dream? (Ge) Mitt. Deut. Landwirt.-Ges. 83(11):360-362. Mar.14,1968. 18 N39
- 79167 KARADZHANOV, K. Effectiveness of cotton production under different crop structures. (Rus) Khlopkovodstvo 4:5-7. Apr.1968. 72.8 K522  
Includes costs and acreage.
- 79168 KARCZEWSKI, Z. State farm problems in 1966—1970. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 607:17-29. Nov.24,1967? (JPRS 43,427) 173 J663Ste  
In Poland.  
Translation from Gospodarka Planowa 8/9:17-22. Aug./Sept.1967.  
Issued by CFSTI.



- 79169 KARPUS', N. M. Specialization on the swine farms in the Ukrainian SSR. (Rus) Zhivotnovodstvo 4:5-10. Apr.1968. 49 Z6
- 79170 KATIC, D. Socialized farms in 1966. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 620:39. Jan.22,1968. (JPRS 44,096) 173 J663Ste  
In Yugoslavia.  
Translation from Ekonomika Poljoprivrede 12:1046-1048. Dec.1967.  
Issued by CFSTI.
- 79171 KINCL, V. The development of collective sector of agriculture of Maribor area. (Se) Ekon. Poljoprivrede 15(1/2):31-41. Jan./Feb.1968. 281.8 Ek72
- 79172 KLODZINSKI, M. Forms of cooperative farming in France. (Pol) Wies Wspolczesna, Pismo Ruchu Ludowego 13(1):133-135. Jan.1968. HN536.W5
- 79173 KMEZIC, N. Self-management in agricultural cooperatives. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 628:37-46. Feb.21,1968. (JPRS 44,467) 173 J663Ste  
In Yugoslavia.  
Translation from Glasnik Poljoprivrede i Zadrugarstva 17(1):3-10. Jan.1968.  
Issued by CFSTI.
- 79174 KOLYCHEV, L. I. Organization of financial work on the collective farm. (Rus) Uchet. Finansy Kolkhoz. Sovkhoz. 3:31-35. 1968. 30.69 Uc4
- 79175 KOMISSAROV, YU. V. Some factors of increasing grain quality and their effects on economy of collective farm production. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 128:263-267. 1967. 20 M857
- 79176 KONEKAMP, A. H. The economics of grassland utilization. (Ge) Mitt. Deut. Landwirt.-Ges. 83(16):549-550,572-573. Apr.18,1968. 18 N39  
Management and costs.
- 79177 KOSTADINOV, Y. Intercooperative specialization in animal husbandry. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 629:1-5. Feb.29,1968. (JPRS 44,530) 173 J663Ste  
In Bulgaria.  
Translation from Ikonomicheski Zhivot 1:8-9. Jan.1968.  
Issued by CFSTI.
- 79178 KRASOTA, V. Training courses to improve agricultural management. U. S. Joint Publ. Res. Serv. Transl. USSR Agr. 229,5 p. Dec.29, 1967. (JPRS 43,850) 173 J663Tso  
Translation from Ekonomicheskaya Gazeta 46:35. Nov.1967.  
Issued by CFSTI.
- 79179 KRAUSE, K. R., and SCHULTZ, S. R. Review of managerial ability studies of farmers. Minn. Agr. Exp. Sta. Tech. Bull. 258:8-12. Ref. Mar. 1968. 100 M66
- 79180 KROPENSTEDT, J. Departure of the family farm? (Ge) Mitt. Deut. Landwirt.-Ges. 83(11):354,356. Mar.14,1968. 18 N39
- 79181 LACHENMAIER, F. Father-and-son, inc. (Ge) Ubersicht 19(5):357-360. May 11,1968. 18 Ub3  
Partnership in the United States.
- 79182 LACZKO, I. Some problems in production policy of farming on hilly areas. (Hu) Magyar Mezogazdasag 23(17):8-9. Apr.24,1968. 19 M27
- 79183 LAMOTTE, R. de. Extension teaching of management techniques. (Fr) Inform. Agr. [Paris] 380:51-52. Apr.1968. HD1945.A115
- 79184 LANGER, F. The family vineyard. (Ge) Winzer (ser.1)24:2-5. Jan.1968. 95.8 W73
- 79185 LARSEN, J. B. Big dairy cattle herds. (Da) Landbonyt 22(4):181-186,188. Apr.1968. 11 L2322  
Includes statistics of milk production, labor productivity and milk prices in the United States.
- 79186 LE-QUANG-TIEN. On the calculation of the index "two hogs over a cultivated hectare of land." Joint Publ. Res. Serv. Transl. N. Vietnam 299:28-30. Jan.5,1968. (JPRS 43,885) DS557.A7J6  
Translation from Thong Ke 1:15-18. 1967.  
Issued by CFSTI.
- 79187 LÈS SERVICES et établissements d'utilité agricole des Chambres d'Agriculture; leur structure juridique et leur organisation financière [The services and establishments of agricultural usefulness in the Chambers of Agriculture; their legal structure and financial organization]. Chambres Agr. 39(382,sup.),24 p. Feb.15,1968. 14 T69
- 79188 LOHR, L. Problems of alpine agriculture. (Ge) Milchwirtsch. 13:13-28. Feb.1968. 44.8 M5998  
Management aspects.
- 79189 LONG, R. B. Supply responses of dryland wheat and barley farms in southeastern Idaho to alternative market prices, 1970. Idaho. Agr. Exp. Sta. Bull. 490,30 p.,map. Mar.1968. 100 Id14  
U. S. Department of Agriculture, cooperating.
- 79190 MACARTHUR, J. D. The economic study of African small farms; some Kenya experiences. J. Agr. Econ. [Reading] 19(2):193-205. Ref. May 1968. 281.9 Ag8
- 79191 MAGERRAMOV, D. A. Increasing intensive production. (Rus) Sadovodstvo 12:14. Dec. 1967. 80 Sa13  
On grape farms.
- 79192 MAGOMEDOV, Z. M., and KRYLATOV, A. K. Grape growing state farms in Dagestan. (Rus) Vinodel. Vinograd. SSSR 1:53-55. 1968. 95.8 V77
- 79193 MAI-THAO. Stay close to the fields and united with the people. Joint Publ. Res. Serv. Transl. N. Vietnam 302:51-53. Jan.24,1968. (JPRS 44,138) DS557.A7J6  
Collective farming.  
Translation from Nhan Dan, Nov.30,1967:2.  
Issued by CFSTI.
- 79194 MAKAROV, N. F. Decrease of cost--as factor of increasing profitability of swine husbandry. (Rus) Zhivotnovodstvo 3:25-30. Mar.1968. 1968. 49 Z6
- 79195 MARISENKO, I. I. Profitability in fruit and grape growing. (Rus) Sadovodstvo 2:2-3. Feb. 1968. 80 Sa13  
Management.
- 79196 MASOERO, P. Technical preparation of the entrepreneur in modern livestock raising activities. (It) Agr. Venezie 22(1):31-37. Jan. 1968. 16 Ag826
- 79197 MEIMBERG, P. Basic types of family farm. (Ge) Mitt. Deut. Landwirt.-Ges. 83(11):342, 344,346-347. Mar.14,1968. 18 N39
- 79198 MEUSER, H. Specialization in cattle raising. (Ge) Mitt. Deut. Landwirt.-Ges. 83(8):203-205. Feb.22,1968. 18 N39
- 79199 MIDDELDORF, H. U.S. agriculture today. 2. The dairy farmer. I. (Ge) Mitt. Deut. Landwirt.-Ges. 83(10):312,314-315. Mar.7,1968. 18 N39
- 79200 MIDDELDORF, H. U. S. agriculture today. 3. The dairy farmer. II. (Ge) Mitt. Deut. Landwirt.-Ges. 83(11):362,364-366. Mar.14,1968. 18 N39
- 79201 MIDDELDORF, H. U.S. agriculture today. 4. The hog-dairy farms of the Corn Belt. (Ge) Mitt. Deut. Landwirt.-Ges. 83(16):568-572,map. Apr.18,1968. 18 N39
- 79202 MIDDELDORF, H. U.S. agriculture today. 5. The swine-cattle fattening farms of the Corn Belt. (Ge) Mitt. Deut. Landwirt.-Ges. 83(17):603-607. Apr.25,1968. 18 N39
- 79203 MIDDELDORF, H. U.S. agriculture today. 6. The market fruit farmer of the Corn Belt. (Ge) Mitt. Deut. Landwirt.-Ges. 83(18):641-646,map. May 2,1968. 18 N39  
Management.

- 79204 MIDDELDORF, H. U. S. agriculture today. 7. The cattle ranches. (Ge) Mitt. Deut. Landwirt.-Ges. 83(19):713-716. May 9, 1968. 18 N39
- 79205 MIKKELSEN, P., and SONDERGAARD, P. A. -- Linear programming as a planning tool. (Da) Tolvmandsbladet 40(5):243-249. May 1968. 11 T58  
Farm management.
- 79206 MINGAY, G. E. The eighteenth-century land steward. In Jones, E. L., and Mingay, G. F. Land, labour and population in the industrial revolution, p.3-27. Ref. 1968. HC254.5J6
- 79207 MINNESOTA. AGRICULTURAL EXPERIMENT STATION. The management factor in farming: An evaluation and summary of research. Minn. Agr. Exp. Sta. Tech. Bull. 258, 31 p. Ref. Mar. 1968. 100 M66  
Agricultural Experiment Stations of Alaska, Illinois, Indiana, Iowa, Kansas, Michigan, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin; and U. S. Department of Agriculture, cooperating.  
Also North Central Regional Research Publication No. 184.
- 79208 MIRIC, S., PEJIN, D., and LJESOV, D. The elasticity of results of wheat production in relation to various factors. (Se) Ekon. Poljoprivrede 15(1/2):49-64. Jan./Feb. 1968. 281.8 Ek72  
English summary.  
Includes input-output analysis.
- 79209 MONCRIEFF, I. J. The economics of new land development. West. Australia. Dep. Agr. J. (ser.4)9(1):7-9. Jan. 1968. 23 W52J  
In Australia.
- 79210 MONOV, V. The new system of management in cooperative labor farms. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 618:1-7. Jan. 4, 1968. (JPRS 43,870) 173 J663Ste  
Bulgaria.  
Translation from Kooperativno Zemedelie 11: 13-17. Nov. 1967.  
Issued by CFSTI.
- 79211 MOSKALENKO, V. KH., and BUZASH', D. Effectiveness of intensive farming on the grape collective farms in the Krasnodar Territory. (Rus) Vinodel. Vinograd. SSR 1:30-33. 1968. 95.8 V77
- 79212 MOWS, H. The family farm in agricultural policy. (Ge) Mitt. Deut. Landwirt.-Ges. 83(11):337-338. Mar. 14, 1968. 18 N39
- 79213 MULLINS, T., and others. Resource use adjustments in Southern rice areas. II. Effects of price changes with selected rice allotment levels. S. Coop. Ser. Bull. 131, 38 p., map. May 1968. 100 G29So  
B. Hottel, J. R. Campbell, A. R. Gerlow, W. R. Grant, and D. E. Welsh, joint authors.  
Agricultural Experiment Stations of Arkansas, Louisiana, Mississippi, and Texas; and U. S. Department of Agriculture, cooperating.
- 79214 NAMIKI, M. Conditions for organizing viable farms. (Ja) Quart. J. Agr. Econ. 22(1):63-90. Jan. 1968. 22.5 N687
- 79215 NENDL, B. One way of cooperation in livestock of Slovenia. (Se) Poljoprivredni Pregl. 16(1/2):69-74. Jan./Feb. 1968. 21.5 P753
- 79216 NETHERLANDS. DIRECTIE AKKER- EN WEIDEBOUW. Het eenmans-melkveebedrijf met loonwerk op de C.R. Waiboer-Hoeve; resultaten van het onderzoek in bedrijfsverband in 1966/1967 [The one-man dairy farm with contract labor on the C.R. Waiboer farm; results of the investigation in management in 1966/1967]. Neth. Dir. Akker- Weidebouw. Nieuwe Bedrijfssyst. Landbouw Medel. 22, 61 p. May 1968. 281.9 N385
- 79217 NGUYEN VAN LOC. Firmly grasp science and technology to satisfactorily guide agricultural production. U. S. Joint Publ. Res. Serv. Transl. Hoc Tap (Stud). N. Vietnam 12:6-15. Feb. 15, 1968. (JPRS 44,391) 173 J663Th  
Translation from Hoc Tap 12:32-40. Dec. 1967.  
Issued by CFSTI.
- 79218 NIKANDRIN, B. D. Using capital return indicators in economic analysis. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 129:85-90. 1967. 20 M857  
On the farm.
- 79219 NISSEN, P. Advantages and disadvantages of the family farm. (Ge) Mitt. Deut. Landwirt.-Ges. 83(11):359-360. Mar. 14, 1968. 18 N39
- 79220 OBRITZHAUSER, W., and STEINWENDER, S. -- The production of milk-fed calves. (Ge) Forderungsdienst 16(2):39-48. Feb. 1968. 19 F75  
Farm management, feeding, and feeding costs in Austria.
- 79221 OI, W. Y., and CLAYTON, E. M. A peasant's view of a Soviet collective farm. Amer. Econ. Rev. 58(1):37-59. Ref. Mar. 1968. 280.8 Am32
- 79222 OLIVELLI, V. Combined rice and livestock raising in lower Novara. (It) Novara. Cam. Com. Indus. Agr. Not. Econ. 24(3):28-30. Mar. 1968. 287 N85N
- 79223 PASTUKHOV, A. K. Improving specialization and increasing profitability of dairy-beef state farms in the Tula Region. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 129:93-98. 1967. 20 M857
- 79224 PAZUR, K. Some economic and political problems of peasant farming in Yugoslavia. (Pol) Wies Wspolczesna, Pismo Ruchu Ludowego 13(1):64-75. Jan. 1968. HN536.W5
- 79225 PETROVIC, M. Results of cooperation in agriculture. (Se) Ekon. Poljoprivrede 15(1/2):21-30. Jan./Feb. 1968. 281.8 Ek72  
Includes productive capacity.
- 79226 PETROVIC, M. Results of production cooperation in field cropping. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 629:27-39. Feb. 29, 1968. (JPRS 44,530) 173 J663Ste  
Truck farming Yugoslavia.  
Translation from Ekonomika Poljoprivrede 1/2:21-30. Jan./Feb. 1968.  
Issued by CFSTI.
- 79227 PLANCK, U. Family farm between patriarchy and partnership. (Ge) Mitt. Deut. Landwirt.-Ges. 83(11):339-341. Mar. 14, 1968. 18 N39
- 79228 PRZYCHODZEN, J. Changes in the value of means of production on peasant farms. (Pol) Wies Wspolczesna, Pismo Ruchu Ludowego 12(2):105-112. Feb. 1968. HN536.W5  
English summary, p.14-15 of supplement.  
Equipment and labor included.
- 79229 PUIG, A. Agriculture and agricultural income. (Sp) Cultiv. Mod. 51(4):50-51, map. Apr. 1968. 15 C89  
Chiefly subsistence agriculture.
- 79230 PUSTRAKOV, N. The new system of management in state farms. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 621:8-13. Jan. 4, 1968. (JPRS 43,870) 173 J663Ste  
Bulgaria.  
Translation from Kooperativno Zemedelie 11: 17-20. Nov. 1967.  
Issued by CFSTI.
- 79231 QUEIROS, J. B. Advice on the selection of location for farming in Angola. (Por) Gaz. Agr. Angola 13(2):123, 125, 127, 129. Feb. 1968. 24 G252
- 79232 RADIN, V. P., and DEREVYANKO, O. F. Experience with raising dual purpose sheep in the Kalinin Region. (Rus) Zhivotnovodstvo 4:17-20. Apr. 1968. 49 Z6  
Economic aspect.
- 79233 RIEBE, K. Determination of changing costs with different planning intervals. (Ge) Betriebswirtschaftl. Mitt. Wirtschaftsberater 159:3-8. Feb. 15, 1968. 281.8 B462
- 79234 RINTELEN, P. Farm organization in the context of priority formation. (Ge) Forderungsdienst 16(4):109-116. Apr. 1968. 19 F75  
Austria.



- 79235 ROEPER, J. How do the New Zealand dairy farmers farm? A glimpse of the farm and administration of Mr. John Average. (Du) Ned. Zuivelbond. Offic. Orgaan. 60(1):12-14. Jan.3, 1968. 44.9 AL3
- 79236 RGSU, G. Organizations for cooperation among collective farms. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 645:28-33. May 10, 1968. (JPRS 45,311) 173 J663Ste  
In Romania.  
Translation from Agricultura Socialista, Feb.8, 1968:1-4.  
Issued by CFSTI.
- 79237 RUTHENBERG, H. Characteristics of peasant agriculture in Tanzania. (Ge) Z. Ausländische Landwirt. 7(1):81-86. Mar.14, 1968. 281.8 Z32  
English summary.  
Small farm management.
- 79238 SAKURAI, M. Study on the practice of egg production and pork production in Japanese farms. (Ja) Quart. J. Agr. Econ. 22(1):121-159. Jan. 1968. 22.5 N687
- 79239 SAMSON, W. VON. How do I view the future of the family farm? (Ge) Mitt. Deut. Landwirt.-Ges. 83(11):357-358. Mar.14, 1968. 18 N39
- 79240 SCHEJBAL, V. Associations for the production and marketing of fruit in the district of Kutna hora. (Cz) Zahradnicke Listy 61(5):132-133. May 1968. 80 Z12  
Cooperative organizations.
- 79241 SCHRODER, F. Arable farming and plant production in Bavaria. (Ge) Mitt. Deut. Landwirt.-Ges. 83(19):664-665. May 9, 1968. 18 N39
- 79242 SCHRODER-ETZDORF, M. How will the future of the farm be mastered? (Ge) Mitt. Deut. Landwirt.-Ges. 83(21):813-814, 817. May 23, 1968. 18 N39  
Management aspects, including size and cooperation.
- 79243 SEKULARAC, B. The adjustment of the basic law on agricultural cooperatives to the requirements of the economic reform. U. S. Joint Publ. Res. Serv. Transl. Econ. Organ. Manage. East. Europe. 824:38-46. May 3, 1968. (JPRS 45,259) 173 J663Tre  
Yugoslavia.  
Translation from Glasnik Poljoprivrede i Zadrugarstva 2:20-24. Feb. 1968.  
Issued by CFSTI.
- 79244 SENFTLEBEN, J. How is lessened income in German agriculture to be equalized? (Ge) Mitt. Deut. Landwirt.-Ges. 83(8):226, 228. Feb. 22, 1968. 18 N39  
Improved returns through home production of feeds.
- 79245 SEVARLIC, M. Possibilities of the intensification of agriculture in mountain areas with the introduction of black currants and raspberries. (Se) Ekon. Poljoprivrede 15(1/2):87-95. Jan./Feb. 1968. 281.8 Ek72  
Includes costs, labor and cooperation.
- 79246 SHAUDYS, E. T., and NODLAND, T. Biography and performance. Minn. Agr. Exp. Sta. Tech. Bull. 258:13-16. Ref. Mar. 1968. 100 M66  
Farm management; includes use of questionnaires.
- 79247 SHEINKIN, G. YU. A working schedule-diagram in cotton growing. (Rus) Khlopkovodstvo 4:1-5. Apr. 1968. 72.8 K522
- 79248 SHIRSHOV, I. V. Specialization in fruit and grape growing. (Rus) Sadovodstvo 12:10. Dec. 1967. 80 Sa13
- 79249 SHITOV, M. T. Economic fundamentals of feed production on the dairy-beef type state farms in the north-western zone of the Tula Region. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 128:137-142. 1967. 20 M857
- 79250 SIEMERS, G. Farm gravity center: baby pig production. (Ge) Mitt. Deut. Landwirt.-Ges. 83(12):385-386, 388. Mar. 21, 1968. 18 N39
- 79251 SIMON, C. Profits through group effort: the hog producers of Thierache. (Fr) Inform. Agr. [Paris] 380:41. Apr. 1968. HD1945.A115
- 79252 SINGH, R. Agricultural revolution in rural India. Rural India 31(2):27-28. Feb. 1968. 281.28 R889  
Program for the improvement of farming methods.
- 79253 SKRAYAGIN, V. P. Specialization--as factor of intensification of livestock husbandry. (Rus) Zhivotnovodstvo 3:43-44. Mar. 1968. 49 Z6  
Sheep and cattle farms.
- 79254 SPENCER, G. W. Farm planning. West. Australia. Dep. Agr. J. (ser.4)9(1):15. Jan. 1968. 23 W52J
- 79255 STANESCU, I., and BURLACU, D. Improvement in the distribution of production in collective farms. (Rum) Probl. Econ. [Bucharest] 21(1):104-117. Jan. 1968. 280.8 P947  
Includes assets and consumption.
- 79256 STEINMETZ, H. The cow hotel in Essen. (Du) Landbouwmecanisatie 19(2):133-136. Feb. 1968. 58.8 L2352
- 79257 SYKES, F. The crisis in hill farming. I. Country Life [London] 143(3703):435-436. Feb. 22, 1968. 80 C83  
Great Britain.
- 79258 TEN'SHOV, A. N. Economic concentration within sheep husbandry and the organizational forms of labor. (Rus) Zhivotnovodstvo 3:33-37. Mar. 1968. 49 Z6
- 79259 TOMASZEWSKI, Z. The process of vertical productive cooperation as a road to structural transformations in Polish agriculture. I. (Pol) Wies Wspolczesna, Pismo Ruchu Ludowego 12(2):14-27. Feb. 1968. HN536.W5  
English summary, p.3-6 of supplement.
- 79260 TRAN-VAN-HA. Experiences in supervising the development of animal husbandry (reference materials of the "Agriculture" lesson). Joint Publ. Res. Serv. Transl. N. Vietnam 263:84-108. Oct. 16, 1967. (JPRS 42,972; TT 67-33598) DS557.A7J6  
Farm management.  
Translation from Tuyen Huan 8:38-47. Aug. 1967.  
Issued by CFSTI.
- 79261 TROJE, H. Structural improvement as single starting point. (Ge) Mitt. Deut. Landwirt.-Ges. 83(1):8-10. Jan. 4, 1968. 18 N39  
Includes management, living standard, and capital formation.
- 79262 UPSON, R. P. Financial guidelines for the greenhouse operator. Florists' Rev. 142(3675):61, 112-115. May 2, 1968. 80 W41
- 79263 VALLAT, J. Rural development at Bruson, -- mountain village in the Canton of Valais. (Fr) Agrarpolit. Rev. 24(214):16-24. Jan. 1968. 281.8 Ag824  
Pilot zones for demonstrations.
- 79264 VERENIGING TOT EXPLOITATIE VAN PROEFBOERDERIJEN IN DE VEENKOLONIEN. Proefboerderijen te Borgercompagnie en Emmercompascuum, en proefveld te De Krim; verslag over het jaar 1966 [Experimental farms at Borgercompagnie and Emmercompascuum, and experimental field at De Krim; report for the year 1966?]. Veendam, 1967. 189 p. 105.2 G894
- 79265 VERMONT UNIVERSITY, AGRICULTURAL EXTENSION SERV. Vermont farm & home publications. Rev. Burlington, 1967. 25 p. 275.29 v59Vf
- 79266 VOLLMERS, H. Influence of liquidity on farm success. (Ge) Mitt. Deut. Landwirt.-Ges. 83(18):634, 636. May 2, 1968. 18 N39
- 79267 VU-THO. Problems in building a material and technological base for agricultural cooperatives. Joint Publ. Res. Serv. Transl. N. Vietnam 369:31-34. May 17, 1968. (JPRS 45,419) DS557.A7J6  
Translation from Nhan Dan, Mar. 15, 1968:2.  
Issued by CFSTI.

- 79268 WEBB, D. N. R. Q. How do farmers obtain finance to develop as they think necessary or to keep abreast of improved technology? A. "Democratise" farming; open the way for the city dweller, or for anyone else so inclined, to participate by share investment in the country's major industry. Service [New Plymouth], Autumn 1968:24-27. 385 Se6  
Joint-stock farming in New Zealand.
- 79269 WEBER, P. Farm management teaching in the public schools. (Ge) Ausbildung Beratung Land- Hauswirtsch. 21(3):49-50. Mar.1968. 18 N11
- 79270 WICK, E. What does extension expect from modern economic teaching in the agricultural schools? (Ge) Ausbildung Beratung Land- Hauswirtsch. 21(3):43-48. Mar.1968. 18 N11  
On farm management.
- 79271 WILSON, D. B., and SHEPHERD, R. R. Management at "Dungrove". Tasmanian J. Agr. 39 (1):1-7. Feb.1968. 23 T182T  
Livestock farm.
- 79272 WIMMER, G. Thoughts on further development of farm management teaching at the agricultural schools. (Ge) Ausbildung Beratung Land- Hauswirtsch. 21(3):48-49. Mar.1968. 18 N11
- 79273 WIRSIG, H. Cooperative associations in agriculture and the food industry. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 621:29-44. Jan.29,1968. (JPRS 44,169) 173 J668Ste  
In East Germany.  
Translation from Wirtschaftswissenschaft 15 (11):1761-1764. Nov.1967.  
Issued by CFSTI.
- 79274 WIRTH, M. E. Managerial decision processes. Minn. Agr. Exp. Sta. Tech. Bull. 258:27-30. Ref. Mar.1968. 100 M66
- 79275 WRAGG, S. R., GODSELL, T. E., and WILLIAMS, G. Interdisciplinary research in input/output relationships and production functions to improve decisions and efficiency for beef production; an outline of concepts and methods for joint technical/economic studies. OECD (Organ. Econ. Co-op. Develop.) Doc. Agr. Food 82,112 p. 1968. 28 Or32  
Bibliography, p.102-106.
- Bookkeeping and Records
- 79276 BOZHEDOMOV, G. YA., and SKLYAROV, V. T. Our experience. (Rus) Uchet. Finansy Kolkhoz. Sovkhoz. 3:46-47. 1968. 30.69 Uc4  
With revision in accounting.
- 79277 BOZHO, M. V. Experience of the state farms with commercial calculation system. (Rus) Uchet. Finansy Kolkhoz. Sovkhoz. 3:1-5. 1968. 30.69 Uc4
- 79278 BURCHARDI, H. Set up and read balance sheets. (Ge) Mitt. Deut. Landwirt.-Ges. 83 (9):254,256,258. Feb.29,1968. 18 N39
- 79279 BUTYNETS, F. F. Production and revision. (Rus) Uchet. Finansy Kolkhoz. Sovkhoz. 3:44-45. 1968. 30.69 Uc4  
In accounting.
- 79280 CLARK, J. E. Modern data-processing systems used by West Cumberland Farmers' Trading Society Limited. In Warley, T. K., ed. Agricultural producers and their markets, p.473-479. 1967. HD9000.1.W3
- 79281 CLIFT, P. F. Accounting group records improve farm management. Queenlands Agr. J. 94(3):145-149. Mar.1968. 23 Q33  
On the Farm Management Accounting Scheme of the Queensland Department of Primary Industries.
- 79282 DERGUN, A. S., and VS'KIN, F. I. The new forms for the annual statements of the state farms. (Rus) Uchet. Finansy Kolkhoz. Sovkhoz. 12:15-18. 1967. 30.69 Uc4
- 79283 DUBOGRAI, F. V. Clear and simple. (Rus) Uchet. Finansy Kolkhoz. Sovkhoz. 12:6-7. 1967. 30.69 Uc4  
Accounting on the livestock farms.
- 79284 FIEDLER, J. Bookkeeping and extension in production technique—two prerequisites for farm planning. (Ge) Ausbildung Beratung Land- Hauswirtsch. 21(3):59. Mar.1968. 18 N11
- 79285 GRAJEDA G., J. E. Cost accounting applied in the production of coffee. (Sp) Rev. Cafetalera 77:25-29. (Cont.) Jan./Feb.1968. 68.28 R322
- 79286 GRAJEDA G., J. E. Cost accounting applied to coffee production. V. (Sp) Rev. Cafetalera 75:19-25. Nov.1967. 68.28 R322
- 79287 IVANOV, A. P. Analyzing profitability of agricultural enterprises. (Rus) Uchet. Finansy Kolkhoz. Sovkhoz. 5:45-46. May 1967. 30.69 Uc4  
Chiefly cattle farm.
- 79288 KAMMINGA, J. The place of bookkeeping in farm management. (Du) Neth. Dir. Landbouw. Landbouwoorlichting 25(1):15-17. Jan.1968. 12 N383M
- 79289 KIPOV, V. M. A guarantee for success. (Rus) Uchet. Finansy Kolkhoz. Sovkhoz. 3:47-48. 1968. 30.69 Uc4  
Revision of accounting on the collective farms.
- 79290 KOPETZ, H. Estimation of marginal costs in agriculture. (Ge) Forderungsdienst 16(4):123-132. Apr.1968. 19 F75  
Austria.
- 79291 KOZINOV, V. S., and SUSLOV, L. I. Production section and the bookkeeping. (Rus) Uchet. Finansy Kolkhoz. Sovkhoz. 5:9-12. May 1967. 30.69 Uc4  
Collective farms.
- 79292 LLOYD, D. H. Business control in poultry keeping. Great Brit. Min. Agr. Fish. Food. Bull. 191,222 p. Ref. 1967. 10 G794B  
Accounting, records, and costs.
- 79293 MALYSHEV, I. V. Theoretical problems of double records. (Rus) Uchet. Finansy Kolkhoz. Sovkhoz. 2:14-16. 1968. 30.69 Uc4  
In accounting.
- 79294 MIKUTIS, V. S. Some problems of improving accounting of production output on the swine farms. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 128:281-287. 1967. 20 M857
- 79295 MUKHLISULIN, SH. Calculation of production costs. (Rus) Uchet. Finansy Kolkhoz. Sovkhoz. 2:33. 1968. 30.69 Uc4  
State farms.
- 79296 OGICHUK, N. F. Scientific methods in the accounting. (Rus) Uchet. Finansy Kolkhoz. Sovkhoz. 11:16-19. 1967. 30.69 Uc4
- 79297 PASHOV, M. V. Commercial accounting on the collective farms in the Dnepropetrovsk Region. (Rus) Uchet. Finansy Kolkhoz. Sovkhoz. 5:2-7. May 1967. 30.69 Uc4
- 79298 PISVEJC, J. The accounting of individual farms as an instrument of material interest of collective farmers. (Cz) Ekon. Zemedelstvi 7(2):53-56. 1968. 281.8 Ek7
- 79299 RECKLEBEN, E. J. The road from being to goal must be controlled! (Ge) Mitt. Deut. Landwirt.-Ges. 83(1):13-15. Jan.4,1968. 18 N39  
Accounting.
- 79300 REDYA, P. F., and KONDRATYUK, A. L. For the sake of collective farm economy. (Rus) Uchet. Finansy Kolkhoz. Sovkhoz. 2:5-7. 1968. 30.69 Uc4  
Accounting on the swine farms.
- 79301 REID, I. G. Accounting for capital in the farm business. J. Agr. Econ. [Reading] 19(2):177-191. May 1968. 281.9 Ag8  
Great Britain.
- 79302 RUBAKHA, S. I., and MARCHENKO, A. K. Data processing equipment in the bookkeeping on the poultry farm. (Rus) Uchet. Finansy Kolkhoz. Sovkhoz. 5:20-22. May 1967. 30.69 Uc4
- 79303 SAMTLEBEN, W. Least demand: control of assets development! (Ge) Mitt. Deut. Landwirt.-Ges. 83(9):262,264. Feb.29,1968. 18 N39  
Accounting.



- 79304 SAVOV, B. Internal profit and loss accounting in the cooperative labor farms. U. S. Joint Publ. Res. Serv. Transl. Econ. Organ. Manage. East. Europe 807:1-11. Mar.13,1968. (JPRS 44,662) 173 J663Tre  
Bulgaria.  
Translation from Partien Zhivot 2:49-56.  
Issued by CFSTI.
- 79305 SHABALIN, A. S. Complex grouping of the documents. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 5:17-19. May 1967. 30.69 Uc4  
Collective farm accounting records.
- 79306 SHCHERBINA, I. V. Socialistic competition in the accounting. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 12:4-5. 1967. 30.69 Uc4
- 79307 SIBANI, M. Mechanized accounting for the management of farms. (It) Genio Rurale 31(4): 273-279. Apr.1968. 281.8 R522
- 79308 SMIRNOV, V. M. Commercial accounting system and production control. (Rus) Uchet. Finansy Kolkhoz. Sovkhoz. 3:27-30. 1968. 30.69 Uc4  
Collective farms.
- 79309 STRAUSS, O. Electronics as aid to inter-farm cooperation. (Ge) Mitt. Deut. Landwirt.-Ges. 83(10):320-321. Mar.7,1968. 18 N39  
Accounting.
- 79310 VASIL'EV, D. G. Accounting on the farms during the period of the Soviet rule. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 11:5-9. 1967. 30.69 Uc4  
Collective and state farms.
- 79311 YAKOVLEV, B. I. Collective and state farms are requiring highly-qualified bookkeepers. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 12:36-38. 1967. 30.69 Uc4  
Teaching.
- 79312 YAROSHOVETS, A. I. Teaching theory. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 12:40-41. 1967. 30.69 Uc4  
Correspondence courses in accounting.
- 79313 ZAVALISHIN, I. P. From the experience of the state farms in one district. (Rus) Uchet. Finansy Kolkhoz. Sovkhoz. 2:27-30. 1968. 30.69 Uc4  
Commercial accounting system.
- 79314 ZILAH-SZABO, M. G. Electronic data processing in agricultural bookkeeping; its possibilities and effects. (Ge) Agrarwirtschaft 17(4): 105-111. Apr.1968. 281.8 Ag826  
English summary.
- 79315 ZINCHKIN, A. G. Improvement of the annual report sheet. (Rus) Uchet. Finansy Kolkhoz. Sovkhoz. 3:19-20. 1968. 30.69 Uc4  
For collective and state farms.
- Costs and Returns
- 79316 BARRY, W. M., and LOOMIS, C. W. Columbia County farm business summary 1967. N. Y. State Col. Agr. (Cornell U.) Dept. Agr. Econ. A. E. Ext. 501,26 p. Mar.1968. 281.9 C81Ae  
Dairy farms costs and returns.
- 79317 BEK, A. Early weaning of calves from the point of view of farm management. (Ge) Mitt. Deut. Landwirt.-Ges. 83(6):139-142. Feb.8, 1968. 18 N39  
Costs.
- 79318 BROOKE, D. L., and SPURLOCK, A. H. Cost of harvesting snap beans by machine. Fla. Agr. Exp. Sta. Agr. Econ. Mimeo Rep. EC 68-2,17 p. Oct.1967. 281.9 F663
- 79319 BROOKE, D. L. Costs and returns from vegetable crops in Florida; season 1966-1967 with comparisons. Fla. Agr. Exp. Sta. Agr. Econ. Mimeo Rep. EC 68-4,38 p.,map. Feb. 1968. 281.9 F663
- 79320 CONNEMAN, G. J. Broome County farm business summary 1967. N. Y. State Col. Agr. (Cornell U.) Dept. Agr. Econ. A. E. Ext. 488, 26 p. Feb.1968. 281.9 C81Ae  
Dairy farm costs and returns.
- 79321 CONNEMAN, G. J. Otsego County 1967 farm business summary. N. Y. State Col. Agr. (Cornell U.) Dept. Agr. Econ. A. E. Ext. 489, 26 p. Feb.1968. 281.9 C81Ae  
Dairy farm costs and returns.
- 79322 COOLMAN, F. Costs of sugar beet harvesting methods. (Du) Landbouwmecanisatie 19(3): 233-241. Mar.1968. 58.8 L2352  
English summary.
- 79323 DOMINICK, B. A., and JORDAN, T. D. Conversion and operating inputs and costs associated with Geneva Double Curtain training of grapevines. N. Y. State Col. Agr. (Cornell U.) Dept. Agr. Econ. A. E. Ext. 498,15 p. Mar. 1968. 281.9 C81Ae
- 79324 DORAN, S. M., KULP, E. L., and FORSTER, E. M. Seed peas; estimated costs and returns, Columbia Basin, Washington. Wash. State Univ. Ext. E. M. 2901,8 p. Mar.1968. 275.29 W27Mi
- 79325 ELEMA, R. K. The costs and returns of strawberry growing under glass. (Du) Neth. Dir. Tuinbouw. Mededel. 31(4):159-166. Apr.1968. 86 N384  
English summary, p.172.
- 79326 FIELD culture of beans. II. Economic aspects. (Du) Groenten Fruit 23(40):1813. Apr.17,1968. 80 G89
- 79327 FYFE, M. Maximum productivity in the beef industry-economic aspects. Vet. Rec. 82(18): 502-504. May 4,1968. 41.8 V641  
Costs and returns in Great Britain.
- 79328 GAUTAM, J. P., and AGRAWAL, P. C. Economics of bullock farming. Gosamvardhana 16 (1):28-31. Apr.1968. 43.8 G69  
Costs and returns.
- 79329 GORBACH, I. F. Economic effectiveness of producing milk on the fruit-berry state farms in the central districts of the USSR. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 128:157-159. 1967. 20 M857
- 79330 GROCHOWSKI, Z. Grain production costs and profitability in peasant farmsteads. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 620:13-24. Jan.22,1968. (JPRS 44,096) 173 J663Ste  
Translation from Nowe Rolnictwo 20:1-5. Oct.1967.  
Issued by CFSTI.
- 79331 GRUEVA, E., and SMIRNOVA-GORANOVA, V. Profitability and production funds in animal husbandry. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 621:14-28. Jan.29,1968. (JPRS 44,169) 173 J663Ste  
In Bulgaria.  
Translation from Planovo Stopanstvo i Statistika 9:25-36. 1967.  
Issued by CFSTI.
- 79332 HAROLDSEN, A. D., and WITHERS, R. V. Some economic problems in the dairy industry. Idaho Agr. Res. Progr. Rep. 135,24 p.,map. Mar.1968. S53.E2  
Includes farms.
- 79333 HOWES, R. N., and KYLE, L. R. High sugar beet acreage analysis study of telfarm cooperators for 1966. Mich. State Univ. [Ext.] Agr. Econ. Rep. 86,8 p. Nov.1967. 281.9 M5842  
Costs and returns.
- 79334 JUNKER, W. Improving the earning situation in ornamental plant culture. (Ge) Landesver. Gartenbau Landwirt. Berlin. Mitteilungsbl. 19 (1):31-33. Jan.1968. 85 L233
- 79335 KAMARDIN, E. M., and KUTIKOV, S. I. Economic effectiveness of raising pedigree cattle. (Rus) Zhivotnovodstvo 12:48-51. Dec. 1967. 49 Z6
- 79336 KARASTOYANOV, G. S. Economic effectiveness of fattening swine on the special collective farms in the Khmel'nitski Region. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 128: 161-166. 1967. 20 M857
- 79337 KARLIK, M. Economics of feeding calves with milk preparations. (Cz) Ekon. Zemedelstvi 7 (2):49. 1968. 281.8 Ek7

- 79338 KASSIER, W. E., and GRAHAM, J. D. Survey of the cost of production of cotton in the Pongola Extension Area. Repub. S. Afr. Dep. Agr. Tech. Serv. Tech. Commun. 72, 28 p., map. 1968. 24 So863
- 79339 KERR, H. W. T., and JOHNSON, H. W. Farming in the East Midlands; financial results 1966-67 (sixteenth annual report). Nottingham. Univ. Dep. Agr. Econ. F. R. 167, 47 p., map. Feb. 1968. 281.9 N842F
- 79340 KHERDEKAR, D. N. A comparison on the intellectual level. Gosamvardhana 16(1):3-8. Apr. 1968. 43.8 G69  
Farming costs in India.
- 79341 KOLAR, I. The analysis of costs of production of bulky feed from forage plants in comparison with intensive pasture yields. (Cz) Czech. Min. Zemedel. Les. Hospodar. Ustav Vedeckotechn. Inform. Zemedel. Ekon. 41(1):47-59. Jan. 1968. 281.9 C332  
English summary.
- 79342 KOLKAMP, A., and KUYVENHOVEN, J. Returns in 1966 and 1967. (Du) Groenten Fruit 23(25):1137, 1139. Jan. 3, 1968. 80 G89  
Horticulture.
- 79343 KONDRATYEV, A. M. Economic evaluation of production and usage of forage in the eastern districts of Altai Territory. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 128:143-147. 1967. 20 M857
- 79344 KULIN, S. Rentability of milk production and cattle fattening. (Hu) Agrartud. Kozlem. 27 (1/2):87-108. Ref. 1968. 19 B855  
German summary.
- 79345 LAZIN, M. Results and costs of corn production on analyzed collective farms of Vojvodina in 1966. (Se) Ekon. Poljoprivrede 15(1/2):75-85. Jan./Feb. 1968. 281.8 Ek72
- 79346 LINER, H. L., and HUGHES, G. R. Cost and returns from producing snap beans for processing, North Carolina, 1967. N. C. Univ. Ext. Ext. Circ. 492, 10 p. Mar. 1968. 275.29 N811
- 79347 LOOMIS, C. W., and DAVIS, L. N. Ontario County farm business summary 1967. N. Y. State Col. Agr. (Cornell U.) Dept. Agr. Econ. A. E. Ext. 505, 26 p. Mar. 1968. 281.9 C81Ae  
Dairy farm costs and returns.
- 79348 MAKAROVA, A. G. Economic evaluation of rations fed to cows on the collective farms in the Carpathian piedmont areas. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 128:149-155. 1967. 20 M857
- 79349 MARTILLI, M. Considerations on unit cost of forages coming from permanent or rotating pastures. (It) Raccolto 9(4):85-87. Apr. 1968. 16 R11
- 79350 MARTYNOV, P. N. Costs of meat production, as related to calving season. (Rus) Zhivotnovodstvo 4:67-69. Apr. 1968. 49 Z6
- 79351 MARZOLF, W. W. Chemung, Schuyler, Tioga, Tompkins farm business summary 1967. N. Y. State Col. Agr. (Cornell U.) Dept. Agr. Econ. A. E. Ext. 506, 25 p. Apr. 1968. 281.9 C81Ae  
Dairy farm costs and returns.
- 79352 MCEWAN, L. V. Efficiency in resource use on Scottish dairy farms. Scot. Dep. Agr. Fish. Scot. Agr. Econ. 18:146-151. 1968. 281.9 Sco3S  
Financial data on costs, returns and management.
- 79353 MCEWAN, L. V. The financial results of Scottish farming in 1966/67. Scot. Dep. Agr. Fish. Scot. Agr. Econ. 18:156-173. 1968. 281.9 Sco3S  
Statistical data on costs, returns, and size of farms.
- 79354 MONROE, G. E. 1967 farm business summary Capital, Albany County, Green County, Schenectady County District. N. Y. State Col. Agr. (Cornell U.) Dept. Agr. Econ. A. E. Ext. 499, 24 p. Mar. 1968. 281.9 C81Ae  
Chiefly costs and returns of dairy farms.
- 79355 MUGGLI, J. Farm and industrial inner stocking up through "SPS" certified swine raising. (Ge) Schweiz. Milchzeitung 94(34):267. Apr. 26, 1968. 44.8 Sch92  
Costs and returns.
- 79356 NIKITIN, A. N. The quality of production and the profit. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 5:30-32. May 1967. 30.69 Uc4  
Chiefly on cattle costs and returns.
- 79357 NORMANN, A. Economy in seedling production. (No) Norsk Landbruk 7:22-23. Apr. 5, 1968. 11 N8122  
Costs of vegetable seedlings.
- 79358 OLIVER, G. D. Alternative farming systems in cereal and sheep areas. Farmer's Sci. Joint Conf. [Proc.], 7th Conf. :53-60. 1967. 27 F22  
Costs and returns of each system.  
Includes discussion.
- 79359 OWEN, E., and DAVIES, G. M. The economics of high-concentrate beef production as affected by breed-type, sex, supplementary hay and type of cereal. J. Agr. Econ. [Reading] 19(2):219-230. May 1968. 281.9 Ag8  
In Wales.
- 79360 PASECHNIK, P. P. Outlook for high profits in the livestock husbandry. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 5:42-44. May 1967. 30.69 Uc4  
Costs and returns.
- 79361 POLSPOEL, A. Necessary extension of season for willoof culture. (Fl) Tuinbouwbericht 32(4):148-149. Apr. 1968. 80 T817  
Costs and returns.
- 79362 RADOTIC, R. Conditions for the production of pork on collective farms in 1966. (Se) Ekon. Poljoprivrede 15(4):259-267. Apr. 1968. 281.8 Ek72  
Chiefly costs and prices.
- 79363 RADOTIC, R. The profitability of swine production on collective farms in 1966. (Se) Ekon. Poljoprivrede 15(1/2):95-100. Jan./Feb. 1968. 281.8 Ek72
- 79364 RAJKOV, B. An analysis of the business success of agricultural enterprises in the Vojvodina. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 629:16-26. Feb. 29, 1968. (JPRS 44,530) 173 J663Ste  
Costs and returns.  
Translation from Ekonomika Poljoprivrede 1/2:9-19. Jan./Feb. 1968.  
Issued by CFSTI.
- 79365 SAMVIRKENDE JYDSKE HUSMANDSFORENINGER. DRIFTSOKONOMIUDVALGET. Landbrugs regnskaber [Farm accounts], 1966/67. Horsens, 1967. 124 p., map. 30.69 Sa4  
Costs and returns.
- 79366 SCHREINER, H. Feeding technique—profits and slaughter value of swine. (Ge) Gute Rat Futterungsfragen 7(2):9-10. (Concl.) Feb. 1968. 389.78 G98
- 79367 SERGEEV, V. S. Comparative economic effectiveness of using skim milk in agriculture and industry. Moloch. Prom. 3:42-45. Mar. 1968. 44.8 M734  
As feed for cattle in Estonia.
- 79368 SMITH, R. S., and WILDE, E. 1967 farm business summary Sullivan County. N. Y. State Col. Agr. (Cornell U.) Dept. Agr. Econ. A. E. Ext. 503, 22 p. Apr. 1968. 281.9 C81Ae  
Costs and returns of dairy farms.
- 79369 SOFIEV, E. Annual reports and the evaluation of collective farm performances. (Rus) Vestnik Statist. 1:49-55. 1968. 267 V63  
On costs and returns chiefly.
- 79370 SPARROW, T. D. Economic aspects of the Scottish potato crop. Scot. Dep. Agr. Fish. Scot. Agr. Econ. 18:115-127. 1968. 281.9 Sco3S  
Statistical data on costs and returns, production and consumption.
- 79371 TAPAVICKI, M. Business results of agricultural enterprises in Vojvodina during 1966. (Se) Ekon. Poljoprivrede 15(3):205-212. Mar. 1968. 281.8 Ek72



- 79372 TASHMATOVA, M. P. Possibilities of increasing profitability of Karakul sheep production on the state farms in the Tadzhik SSR. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 128:167-171. 1967. 20 M857
- 79373 TOPALOV, V. Urgent economic problems of cotton production. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 646:1-5. May 10, 1968. (JPRS 45,315) 173 J663Ste  
Costs and returns of cotton in Bulgaria. Translation from Ikonomicheski Zhivot, Mar. 7, 1968:14. Issued by CFSTI.
- 79374 TWEETEN, L. G., STRICKLAND, P. L., and PLAXICO, J. S. Interregional competition in cotton production. Agr. Econ. Res. 20(2):47-56, map. Apr. 1968. 1 Ec7Agr  
Costs.
- 79375 WEICHOLD, R. Economics, yields and profitability of greenhouse culture of cucumbers. (Cz) Zahradnicke Listv 61(5):146-147. (Cont.) May 1968. 80 Z12
- 79376 YUKOMANOVIC, L. Some problems of raising sheep on cooperative farms in mountain areas and possibilities for their solution. (Se) Ekon. Poljoprivrede 15(4):249-258. Apr. 1968. 281.8 Ek72  
Costs and returns.
- 79377 ZAHIU, L., and others. Problems of the economic efficiency of fattening cattle under various systems of feeding. (Rum) Rev. Zooteh. Med. Vet. 17(12):2-11. Dec. 1967. 49 P943

#### Land Settlement and Colonization

- 79378 WILLIAMS, T. T., and MOHAMMAD RASHID BIN AHMED. Summary of a study on Sungai Merab State Land Development Scheme, Kajang, West Malaysia. Farm Manage. Notes Asia Far East 4(1):36-47. Jan. 1968. 281.8 F2228  
Settlement.

#### Land Tenure

- 79379 ABILDGAARD, J. The tendency is towards fewer—but bigger horticultural holdings. (Da) Gartneren 40(7):4-6. Mar. 1968. 80 G1992
- 79380 ASADA, K. Kyu shikuminchi Nihonjin dai tochi shoyuron [Historical study of the Japanese large-scale land ownership in Formosa, Korea, and Manchuria during the colonial period. Tokyo, 1968. 293 p. (Tokyo. National Research Institute. Kenkyu Sosho No. 82) 22.5 T573R
- 79381 BAXTER, C. B., and BOTTOMLEY, A. Note on potential gains from the enclosure of common land in underdeveloped countries. J. Agr. Econ. [Reading] 19(2):251-253. May 1968. 281.9 Ag8  
Effect on gross rural product.
- 79382 CRESCENTINI-ANDERLINI, G. Improvements on another's farm. (It) Genio Rurale 31(4):291-294. Apr. 4, 1968. 281.8 R522  
Appraisal for indemnification.
- 79383 DIMKOVIC, B. J. Owners of agricultural land who are engaged outside of agriculture (views and opinions of private agricultural producers, experts and socio-political figures). U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 629:39-46. Feb. 29, 1968. (JPRS 44,530) 173 J663Ste  
In Yugoslavia. Translation from Ekonomika Poljoprivrede 1/2:43-48. Jan./Feb. 1968. Issued by CFSTI.
- 79384 EISSES, M. Land planning and structures in Holland. (Fr) France. Dir. Doc. Notes Etudes Doc. 3444:38-39. Dec. 11, 1967. 280.9 F843  
Improvement of farm size.

- 79385 FALKOWSKI, M. Agrarian reform in developing countries. Intereconomics 5:142-145. May 1968. HF17.I5
- 79386 FRANCE. DIRECTION DE LA DOCUMENTATION. Problemes d'Amerique Latine [Problems of Latin America]. 7. France. Dir. Doc. Notes Etudes Doc. 3454, 67 p. Jan. 12, 1968. 280.9 F843  
Contains papers by P. Gilhodes and J. J. Jouvin which discuss the agrarian reform in Colombia and Venezuela.
- 79387 FRITZEN, A. Indemnification claims in the expropriation of leased land. (Ge) Recht Landwirt. 20(2):34-36. Feb. 1968. 30.58 R24
- 79388 GRLJNS, C. D. The responsibility of the lessor for repairs. (Du) Pacht 28(1):4-10. Jan. 1968. 282.8 P11
- 79389 HEIMPEL, C. Criteria of economic evaluation of agrarian reforms in developing countries with large land tenure structure. Z. Ausländische Landwirt. 7(1):34-51. Ref. Jan. 1968. 281.8 Z32  
English summary.
- 79390 HORTON, D. E. Land reform and economic development in Latin America, the Mexican case. Ill. Agr. Econ. 8(1):9-20. Ref. Jan. 1968. 281.9 IL6I
- 79391 JACOBI, M. Land planning and structures in Germany. (Fr) France. Dir. Doc. Notes Etudes Doc. 3444:38. Dec. 11, 1967. 280.9 F843  
Improvement of farm size.
- 79392 JACOBSEN, E. H. The family farm in Minnesota has about 200 hectares to-day. (Da) Dansk Landbrug 87(2):42-43. Feb. 1968. 280.28 V91
- 79393 KOO, C. F. Land reform and its impact on industrial development in Taiwan. Indus. Free China 29(2):8-19. Feb. 25, 1968. 297.8 T99
- 79394 KUHNEN, F. The importance of the agrarian reform within the framework of economic development. (Ge) Z. Ausländische Landwirt. 7(1):22-23. Jan. 1968. 281.8 Z32  
English summary. In developing areas.
- 79395 LEEUW, A. DE. Land planning and structures in Belgium. (Fr) France. Dir. Doc. Notes Etudes Doc. 3444:34-37. Dec. 11, 1967. 280.9 F843  
Improvement of farm size.
- 79396 LESLIE, H. R. The Scottish Land Court. Roy. Highland Agr. Soc. Scot. Trans. 9:60-63. 1968. 10 H536
- 79397 MALEZIEUX, R. The legal methods permitting the remodeling of farms. (Fr) France. Dir. Doc. Notes Etudes Doc. 3444:19-23. Dec. 11, 1967. 280.9 F843  
Improvement of farm size.
- 79398 MARTIRANO, G. The Chamber has approved the regulation of the terms of the share farm lease with improvement clause. (It) Rass. Agr. Ital. 23(2):21-22. Feb. 1968. 281.8 R18
- 79399 MCINTOSH, F. Changes in farm rents in Scotland 1966/67. Scot. Dep. Agr. Fish. Scot. Agr. Econ. 18:152-153. 1968. 281.9 Sco3S
- 79400 MITRA, A. K. Influence of specific agricultural resource adjustments on the growth and development of the rural sector in the district of Burdwan, India. Farm Manage. Notes Asia Far East 4(1):19-30. Jan. 1968. 281.8 F2228  
In relation to ceilings on farm holdings.
- 79401 NAGY, L. Land ownership and the producer cooperatives. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 624:27-39. Feb. 8, 1968. (JPRS 44,287) 173 J663Ste  
In Hungary. Translation from Magyar Tudomany 74(12):749-759. Dec. 1967. Issued by CFSTI.
- 79402 NASIRUDDIN, G. A decade of revolutionary transformation. Trade Indus. 12(1):45, 47-51. map. Jan. 1968. 286.8 T674  
Land reform and agricultural policy included.

## Land Utilization

- 79403 NIELSEN, A. H. Concentration and specialization trends in USA's agriculture. (Da) Tolvmandsbladet 40(4):191-197. Apr.1968. 11 T58
- 79404 PALMIERI, A. The liquidation of public usages. (It) Agricoltura 17(2):59-61. Feb.1968. 16 Ag8226  
English summary, p.8.  
Common rights on lands.
- 79405 PAYNE, D. C. The National Property Register makes its bow. Chartered Land Agents' Soc. J. 67(3):122-123. Mar.1968. 282.9 L22
- 79406 RANDIER, R. J. F. The legal methods of assuring in France an improvement of agricultural structures; towards the establishment of agricultural land investment societies. (Fr) France. Dir. Doc. Notes Etudes Doc. 3444:24-34. Dec.11,1967. 280.9 F843
- 79407 SAAB, G. S. The Egyptian agrarian reform: 1952-1962. London, Oxford University Press, 1967. 236 p. Ref., p.223-225. (Royal Institute of International Affairs. Middle Eastern Monographs, 8.) HD976.S2  
Includes chapters on land expropriation, co-operative organizations, credit, farm management and marketing, sharefarming, and labor, reclamation, and agricultural policies.
- 79408 SCHNEEBERGER, J. Aim, contents and alignment of all professional planning in the reorganization district before the execution of land consolidation. (Ge) Z. Kulturtech. Flurbereinigung 9(2):65-84, map. Mar./Apr.1968. S605.A1Z4  
English summary.
- 79409 SCHOKKER, A. R. Voluntary land consolidation in practice. (Du) Neth. Landbouw. Landbouvoorlichting 25(2):61-66. Feb.1968. 12 N383M
- 79410 SCHWAMPE, E. Larger fields in the Ludwigs-lust district through land consolidation. (Ge) Feldwirtschaft 9(3):106-107, map. Mar.1968. 18 W763
- 79411 SELLERI, C. The blocking of agricultural contracts. (It) Riv. Polit. Agr. 15(1):45-51. Mar. 1968. 281.8 R523  
Under share farming, tenancy, and other types of tenure.
- 79412 SOOS, G. Some problems in the execution of land tenure law. (Hu) Magyar Mezogazdasag 22(51):3-4. Dec.20,1967. 19 M27
- 79413 SOPHIAN, T. J. Leasehold reform act. II. Chartered Land Agents' Soc. J. 67(3):116-119. Mar.1968. 282.9 L22
- 79414 SORIANO, F. Invest without capital: Leasing. (Fr) Agr. Prat. 132(4):21-22. Apr.1968. 14 J82
- 79415 STEPHENSON, R. W. Land ownership maps; a checklist of nineteenth century United States county maps in the Library of Congress. Washington, Library of Congress, 1967. 86 p. G3692.G4S7
- 79416 THOMPSON, F. M. L. The second agricultural revolution, 1815-1880. Econ. Hist. Rev. (ser.2) 21(1):62-77. Apr.1968. 277.8 Ec7  
In relation to landlord tenant relationships and technical and economic progress in British agriculture.
- 79417 VUCKOVIC, M. The October revolution and the land reform. (Se) Ekon. Poljoprivrede 15(3):147-154. Mar.1968. 281.8 Ek72
- 79418 WEIDMANN, T. Consolidation of holdings and site planning. (Ge) Schweiz. Landwirt. Monatsh. 46(4):145-154. Apr.1968. 17 Sch93
- 79419 WOHRMANN, Commercial value in procedures for determination of farm ownership. (Ge) Recht Landwirt. 20(2):32-34. Feb.1968. 30.58 R24
- 79420 WOLFF, K. A. The tempering clause of 89, sect. 7 of the Land Transfer Law. (Ge) Recht Landwirt. 20(2):29-32. Feb.1968. 30.58 R24
- 79421 CHUCHART, C. Land development programs in Thailand. Farm Manage. Notes Asia Far East 4(1):1-7. Jan.1968. 281.8 F2228
- 79422 DORCICH, S. Land—the prime resource. Rural Realtor 19:6. Dec.1967. 282.8 R88
- 79423 DVORTSOVA, T. Proposals for improving land utilization in Latvia discussed. U. S. Joint Publ. Res. Serv. Transl. USSR Agr. 225: 7-14. Nov.21,1967. (JPRS 43,386) 173 J663Tso  
Translation from Ekonomika Sel'skogo Khozyaistva 9:99-103. Sept.1967.  
Issued by CFSTI.
- 79424 FRANZ, M. Is slash-and-burn outdated? Org. Gard. Farming 15(6):62-64. June 1968. 57.8 Or32
- 79425 HALSEN, G., and SAGBAKKEN, T. Road construction and arable land. (No) Norsk Landbruk 8:8-9,37,39. Apr.19,1968. 11 N8122
- 79426 HAYWARD, J. A. The Waimakariri catchment; a study of some aspects of the present systems of land use, with recommendations for the future. Christchurch. Tussock Grasslands Mountain Lands Inst. Spec. Publ. 5,288 p., map. 1967. 60.9 C46S  
Bibliography p.196-216.  
Includes soil types and climate.
- 79427 KOPPEJAN, A. W. G. Where does all the farm land go? (Du) Landbouwkundig Tijdschr. 80(4): 157-158. Apr.1968. 105.2 Or3  
Land use.
- 79428 LEBEDEV, P. N. Studying the utilization of land of northern forest-steppe area in connection with its economic evaluation. (Rus) Moscow. Univ. Vestnik. Ser. 5, Geogr. 2:63-72. Mar./Apr.1968. 331.9 M85  
English summary.
- 79429 LICZKOWSKI, J. Resources of agricultural land and modes of use of that land in the Poznan-Bydgoszcz region. (Pol) Wies Wspolczesna, Pismo Ruchu Ludowego 13(1):101-107. Jan.1968. HN536.W5
- 79430 MAYER, A. The urgent future; people housing city region. New York, McGraw-Hill, 1967. 184 p. HT166.M3  
Bibliography, p.173-178.
- 79431 PLOUVIER, Y. The next cadastral revision of unimproved properties. (Fr) Inform. Agr. [Paris] 380:40. Apr.1968. HD1945.A115
- 79432 POLAK, J. M. The law for the protection of nature. (Du) Pacht 28(4):98-102. Apr.1968. 282.8 P11  
With reference to land use.
- 79433 PRILLEVITZ, F. C., and GROOT, K. DE. Agriculture in an urbanized Netherlands. (Du) Landbouwkundig Tijdschr. 80(1):12-23, map. Ref. Jan.1968. 105.2 Or3  
Includes land use and regional planning.
- 79434 PUBLICATIONS on the public green areas of Berlin; selections from the period 1945-1967. (Ge) Landesver. Gartenbau Landwirt. Berlin. Mitteilungsbl. 19(1):20-21. Jan.1968. 85 L233
- 79435 REIFF, H. Support of agriculture with town and country planning. (Ge) Mitt. Deut. Landwirt.-Ges. 83(5):125-127. Feb.1,1968. 18 N39
- 79436 REISCH, E. Grassland without cows? (Ge) Mitt. Deut. Landwirt.-Ges. 83(13):419-421. Mar.28,1968. 18 N39  
Other methods of land use with costs and returns.
- 79437 SCHINDLER, N. The public green areas in Berlin: where, what and how. (Ge) Landesver. Gartenbau Landwirt. Berlin. Mitteilungsbl. 19(1):11-15. Ref. Jan.1968. 85 L233  
Chiefly statistics on home gardens, parks, forests, and agricultural and horticultural acreage.
- 79438 STRAUMSGARD, L. Economic mapping of Norway. (No) Norsk Landbruk 8:14,42-43. Apr.19, 1968. 11 N8122



- 79439 STRUMILIN, S. Methods for improving the planning level of the use of natural resources. U. S. Joint Publ. Res. Serv. Transl. USSR Agr. 226:14-30. Nov.30,1967. (JPRS 43,507) 173 J663Tso  
Chiefly land utilization.  
Translation from Voprosy Ekonomiki 8:60-72. Aug.1967.  
Issued by CFSTI.
- 79440 SWARTS, J. A. Selection of areas for development. West. Australia. Dep. Agr. J. (ser.4)9(1):11. Jan.1968. 23 W52J  
Land utilization in Australia.
- 79441 TWELVE green areas in one city; the Berlin horticultural officials report on their areas. (Ge) Landesver. Gartenbau Landwirt. Berlin. Mitteilungsbl. 19(1):16-19. Jan.1968. 85 L233
- 79442 WINKLER, E. Agricultural sociology and town and country planning. (Ge) Agrarpolit. Rev. 24(214):24-27. Jan.1968. 281.8 Ag824  
Switzerland.

#### Land Values and Valuation

- 79443 BUCCI, M. Contribution to the determination of the capitalized value of the table grape vineyard raised "a tendone." (It) Genio Rurale 31(1):37-42. Jan.1968. 281.8 R522
- 79444 GRILLENZONI, M. Use of statistical models in appraisal. (It) Genio Rurale 31(4):281-290. Apr.4,1968. 281.8 R522
- 79445 HYLKEMA, J. K. The high prices of agricultural land. (Du) Landbouwkundig Tijdschr. 80 (1):24-29. Jan.1968. 105.2 Or3
- 79446 JOINT TRIENNIAL CONFERENCE ON AGRICULTURAL ARBITRATIONS, LONDON, 1968. [Papers]. Chartered Surv. 100(10):481-489. Apr.1968. 325.8 C38  
Studies on valuation for compensation by H. H. Lawrence, and O. H. Wilkin.
- 79447 MCINTOSH, F. Sales of farm land. Scot. Dep. Agr. Fish. Scot. Agr. Econ. 18:154-155. 1968. 281.9 Sco3S
- 79448 MURRAY, R. A., and CISSEL, E. I. The transfer of farm and open country real estate in Prince Georges County, Maryland, 1964. Md. Agr. Exp. Sta. Misc. Publ. 631,33 p.,map. Aug. 1967. 100 M36M  
Includes study of marketing and prices.
- 79449 MURRAY, R. A., and CISSEL, E. I. The transfer of farm and open country real estate in Somerset County, Maryland, 1964. Md. Agr. Exp. Sta. Misc. Publ. 647,29 p.,map. Oct.1967. 100 M36M  
Includes study of marketing and prices.
- 79450 MURRAY, R. A., and CISSEL, E. I. The transfer of farm and open country real estate in Talbot County, Maryland, 1964. Md. Agr. Exp. Sta. Misc. Publ. 648,25 p.,map. Nov.1967. 100 M36M  
Includes study of marketing and prices.
- 79451 MURRAY, R. A., and CISSEL, E. I. The transfer of farm and open country real estate in Wicomico County, Maryland, 1964. Md. Agr. Exp. Sta. Misc. Publ. 655,29 p.,map. Nov.1967. 100 M36M  
Includes study of marketing and prices.
- 79452 OLSEN, H. A. Options provide flexibility. Rural Realtor 20:11. Feb.1968. 282.8 R88  
Tax advantages included.
- 79453 ROMITI, R. Land improvements and appraisal of the improved property. (It) Genio Rurale 31 (3):217-221. Mar.1968. 281.8 R522
- 79454 SCOFIELD, W. H., and JOHNSON, B. B. Tales from the computer. Rural Realtor 19:5. (Cont.) Dec.1967. 282.8 R88  
Land values.
- 79455 SCOFIELD, W. H. Tales from the computer. Rural Realtor 20:5. (Cont.) Feb.1968. 282.8 R88  
Farm and land values.

- 79456 U. S. DEPT. OF AGRICULTURE. ECONOMIC RESEARCH SERV. Farm real estate market developments, November 1966 to November 1967. U. S. D. A. Econ. Res. Serv. Farm Real Estate Market Develop. CD-70,46 p.,map. Apr. 1968. 1.941 L2C93  
Value.
- 79457 WRIGHT, C. What appraising is doing to farmland due to condemnation. Rural Realtor 19:8. Dec.1967. 282.8 R88

#### POPULATION

- 79458 BIGNAMI, G. Considerations on human establishments in the mountain: yesterday, today, and tomorrow. (Fr) Chambres Agr. 39 (381,sup.):5-6. Feb.1,1968. 14 T69
- 79459 BOGUE, D. J. The prospects for world population control. Alternatives Balancing World Food Prod. Needs. Rep. 1967:72-85. Ref. HD9000.1.A4
- 79460 CLARK, C. Population growth and land use. London, Macmillan, 1967. 406 p.,map. Ref. HB871.C6
- 79461 KIRK, D., and JONES, G. World population: causes and consequences of growth differentials. Alternatives Balancing World Food Prod. Needs. Rep. 1967:51-71. Ref. HD9000.1.A4
- 79462 KRAUSE, J. T. Some aspects of population change, 1690-1790. In Jones, E. L., and Mingay, G. E. Land, labour and population in the industrial revolution, p.187-205. Ref. 1968. HC254.5.J6  
Rural date included.
- 79463 MAITLAND, S. T., and KNEBEL, S. M. Rural to urban transition. U. S. Bur. Labor. Statist. Mon. Labor Rev. 91(6):28-32. June 1968. 158.6 B87M  
Population migration.
- 79464 RAZZELL, P. E. Population growth and economic change in eighteenth- and early nineteenth-century England and Ireland. In Jones, E. L., and Mingay, G. E. Land, labour and population in the industrial revolution, p.260-286. Ref. 1968. HC254.5.J6  
Rural population included.
- 79465 SAVIN, A. Migration of young people from rural areas. U. S. Joint Publ. Res. Serv. Transl. USSR Labor 236:26-29. Mar.14,1968 (JPRS 44,679) 173 J663Tou  
Translation from Trud, Feb.14,1968:2.  
Issued by CFSTI.
- 79466 TARVER, J. D., and BEALE, C. L. Population trends of southern nonmetropolitan towns, 1950 to 1960. Rural Sociology 33(1):19-29. Mar. 1968. 281.28 R88
- 79467 VALOV, V. S. Changes in population distribution in Tadzhik SSR during the period 1926-1959. (Rus) Moscow. Univ. Vestnik. Ser. 5, Geogr. 2:73-80,map. Mar./Apr.1968. 331.9 M85  
Includes rural population.
- 79468 WATANABE, H. Movement of regional population. (Ja) Quart. J. Agr. Econ. 22(2):179-202. Apr.1968. 22.5 N687  
Rural-urban migration.

#### RECREATION

- 79469 BEVINS, M. I. Youth camps; big business in Vermont. Vt. Farm Home Sci. 10(3):4-5. Spring 1968. 100 V593
- 79470 BREWER, D., and GILLESPIE, G. A. Estimating satisfaction levels of outdoor recreationists. J. Soil Water Conserv. 22(6):248-249. Nov./Dec.1967. 56.8 J822
- 79471 BURGER, D. Research problems concerning forests, fauna, flora and outdoor recreation in the Netherlands. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.7:154-182,map. Ref. 1967. 99.9 In82  
Translation from Dutch.

- 79472 GRIPERAY, G. Tourism and rural environment: Survey of obstacles. (Fr) Inform. Agr. [Paris] 380:47. Apr.1968. HD1945.A115
- 79473 HARWOOD, D. G., PASOUR, E. C., and STIPE, S. H. Will farm recreational enterprises pay? N. C. Univ. Ext. Ext. Circ. 497,9 p. Apr.1968. 275.29 N811  
Supplementary income from land use.
- 79474 HOWES, J. R. Varied and important Texas quail species. Tex. Agr. Progr. 14(2):6-7. Spring 1968. 100 T31Te  
Includes economic benefits of recreational hunting.
- 79475 JOHNSON, A., and HUFF, J. M. Outdoor recreation and associated research needs for suburban forests. Washington, U.S. Department of Agriculture, Economic Research Service, Natural Resource Economics Division, 1967. 13 p. PREP 187
- 79476 LYKKE, J. Multiple use of forest and mountain land in Norway. (No) Tidsskr. Skogbruk 76(1):1-103. Ref. 1968. 99.8 T432  
Chiefly recreational use.
- 79477 MERRIAM, L. C., and AMMONS, R. B. Wilderness users and management in three Montana areas. J. Forest. 66(5):390-395, map. Ref. May 1968. 99.8 F768  
Recreation.
- 79478 RORHOLM, N., and others. Economic impact of marine-oriented activities; a study of the southern New England marine region. R. I. Agr. Exp. Sta. Bull. 396,132 p., map. Ref. 1968? 100 R34S  
H. C. Lampe, N. Marshall, and J. F. Farrell, joint authors.  
Marine recreation and industry.
- 79479 SASSI, E. Greater development of tourism in Italy. (Fr) Chambres Agr. 39(381,sup.):7-8. Feb.1,1968. 14 T69
- 79480 SHERWOOD, R. T. Angling potential in Northern Ireland Forestry Division waters. Quart. J. Forest. 62(2):161-169. Apr.1968. 99.8 Q2
- 79481 SINDEN, J. A. The evaluation of extra-market benefits: a critical review. World Agr. Econ. Rural Sociol. Abstr. 9(4):1-16. Dec.1967. 241 W89  
Public facilities and services with special reference to recreation; costs included.
- 79482 WILLMETTE, W. F. Recreational land use. Rural Realtor 20:8-10. Feb.1968. 282.8 R88
- RURAL SOCIAL ORGANIZATION**
- 79483 ALBRECHT, H. Social action research in development programs: importance and conditions. (Ge) Z. Ausländische Landwirt. 7(1):4-21. Ref. Jan.1968. 281.8 Z32  
English summary.
- 79484 MAXWELL, J. W. Rural Negro father participation in family activities. Rural Sociology 33(1):80-83. Mar.1968. 281.28 R88
- 79485 MULLER, J. O. Sociological aspects in the settlement of irrigation projects in the dry savannas of West Africa with case studies of Togo as example. (Ge) Z. Ausländische Landwirt. 7(1):52-64. Jan.1968. 281.8 Z32  
English summary.
- 79486 NEMCOVA, E. The farm as a complex social organism. (Cz) Ekon. Zemedelstvi 7(2):38-40. 1968. 281.8 Ek7
- 79487 ROUSSEAU, M. J. The rural life. (Fr) Tech. Lait. 585:25,27. Mar.2,1968. 44.8 Of2
- 79488 SAGARA, D. First results of the work of the Institute of Sociology and History of Agriculture of the Research Institute of Agricultural Economics, Bratislava branch [Institut Sociologie a Historie Polnohospodarstva, Vyzkumny Ustav Polnohospodarskej Ekonomiky]. (Cz) Prague. Vyzk. Ustav Zemed. Vestn. 14(4):178-180. 1967. 19.5 C333
- 79489 SPAULDING, I. A. Household water use and social status. R. I. Agr. Exp. Sta. Bull. 392, 32 p. Dec.1967. 100 R34S
- 79490 WIJEYEWARDENE, G. Some aspects of rural life in Thailand. In Silcock, T. H., ed. Thailand; social and economic studies in development. p.65-83. 1967. HC497.T585
- Human Ecology**
- 79491 ARBEITSGEMEINSCHAFT FÜR LÄNDLICHE SOZIOLOGIE. Reorganization of agricultural space; the contribution of agricultural sociology. (Ge) Agrarpolit. Rev. 24(214):1-28. Jan.1968. 281.8 Ag824  
Papers given at a conference held November 8, 1967, in Zurich.
- 79492 BACH, H. The agrarian problem in Austria and the contribution of agricultural sociology to its solution. (Ge) Agrarpolit. Rev. 24(214):7-12. Jan.1968. 281.8 Ag824  
Regional planning.
- 79493 BLAJOVICI, P. New requirements for territorial organization and rural planning. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 625:15-34. Feb.13, 1968. (JPRS 44,358) 173 J663Ste  
In Romania.  
Translation from Probleme Economice 11:3-18. Nov.1967.  
Issued by CFSTI.
- 79494 BOSNJAK, M. The urbanization of rural settlements with regard to Bosnia and Herzegovina. (Se) Ekon. Poljoprivrede 15(4):221-234. Apr. 1968. 281.8 Ek72
- 79495 DAYRE, J. Urbanization of the countryside. (Fr) Tech. Lait. 585:41,43,45,47-49. Mar.2, 1968. 44.8 Of2
- 79496 DEQUIN, H. Salima, a regional development project in Malawi. (Ge) Z. Ausländische Landwirt. 7(1):119-127. Jan.1968. 281.8 Z32  
English summary.
- 79497 ENGLISH, P. W. Landscape, ecosystem, and environmental perception: concepts in cultural geography. J. Geogr. 67(4):198-205. Apr.1968. 278.8 J82
- 79498 FAURE, M. Why do farm organizations want regionalization? (Fr) Paysans 12(69):13-20. Dec.1967/Jan.1968. 14 R323
- 79499 GUSTI, G. Planning rural areas. U. S. Joint Publ. Res. Serv. Transl. Econ. Organ. Manage. East Europe. 791:63-76. Jan.31,1968. (JPRS 44,219) 173 J663Tre  
In Romania.  
Translation from Lupta de Clasa 47(10):67-74. Oct.1967.  
Issued by CFSTI.
- 79500 HENDERSON, J. "One man, one vote" and the county board. Ill. Res. 10(2):18. Spring 1968. 100 IL64  
Effects on rural-urban relations.
- 79501 HENRY, J. F. The conditions of regional development. (Fr) Paysans 12(69):21-30, map. Dec.1967/Jan.1968. 14 R323
- 79502 HERMS, A. Objectives and possibilities in agricultural structural preplanning. (Ge) Z. Kulturt. Flurbereinigung 9(2):116-117. Mar./Apr.1968. S605.A1Z4  
Regional planning.
- 79503 HONG DANH. Economic-agricultural zoning at province level. Joint Publ. Res. Serv. Transl. N. Vietnam 289:1-19. Nov.27,1967. (JPRS 43,458) DS557.A7J6  
Translation from Tin Thuc Hoat Dong Khoa Hoc 9:9-17. Sept.1967.  
Issued by CFSTI.
- 79504 ILTIS, H. H. The optimum human environment and its relation to modern agricultural preoccupations. Biologist 50(3/4):114-125. June 1968. 442.8 B5263
- 79505 LACOSTE, Y. A village in motion. (Fr) Paysans 12(69):31-40. Dec.1967/Jan.1968. 14 R323
- 79506 LAFONT, R. Historical causes for regional under-development. (Fr) Paysans 12(69):7-12. Dec.1967/Jan.1968. 14 R323



- 79507 NIEMEIER, G. The landscape test—settlement and agricultural history data. (Ge) Z. Agrargesch. Agrarsoziol. 16(1):16-35, map. Apr. 1968. 30.98 Z3
- 79508 NUSSBAUMER, J. The reorganization of agricultural space as a social function. (Ge) Agrarpolit. Rev. 24(214):2-6. Jan. 1968. 281.8 Ag824  
Regional planning.
- 79509 PRION, J., and VITKON, G. Cooperation among villages in Israel. (He) Agr. Israel 13(6/7):25-27. Mar./Apr. 1968. 22.5 Ag825
- 79510 REIFF, H. The equipping of the plains. (Ge) Mitt. Deut. Landwirt.-Ges. 83(8):220-222. Feb. 22, 1968. 18 N39  
Regional planning.
- 79511 SCHOLZ, H. Regional planning between Hunsrück and the Pfalz mountain country. (Ge) Bad Godesberg. Inst. Raumforsch. Inform. 18(3):75-86, map. Feb. 15, 1968. 280.9 B643I
- 79512 SHEPARD, P. Whatever happened to human ecology? BioScience 17(12):891-894. Ref. Dec. 1967. 500 Am322A
- 79513 SPITZER, H. On the theme of films and regional planning. (Ge) Bad Godesberg. Inst. Raumforsch. Inform. 18(3):87-90. Feb. 15, 1968. 280.9 B643I
- 79514 STEFANESCU, I., and BARANOVSKY, N. The degree of concentration of rural settlements in the Socialist Republic of Romania. (Rum) Rev. Statist. 17(3):55-60, map. Mar. 1968. 267.8 St22
- 79515 TIRTHA, R., and LALL, A. Service centers in the Western Himalayas. J. Trop. Geogr. 25:58-68, map. Ref. Dec. 1967. 331.8 M29
- 79516 U. S. TENNESSEE VALLEY AUTHORITY. Indexed bibliography of the Tennessee Valley Authority; cumulative supplement January 1965-December 1966. Knoxville, 1968. 103 p. 173.2 T25In
- 79517 WEISBROD, M. Regional planning of farm enterprises. (He) Agr. Israel 13(6/7):31-34. Mar./Apr. 1968. 22.5 Ag825
- 79518 WHORTON, W. J., and SIDOR, T. Oregon counties use long-range planning to meet the future head on. Ext. Serv. Rev. 39(3/4):10-11. Mar./Apr. 1968. 1 Ex892Ex  
Extension program.
- 79519 YALAN, A. The planning of agricultural settlements. (He) Agr. Israel 13(6/7):28-31. Mar./Apr. 1968. 22.5 Ag825
- Institutions
- 79520 AGRICULTURAL College diamond jubilee, 1967. Poona Agr. Coll. Mag. 57(4), 159 p. Dec. 1967. 22 P79
- 79521 BEDI, G. S. Our agricultural universities. 3. Punjab Agricultural University. Fertiliser News 13(4):27-29. Apr. 1968. 57.8 F4123
- 79522 BERLYN, P. Rhodesian scheme reverses agricultural decline. World Crops 20(1):58-60. Mar. 1968. 281.8 W892  
Farmer education and financial assistance.
- 79523 BERTONE, E. Health and hospital services in mountain areas. (Fr) Chambres Agr. 39 (381, sup.):9. Feb. 1, 1968. 14 T69
- 79524 BIANCHI, M. Instruction and cooperation of farmers in Denmark. (It) Riv. Polit. Agr. 15 (1):62-68. Mar. 1968. 281.8 R523
- 79525 BIELSER, A. The woman in the agricultural region. (Ge) Agrarpolit. Rev. 24(214):13-15. Jan. 1968. 281.8 Ag824  
Social requirements of the village woman, especially in extension education.
- 79526 BREKELMANS, R. H. J. M. Photometer, modern aid in extension. (Du) Neth. Dir. Landbouw. Landbouwvoorlichting 25(5):212-215. May 1968. 12 N383M
- 79527 CAMPBELL, K. O. Agricultural education for what? Australian Inst. Agr. Sci. J. 34(1):3-9. Mar. 1968. 23 Au74
- 79528 CHAPUIS, P. General situation of postal services and telecommunications. (Fr) Chambres Agr. 39(382, sup.):16-19. Feb. 15, 1968. 14 T69
- 79529 CHAUBEY, S. D. Our agricultural universities. 1. Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur. Fert. News 13(2):24-27. Feb. 1968. 57.8 F4123
- 79530 COTO, R. The IAC and the OAS. (Sp) In Inter-American Institute of Agricultural Sciences. Las ciencias agrícolas en América Latina, p.465-506. 1967. S493.I5  
Inter-American Institute of Agricultural Sciences and the Organization of American States; education and research.
- 79531 COUNTY agents directory, fifty-third edition, 1968. Flossmoor, Illinois, C. L. Mast Jr., & Associates, 1968. 152 p. 225 Of232
- 79532 CROSS, T., MACIVER, A. M., and LACEY, J. The thermophilic Actinomycetes in mouldy hay: Micropolyspora faeni sp. nov. J. Gen. Microbiol. 50(3):351-359. Ref. Mar. 1968. 448.9 J823  
Associated with farmer's lung disease.
- 79533 DIERCKS, J. Even today a regular agricultural apprenticeship. (Ge) Mitt. Deut. Landwirt.-Ges. 83(12):392-393. Mar. 21, 1968. 18 N39
- 79534 DIK, D. W. Teen aides for Head Start; New York 4-H project teaches teens child development. Ext. Serv. Rev. 39(6):8-9. June 1968. 1 Ex892Ex
- 79535 DONALD, I. Rural youth—why have a newsletter? Tasmania J. Agr. 39(1):50-54. Feb. 1968. 23 T182T
- 79536 DORN, B. 25 years of the Professional Agricultural School [Landwirtschaftliche Berufsschule] in Bavaria. (Ge) Ausbildung Beratung Land- Hauswirtsch. 21(5):86-89, 92. 1968. 18 N11
- 79537 DUNCOMBE, H. S. Rural local government today. Farm Policy Forum 20(1):4-10. 1967/68. 281.8 F2274
- 79538 DWARAKINATH, R. Our agricultural universities. 2. University of Agricultural Sciences, Bangalore. Fert. News 13(3):21-23. Mar. 1968. 57.8 F4123
- 79539 FAJKOWSKI, J. Plenum of the United Peasant Party Central Committee on the development of culture in rural areas. (Pol) Wies Wspolczesna, Pismo Ruchu Ludowego 13(1):3-9. Jan. 1968. HN536.W5  
English summary, p.2-3 of supplement.  
Education and recreation.
- 79540 FRANCO, J. DI. The knowledge of the peasant. (Sp) In Inter-American Institute of Agricultural Sciences. Las ciencias agrícolas en América Latina, p.113-124. 1967. S493.I5  
Extension work in Latin America.
- 79541 GOODLAND, N. L. Farmer's lung. World Crops 19(6):26-27. Dec. 1967. 281.8 W892  
In Great Britain.
- 79542 GREENOUGH, R. Rural schools and economic development in Cameroon. UNESCO Chron. 14 (4):149-151. Apr. 1968. 280.8 Un389
- 79543 GROSENICK, L. E. Intergovernmental relations in rural areas. Farm Policy Forum 20(1):27-36. 1967/68. 281.8 F2274
- 79544 GRZEGORZEWSKI, E. Comparative public health; an approach to the establishment of public health patterns. (Sp) Ofic. Sanit. Panamer. Bol. 64(6):477-484. June 1968. 449.9 P192B  
English summary.
- 79545 HABERKORN, J. P. Recent trends in collective promotion. (Fr) Inform. Agr. [Paris] 380:43. Apr. 1968. HD1945.A1I5  
Educational activities of the National Federation of Farmers' Syndicates (Federation Nationale des Syndicats Agricoles).
- 79546 HARL, N. E. Estate planning for farmers. 4. Gifts in estate planning. Agr. Banking Financ. 10(3):20, 22-23. May/June 1968. 284.8 B22

- 79547 HARRACH, W. Graf. Tools for Ireland's farmer; education and extension in the Irish Republic. (Ge) Ausbildung Beratung Land-Hauswirtsch. 21(5):92-94. 1968. 18 N11
- 79548 HEIN, C. J. Problems of rural government. Farm Policy Forum 20(1):11-18. 1967/68. 281.8 F2274
- 79549 HELD, R. Masters earn more. (Ge) Ausbildung Beratung Land-Hauswirtsch. 21(1,spec.sup.):11-13. 1968. 18 N11  
Increased income from education.
- 79550 HENRY, J. F. Communal regrouping in the order of the day. (Fr) Inform. Agr. [Paris] 380:29-31,33. Apr.1968. HD1945.A115
- 79551 IWEMA, S. Wageningen in and with the world. (Du) Landbouwkundig Tijdschr. 80(5):189-190. May 1968. 105.2 Or3  
The work of the Landbouwhogeschool.
- 79552 KOCK, W. Extension and educational development in the advanced stage of development promotion. (Ge) Z. Ausländische Landwirt. 7(1):94-106. Jan.1968. 281.8 Z32  
English summary.  
Kenya.
- 79553 KONING, W. Many roads lead to Munich. (Ge) Mitt. Deut. Landwirt.-Ges. 83(19):698-701. May 9,1968. 18 N39  
The DLG show.
- 79554 KREUZIGER, E. Seeing and hearing. (Ge) Forderungsdienst 16(1):22-28. Jan.1968. 19 F75  
On audio-visual education in Austria.
- 79555 KUYLENSTJERNA, G. Production advisory services in the agricultural cooperatives in Sweden. (Sw) Nord. Lantbruksek. Tidskr. 18(1):17-20. 1968. 281.8 N75
- 79556 KWIECINSKI, Z. The falling-off from schools in peripheral villages. (Pol) Wies Wspolczesna, Pismo Ruchu Ludowego 12(2):67-79. Feb. 1968. HN536.W5  
English summary, p.12-13 of supplement.
- 79557 LI, M. H. A study of the CCP two-road struggle in the countryside. Issues Stud. 4(8):7-18. May 1968. 280.8 Is74
- 79558 MAXEINER, R. Extension goal reached? (Ge) Ausbildung Beratung Land-Hauswirtsch. 21(5):99-100. 1968. 18 N11
- 79559 MICHIGAN. STATE UNIVERSITY OF AGRICULTURE AND APPLIED SCIENCE. Farmer's Week, 1967, Jan. 30-Feb. 3. Lansing, 1967. 71 p. 276 M581Fa
- 79560 MIKOLAJCZYK, Z. Factors determining the activeness of UPP circle at the village of Baltow. (Pol) Wies Wspolczesna, Pismo Ruchu Ludowego 13(1):10-21. Jan.1968. HN536.W5  
English summary, p.4-5 of supplement.
- 79561 MONTANER ESTEVE, J. Industrialization in rural areas. (Sp) Cultiv. Mod. 41(3):58-59. Mar.1968. 15 C89
- 79562 NOLAN, J. B. An extension programme in western Kenya. Kenya Farmer 140:40-41. Mar.1968. 24 R812
- 79563 ODLAND, L. M. How a university works with developing countries. Nat. Seminar Workshop Home Econ. Res. Admin. Proc. 1967:76-78. TX5.N3  
Policies for research and teaching in rural development.
- 79564 OHLIGER, J. What happened to the Canadian Farm Radio Forum? Adult Educ. 18(3):176-187. Ref. Spring 1968. 275.8 Ad93
- 79565 PETZOLD, R. Professional agricultural schools for girls in Lower Austria. (Ge) Forderungsdienst 16(1):15-16. Jan.1968. 19 F75
- 79566 PODSIADLY, J. Peasant youth at the Maria Curie-Skłodowska University. (Pol) Wies Wspolczesna, Pismo Ruchu Ludowego 13(1):112-117. Jan.1968. HN536.W5
- 79567 REK, B., and WYBAWINSKI, M. The rural circle of the UPP [United Peasant Party] an attempt at a description of its functioning in the milieu. (Pol) Wies Wspolczesna, Pismo Ruchu Ludowego 12(2):3-13. Feb.1968. HN536.W5  
English summary, sup.,p.3.
- 79568 ROTHE, J. H. Localizing agricultural information. Ext. Serv. Rev. 39(6):4-5. June 1968. 1 Ex892Ex  
Texas Extension advisory services.
- 79569 ROY, M., and MAJUMDAR, A. K. Agricultural practices and village extension library. Rural India 31(2):69-70. Feb.1968. 281.28 R889
- 79570 ŠABEL, A. First state tests for the Higher Agricultural Technical Service [Gehobener Landwirtschaftstechnischer Dienst] in Baden Württemberg. (Ge) Ausbildung Beratung Land-Hauswirtsch. 21(4):74-75. Apr.1968. 18 N11
- 79571 SACHS, R. The Berlin "Seminar for Agricultural Development" in comparison with related institutions in Western Europe. (Ge) Z. Ausländische Landwirt. 7(1):107-118. Jan.1968. 281.8 Z32  
English summary.
- 79572 SCHIJEN, J. M. Development by district. (Du) Neth. Dir. Landbouw. Landbouwoorlichting 25(1):1-10. Jan.1968. 12 N383M  
Extension problems.
- 79573 SEUFFERLE, C. H. Enrollment and job opportunities in agriculture. Nev. Ranch Home Rev. 4(3):5-6. Spring 1968. 60.18 Sci2  
Higher education.
- 79574 SLABY, A. New approach to agricultural education. (Cz) Ekon. Zemedelstvi 7(2):36-37. 1968. 281.8 Ek7
- 79575 SOCHA, J. Peasant youth and the social structure of the body of students and superior schools in Lodz. (Pol) Wies Wspolczesna, Pismo Ruchu Ludowego 13(1):117-121. Jan. 1968. HN536.W5
- 79576 SROGA, A. Discussion on engineers in agricultural production. (Pol) Wies Wspolczesna, Pismo Ruchu Ludowego 12(2):60-66. Feb.1968. HN536.W5  
English summary, p.11 of supplement.  
Technicians with higher education.
- 79577 STARCK, H. G. The International Farm Youth Exchange with the USA. (Ge) Landesver. Gartenbau Landwirt. Berlin. Mitteilungsbl. 19(1):44-45. Jan.1968. 85 L233
- 79578 STOCKL, K. Highest level in number of pupils. (Ge) Ausbildung Beratung Land-Hauswirtsch. 21(5):89,92. 1968. 18 N11  
In agricultural schools.
- 79579 STOCKL, K. Ten years of training for the professional agricultural worker. (Ge) Ausbildung Beratung Land-Hauswirtsch. 21(1,spec.sup.):13-14. 1968. 18 N11
- 79580 STUTZER, D. Reform of agricultural extension. (Ge) Ausbildung Beratung Land-Hauswirtsch. 21(4):72-74. Apr.1968. 18 N11
- 79581 SUAREZ DE CASTRO, F. A new focus for agricultural extension. (Sp) Agr. Trop. 24(2):76-78. Feb.1968. 26 Ag8  
Colombia.
- 79582 SVOBODA, O. Some basic problems of agricultural higher education. (Cz) Veterinarstvi 17(1):39-40. 1967. 41.8 V6439
- 79583 SZARVAS, A. Why is a farm-medical service necessary in agriculture? (Hu) Gazdalkodas 12(1):61-63. 1968. 281.8 G25
- 79584 TRAWINSKA, M. Reading zones in rural areas. (Pol) Wies Wspolczesna, Pismo Ruchu Ludowego 13(1):51-63. Jan.1968. HN536.W5  
English summary, suppl.,p.13-14.
- 79585 TRONG-ANH. Implementing the three resolutions on women's activities in rural Ninh Binh. Joint Publ. Res. Serv. Transl. N. Vietnam 302:20-22. Jan.24,1968. (JPRS 44,138) DS557.A7J6  
Translation from Nhan Dan, Nov.30,1967:2.  
Issued by CFSTI.
- 79586 TURI-NAGYOVA, E., and GROFIK, R. Contribution to the problem of the graduate profile of the Operation-Economic Faculty of the University of Agriculture in Nitra in practice. (Cz) Pol'nohospodarstvo 14(1):62-69. 1968. 19.5 P752



- 79587 U. S. DEPT. OF AGRICULTURE. GRADUATE SCHOOL. Special programs, 1968-1969. Washington, 1968? 122 p. 1 Ag854E
- 79588 VINTINNER, F. J. A mobile rural health services program in Central America and Panama. Amer. J. Public Health Nat. Health 58(5): 907-914. May 1968. 449.9 Am3J
- 79589 VU OANH. Assignment of party members in the rural areas. Joint Publ. Res. Serv. Transl. N. Vietnam 314:56-59. Feb.26,1968. (JPRS 44,491) DS557.A7J6  
Translation from Nhan Dan, Jan.10,1968:2. Issued by CFSTI.
- 79590 WAGNER, H. Group advisory work—a way out of the blind alley? (Ge) Mitt. Deut. Landwirt.-Ges. 83(13):444-445. Mar.28,1968. 18 N39
- 79591 WEBER, P. Trends in practical professional education in the Federal territories. (Ge) Ausbildung Beratung Land- Hauswirtsch. 21 (1,spec.sup.):8-10. 1968. 18 N11
- 79592 WEIHS, L. Home extension in the conversion districts of Steiermark. (Ge) Forderungsdienst 16(1):17-19. Jan.1968. 19 F75
- 79593 WESSEL, R. I. Financing county government. Farm Policy Forum 20(1):18-22. 1967/68. 281.8 F2274
- 79594 WICK, E. Successful extension work through functional extension methods. (Ge) Ausbildung Beratung Land- Hauswirtsch. 21(1,spec.sup.): 3-8. 1968. 18 N11
- 79595 WYE COLLEGE. The report of the principal to the governing body for the year 1966-67. Ashford, Kent, 1968. 94 p. 103 W97R
- 79596 YI, C. P. The revolutionization of the peasants and their transformation into the working class. Joint Publ. Res. Serv. Transl. N. Korea 81:67-84. Apr.30,1968. (JPRS 45,204) DS901.T7  
Translation from Kulloja, Jan.30,1968:37-47. Issued by CFSTI.
- 79597 ZYTKO, M. Popular universities in the rural areas. (Pol) Wies Wspolczesna. Pismo Ruchu Ludowego 13(1):122-127. Jan.1968. HN536.W5
- 79604 NATIONAL 4-H CLUB FOUNDATION. Annual review; service to youth, 1967. Washington, D. C., 1967. 17 p. 275.29 N218A
- 79605 ORLEWICZ, T. General Peasant Union in Syria. (Pol) Wies Wspolczesna, Pismo Ruchu Ludowego 13(1):127-132. Jan.1968. HN536.W5
- 79606 ROYAL HIGHLAND AND AGRICULTURAL SOCIETY OF SCOTLAND. Transactions, sixth series, vol. IX. London, 1968. 255 p. 10 H536
- 79607 SVENSSON, N. A. Sweden's agricultural organizations must cooperate and coordinate. (Da) Dansk Landbrug 87(2):39-41. Feb.1968. 280.28 V91
- 79608 TEJCHMA, J. New goals for agricultural circles. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 645:1-8. May 10,1968. (JPRS 45,311) 173 J663Ste  
In Poland.  
Translation from Wies Wspolczesna, Mar. 1968:3-8.  
Issued by CFSTI.
- 79609 WAMPLER, K. W. You and tots. II. Va. Polytech. Inst. Ext. Circ. 1046,15 p. Oct.1967. 275.29 V81C  
Four-H Clubs; child care.

#### Cooperative Organizations

- 79610 AGRICULTURAL CO-OPERATIVE ASSOCIATION LIMITED. Eleventh annual report 1966-1967. London, 1968. 31 p. 280.29 Ag83
- 79611 BRIND, P. J. Labour organization and management in a co-operative. In Warley, T. K., ed. Agricultural producers and their markets, p.490-496. 1967. HD9000.1.W3  
Farmway Ltd.
- 79612 CHAMBLISS, R. L. Legal status of cooperative patronage distribution. Va. Polytech. Inst. Ext. Va. Farm Econ. 207:11-16. Mar./Apr. 1968. 275.29 V813
- 79613 CHATANAY, J. N. The reform of cooperation. (Fr) Inform. Agr. [Paris] 380:25-26. Apr. 1968. HD1945.A115
- 79614 COLLINGRIDGE, G. Public and member relations programmes in a large co-operative. In Warley, T. K., ed. Agricultural producers and their markets, p.496-504. 1967. HD9000.1.W3
- 79615 CORKE, N. C. E. The role of agricultural co-operative apex organization in the United Kingdom. In Warley, T. K., ed. Agricultural producers and their markets, p.573-577. 1967. HD9000.1.W3  
The Plunkett Foundation for Co-operative Studies, the Federation of Agricultural Co-operatives in Great Britain and Ireland, the Agricultural Central Co-operative Association, and the Agricultural Co-operative Managers' Association.
- 79616 EASTWOOD, T. W. R. Education in the agricultural co-operative movement. In Warley, T. K., ed. Agricultural producers and their markets, p.556-572. 1967. HD9000.1.W3
- 79617 FARMERS UNION CENTRAL EXCHANGE, INC. 1967 annual report. South Saint Paul, Minn., 1968. 19 p. 280.29 F2292
- 79618 LAND- UND FORSTWIRTSCHAFTLICHEN GENOSSENSCHAFTEN OBEROSTERREICHS. ANWALTSSCHAFT. Genossenschafts-Jahrbuch, 1968, 23. Folge [Cooperative yearbook 1968, No. 23]. Linz, 1968. 344 p. 280.29 L22
- 79619 LIPINSKY, E. E. Cooperation in French agriculture. (Ge) Diplomlandwirt 18(4):73-76. Apr.1968. 18 D62
- 79620 MACKENZIE, A. M. Co-operation by Scottish farmers. Scot. Dep. Agr. Fish. Scot. Agr. Econ. 18:128-132. 1968. 281.9 Sco3S  
Includes cooperative societies.
- 79621 MARSHALL, R. L. Education in the co-operative movement. In Warley, T. K., ed. Agricultural producers and their markets, p.544-555. 1967. HD9000.1.W3

#### Leadership

- 79598 HUIZINGA, B., and ASOPA, V. N. Give leadership to extension workers. (Du) Landbouwkundig Tijdschr. 80(4):174-179. Apr.1968. 105.2 Or3  
On communications and group processes in an organization.
- 79599 KIM, T. H. Superiority of the new agricultural leadership system. Joint Publ. Res. Serv. Transl. N. Korea 75:35-44. Mar.1,1968. (JPRS 44,558) DS901.T7  
Translation from Minuu Choson, Dec.22, 1967:2-3.  
Issued by CFSTI.
- 79600 PATTON, S. J. Leader's guide; 4-H demonstrations and illustrated talks. Va. Polytech. Inst. Ext. Circ. 1040,10 p. Oct.1967. 275.29 V81C

#### Rural Organizations and Movements

- 79601 KOZERA, J. Agricultural circles in the Proszowice district. (Pol) Wies Wspolczesna, Pismo Ruchu Ludowego 12(2):117-122. Feb. 1968. HN536.W5  
English summary, p.16 of supplement.
- 79602 MCAULIFFE, V. J. 4-H can reach more youth. Ext. Serv. Rev. 39(3/4):12-13. Mar./Apr.1968. 1 Ex892Ex  
Minnesota.
- 79603 MICHNA, W. Common tasks of rural housewives' circles and agricultural circles. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 614:19-29. Dec.12, 1967. (JPRS 43,688) 173 J663Ste  
In Poland.  
Translation from Wies Wspolczesna 11:65-72. Nov.1967.  
Issued by CFSTI.

- 79622 MILENKOVIC, P. The cooperation as a factor of either transformation or stabilization of family farms. (Se) Ekon. Poljoprivrede 15(4):235-240. Apr.1968. 281.8 Ek72
- 79623 MINER, B. D. Co-op knowledge travels people to people. News Farmer Coop. 35(3):17. June 1968. 166.2 N47  
Teaching in Brazil.
- 79624 MORLEY, J. A. E. A.C.C.A. [Agricultural Central Co-operative Association]—study of a central co-operative association. In Warley, T. K., ed. Agricultural producers and their markets, p.578-588. 1967. HD9000.1.W3
- 79625 NEW SOUTH WALES. REGISTRY OF CO-OPERATIVE SOCIETIES. Report for the year ended 30th June, 1967. Sydney, 1968. 25 p. 280.29 N47
- 79626 RADOVANOVIC, B. The cooperation in fruit production in Serbia. (Se) Ekon. Poljoprivrede 15(1/2):65-73. Jan./Feb.1968. 281.8 Ek72
- 79627 STANTON, B. E. [Inca] Indians use co-op idea to move up. News Farmer Coop. 35(3):14-16, 21-22. June 1968. 166.2 N47  
Peru.
- 79628 SURRIDGE, B. J. The role of co-operative apex organizations overseas. In Warley, T. K., ed. Agricultural producers and their markets, p.589-596. 1967. HD9000.1.W3  
Structure and management.
- 79629 SWANSON, B. L. Cooperative business growth continues. News Farmer Coop. 35(3):6-7, 24-25. June 1968. 166.2 N47
- 79630 TOKHEIM, R. Western Farmers Assn. becomes more food firm, less traditional co-op. Feedstuffs 40(21):36-38, 40, 42, 116-118. May 25, 1968. 286.81 F322
- 79631 VERBAND OSTSCHWEIZERISCHER LANDWIRTSCHAFTLICHER GENOSSENSCHAFTEN. 81. Jahresbericht 1967 [81st annual report, 1967]. Winterthur, 1968. 48 p. 280.29 V58J
- 79632 VOORHIS, J. Market-place muscle—is it for real? Coop. Dig. Farm Power 28(9):6-7. Dec. 1967. 280.28 C7896  
Cooperation policy.

## RURAL SOCIAL PSYCHOLOGY

- 79633 BATALLA, A. Humor and the countryside. (Sp) Cultiv. Mod. 51(2):57-59. Feb.1968. 15 C89
- 79634 FINLEY, J. R. Farm practice adoption: a predictive model Rural Sociology 33(1):5-18. Mar.1968. 281.28 R88
- 79635 FISHER, S., and others. Television and the child. Minn. Univ. Ext. Bull. 321:8-2 p. Mar.1968. 275.29 M66S  
R. Pitzer, N. Gallagher, and C. Fredrickson, joint authors.  
Psychological impact.
- 79636 HOBBS, D. J., and WARRACK, A. A. Summary of research on the relation of goals, values and attitudes to farm management performance. Minn. Agr. Exp. Sta. Tech. Bull. 258:17-26. Ref. Mar.1968. 100 M66
- 79637 KURTZ, N. R. Gatekeepers: agents in acculturation. Rural Sociology 33(1):64-70. Mar. 1968. 281.28 R88  
Helpers in adjusting Spanish surnamed population to urban life.
- 79638 LEWIS, D. M. The perception of entrepreneurial prestige by rural Japanese boys. Rural Sociology 33(1):71-79. Ref. Mar.1968. 281.28 R88
- 79639 MENGES, L. J. Human association. (Du) Neth. Dir. Landbouw. Landbouwvoorlichting 25(5):208-211, 233. May 1968. 12 N383M  
Psychology.
- 79640 OBERTO, G. The mountain and man. (Fr) Chambres Agr. 39(381,sup.):3-4. Feb.1, 1968. 14 T69

- 79641 WILKENING, E. A., and BHARADWAJ, L. K. Aspirations and task involvement as related to decision-making among farm husbands and wives. Rural Sociology 33(1):30-45. Mar.1968. 281.28 R88

## TRADE, FOREIGN AND INTERNATIONAL

- 79642 ABEL, M. E. Wheat in world of tomorrow. Grain Age 9(5):19-20. May 1968. 281.8 G76  
Chiefly U. S. exports.
- 79643 THE AFRICAN and Malgache market. Ed. 7. (Fr) Marches Trop. Mediter. 24(1168):779-978. Mar.30, 1968. 286.8 M33  
Food and agricultural products and equipment included.
- 79644 ARLITT, M. Stone fruit imports of the German Federal Republic from countries of the southern hemisphere. (Ge) Fruchthandel 2:45-46. (Cont.) Jan.12, 1968. 286.83 F9428
- 79645 ARLITT, M. Stone fruit imports of the German Federal Republic from countries of the southern hemisphere. (Ge) Fruchthandel 6:219-226. (Cont.) Feb.9, 1968. 286.83 F9428
- 79646 AZORES pineapples. Int. Fruit World 27(1):203, 205. Spring 1968. 286.83 F9426  
Text also in French and German.  
Exports to Europe.
- 79647 BELGIUM. AMBASSADE, WASHINGTON, D. C. Le marche des Etats-Unis d'Amerique; vademecum a l'usage des exportateurs belges [The market of the United States; vademecum for the use of Belgian exporters]. Inform. Com. Extérieur. Suppl. Ser. C 2,220 p., map. Mar. 1968. 286.8 In36
- 79648 BLACKMORE, H. S. New Zealand's advantage as a dairy exporter in the new era of export thrust and initiative. Service [New Plymouth], Autumn 1968:13-15. 385 Se6
- 79649 BOULWARE, J. H. Uncertain prospects for Indian tea trade in 1968. Foreign Agr. 6(21):10. May 20, 1968. A281.9 F76Fo
- 79650 BRANHAM, M. A. EEC-African association up for renewal. Foreign Agr. 6(22):4. May 27, 1968. A281.9 F76Fo  
Trade and aid for rural development in Africa.
- 79651 CALLAGHAN, A. R. Changing overseas markets for wheat and their requirements. Farmer's Sci. Joint Conf. [Proc.], 7th Conf.:7-16. 1967. 27 F22  
Includes discussion.  
Australia.
- 79652 CANADA. BOARD OF GRAIN-COMMISSIONERS. Grain trade of Canada, 1965-66. Ottawa, 1967. 127 p. 59.9 C164  
Chiefly statistics.
- 79653 CANZIANI, P. The trade in beef within the limits of the European Economic Community: the Community regulation. (It) Clin. Vet. 90(11):483-495. Nov.1967. 41.8 C61  
Includes Italian text of the regulation.
- 79654 CARENSO, J. P. Competition and publicity. (Fr) Inform. Agr. [Paris] 380:35. Apr.1968. HD1945.A115  
On the world market.
- 79655 COATSWORTH, E. S. Coffee imports highest ever. Can. Food Indus. 39(5):39-41. May 1968. 286.83 C166  
Includes tea promotion.
- 79656 DAHLGREN, A. B. C. Big export of frozen broilers to Great Britain. (Da) Danske Dyr-laegefor. Medlemsbl. 50(21):977-980. Nov.1, 1967. 41.9 D23  
With special reference to quality.
- 79657 DAVIS, A. C. W. Pulp and paper in South Africa—is there a market for Canada? Foreign Trade 129(12):15-17. June 8, 1968. 286.8 C162
- 79658 DEBLOIS, E. N. Lower commercial exports cause moderate decline in U.S. agricultural exports in 1967. Foreign Agr. Trade U. S., June 1968:16-33. A286.9 Ag8



- 79659 DUNAWAY, J. W. South Americans export petroleum but import oil! Soybean Dig. 28(8):48-51. May 1968. 60.38 So9  
Vegetable oils.
- 79660 ECUADOR, the world's leading supplier of bananas. Int. Fruit World 27(1):360,363,365-366, 369,371,373,375-376. Spring 1968. 286.83 F9426  
Text also in German and Spanish.
- 79661 THE EFFECT of devaluation on Spanish exports. Int. Fruit World 27(1):117-118,121-122, 125. Spring 1968. 286.83 F9426  
Text also in German and Spanish.  
Fruit exports.
- 79662 EFFECT of the EEC customs union on the international fruit trade. Int. Fruit World 27(1):40, 43-44,47-48,51-52,55-56,59. Spring 1968. 286.83 F9426  
Text also in French and German.
- 79663 ETHIOPIA. CUSTOMS HEAD OFF. STATISTICS DEPT. Annual import and export trade statistics, 1966. Addis Ababa, 1967. 263 p. 270 Et32Im
- 79664 FIFTY i.e. pyat'desyat let Sovetskoi vneshnei torgovli [Fifty years of Soviet trade]. Moskva, Mezhdunarodnye otnosheniya, 1967. 320 p. Ref. HF3626.P5  
Includes agricultural products.
- 79665 FINLAND. TILASTOLLINEN PAATOIMISTO. Ulkomaankauppa; vuosisijulkaisu. Osa II. Foreign trade. Volume II, 1966. Helsinki, 1968. 139 p. 267.5 B47H
- 79666 FLUSS, F. F. Record level of USA tobacco imports. Tabak-J. Int. 2:100. Apr.20,1968. 286.89 T117
- 79667 FREEMAN, O. L. Special mission to Asia works for expanded trade. Foreign Agr. 6(21): 11. May 20,1968. A281.9 F76Fo
- 79668 GIBSON, J. E. G. How Australia is selling dairy products. Foreign Trade 129(8):22-23. Apr.13,1968. 286.8 C162  
Trade.
- 79669 GUNNIS, L. F. New markets for dairy products; history-export regulations/product standards. Farmer's Sci. Joint Conf. [Proc.], 7th Conf.:76-80. 1967. 27 F22  
Includes discussion.  
Australia.
- 79670 HALE, S. L. The world cocoa market. In Warley, T. K., ed. Agricultural producers and their markets, p.136-148. 1967. HD9000.6.A35 Cacao.
- 79671 HARTOG, H. International marketing of consumer goods. Svensk Kem. Tidskr. 80(3):94-97. 1968. 385 Sv22  
Includes frozen food.
- 79672 HEMP, R. J., and SCHMIDT, S. C. Prospects for United States wheat exports to the Soviet bloc. Ill. Agr. Econ. 8(1):26-39. Ref. Jan. 1968. 281.9 IL61
- 79673 HOW DEVALUATION effects Britain. Int. Fruit World 27(1):92,95-96,99. Spring 1968. 286.83 F9426  
Text also in French and German.  
Influence on the fruit and vegetable trade.
- 79674 HUME, D. L. British grain trade shows divergent trends. Foreign Agr. 6(26):9. June 24, 1968. A281.9 F76Fo
- 79675 IOANES, R. A. Soybean products, major elements in U.S. export trade. Soybean Dig. 28(8): 14-16. May 1968. 60.38 So9
- 79676 ITALIAN orange exports. Int. Fruit World 27(1):100,103,105-106,109. Spring 1968. 286.83 F9426  
Text also in French and German.
- 79677 JAPAN. MINISTRY OF INTERNATIONAL TRADE AND INDUSTRY. Foreign trade of Japan, 1967. Tokyo, Japan External Trade Organization, 1968. 190 p. 269.7 J2797F
- 79678 JONES-PARRY, E. Notes on an International Sugar Agreement. Sugar Club. Annu. 6:73-79. 1967. 286.3659 Su3
- 79679 KAHL, L. Direct international tariffs for transportation of merchandise by railroad. (Fr) Chambres Agr. 39(382,sup.):9-12. Feb. 15,1968. 14 T69
- 79680 KAPNEMPORIKE HOMOSPONDIA TES HEL-LADOS. The Greek and international tobacco market. (Gre) Kapnike Epitheoresis 22(254): 5480-5482,5491. Jan.1968. 69.8 K14  
Trade and policies.
- 79681 KRASON, W. S. Expansion of farm output offers mutual benefits for Pakistan, U.S. Int. Com. 74(16):21-23. Apr.15,1968. 157.54 F763
- 79682 KRAUTHOFF, L. C. Where we stand in the Kennedy Round. Sugar Club. Annu. 6:37-41. 1967. 286.3659 Su3
- 79683 KROGER, A. The asparagus market becomes more difficult. (Ge) Indus. Obst-Gemüseverwertung 53(8):223-224. Apr.18,1968. 389.8 K832  
Trade in the E.E.C.
- 79684 KRUER, G. Payments problem; agriculture helps to restore a balance. Agr. Situation [Washington] 52(5):6-7. May 1968. 1 Ec7Ag  
Trade.
- 79685 KRUGER, H. J. P. L. International commodity agreements with special reference to recent developments and future possibilities. Agrekon 7(1):10-15. Jan.1968. 281.8 Ag835
- 79686 LEWIS, S. R. Effects of trade policy on domestic relative prices: Pakistan, 1951-64. Amer. Econ. Rev. 58(1):60-78. Ref. Mar.1968. 280.8 Am32
- 79687 MAGDANZ, D. Adm'n aims big guns on import hearings. Livestock Feeder 15(3):8,17. Nov.1967. 49 L759  
Of meat.
- 79688 MASRIERA, J. Statistics, economics, and agriculture. (Sp) Cultiv. Mod. 51(4):61-62. Apr. 1968. 15 C89  
Trade.
- 79689 MCGUIRE, E. V. World rapeseed output hits record in 1967. Foreign Agr. 6(16):5-6. Apr.15,1968. A281.9 F76Fo  
Trade.
- 79690 MINNEMAN, P. G. Competition growing for German market. Foreign Agr. 6(26):7-8. June 24,1968. A281.9 F76Fo  
Effects on imports from U. S.
- 79691 MINNEMAN, P. G. Federal Republic [of Germany] a major buyer of U.S. agricultural products. Int. Commer. 74(15):31-32. Apr.8,1968. 157.54 F763
- 79692 MOTTARD, G. International trade in grape stocks and plants; sanitary and varietal selection; national and international guarantees. (Fr) Office Int. Vigne Vin. Bull. 41(444):172-191. Feb.1968. 390.8 B87  
French report presented at the joint meeting of Commissions I and III of the O.I.V. held at Mainz, September 4-11, 1967.
- 79693 NIKSIC, M. The method of improvement of the export of agricultural and food products. (Se) Glasnik 12(3):3-7. 1968. 280.28 Z13
- 79694 NORTON, J. P. New markets for dairy products. Farmer's Sci. Joint Conf. [Proc.], 7th Conf.:72-75. 1967. 27 F22  
Foreign markets for Australia.  
Includes discussion.
- 79695 PALMBY, C. D. A look at the U.S. position in world grain trade. Foreign Agr. 6(19):11. May 6,1968. A281.9 F76Fo
- 79696 PARLJEZ, R. A contribution to the analysis of markets of livestock products with regard to the effect of economic reform. (Se) Poljoprivredni Pregl. 16(1/2):31-54. Jan./Feb.1968. 21.5 P753
- 79697 PATT, J. Mandarin export prospects. (He) Agr. Israel 13(6/7):43-49. Mar./Apr.1968. 22.5 Ag825
- 79698 PATTY, G. E. U.S. honey sales lag on world market. Foreign Agr. 6(21):6-7. May 20,1968. A281.9 F76Fo

- 79699 PORTUGAL. INSTITUTO NACIONAL DE ESTADISTICA. Comercio externo, continente e ilhas adjacentes. Volume II. Comercio por paises, territorios e mercadorias, 1966 [Foreign trade, continent and adjacent islands. Volume II. Trade by countries, territories, and commodities, 1966]. Porto, 1967. 570 p. 264 F492
- 79700 RAKIC, B. The balance of liberalized trade. (Se) Glasnik 12(3):13-19. 1968. 280.28 Z13
- 79701 RANDOLPH, C. Soybean sales expand rapidly in Taiwan. Soybean Dig. 28(8):39. May 1968. 60.38 So9
- 79702 RICHARZ, W. Organization and operation of the European Communities. (Ge) Ausbildung Beratung Land- Hauswirtsch. 21(4):69-72. Apr.1968. 18 N11
- 79703 RICHTER, J. Some upward trend in export outlook. Soybean Dig. 28(8):70-71. May 1968. 60.38 So9
- 79704 ROJKO, A. S. World food demand—what's ahead for U.S. food exports? Iowa. State Univ. Sci. Technol. Cent. Agr. Econ. Develop. CAED Rep. 31:95-117. 1968. 281.9 Io93
- 79705 THE ROLE played by pineapples in international trade in tropical fruits. Int. Fruit World 27(1):341-342, 345-346, 349, 351-352, 355-356, 359. Spring 1968. 286.83 F9426  
Text also in French and German.
- 79706 ROOSENSCHOON, C. F. Denmark's ordeal—as seen by an outsider. (Da) Nord. Mejeri-Tidsskr. 33(11/12):213-215. 1967. 44.8 N752  
English summary.  
Currency devaluation and its effect on trade.
- 79707 ROSEN, M. Coffee West, USA: in defense of ICA dissenters. World Coffee Tea 9(1):51-52. May 1968. 286.83 W89
- 79708 ROWAN, W. S. Chile's market for red meat outpaces production. Foreign Agr. 6(19):10. May 6, 1968. A281.9 F76Fo
- 79709 ROWAN, W. S. U.S. [Polled] Herefords arrive at Chilean ranches. Foreign Agr. 6(23):12-13. June 3, 1968. A281.9 F76Fo
- 79710 RUEGG, W. Considerations on EEC trade policy within the framework of international commodity exchange. (Ge) Schweiz. Milchzeitung 94(11):77. Feb.6, 1968. 44.8 Sch92
- 79711 RUNGE, SIR P. The implications of agricultural planning. Sugar Club. Annu. 6:43-48. 1967. 286.3659 Su3  
With special reference to sugar trade.
- 79712 SAWYERS, S. The Japanese market development program; our program depends on the Japanese homemaker. Soybean Dig. 28(8):28-30. May 1968. 60.38 So9
- 79713 SCHELHAAS, H. American provision of dairy products to developing countries. (Du) Ned. Zuivelbond. Offic. Orgaan 60(20):538-541. May 15, 1968. 44.9 AL3  
Under Public Law 480.
- 79714 SHIRAKAWA, K. Shihon shugi hatten to kokusai boeki [International trade and the development of capitalism]. Tokyo, 1968. 469 p. (Tokyo. National Research Institute. Kenkyu Sosho No. No.81) 22.5 T573R  
Agricultural products.
- 79715 SIEGEL, O. Foreign trade in potatoes in the OECD area. (Ge) Kartoffelbau 19(2):31-32. Feb.1968. 75.8 K145
- 79716 SIEGEL, O. Fruit exports of the OECD area. (Ge) Indus. Obst-Gemüseverwertung 53(8):225-227. Apr.18, 1968. 389.8 K832
- 79717 STOECKEL, R. Swine and exports. (Fr) PRO-VIMI (Proteines, Vitamines, Mineraux) Inform. 52:7. Feb.1968. 389.78 P942
- 79718 THASSITIS, B. Greek burley export 1967. Tabak-J. Int. 1:17. Feb.20, 1968. 286.89 T117  
Text also in German, p.16-17.
- 79719 THOMAS, R. P. The sugar colonies of the Old Empire: profit or loss for Great Britain? Econ. Hist. Rev. (ser.2)21(1):30-45. Apr.1968. 277.8 Ec7
- 79720 TURKEY. DEVLET ISTATISTIK ENSTITUSU. Dis ticaret yıllık istatistik. Seri: 1. Ozel ticaret; madde ve memleketler itibariyle ithalat ve ihracat [Annual statistics of foreign trade. Series: 1. Special trade; imports and exports by commodities and countries], 1965-1966. Ankara, 1968. 650 p. 269.9 St2
- 79721 UNITED NATIONS. ECONOMIC COMMISSION FOR EUROPE. Agricultural trade in Europe; recent developments (prepared in 1967); the United Kingdom's foreign trade in food; fruit juices. New York, 1968. (ST/ECE/AGRI) 161 p. 281.9 Un39
- 79722 U.S.S.R. MINISTERSTVO VNESHNEI TORGOVLI. PLANOVO-EKONOMICHESKOE UPRAVLENIE. Vneshnyaya torgovlya SSSR; statisticheskii sbornik, 1918-1966 [Foreign trade of the USSR; a statistical handbook, 1918-1966]. Moskva, Mezhdunarodnye Otnosheniya, 1967. 241 p. Folio HF3621.A55 1967  
Includes agricultural products.
- 79723 WARD, J. J. The market in France for soybeans and soy products. Soybean Dig. 28(8):22-23. May 1968. 60.38 So9
- 79724 WERNER, K. Gains in West German corn production not likely to reduce feedgrain imports. Foreign Agr. 6(14):12. Apr.1, 1968. A281.9 F76Fo
- 79725 WEST Germany a true "Common Market" for all exporting countries. Int. Fruit World 27(1):251-252, 255-256, 259, 261-262, 265-266, 269, 271-272, 275, 277. Spring 1968. 286.83 F9426  
Text also in French and German.  
Fruit and vegetables.
- 79726 WETZSTEIN, E. Export of German Spotted cattle. (Ge) Tierzuchter 20(5):152-153. Mar.5, 1968. 49 T445
- 79727 WILSON, J. R. Canadian fir plywood in Britain. Wood [London] 33(3):39-40. Mar.1968. 99.82 W855
- 79728 WOODARD, A. U.S. Western Hemisphere farm trade dips. Foreign Agr. 6(21):8-10. May 20, 1968. A281.9 F76Fo
- 79729 WORK, S. H. Thailand—growing market for U.S. farmers. Foreign Agr. 6(22):2-3. May 27, 1968. A281.9 F76Fo



**AGRICULTURAL PRODUCTS: PROCESSING,  
DISTRIBUTION, AND STATISTICS**

**GENERAL**

- 79730 **ALTERNATIVES** for balancing world food production and needs. Ames, Iowa State University Press, 1967. 273 p. HD9000.1.A4  
Report of a conference sponsored by the Iowa State University Center for Agricultural and Economic Development.
- 79731 **BOCKELMANN, H. VON.** Hunger—world power of tomorrow? (Ge) Mitt. Deut. Landwirt.-Ges. 83(12):381-382,402. Mar.21,1968. 18 N39
- 79732 **BROWN, L. R.** The world food/population problem: an overview. Alternatives Balancing World Food Prod. Needs. Rep. 1967:3-18. HD9000.1.A4
- 79733 **CASTRO, J. R.** Population policy and development. Americas 20(4):8-13. Apr.1968. 150.9 Am34  
Includes the food problem.
- 79734 **CHIMEGJANDANTSAN, J., and DONDOG, C.** Supply of agricultural products. U. S. Joint Publ. Res. Serv. Transl. Mongolia 161:15-18. May 16,1968. (JPRS 45,409) 173 J663Tmo  
Food policy.  
Translation from Unen, Nov.24,1967:2-3. Issued by CFSTI.
- 79735 **FRANKEL, SIR O.** The world's food in the coming decades. Farmer's Sci. Joint Conf. [Proc.], 7th Conf.:25-31. 1967. 27 F22  
Includes discussion.
- 79736 **GARVER, W. B.** World hunger and American agriculture. Amer. Soc. Farm. Managers Rural Appraisers. J. 32(1):20-31. Apr.1968. 281.8 Am32  
The problem of population and food supply and possible remedies.
- 79737 **GINDERTAEL, J. M. VAN.** Longer life—less sickness. UNESCO Cour. 21:5-8. Mar.1968. 280.8 Un393  
Includes the problem of population and food supply.
- 79738 **GROSCHNER, P., and SCHARSICH, D.** On the centralized preparation of food and the development of the vertical cooperation in the complex Gesellschaftliche Speisewirtschaft [Communal food preparation] Halle-Neustadt. (Ge) Deut. Gartenbau 15(1):18-22. Jan.1968. 80 G1948
- 79739 **HASELDEN, K.** The social and ethical setting of the world food situation. Alternatives Balancing World Food Prod. Needs. Rep. 1967:19-34. HD9000.1.A4
- 79740 **HEADY, E. O., and TIMMONS, J. F.** Objectives, achievements, and hazards of the U.S. food aid and agricultural development programs in relation to domestic policy. Alternatives Balancing World Food Prod. Needs. Rep. 1967:186-214. Ref. HD9000.1.A4  
Includes the population and food supply problem.
- 79741 **HEGEDUS, M.** The concentration of the food industries in several European countries and in Hungary. (Hu) Elelmezési Ipar 22(2):53-59. Feb.1968. 290.9 M57  
English summary.
- 79742 **HUMPHREY, H. H.** War on hunger. Lime-stone 5(15):10-13,52-53. Spring 1968. 294.8 L62
- 79743 **ISHII, K.** Food production plan in west Java. (Ja) Agr. Asia 5(12):10-19. Dec.1967. 22.5 Aj5  
Includes discussion by H. Tasugi, A. Kawada, S. Yasuda, K. Tokuyasu, and M. Kamijo.
- 79744 **JAWORSKI, P.** Foreign cooperation program of the Ministry of Food and Procurement [Ministerstwo Przemysłu Spożywczego i Skupu]. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 622:16-19. Jan.31,1968. (JPRS 44,201) 173 J663Ste  
Translation from Przemysł Spożywczy 10:28-29. Oct.1967.  
Issued by CFSTI.
- 79745 **KATHE, R. L.** Alfalfa as a potential source of human protein and ruminant feed. Feeds Illus. 19(3):19. Mar.1968. 389.78 F326
- 79746 **KLIMES, S.** The long-term development of Czechoslovak plant production. (Cz) Uroda 16(5):161-162. May 1968. 64.8 Z12  
Field crops.
- 79747 **KUMAR, P.** Population growth and food availability in India. Rural India 31(2):71-78. Feb. 1968. 281.28 R889
- 79748 **LATIMER, G. B.** Protein direct from grass may help to solve world food shortage. New Zeal. J. Agr. 116(5):78-79,81,83. May 1968. 23 N48J
- 79749 **LONG, E. J.** Altering the variables of the food supply-demand situation. Alternatives Balancing World Food Prod. Needs. Rep. 1967:159-171. HD9000.1.A4  
Developing areas.
- 79750 **LUBKE, H.** Food problems of our time. (Ge) Molk-Zeitung Welt Milch 22(15):425-426. Apr.21,1968. 44.8 M735  
In relation to population.
- 79751 **LUBKE, H.** Nutritional problems of our time. (Ge) Deut. Molk.-Zeitung 89(15):559-562. Apr.11,1968. 44.8 Su2  
Population and food supply.
- 79752 **MOSEMAN, A. H.** World food prospects and potentials: a short-run look. Alternatives Balancing World Food Prod. Needs. Rep. 1967:86-97. HD9000.1.A4
- 79753 **NGO-DUY-DONG.** Thai Binh to provide food and build up local industry. Joint Publ. Res. Serv. Transl. N. Vietnam 309:24-26. Feb.8, 1968. (JPRS 44,289) DS557.A7J6  
Farm products.  
Translation from Nhan Dan, Jan.4,1968:2. Issued by CFSTI.
- 79755 **ODELL, A. D.** The role of protein formulation processes in meeting the food needs of developing countries. Alternatives Balancing World Food Prod. Needs. Rep. 1967:134-144. HD9000.1.A4
- 79756 **O'HAGAN, J. P., and LEHTI, T.** Some economic and policy problems of food aid. Food Agr. Organ. U. N. Mon. Bull. Agr. Econ. Statist. 17(2):1-12. Feb.1968. 251 F73Mb
- 79757 **PANEL discussion:** Optimal strategies for balancing future world food production and needs. Alternatives Balancing World Food Prod. Needs. Rep. 1967:243-266. HD9000.1.A4  
D. R. Kaldor, moderator; D. Paarlberg, L. M. Thompson, W. E. Ogg, and G. S. Maryanov, panel members.
- 79758 **PAUL, P.** Product development and food quality. Nat. Seminar Workshop Home Econ. Res. Admin. Proc. 1967:60-65. TX5.N3  
Research.
- 79759 **PHAN-QUANG.** Problems and progress in food supply. Joint Publ. Res. Serv. Transl. N. Vietnam 301:8-14. (JPRS 44,113) DS557.A7J6  
Translation from Nhan Dan, Dec.1,1967:2. Issued by CFSTI.
- 79760 **RAYMOND, G.** The economic sector of food industry. (Fr) Quebec Lait. Aliment. 27(1):8-9. Jan.1968. 44.8 Q3
- 79761 **REISER, R.** The complementary functions of the American Association of Cereal Chemists and the American Oil Chemists' Society in feeding the world in the 21st century. Amer. Oil Chem. Soc. J. 45(5):272A. May 1968. 307.8 J82
- 79762 **SCHMIEDEL, E.** The ever-ready supply—the modern food industry. (Ge) Ernähr. Lehre Praxis 2:5-8. In Ernähr.-Umsch. 15(2). Feb. 1968. 389.8 Er66
- 79763 **SCHULTZ, T. W.** U. S. malinvestments in food for the world. Alternatives Balancing World Food Prod. Needs. Rep. 1967:224-242. Ref. HD9000.1.A4  
Includes economic policy of developing countries.

- 79764 SCHWEIGERT, B. S. Recent developments in food science. *Amer. Diet. Ass. J.* 52(6):471-474. June 1968. 389.8 Am34  
Includes processing.
- 79765 SEBRELL, W. H., and HAGGERTY, J. J. Food and nutrition. New York, Time, 1967. 200 p., map. Ref. (Life Science Library) TX353.S4  
Includes food habits, agricultural production, food processing and storage, vitamins, and population and food supply.
- 79766 SHUKLA, B. D. Problem of food in India. *Rural India* 31(2):23-26. Feb. 1968. 281.28 R889
- 79767 SUBRAMANIAN, S. R., and MEENAKSHISUNDARAM, V. Population and food supply of India. *Rural India* 31(2):5-8. Feb. 1968. 281.28 R889
- 79768 THOMPSON, K. W. The national interest and responsibility of the United States in relation to world food needs. *Alternatives Balancing World Food Prod. Needs. Rep.* 1967:172-185. HD9000.1.A4
- 79769 TWEETEN, L. G. Objectives and goals for farm commodity programs after 1969. Iowa. State Univ. Sci. Technol. Cent. Agr. Econ. Develop. CAED Rep. 31:149-174. 1968. 281.9 Io93  
For food and fiber production.
- 79770 UNITED NATIONS. ECONOMIC COMMISSION FOR EUROPE. Review of the agricultural situation in Europe at the end of 1967. Volume I-II. New York, 1968. (ST/ECE/AGRI/29) 281.9 Un39  
Volume I, General survey, grain, livestock and meat; vol. II, Dairy products and eggs.
- 79771 VAN DRESS, M., and FREUND, W. Dimensions of the food service industry. U. S. D. A. Econ. Res. Serv. MTS-169:11-14. May 1968. 1.941 M8M34
- 79772 YATSENKO, P. Coordinating food output and consumption in Kazakhstan. U. S. Joint Publ. Res. Serv. Transl. USSR Consum. Goods Dom. Trade 214:1-14. Dec. 6, 1967. (JPRS 43,605) 173 J663Tro  
Translation from Narodnoe Khozyaistvo Kazakhstana 9:28-32. Sept. 1967.  
Issued by CFSTI.
- ANALYSIS AND COMPOSITION
- 79773 ADAMIC, K. ESR study of free radical transformation in gamma-irradiated starch. *Starke* 20(1):3-5. Jan. 1968. 309 St22
- 79774 ADAMOVIC, V. M. A method for the half-quantitative determination of small amounts of organic chlorine pesticides by aromatic amides with aid of the ring oven technique. (Ge) *Mikrochim. Acta* 3:534-537. 1968. 384 M58  
English summary.  
Determination of toxaphene residues in plants and other products.
- 79775 AJMAL, M. Clostridium botulinum type E: growth and toxin production in food. *J. Appl. Bacteriol.* 31(1):121-133. Ref. Mar. 1968. 448.39 So12
- 79776 AZUMA, K. Jikken shokuhin kagaku [Experimental food chemistry]. Tokyo, Nogyo Tosho K. K., 1967. 221 p. TX545.A9
- 79777 BAKER, R. E., and MACMASTERS, M. M. Coacervation of starch. V. Electrophoresis of starch coacervates. *Starke* 20(1):11-16. Jan. 1968. 309 St22
- 79778 BAKUNIAK, E., KROCZYNSKI, J., and LASKA, P. Biological methods for determining insecticide residues by means of *Drosophila melanogaster* Meig. (Cz) *Agrochimia [Bratislava]* 8(3):89-92. Ref. 1968. 385 Ag88  
English summary, p. 3.  
In plant material.
- 79779 BIERL, B. A., BEROZA, M., and RUTH, J. M. Collection and transfer device for gas chromatographic fractions. *J. Gas Chromatogr.* 6:286-291. May 1968. 381 J8225
- 79780 BLINC, M., and STUCIN, D. Observations on starch films. (Ge) *Starke* 20(3):69-74. Ref. Mar. 1968. 309 St22  
English summary.  
Used as sizing.
- 79781 BONETTI, M. T. The chemical composition of foods is an essential condition for the formulation of diets. (It) *Indus. Aliment.* 7(2):97-99. Feb. 1968. HD9000.1.152
- 79782 BRAND, B. G., and others. Selection of starch derivatives for emulsion paints. *J. Paint Technol.* 40(519):164-173. Apr. 1968. 306.9 F31  
D. A. Berry, W. Mirick, and C. L. Mehlretter, joint authors.
- 79783 BROIDO, A. On the Chatterjee method of obtaining kinetic parameters from thermogravimetric traces. *J. Polymer Sci. Part B, Polymer Lett.* 6(5):349-351. May 1968. 381 J829L
- 79784 CERMA, E., and others. Applications of chromatographic methods in the analysis of food product constituents. (It) *Rass. Chim.* 20(1):23-33. Jan./Feb. 1968. 385 R18  
G. Gruni, L. Coassini Lokar, and G. Pertoldi Marletta, joint authors.  
Review of the literature.
- 79785 CIRUNA, I. K., ARMSTRONG, I. L., and MCLAREN, B. A. Determination of magnesium in food and human blood. *Can. Diet. Ass. J.* 29(1):18-23. Ref. Mar. 1968. 389.9 C1632
- 79786 CYRAN, W. Outline of an educational and testing regulation for food chemists. (Ge) *Deut. Lebensm.-Rundsch.* 64(3):78-85. Mar. 1968. 389.8 D482
- 79787 FOSTER, E. M. Microbial problems in today's foods. *Amer. Diet. Ass. J.* 52(1):485-489. June 1968. 389.8 Am34  
With reference to food poisoning.
- 79788 FUJII, S., and HOSOGAI, Y. Shokuhin kako shirizu. 12. Shokuhin eisei no kagaku [Food processing series. 12. Chemistry for food hygiene]. Tokyo, Koseisha-Koseikau, 1967. 488 p. 389 Sh82
- 79789 FURUTANI, S., and OSAJIMA, Y. Study of trace elements in food. 2. Determination of trace amounts of arsenic by high frequency polarography. (Ja) *Agr. Chem. Soc. Jap. J.* 41(4):145-153. Ref. 1967. 385 Ag8  
English summary.
- 79790 GILLESPIE, T. G., and THORPE, R. H. Occurrence and significance of thermophiles in canned foods. *J. Appl. Bacteriol.* 31(1):59-65. Ref. Mar. 1968. 448.39 So12  
*Bacillus stearothermophilus*, *Clostridium thermosaccharolyticum* and *C. nigrificans*.
- 79791 HANKIN, L. In refrigerated foods quick test reveals contamination by "cold-loving" bacteria. *Frontiers Plant Sci. [Conn. Sta.]* 20(2):3. May 1968. 100 F92
- 79792 HANNA, J. G. The 68th report on food products, 1963. *Conn. Agr. Exp. Sta. Bull.* 688, 79 p. Apr. 1968. 100 C76St  
Analysis and inspection.
- 79793 HANNA, J. G. The 69th report on food products, 1964. *Conn. Agr. Exp. Sta. Bull.* 689, 104 p. Apr. 1968. 100 C76St  
Analysis and inspection.
- 79794 HAYASHI, J., and KITAMURA, M. Saishin shokuhin kagaku [Modern food chemistry]. Tokyo, Ishiyaku Shuppan, 1967. 246 p. TX545.H3
- 79795 IENISTEA, C. Bacteriological tests in the determination of food products. (Rum) *Microbiol. Parazitol. Epidemiol.* 13(2):97-102. Ref. Mar./Apr. 1968. 448.3 M584
- 79796 IWASA, Y. Shokuhin kagaku [Food chemistry]. Tokyo, Kyoritsu Shuppan, 1967. 273 p. TX545.I9
- 79797 JURD, L., LUNDIN, R., and WAISS, A. C. Anthocyanidins and related compounds. XII-XIV. *Tetrahedron* 24(6):2653-2808. Ref. Mar. 1968. 382 T29



- 79798 KENMOCHI, K., and TAMURA, S. Amino acid analysis of foods; the effects of the quantity of hydrochloric acid for hydrolysis. (Ja) Jap. Soc. Food Nutr. J. 20(1):21-24. 1967. 389.9 J27  
English summary.
- 79799 LACHICA, R. V. F., and HARTMAN, P. A. Two improved media for isolating and enumerating enterococci in certain frozen foods. J. Appl. Bacteriol. 31(1):151-156. Ref. Mar.1968. 448.39 Sol2
- 79800 MACE, F. E., and KOBURGER, J. A. Effect of pH on recovery of fungi from foods. W. Va. Acad. Sci. Proc. 39:102-106. 1967. 500 W52
- 79801 MAYRHOFFER, O. L., and MOHLER, K. Integration of gas chromatographic fractions with thin layer plates. (Ge) Z. Lebensmittel-Untersuchung-Forsch. 134(4):246. 1967. 384 Z39
- 79802 MERCIER, C., CHARBONNIERE, R., and MASSY, A. Influence of a pressure treatment on the granular structure and susceptibility to enzymatic amyolysis of various starches. Starke 20(1):6-11. Ref. Jan.1968. 309 St22  
English summary.
- 79803 MIKOLAJCZAK, K. L., and SMITH, C. R. Anomalous borohydride reduction of some  $\alpha$ -acyloxy tosylhydrazones. Chem. Indus. [London] 51:2150-2151. Ref. Dec.23,1967. 382 M31
- 79804 MILLER, M. T. Collaborative studies of rapid methods for the separation of extraneous materials from whole and degerminated corn meal, prepared mustard, and soy flour. Ass. Offic. Anal. Chem. J. 51(3):522-524. May 1968. 381 As7
- 79805 MUCK, G. A., and others. Photometric determination of carbonyl compounds. J. Dairy Sci. 50(12):1983-1984. Dec.1967. 44.8 J822  
N. R. Sundararajan, J. Tobias, and R. M. Whitney, joint authors.
- 79806 NELSON, M. J., and DATTA, P. R. Micro-determination of endrin in presence of aldrin and dieldrin by infrared spectroscopy. Microchem. J. 13(1):91-97. Mar.1968. 381 M58
- 79807 PARIS, CENTRE NATIONAL DE COORDINATION DES ETUDES ET RECHERCHES SUR LA NUTRITION ET L'ALIMENTATION. Scientific sessions, XVI. Enzyme action and technology of foods, Paris, January 23-26, 1967. Ann. Nutr. Aliment. 22(1):B393-B436. (Cont.) Ref. 1968. 389.8 An73
- 79808 PARIS, CENTRE NATIONAL DE COORDINATION DES ETUDES ET RECHERCHES SUR LA NUTRITION ET L'ALIMENTATION. Scientific sessions, XVI. Enzyme activities and technology of foods, Paris, January 23-26, 1967. (Fr) Ann. Nutr. Aliment. 21(4):B83-B154. 1967. 389.8 An73
- 79809 PERTSOVSKII, E. S., and SHUBIN, A. S. Radioaktivnye indikatry v pishchevoi i legkoi promyshlennosti [Radioactive indicators in food and light industry]. Moskva, Atomizdat, 1967. 216 p. Ref. TP373.P4
- 79810 PORTER, M. L., BURKE, J. A., and BERTUZZI, P. F. Acetonitrile dilution: a possible source of error in the "rapid method for chlorinated pesticide residues in nonfatty foods." Ass. Offic. Anal. Chem. J. 50(3):644-645. June 1967. 381 As7
- 79811 RAGELIS, E. P., and others. Isolation and determination of chlorohydrins in foods fumigated with ethylene oxide or with propylene oxide. Ass. Offic. Anal. Chem. J. 51(3):709-715. May 1968. 381 As7  
B. S. Fisher, B. A. Klimeck, and C. Johnson, joint authors.
- 79812 READ, R. B., and REYES, A. L. Variation on plating efficiency of Salmonellae in eight lots of Brilliant Green Agar. Appl. Microbiol. 16(5):746-748. May 1968. 448.3 Ap5  
In food analysis.
- 79813 REHM, H. J. Study of the antimicrobial effect of biphenyl and biphenyl derivatives. V. Effect on the carbohydrate metabolism of *Escherichia coli*. (Ge) Z. Lebensmittel-Untersuchung-Forsch. 136(4):217-225. 1968. 384 Z39
- 79814 ROBERTS, T. A. Heat and radiation-resistance and activation of spores of *Clostridium welchii*. J. Appl. Bacteriol. 31(1):133-144. Ref. Mar. 1968. 448.39 Sol2  
In food.
- 79815 SAKURAI, Y. Shokuhin kagaku [Food chemistry]. Ed. 2, rev. Tokyo, Dobun Shoin, 1967. 281 p. TX545.S3 1967
- 79816 SCHOLZE, U., and GRUNEWALD, TH. Quality evaluation of irradiated dried legumes and groats. (Ge) Indus. Obst-Gemüseverwertung 53(8):215-218. Apr.1968. 389.8 K832
- 79817 SHIMAZONO, N. Sogo eiyogaku. Nutrition. Tokyo, Koyo Shoin, 1967. 208 p. Ref. QP141.S52  
Includes analysis and chemistry of food.
- 79818 SHIMOKAWA, K., and HORIBE, N. Analysis of ethylenediamine tetraacetic acid in foods. I. (Ja) Food Hyg. Soc. Jap. J. 9(1):35-39. Ref. Feb.1968. 389.9 N57  
English summary.
- 79819 SHIMOKAWA, K., and HORIBE, N. Analysis of ethylenediamine tetraacetic acid in food. II. (Ja) Food Hyg. Soc. Jap. J. 9(1):40-44. Feb. 1968. 389.9 N57  
English summary.
- 79820 SIMON, H., RAUSCHENBACH, P., and FREY, A. Differentiation of the fermentation alcohol and vinegar from synthetic material by the  $^{14}\text{C}$  content. (Ge) Z. Lebensmittel-Untersuchung-Forsch. 136(5):279-284. Ref. 1968. 384 Z39  
Importance in the food industry.
- 79821 SLIWIOK, J. The application of fuchsine dyes in the detection of selected pesticides in thin-layered chromatography. Microchem. J. 13(1):113-114. Mar.1968. 381 M58
- 79822 SOMOGYI, A., and NOGRADY, G. Objective assay and comparison of bacteriological culture media. (Ge) Arch. Lebensmittelhyg. 19(5):97-102. May 1968. 41.8 L49  
English summary.  
In relation to food bacteria.
- 79823 SPANYAR, P. Application of gas chromatography for qualification and research in the food industries. (Hu) Elelmezési Ipar 22(2):33-40. Ref. Feb.1968. 290.9 M57  
English summary.
- 79824 STEIN, R., EISENBERG, W. V., and BRICKEY, P. M. Staining technique to differentiate insect fragments, bird feathers, and rodent hairs from plant tissue. Ass. Offic. Anal. Chem. J. 51(3):513-520. May 1968. 381 As7  
Analysis for food contamination.
- 79825 STEMPOVSKAYA, L. A., and VOLKOVA, V. I. Determination of DDT in products according to ultraviolet absorption spectrum of their extracts. (Rus) Khim. Sel'skom Khoz. 6(4):30-33. Apr.1968. 385 K524
- 79826 STIER, E. F., SAWYER, F. M., and FERGENSON, P. E. A comparison of methodology used in determining the flavor effect of 5'-ribonucleotides on processed foods. Food Technol. 21(12):83-86. Ref. Dec.1967. 389.8 F7398
- 79827 TAKACS, J. Differentiation of coli and coliform germs in the bacteriological test of water and food. (Hu) Magyar Allatrov. Lapja 23(1):38-43. Ref. Jan.1968. 41.8 V644  
English summary.
- 79828 TAMURA, S., and others. Amino acid composition of Japanese foods. (Ja) Jap. Soc. Food Nutr. J. 20(1):14-20. 1967. 389.9 J27  
K. Kenmochi, T. Suzuki, and H. Asouda, joint authors.  
English summary.
- 79829 TIMASHEFF, S. N., SUSI, H., and TOWNEND, R. Studies of circular dichroism and infrared structure of polypeptides and proteins in aqueous solution. (Fr) J. Chim. Phys. Phys.-Chim. Biol. 65(1):114-117. Ref. Jan.1968. 383 J82  
English summary.  
Includes discussion.

- 79830 TRIER, K., NEUBERT, P., and EBELING, R. Determination of zinc in plants. (Ge) J. Prakt. Chem. 37(5/6):234-242. Ref. Mar. 1968. 384 J82
- 79831 UNIVERSITÄTS-INSTITUT FÜR LEBENSMITTEL-CHEMIE, FRANKFURT AM MAIN, 1966. Summaries of reports of the University-Institute for Food Chemistry from the summer semester 1966 to the summer semester 1967. (Ge) Deut. Lebensm.-Rundsch. 64(4):117-120. Apr. 1968. 389.8 D482
- 79832 WALDSCHMIDT-LEITZ, E., and KIRCHMEIER, O. Chemie der Eiweisskörper [Chemistry of proteins]. Ed. 3, rev. Stuttgart, Enke, 1968. 258 p. Ref. (Sammlung Chemischer und Chemisch-Technischer Beiträge, n.s. No. 49) 384 So4
- 79833 ZEN-YOJI, H., HITOKOTO, H., and OHTA, K. Vital states of *Sh. sonnei* and *S. typhi* in water and various kinds of food. Food Hyg. Soc. Jap. J. 9(1):45-49. Feb. 1968. 389.9 N57 English summary.
- CONSUMPTION AND UTILIZATION**
- 79834 CLARK, F. Research potentials—food consumption and rural life. Nat. Seminar Workshop Home Econ. Res. Admin. Proc. 1967:53-57. TX5.N3 Rural development.
- 79835 FOOD TOPICS. 20th annual consumer expenditure study of grocery store products. Food Top. 22(9), 174 p. Sept. 1967. 286.28 F733 Includes food products.
- 79836 GLATZEL, H. The importance of odor and flavor on the choice of foods and its benefits. (Ge) Qualitas Plant. Mater. Veg. 15(3):280-288. Aug. 3, 1968. 64.8 M41
- 79837 HANNA, J. G. Precise analytical steps give consumer the facts. Frontiers Plant Sci. [Conn. Sta.] 20(2):10-11. May 1968. 100 F92
- 79838 KLIMOV, A. Role of consumer cooperatives traced in retail trade. U. S. Joint Publ. Res. Serv. Transl. USSR Consum. Goods Dom. Trade 220:16-32. Jan. 3, 1968. (JPRS 43,863) 173 J663Tro Includes consumption of agricultural products. Translation from Sovetskaya Potrebiteľ'skaya Kooperatsiya 11:10-18. Nov. 1967. Issued by CFSTI.
- 79839 NAKAYAMA, S., and YUIZE, Y. International comparison of food demand and supply, 1960-62. (Ja) Quart. J. Agr. Econ. 22(2):1-38. Apr. 1968. 22.5 N687
- 79840 TURLOT, F. Elasticity of consumption of Yaounde households. (Fr) France. Inst. Nat. Stat. Etudes Econ. Etudes Conjoncture 22(12):25-34. Dec. 1967. 280.8 F84 Food consumption included.
- DISTRIBUTION, MARKETING, AND TRANSPORTATION**
- 79841 ALVENSLEBEN, R. VON. Market research and market-oriented extension. (Ge) Ausbildung Beratung Land- Hauswirtsch. 21(4):63-64. Apr. 1968. 18 N11
- 79842 BERENGUER, A. B. The Lonja de Mar building in Barcelona. (Sp) Agricultura [Madrid] 37(432):182-184. Apr. 1968. 15 Ag84 Exchange.
- 79843 BOOK, R. M. Preparing for the seventies. Amer. Soc. Farm Managers Rural Appraisers. J. 32(1):15-19. Apr. 1968. 281.8 Am32 Changes in marketing and distribution and the effect of agricultural changes on agribusiness and farm management.
- 79844 CURRIE, A. W. Canadian transportation economics. Toronto, University of Toronto Press, 1967. 719 p. HE215.C8 Bibliography, p.645-707. Includes agricultural products and freight rates.
- 79845 DAHL, A. Structural trends in the marketing of agricultural products. (No) Norsk Landbruk 9:12, 24. Mar. 3, 1968. 11 N8122 Scandinavia.
- 79846 DANKER, M. P. Factors influencing the use of agricultural cooperatives. Ill. Agr. Econ. 8(1):20-26. Ref. Jan. 1968. 281.9 IL61 Chiefly marketing.
- 79847 DANYLUK, A. P., and CACCIAGUERRA, A. Italian marketing structure resists change. Foreign Agr. 6(19):8-9. May 6, 1968. A281.9 F76Fo Food.
- 79848 DENISOV, M. Development of rural retail trade in the RSFSR. U. S. Joint Publ. Res. Serv. Transl. USSR Consum. Goods Dom. Trade 227:1-6. Jan. 31, 1968. (JPRS 44,200) 173 J663Tro Of agricultural products. Translation from Sovetskaya Torgovlya, Jan. 11, 1968:3. Issued by CFSTI.
- 79849 DORFMAN, R. Prices and markets. Englewood Cliffs, New Jersey, Prentice-Hall, 1967. 151 p. Ref. (Foundations of Modern Economics Series) HB201.D6 Includes agricultural data.
- 79850 EVERSLEY, D. E. C. The home market and economic growth in England, 1750-1780. In Jones, E. L., and Mingay, G. E. Land, labour and population in the industrial revolution, p.206-259. Ref. 1968. HC254.5.J6
- 79851 FAINZIL'BER, A. M., and FRIDLENDER, B. I. Modeling methods for most proper distribution of farm products. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 128:207-213. 1967. 20 M857 As related to transportation; linear programming used.
- 79852 FARMERS' AND SCIENTISTS' JOINT CONFERENCE, 7, UNIVERSITY OF WESTERN AUSTRALIA, 1967. Meeting marketing challenges on the farm. Farmer's Sci. Joint Conf. [Proc.], 7th Conf., 86 p. 1967. 27 F22 Sponsored by the Australian Institute of Agricultural Science, Western Australia Branch and the Farmers' Union of Western Australia, Inc.
- 79853 FOSTER, W. K. How marketing sees product R&D [research and development]; marketing can help new product development. Food Technol. 21(11):40-43, 45. Nov. 1967. 389.8 F7398
- 79854 FUNDATURA, D. Improvement of the organization and planning of the supply. (Rum) Probl. Econ. [Bucharest] 21(1):81-92. Jan. 1968. 280.8 P947 English summary.
- 79855 GRITSKOV, M. Methods of improving the planning of the purchasing of agricultural products. U. S. Joint Publ. Res. Serv. Transl. USSR Agr. 226:1-13. Nov. 30, 1967. (JPRS 43,507) 173 J663Tro Translation from Voprosy Ekonomiki 8:50-59. Aug. 1967. Issued by CFSTI.
- 79856 GUITON, N. F. LE H. Contracts in agricultural marketing. In Warley, T. K., ed. Agricultural producers and their markets, p.505-513. 1967. HD9000.1.W3
- 79857 HEIMER-WEBER, C. The importance of freeze-dried products on the food market of the German Federal Republic. (Ge) Indus. Obst-Gemüseverwertung 53(8):218-222. Ref. Apr. 18, 1968. 389.8 K832
- 79858 HISCOCKS, E. S. The market research and development work of the Tropical Products Institute. In Warley, T. K., ed. Agricultural producers and their markets, p.519-533. 1967. HD9000.1.W3
- 79859 JIANU, E. Development of the efficiency of transportation as an important factor for the improvement of economic activity of state farms. (Rum) Mec. Elec. Agr. 13(3):32-40. Mar. 1968. 58.8 M4623 Includes costs of transportation.
- 79860 JORISSEN, J. Market-oriented extension of the rural trade. (Ge) Ausbildung Beratung Land-Hauswirtsch. 21(4):67-68. Apr. 1968. 18 N11
- 79861 KALIS, H. Cooperative market extension—a difficult but important task. (Ge) Ausbildung Beratung Land- Hauswirtsch. 21(4):65-66. Apr. 1968. 18 N11



- 79862 KILPATRICK, R. A. CONASUPO—Mexico's Agricultural Stabilization Board. Can. Dep. Agr. Agr. Abroad 23(2):42-45. Apr.1968. 281.9 C1642A  
Compania Nacional de Subsistencias Populares; regulation of supplies and prices.
- 79863 KOZMA, J. Electronic data processing of the marketing in the food industries. (Hu) Elelmezesi Ipar 22(2):47-52. Feb.1968. 290.9 M57  
English summary.
- 79864 NADEAU, J. P. Organization of the commercialization and marketing course at the Institute of Agricultural Technology [Institut de Technologie Agricole]. (Fr) Quebec Lait. Aliment. 27(4):8-11. Apr.1968. 44.8 Q3
- 79865 NICOLLE, C. The agricultural wholesale markets in the U.S.A. (Fr) Agriculture [Paris] 31(310):113,115,117,119,121-122. Apr.1968. 14 Ag823
- 79866 PATTISON, P. Market place and not protectionism must determine future of agriculture—American farm leader. New Zeal. J. Agr. 116 (5):73,75. May 1968. 23 N48J  
Interview with A. Grant of the California Farm Bureau Federation.
- 79867 PERIS Y MARTINEZ, J. Rural roads in new concentrated zones. (Sp) Agricultura [Madrid] 37(432):179-181. Apr.1968. 15 Ag84
- 79868 PICKARD, D. Advertising and market research in agriculture. In Warley, T. K., ed. Agricultural producers and their markets, p.514-518. 1967. HD9000.1.W3  
Great Britain.
- 79869 POLOVNIKOV, A., and POLETAYEV, B. Reducing the number of stages in wholesale circulation and movement of foodstuffs. U. S. Joint Publ. Res. Serv. Transl. USSR Consum. Goods Dom. Trade 224:4-8. Jan.22,1968. (JPRS 44,101) 173 J663Tro  
Translation from Sovetskaya Torgovlya 12:20-22. Dec.1967.  
Issued by CFSTI.
- 79870 PROGRESSIVE GROCER. 35th annual report of the grocery industry. Prog. Grocer 47(4),276 p. Apr.1968. 286.83 P942  
Chiefly supermarketing.
- 79871 SAGER, J. F., and OSTENSO, G. L. Computerized recipe adjustment and food ordering. Amer. Diet. Ass. J. 52(6):498-501. Ref. June 1968. 389.8 Am34  
In hospitals.
- 79872 SHAFFER, J. D. Potential contributions of home economics research to improved efficiency of the marketing system. Nat. Seminar Workshop Home Econ. Res. Admin. Proc. 1967: 68-71. TX5.N3  
Chiefly food.
- 79873 STOLTZ, V. "Marketing"—no foreign word for German agriculture. (Ge) Obst Gemuse 32(3): 32. Mar.1968. 286.83 Ob72
- 79874 STRUYEV, A. Expansion of food and trade services cited. U. S. Joint Publ. Res. Serv. Transl. USSR Consum. Goods Dom. Trade 220:43-55. Jan.3,1968. (JPRS 43,863) 173 J663Tro  
Within the Soviet Union.  
Translation from Sovetskaya Torgovlya 11: 2-7. Nov.1967.  
Issued by CFSTI.
- 79875 SUGGITT, J. H. There's a big food market in Los Angeles. Foreign Trade 129(8):28-30. Apr.13,1968. 286.8 C162  
Wholesale marketing.
- 79876 TIOLLIER, J. Proposed discontinuence of traveling omnibus lines of the S.N.C.F. [National Society of French Railways, Societe Nationale des Chemins de Fer Francais]. (Fr) Chambres Agr. 39(382,sup.):3-8. Feb.15,1968. 14 T69
- 79877 TRUMAN, R. R. Air ways to market. Oreg. Agirec. 237:6-7. Mar.1968. 2 Or3  
For the transportation of agricultural products.
- 79878 U. S. CORPS OF ENGINEERS. Waterborne commerce of the United States, calendar year 1966. Part 3. New Orleans, 1967. 148 p.,map. 152.25 W29
- 79879 VAN SON. Improving commodity distribution for peasants in Thai Binh Province. Joint Publ. Res. Serv. Transl. N. Vietnam 288:15-16. Nov.24,1967. (JPRS 43,442) DS557.A7J6  
Translation from Nhan Dan, Oct.25,1967:2. Issued by CFSTI.
- 79880 WEST CUMBERLAND FARMERS TRADING SOCIETY LIMITED. Annual report and accounts for 1967. Whitehaven, 1968. 6 p. 280.29 W522R

# GRADING, INSPECTION, STANDARDIZATION, AND QUALITY

- 79881 ALSMEYER, R. H. What USDA cooks up for you. Agr. Marketing [Washington] 13(6):8. June 1968. A280.38 Ag8  
Standardization of quality.
- 79882 ANGELICI, M. The point on legal regulation of foods. (It) Indus. Aliment. 7(2):104-106. Feb. 1968. HD9000.1.152
- 79883 BESEMER, A. F. H. Residue tolerances and safety limits. (Du) Neth. Dir. Landbouw. Landbouwworlichting 25(2):89-93. Feb.1968. 12 N383M  
In food.
- 79884 BOURNE, M. C. Squeeze it gently. Farm Res. [N. Y. Sta.] 32(4):8-9. Jan./Mar.1967. 100 N48A  
Consumer quality rating of food.
- 79885 BROEG, C. B. Codex Alimentarius. Sugar Club Annu. 6:7-15. 1967. 286.3659 Su3  
Includes effect on the sugar industry.
- 79886 BUDAGYAN, F. Food toxicoses and toxic infections. 4 p. (JPRS 38,296; TT 66-34722) Transl. 16314  
Translation from Meditsinskaya Gazeta, Sept.9,1966:3.  
Issued by CFSTI.
- 79887 DEPEW, F. N. Report of the fifth session of the Joint FAO/WHO Codex Alimentarius Commission. Food Drug Cosmet. Law J. 23(5):271-280. May 1968. 389.58 F732
- 79888 DITSCHKE, M. The costs of medical research according to the Federal Disease Law. (Ge) Deut. Molk.-Zeitung 89(14):522-523. Apr.4,1968. 44.8 Su2  
Includes discussion of the food industry in relation to the law.
- 79889 DUVAL, J. Standardization in agriculture and foodstuffs. (Gre) Biomech. Epitheoresis 29-32. Mar.1968. 442.8 B5292
- 79890 FILLMORE, B. M. Britain revises food regulations. Foreign Trade 129(9):21-23. Apr.27, 1968. 286.8 C162
- 79891 FUENTE, J. M. DE LA. Insecticides, food production, and human safety. (Sp) Agronomia [Monterrey] 117:10-15. (Cont.) Mar.1968. 8 Ag828
- 79892 GRANGE, G. R. Codex [Alimentarius] Commission proposes worldwide food standards. Agr. Marketing [Washington] 13(6):14-15. June 1968. A280.38 Ag8
- 79893 JENKINS, C. F. H. International standards for the use of pesticides in relation to agricultural practice. Farmer's Sci. Joint Conf. [Proc.], 7th Conf.:17-21. 1967. 27 F22  
Residues in agricultural products.  
Includes discussion.
- 79894 KRUSEN, F. Codex Alimentarius. (Ge) Deut. Lebensm.-Rundsch. 64(3):73-78. (Concl.) Mar.1968. 389.8 D482
- 79895 LAMBERS, D. H. R. Are we being poisoned? (Du) Landbouwkundig Tijdschr. 80(4):170-173. Apr.1968. 105.2 Or3  
Danger of economic poisons and their residues with reference to books by Rachel Carson and C. J. Briejer.
- 79896 LENNINGTON, K. R. The food-borne disease problem today. J. Milk Food Technol. 30(12): 372-375. Dec.1967. 44.8 J824

- 79897 MICKELSEN, O. Present knowledge of naturally occurring toxicants in foods. *Nutr. Rev.* 26 (5):129-133. May 1968. 389.9 N953  
- Review of the literature. --
- 79898 MULARSKI, V. A. The flavor profile panel. *Food Can.* 28(2):44-47. Feb. 1968. 389.8 F7323
- 79899 NEAL, W. T. L. Control of food irradiation in the United Kingdom. *Food Irradiation* 8(1/2): 45-46. July/Dec. 1967. 389.8 F7383
- 79900 OLSZYNA-MARZYA, A. E. Food and drug legislation in Central America and Panama. *Food Drug Cosmet. Law J.* 23(5):253-259. May 1968. 389.58 F732
- 79901 OSSE, M. J. O. Codex Alimentarius: a worldwide commodity law. (Du) *Neth. Dir. Landbouw. Landbouwvoorlichting* 25(2):75-82. Feb. 1968. 12 N383M
- 79902 PORCELLI, G., and SPINA, A. M. Chemical additives in foods. I. Autoxidation and antioxidants. (It) *Rass. Chim.* 20(1):4-7. Ref. Jan./Feb. 1968. 385 R18  
English summary, p. 2.
- 79903 PORCELLI, G., and SPINA, A. M. Chemical additives in foods; preliminary note. (It) *Rass. Chim.* 20(1):3. Jan./Feb. 1968. 385 R18
- 79904 SANFORD, D. Unfoods: Do you know what you're eating? *New Repub.* 158(20):13-15. May 18, 1968. 280.8 N42  
Discusses labeling and U.S.D.A. standards.
- 79905 SIMON, R. Can foods be standardized? (Ge) *Brauwelt* 108(6/7):65-69. Jan. 19/24, 1968. 390.8 B732
- 79906 SIMS, R. P. A. Food for tomorrow. (Fr) *Can. Home Econ. J.* 18(2):15-18. Apr. 1968. 321.8 C162  
Quality and processing.
- 79907 STRINGER, J. G. Pesticide contamination of food and drugs during shipment. *FDA [Food Drug Adm.] Papers* 2(4):4-6. May 1968. HD9000.9 U5A1

#### PACKING AND PACKAGING

- 79908 BAIER, W. What does pre-packaging cost? (Ge) *Obst- Gemuse* 32(4):42-43. Apr. 1968. 296.83 Ob72
- 79909 BALL, C. O. Flexible packaging in food processing. In Heid, J. L., and Joslyn, M. A. *Fundamentals of food processing operations*, p. 669-721. Ref., p. 719-721. 1967. TP370.H4  
Films, foils, papers, and paperboards.
- 79910 ELLIS, R. F. Metal containers for food. In Heid, J. L., and Joslyn, M. A. *Fundamentals of food processing operations*, p. 615-640. Ref. 1967. TP370.H4
- 79911 FAVIA, G. Packing of food products in aluminum tubes. (It) *Indus. Aliment.* 7(2):88-90. Feb. 1968. HD9000.1.152
- 79912 FRAWLEY, J. P. A reasoned approach to regulation based on toxicologic considerations. *Food Drug Cosmet. Law J.* 23(5):260-270. May 1968. 389.58 F732  
Additives used in food packaging.
- 79913 PAINE, F. A., ed. *Packaging materials and containers*. London, Blackie, 1967. 377 p. Ref. TS158.P32  
Includes scattered references to food for which the index should be consulted.
- 79914 SACHAROW, S. The effect of permeability on packaging. *Alimenta* 7(2):47-49. Mar./Apr. 1968. TP368.A4
- 79915 WRIGHT, F. H. Glass containers. In Heid, J. L., and Joslyn, M. A. *Fundamentals of food processing operations*, p. 641-668. Ref. 1967. TP370.H4

#### PRICES, PRICE CONTROL, AND RATIONING

- 79916 BABADZHANYAN, M. Improvement of the state purchase price system in the Armenian SSR. *U. S. Joint Publ. Res. Serv. Transl. USSR Agr.* 228:i-4. Dec. 22, 1967. (JPRS 43,795) 173 J663Tso  
Agricultural products.  
Translation from *Kommunist*, Nov. 24, 1967: 2.  
Issued by CFSTL.
- 79917 BOZYK, P. Dynamics of raw material and food prices in 1967. (Pol) *Handel Zagraniczny* 13 (2):64-66. 1968. 286.8 H19
- 79918 CANADA. DEPT. OF AGRICULTURE. Value for food dollars. *Can. Dep. Agr. Publ.* 1354, 18 p. 1968. 7 C16Pu  
Food prices, consumer expenditures, marketing costs, and the farmer's share of the price.
- 79919 CONSTANTINEANU, M. Some aspects of the reflection of social costs of production in wholesale prices of the industry of consumer goods. (Rum) *Probl. Econ. [Bucharest]* 21(1): 43-55. Jan. 1968. 280.8 P947  
English summary.
- 79920 DIMITROVA, N. Prices and price setting in community feeding. (Bu) *Ikonomicheska Mis'l* 12(10):74-80. 1967. 280.8 Ik7  
French summary, p. 107.  
Bulgaria.
- 79921 GERMANY (FEDERAL REPUBLIC). STATISTISCHES BUNDESAMT. Preise und Preisindizes für Aussenhandels-güter [Prices and price indexes for foreign trade commodities], 1966. Stuttgart, 1968. 28 p. (Its Preise, Lohne, Wirtschaftssrechnungen, Reihe 1) 265 G318Ej
- 79922 HABIBULLA, M. Price incentives for the farmers. *Com. Indus.* 12(2):11-13. Apr. 1968. 286.8 C734  
Pakistan.
- 79923 HOCHERL, H. Agriculture and consumer. (Ge) *Obst- Gemuse* 32(4):7-8. Apr. 1968. 286.83 Ob72  
Public misunderstanding on the cause of high food prices.
- 79924 PETROVIC, M. C. Purchasing prices of agricultural products in 1966 and 1967. (Se) *Ekon. Poljoprivrede* 15(1/2):128-137. Jan./Feb. 1968. 281.8 Ek72
- 79925 ROTHWELL, E. L. American food, the world's biggest bargain. *Rural Realtor* 20:6-7. Feb. 1968. 282.8 R88

#### PROCESSING AND STORAGE

- 79926 ANDREOTTI, R. New quick freezing systems in the preparation of frozen foods. (It) *Indus. Aliment.* 7(2):65-68. Feb. 1968. HD9000.1.152
- 79927 BLOCK, Z. Frying. In Heid, J. L., and Joslyn, M. A. *Fundamentals of food processing operations*, p. 601-614. Ref., p. 612-614. 1967. TP370.H4
- 79928 BROCHU, E. The place of technology in food industry. (Fr) *Quebec Lait. Aliment.* 27(3):8-11. Mar. 1968. 44.8 Q3
- 79929 CALLELY, A. G. Biocides in industry. *Process Biochem.* 2(11):13-16. Ref. Nov. 1967. TP1.P7  
With application to the food industry, among others.
- 79930 CLUISTRA, A., and MELJER, J. C. M. Course in the preservation of food. 24. Recent developments in the field of food preservation. 24.2. The freeze-drying of foods. (Du) *Conserva* 16 (10):238-241. Apr. 1968. 389.8 C7632
- 79931 DERFERT, Z. Coordination of storage facilities in the district of Bydgoszcz. (Pol) *Przegl. Zbozowo Mlynarski* 12(1):30. 1968. Jan. 1968. 298.8 P95
- 79932 EBELING, C. W. Distribution engineering, a must today. *Food Eng.* 40(4):112-113, 115, 117, 119. Apr. 1968. 389.8 F737  
Materials handling.
- 79933 FEINBERG, B. Concentration by evaporation. In Heid, J. L., and Joslyn, M. A. *Fundamentals of food processing operations*, p. 475-500. Ref., p. 499-500. 1967. TP370.H4



- 79934 FREIXO, J. The action of cold in food preservation. (Por) *Conserv. Peixe* 22(263):27,29. (Cont.) Feb.1968. 389.8 C7692  
Food freezing and fish refrigeration.
- 79935 GAROGLIO, P. G. Conferencias on agricultural industries. (It) *Agricoltura* 17(1):125-134. Jan.1968. 16 Ag8226  
English summary, p.9.  
Processing.
- 79936 GELBRICH, D. The education of technicians for the food industry. (Ge) *Indus. Obst- Gemüseverwertung* 53(7):199-200. Apr.4,1968. 389.8 K832
- 79937 GOLDBLITH, S. A. Radiation processing of foods and drugs. In Heid, J. L., and Joslyn, M. A. *Fundamentals of food processing operations*, p.328-373. 1967. TP370.H4  
Bibliography, p.369-373.
- 79938 GULYAS, B. The Hungarian refrigeration industry is a partner of producing enterprises. (Hu) *Magyar Mezogazdasag* 23(7):7. Feb.14, 1968. 19 M27
- 79939 HEENEY, W. H. Frozen foods; industry faces export loss. *Can. Food Indus.* 39(5):35-36,39. May 1968. 286.83 C166
- 79940 HEID, J. L., and JOSLYN, M. A. *Fundamentals of food processing operations: ingredients, methods, and packaging*. Westport, Connecticut, Avi Publishing Company, 1967. 730 p. Ref. TP370.H4
- 79941 HEPNER, I. L. Biochemical process operations. *Process Biochem.* 2(11):50-51. Nov. 1967. TP1.P7  
Includes food and agricultural products processing.
- 79942 IWASAKI, Y., NOZAKI, H., and OKADA, M. *Shokuhin kako no jikken, jissu* [Experiment and practice in food processing]. Tokyo, Dobun Shoin, 1967. 237 p. TX601.I9
- 79943 JANKOWSKI, S., and NOWICKI, W. Rheology in food technology. II. (Pol) *Przemysl Spozywczy* 22(1):8-12. 1968. 389.8 P95
- 79944 JONES, M. C., and LARNER, G. S. The use of steam injection as a means of rapid heating for sterilization of liquid foods. *Inst. Chem. Eng. Trans.* 46(1):CE4-CE9. Ref. 1968. 382 In72
- 79945 JOSLYN, M. A. Enzymes in food processing. In Heid, J. L., and Joslyn, M. A. *Fundamentals of food processing operations*, p.239-257. Ref.,p.256-257. 1967. TP370.H4
- 79946 JOSLYN, M. A. Food processing by drying and dehydration. In Heid, J. L., and Joslyn, M. A. *Fundamentals of food processing operations*, p.501-540. 1967. TP370.H4  
Bibliography, p.536-540.
- 79947 JOSLYN, M. A., and TIMMONS, A. Salt—use in food processing. In Heid, J. L., and Joslyn, M. A. *Fundamentals of food processing operations*, p.79-106. Ref. 1967. TP370.H4
- 79948 JOSLYN, M. A. Water in food processing. In Heid, J. L., and Joslyn, M. A. *Fundamentals of food processing operations*, p.1-29. Ref., p.26-29. 1967. TP370.H4
- 79949 KAREL, M., and GOLDBLITH, S. A. Processing aspects of freeze dehydration. In Heid, J. L., and Joslyn, M. A. *Fundamentals of food processing operations*, p.541-565. Ref.,p.563-565. 1967. TP370.H4
- 79950 KELLY, N. Sugar. In Heid, J. L., and Joslyn, M. A. *Fundamentals of food processing operations*, p.30-61. Ref. 1967. TP370.H4
- 79951 KILBUCK, J. H. Seasoning for the food manufacturer. In Heid, J. L., and Joslyn, M. A. *Fundamentals of food processing operations*, p.165-182. Ref. 1967. TP370.H4
- 79952 LAFAURIE, M. The multiple applications of cryogenic fluids in industry and laboratories. (Fr) *Chim. Indus. [Paris]* 99(5):583-592. Mar.1968. 383 C42  
English summary.  
Includes use in food freezing.
- 79953 LLOYD, R. L. Starches in food processing. In Heid, J. L., and Joslyn, M. A. *Fundamentals of food processing operations*, p.107-129. Ref. 1967. TP370.H4
- 79954 LOPEZ, A. Advances in canned food sterilization technology. *Canning Trade* 90(24):6,8,10. (Cont.) May 27,1968. 286.83 T67
- 79955 LOPEZ, A. Advances in canned food sterilization technology. II. *Canning Trade* 90(25):6,8, 12. June 10,1968. 286.83 T67
- 79956 LUCE, G. T. Acetylated monoglycerides as coatings for selected foods. *Food Technol.* 21(11):48-49,52,54. Ref. Nov.1967. 389.8 F7398
- 79957 LUCK, E. Sorbic acid as food preservative; review of literature of the year 1964. *Indus. Obst- Gemüseverwertung* 53(9):241-249. May 2,1968. 389.8 K832  
Review of the literature.  
Text also in German.
- 79958 MACHADO, F. DE C. Factory manufacture of starches. (Por) *Gaz. Agr. Angola* 12(12):907, 909. Dec.1967. 24 G252
- 79959 MAIER, H. G. The binding of flavor to food. (Ge) *Naturwissenschaften* 55(4):180-181. Apr.1968. 474 N213
- 79960 MALCHER, J., and MEDAL, K. Contribution to the recovery of amylases from industrial wastes through a mechanized surface technique. (Ge) *Starke* 20(3):85-90. Ref. Mar.1968. 309 St22  
English summary.
- 79961 MORSE, R. M. The wide variety of applications for refrigeration. *Mod. Refrig.* 71(842):53,64. May 1968. 295.8 M72
- 79962 NATIONAL INDEPENDENT MEAT PACKERS ASSOCIATION. Cooperative vigilance is NIMPA aim. *Nat. Provisioner* 158(23):34-85, 100,103-114,117. June 1968. 286.85 N21  
Report and proceedings of the 27th annual convention, May 23-25, 1968, in New Orleans.
- 79963 NICKERSON, J. T. R. Preservatives and antioxidants. In Heid, J. L., and Joslyn, M. A. *Fundamentals of food processing operations*, p.209-238. Ref.,p.235-238. 1967. TP370.H4
- 79964 NICKERSON, J. T. R., and KAREL, M. Preservation of food by freezing. In Heid, J. L., and Joslyn, M. A. *Fundamentals of food processing operations*, p.439-474. Ref.,p.471-474. 1967. TP370.H4
- 79965 NINIVAARA, F. P., LAINE, J. J., and HEIKKINEN, E. The importance of rotating and head space in the sterilization of canned products. (Ge) *Fleischwirtschaft* 48(4):431-436. Ref. Apr.1968. 280.38 F62  
English summary.
- 79966 PARIS. CENTRE NATIONAL DE COORDINATION DES ETUDES ET RECHERCHES SUR LA NUTRITION ET L'ALIMENTATION. Scientific sessions. XVI. Enzymatic activities and technology of food products, Paris, January 23-26. 1967. (Fr) *Ann. Nutr. Aliment.* 21(6):B277-B386. (Cont.) Ref. 1967. 389.8 An73  
Includes discussion.
- 79967 PARMAN, G. K., and SALINARD, G. J. Vitamins as ingredients in food processing. In Heid, J. L., and Joslyn, M. A. *Fundamentals of food processing operations*, p.183-208. 1967. TP370.H4
- 79968 PEDERSEN, E. Prevent food wastage by correct refrigerator storage. *New Zeal. J. Agr.* 116(5):84-87. May 1968. 23 N48J
- 79969 PEDERSON, C. S. Processing by fermentation. In Heid, J. L., and Joslyn, M. A. *Fundamentals of food processing operations*, p.374-406. 1967. TP370.H4
- 79970 PFLUG, I. J., and ESSELEN, W. B. Food processing by heat sterilization. In Heid, J. L., and Joslyn, M. A. *Fundamentals of food processing operations*, p.258-327. 1967. TP370.H4  
Bibliography, p.323-327.
- 79971 RIAZ, R. A. The use of detergents in food industry. *Sci. Indus.* 5(1):45-59. Ref. Jan.1967. 475 Sci238

- 79972 SASAKI, M., and others. Studies on the compounds produced by molds. II. Fluorescent compounds produced by Japanese industrial molds. (Ja) Agr. Chem. Soc. Jap. J. 41(4):154-158. 1967. 385 Ag8  
T. Kikuchi, Y. Asao, and T. Yokotsuka, joint authors.  
English summary.  
Aspergillus sojae.
- 79973 SHANTZ, D. M. New trends in food production. Can. Diet. Ass. J. 29(1):31-35. Mar.1968. 389.9 C1632  
Convenience foods.
- 79974 SODIN, GY. Influence of the site of raw material production on the location and capacity of industrial plants. (Hu) Elelmezesi Ipar 22(2):60-65. Feb.1968. 290.9 M57  
English summary.  
Food.
- 79975 SOLOMONS, G. L. Some aspects of research on industrial enzymes. Inst. Chem. Eng. Trans. 46(1):CE9-CE12. Ref. 1968. 382 In72  
In food and other industries.
- 79976 STRAUSS, D. Food pests. I. (Ge) Deut. Lebensm.-Rundsch. 64(4):113-116. Apr.1968. 389.8 D482
- 79977 SWANSON, A. M., and others. Use of statistics and computers in the selection of optimum food processing techniques. Food Technol. 21(11):99-102. Nov.1967. 389.8 F7398  
J. J. Geissler, P. J. Magnino, and J. A. Swanson, joint authors.
- 79978 SWISHER, H. E., and SWISHER, L. H. Use of acids in food processing. In Heid, J. L., and Joslyn, M. A. Fundamentals of food processing operations, p.130-164. Ref., p.162-164. 1967. TP370.H4
- 79979 THOMAS, G. A. Quaternary ammonium biocides. Process Biochem. 2(11):33-34,40. Ref. Nov.1967. TP1.P7  
In food industry.
- 79980 THOMSON, E. S. The case for convenience foods. Home Econ. Dom. Subj. Rev. 14(2):16-17,19. Feb.1968. 321.8 H759
- 79981 ULMANN, R. M. Construction of the "Proefbedrijf Voedselbestraling" in Holland. Food Irradiation 8(1/2):12-15. July/Dec.1967. 389.8 F7383
- 79982 WEBSTER, E. J. The AFDOUS code today. Quick Frozen Foods 30(10):38-39,131. May 1968. 379.8 Q4  
Handling rules of frozen foods.
- 79983 WESTERGREN, K., and NIKKILA, O. E. Artificiella sotmedel samt deras anvandning inom livsmedelsindustrin. Artificial sweetening agents and their use in food industry. Finland. Valtion Tek. Tutkimuslait. Tiedotus. Sarja 4, Kemia 93,15 p. 1968. 385 F49
- 79984 YANEZ, E., and others. The fish protein concentrate: protein quality and use in foods. Food Technol. 21(12):60-66. Ref. Dec.1967. 389.8 F7398  
I. Barja, F. Monckeberg, A. Maccioni, and G. Donoso, joint authors.
- 79985 YOUNG, B. R. Phenolic-anionic detergent systems. Process Biochem. 2(11):26-28. Nov. 1967. TP1.P7  
Includes use in food processing plants.
- STATISTICS
- 79986 ANDHRA PRADESH. BUR. OF ECONOMICS AND STATISTICS. Season and crop report, 1965-66. Hyderabad, 1967. 185 p. 269.594 An2
- 79987 AUSTRALIA. BUR. OF CENSUS AND STATISTICS. Statistical bulletin: Rural land use and crop production. No. 24, season 1966-67. Canberra, 1968. 23 p. 271 Au72As
- 79988 AUSTRIA. STATISTISCHES ZENTRALAMT. Statistisches Handbuch fur die Republik Österreich, XVIII. Jahrgang, neue Folge [Statistical handbook for the Republic of Austria, XVIIIth year, new series], 1967. Wien, 1967. 507 p. 266 St22St  
Includes Austrian and international agricultural statistics.
- 79989 BRAZIL. SERV. NACIONAL DE RECENSEAMENTO. VII Recenseamento Geral do Brasil, serie regional, volume II. Censo Agricola de 1960 [7th General Census of Brazil, regional series, volume II. Agricultural Census of 1960] pt. I, tome I-XIII. Rio de Janeiro, 1967. 13 v. S191.B7 1960  
Data by states.
- 79990 BROOKS, E. SRS [Statistical Reporting Service] trains leaders for the next world agricultural census. Agr. Situation [Washington] 52 (5):5. May 1968. 1 Ec7Ag
- 79991 CHI, I. C. A study of food output in Mainland China. III. Joint Publ. Res. Serv. Transl. Communist China Econ. 38:1-16. Jan.10,1968. (JPRS 43,937) HC426.A1T7  
Statistical.  
Translation from Fei Ch'ing Yueh Pao 10(9): 55-63. Nov.1,1967.  
Issued by CFSTI.
- 79992 CVANCARA, F. Zemedelska vyroba v cislech [Statistics of agricultural products], V. 3. Praha, Statni Zemedelske Nakladatelstvi, 1967. 771 p. 281.177 C992  
Includes forest products.
- 79993 HENNEMANN, E. Culture in Schleswig-Holstein for the 1968 harvest. (Ge) Betriebswirtschaft. Mitt. Wirtschaftsberater 159:23-24. Feb.15,1968. 281.8 B462  
Field crop areas.
- 79994 INDIA. MINISTRY OF FOOD AND AGRICULTURE. DIRECTORATE OF ECONOMICS AND STATISTICS. Indian agriculture in brief. Ed. 8. New Delhi, 1967. 316 p. 269.5 In21
- 79995 INDIANA. AGRICULTURAL EXPERIMENT STATION. Annual crop summary, 1966. Ind. Crops Livestock 499,37 p. Dec.1966. 252.25 Ag8  
U. S. Department of Agriculture, cooperating.
- 79996 JAPAN. MINISTRY OF AGRICULTURE AND FORESTRY. Norinsho nempo 1965 [Ministry of Agriculture and Forestry Yearbook, 1965]. Tokyo, 1967. 482 p. 22.5 J274Ne  
Statistical.
- 79997 JAPAN. MINISTRY OF AGRICULTURE AND FORESTRY. STATISTICS AND SURVEY DIV. Norinsho tokei hyo [Statistical yearbook of the Ministry of Agriculture, and Forestry]. No. 43, 1966-1967. Tokyo, 1967. 521 p.,map. 269.7 J274
- 79998 KERN COUNTY (CALIFORNIA). DEPT. OF AGRICULTURE. Kern County agricultural crop report, 1967. Bakersfield, 1968. 13 p. 252.09 K45
- 79999 MADRAS. DEPT. OF STATISTICS. Season and crop report of the Madras State for the agricultural year 1963-64 (July to June) (fasli 1373). Madras, 1967. 145 p. 22 M263
- 80000 MCMURTRY, G. Allotments and quotas. Va. Polytech. Inst. Ext. Va. Farm Econ. 207:3-7. Mar./Apr.1968. 275.29 V813  
Acreage.
- 80001 MEXICO. DIRECCION GENERAL DE ESTADISTICA. Anuario estadistico de los Estados Unidos Mexicanos 1964-1965 [Statistical annual of the United States of Mexico 1964-1965]. Mexico, 1967. 609 p. 254.5 F73A  
Agricultural statistics included.
- 80002 NEW SOUTH WALES. BUR OF CENSUS AND STATISTICS. New South Wales statistical register: Rural industries and settlement and meteorology, 1964-65. Sydney, 1967. 137 p.,map. 271.1 St2S



- 80003 NEW YORK (STATE) CROP REPORTING SERV. New York State field crops 1954-1967. N. Y. (State) Dep. Agr. Markets. [Rep.] 109,23 p. Mar.1968. 280.3939 N483  
Statistical Reporting Service of U. S. Department of Agriculture in cooperation with New York State Department of Agriculture and Markets.
- 80004 NONGOP yon'gam. Agricultural yearbook, 1967. Seoul, National Agricultural Cooperative Federation, 1967. 274 p. 22.5 K844  
Tables also in English.  
Statistical.
- 80005 NORTH DAKOTA CROP AND LIVESTOCK REPORTING SERV. North Dakota crop and livestock statistics; annual summary for 1967; revisions for 1966. N. Dak. Crop Livestock Rep. Serv. Agr. Statist. 18,77 p.,map. May 1968. 2 N818A  
Department of Agricultural Economics of North Dakota State University of Agriculture and Applied Science and Statistical Reporting Service of U. S. Department of Agriculture, cooperating.
- 80006 PORTUGAL. INSTITUTO NACIONAL DE ESTADÍSTICA. Anuario estatístico. Volume II. Provincias ultramarinas [Statistical annual. Volume II. Overseas provinces], 1966. Lisboa, 1967. 247 p.,map. 264 F49A  
Statistics of agricultural production included.
- 80007 STACHYRA, T. On evaluation of losses. (Pol) Ochrona Roslin 12(1):17-19. Jan.1968. 464.8 Oc32  
Crop losses caused by pests and diseases.
- 80008 TRINIDAD AND TOBAGO. CENTRAL STATISTICAL OFF. Annual statistical digest, 1965. Port of Spain, 1967. 150 p. 254.8 T735A  
Agricultural and forestry statistics included.
- 80009 U. S. BUR. OF THE CENSUS. 1964 United States Census of Agriculture. Volume II, chapter 8: Color, race, and tenure of farm operator. Washington, 1968. p.741-905. HD1753.A5 1964
- 80010 U. S. CROP REPORTING BOARD. Field and seed crops: production, farm use, sales, value, by States, 1966-1967. Washington, 1968. 38 p. 1.9 Ec71Prf
- BEVERAGES AND CONDIMENTS**
- 80011 AGOSTINI, D. Optimal dimensions of wine manufacturing firms. (Fr) Office Int. Vigne Vin. Bull. 41(444):207-222. Feb.1968. 390.8 B87  
Presented at the joint meeting of Commissions I and III of the O.I.V. held at Mainz, September 7-11, 1967.  
Italy; includes cooperatives.
- 80012 BECK, H. Our sherry. Wynboer 436:10. Jan. 1968. 390.8 W724
- 80013 BECK, H. Wines of Argentina. Wynboer 437:17. Feb.1968. 390.8 W724  
Industry.
- 80014 BECK, H. Wines of the Rhine. Wynboer 438:9. Mar.1968. 390.8 W724
- 80015 BENITO, C. A. The amount of interest in the wine market. (Sp) Oeste 6(2):28-31. 1967. 287 Oe8  
Statistical investigation of the factors entering into price.
- 80016 BERIDZE, G. I., GLONTI, T. A., and DIDEBUGLIDZE, K. A. Effect of supersonic vibrations on the composition of volatile acids in cognac. (Rus) Vinodel. Vinograd. SSSR 2:5-6. 1968. 95.8 V77
- 80017 BRANDENBURG, G., and ROHLEDER, K. Direct gas chromatographic determination of diethyl carbonate in wine. (Ge) Deut. Lebensm.-Rundsch. 64(3):71-73. Ref. Mar.1968. 389.8 D482
- 80018 BREITMAN, V. P., DEMENOK, A. A., and YARMOLINSKII, D. A. Squeezing device for covering wine bottles with aluminum capsules. (Rus) Vinodel. Vinograd. SSSR 1:41-42. 1968. 95.8 V77
- 80019 BUCKLE, F. J. Cider manufacture. Process Biochem. 2(11):37-40. Ref. Nov.1967. TP1.P7
- 80020 CABEZUDO, M. D., LLANGUNO, C., and GARRIDO, J. M. Accelerated aging of fino wines by submerged culture using film-forming yeasts. Amer. J. Enol. Viticult. 19(1):63-69. Ref. Jan./Mar.1968. 390.9 Am33
- 80021 CHAUDHARY, S. S., WEBB, A. D., and KEPNER, R. E. GLC investigation of the volatile compounds in extracts from Sauvignon Blanc wines from normal and botrytised [with Botrytis cinerea] grapes. Amer. J. Enol. Viticult. 19(1):6-12. Ref. Jan./Mar.1968. 390.9 Am33
- 80022 CLARKE, R. J. Coffee manufacture. Process Biochem. 2(10):15-19. Ref. Oct.1967. TP1.P7
- 80023 COLAGRANDE, O., SILVA, S., and FONTANA, P. Stabilization of sweet wines with ethyl pyrocarbonate C14. (Fr) Indus. Aliment. Agr. 85(2):115-120. Feb.1968. 383 As7  
English summary.
- 80024 CURTIS, N. S. "Tannins" in brewing—today's picture. Brewers Dig. 43(2):56-59,64. Ref. Feb.1968. 390.8 B75  
Polyphenols.
- 80025 DEVEREUX, R. Italy—its wines, its grapes, and its wine organizations. Wines Vines 49(5):16-18. May 1968. 95.8 C122
- 80026 DOHNAL, T. Activity of the research station for wine [Vyzkumna Stanica Vinarska] at Karlstejn. (Cz) Prague. Vyzk. Ustav Zemed. Vestn. 14(5):220-224. 1967. 19.5 C333
- 80027 EHRENHARDT, H., and JAKOB, L. A contribution to the determination of the effect of fungicides on the course of wine must fermentation. (Ge) Weinberg Keller 15(1):5-30. Ref. Jan.1968. 95.8 W435
- 80028 FAVARETTI, G. Cooperation in wine manufacture in the Venices. (It) Agr. Venezia 22(1):20-30, map. Jan.1968. 16 Ag826
- 80029 FERTMAN, G. I., and LESNOV, P. P. The quality of raw plant material used for processing of vermouth. (Rus) Vinodel. Vinograd. SSSR 1:9-12. 1968. 95.8 V77
- 80030 GIASHVILI, D. S. The temperature of fermentative pulp and the quality of the red table wine. (Rus) Vinodel. Vinograd. SSSR 1:12-14. 1968. 95.8 V77
- 80031 GRAJEDA G., J. E. Cost accounting applied to coffee production. (Sp) Rev. Cafetalera 76:19-22. Dec.1967. 68.28 R322
- 80032 GRIFFIN, O. T., COLLIER, J. A., and SHIELDS, P. D. The development of liquid malt. Inst. Brewing J. 74(2):154-163. Mar./Apr.1968. 390.9 In7  
Chiefly properties of the malt produced from wort.
- 80033 HOELEN, H. Dutch brewing industry in figures. (Du) Nat. Inst. Brouwerst, Mout Bier—T.N.O. Jaarb. 32:79-84. 1968. 390.9 N21
- 80034 JONG, B. DE. Trials with new Dutch barley varieties of the harvest 1966 in malting and brewing. (Du) Nat. Inst. Brouwerst, Mout Bier—T.N.O. Jaarb. 32:43-56. 1968. 390.9 N21  
English summary.
- 80035 KANTHAMANI, S. Chemistry of tea with reference to quality and classification of tea clones. Planters' Chron. 63(5):73-75. Mar.1, 1968. 22 P693
- 80036 LA GRASSA, F. On the sugaring of fine and liquorous wines. (It) Rass. Agr. Ital. 23(2):25. Feb.1968. 281.8 R18
- 80037 LEWIS, B., and BRINKLEY, S. R. Stopping trouble at the plant; safety precautions in instant coffee extraction. World Coffee Tea 9(1):45-49. May 1968. 286.83 W89
- 80038 MASLOV, V. A., and ASMAEV, M. P. Automation of the continuous distillation of wine. (Rus) Vinodel. Vinograd. SSSR 1:34-37. 1968. 95.8 V77

- 80039 MUNICH. WISSENSCHAFTLICHE STATION FÜR BRAUEREI. Annual report 1967. (Ge) Brauwelt 108(29):533-538. (Cont.) Apr.10, 1968. 390.8 B732
- 80040 MUNICH. WISSENSCHAFTLICHE STATION FÜR BRAUEREI. Annual report 1967. II. (Ge) Brauwelt 108(30/31):561-564. Apr.12/17, 1968. 390.8 B732
- 80041 NANITASHVILI, T. S. Using fermentative preparations in processing the wine type "Kagor." (Rus) Vinodel. Vinograd. SSR 1:7-9. 1968. 95.8 V77
- 80042 NARZIB, L., REICHENEDER, E., and NON-HOFF, R. Comparative investigations on the protein ratios of malt, wort, and beer with the help of various protein fractionation methods with special attention to gel filtration. (Ge) Brauwissenschaft 21(4):123-131. (Cont.) Apr. 1968. 390.8 B733
- 80043 NARZISS, L. The influence of groats on refining and wort composition. (Ge) Brauwelt 108 (6/7):70-74. Jan.19/24, 1968. 390.8 B732
- 80044 NARZISS, L., KIENINGER, H., and REICHENEDER, E. On the use of green malt in brewing. (Ge) Brauwelt 108(33):605-611. Apr.24, 1968. 390.8 B732  
English summary.
- 80045 NATIONAL INSTITUUT VOOR BROUWERST, MOUT EN BIER, T.N.O. 32e N.I.B.E.M. jaarboekje [32nd N.I.B.E.M. yearbook], 1968. n.p., 1968. 135 p. 390.9 N21
- 80046 NUREMBERG. BAYERISCHE LANDESGEWERBEANSTALT. VERSUCHSANSTALT FÜR BIERBRAUEREI. Annual report 1967. (Ge) Brauwelt 108(11):149-155. Feb.7, 1968. 390.8 B732
- 80047 OFFICE INTERNATIONALE DE LA VIGNE ET DU VIN. Study of proteins and nitrogenous substances; their development in the course of enological treatments; conditions of protein stability of wines. (Fr) Office Int. Vigne Vin. Bull. 40(442):1379-1399. Dec.1967. 390.8 B87  
Presented at the 6th meeting of Commission II, held at Sofia, Bulgaria, September 12-13, 1966; Hungarian report by L. Erczhegyi and A. Asvany; Rumanian report by J. Jurubita, J. Gritsch, and C. Stanescu.
- 80048 OKAMURA, T., and others. Studies on fluorine and other related components of Japanese foods. II. On the content of fluorine in condiments. (Ja) Jap. Soc. Food Nutr. J. 20(6):62-64. Mar. 1968. 389.9 J27  
T. Matsuhisa, M. Aiki, and T. Niwa, joint authors.  
English summary.
- 80049 ORNANO, M. D., and others. A comparison between the cut-test and the pigment optical density for estimating the degree of fermentation of cocoa beans. (Fr) Cafe, Cacao, The 12(1):53-62. Jan./Mar.1968. 68.8 C112  
F. Chassevent, R. Wilbaux, and D. Hahn, joint authors.  
English summary.
- 80050 OWADES, J. L., and DONO, J. M. Determination of volatile acids in wine by microdiffusion. Amer. J. Enol. Viticult. 19(1):47-51. Jan./Mar. 1968. 390.9 Am33
- 80051 PAUL, F. Manufacture of dry white wines; exchange phenomena with yeasts and their autolysis. (Fr) Office Int. Vigne Vin. Bull. 41(444):192-206. Feb.1968. 390.8 B87  
Presented at the 7th meeting of Commission II of the O.I.V. held at Mainz, September 7-11, 1967.  
Austria.
- 80052 PENNING-ROWSELL, E. The dry white wines of Bordeaux. Country Life [London] 143(3709):794-796. Apr.4, 1968. 80 C83
- 80053 PENNING-ROWSELL, E. The popular wines of Cyprus. Country Life [London] 143(3709):794-796. Apr.4, 1968. 80 C83
- 80054 PENNING-ROWSELL, E. The sweet wines of Bordeaux. Country Life [London] 143(3715):1302,1304,1306. May 16, 1968. 80 C83
- 80055 PIATKIEWICZ, A. The influence of a sporogenous yeast on the transformation of certain organic acids encountered in the wine industry. (Pol) Przemysl Spozywczy 22(1):31-33. 1968. 389.8 P95
- 80056 PIENDL, A. Carbohydrates and fermentation. (Ge) Brauwissenschaft 21(4):133-143. Ref. Apr.1968. 390.8 B733  
English summary.
- 80057 PIENDL, A. Mashing temperature, carbohydrate composition of the wort and fermentation pattern. (Ge) Brauwelt 108(23):418-425. Ref. Mar.20, 1968. 390.8 B732  
English summary.
- 80058 POPPER, K., and others. Of must and mold or how to teach non-talented grapes to ape their betters. Wines Vines 48(12):17-18. Dec.1967. 95.8 C122  
A. D. King, F. P. Boyle, W. M. Camirand, D. W. De Jong, and W. L. Stanley, joint authors.  
Inoculation of wine must with Botrytis cinerea.
- 80059 POSPISILOVA, D. Study of table varieties of wine. I. (Cz) Pol'nohospodarstvo 14(1):23-30. 1968. 19.5 P752
- 80060 RECENT trends in the pepper economy. Food Agr. Organ. U. N. Mon. Bull. Agr. Econ. Statist. 17(2):13-18. Feb.1968. 251 F73Mb
- 80061 RICE, A. C., FERGUSON, J. W., and BELSCHER, R. S. Residual sugars in New York State wines. Amer. J. Enol. Viticult. 19(1):1-5. Ref. Jan./Mar.1968. 390.9 Am33
- 80062 ROBINSON, W. B., and others. 1966 vineyard and cellar notes. N. Y. (State) Agr. Exp. Sta. Res. Circ. 9,21 p. Dec.1967. 100 N48R  
J. Einset, K. H. Kimball, and J. J. Bertino, joint authors.  
Chiefly grading and quality of wine.
- 80063 RODOPULO, A. K., and PISARNITSKII, A. F. Quantitative determination of amino acids in champagne by an amino acid analyzer. (Rus) Vinodel. Vinograd. SSSR 1:5-7. 1968. 95.8 V77
- 80064 ROSELL, P. F., OFRIA, H. V., and PALLERONI, N. J. Production of acetic acid from ethanol by wine yeasts. Amer. J. Enol. Viticult. 19(1):13-16. Jan./Mar.1968. 390.9 Am33
- 80065 SARKISYAN, Z. R. Change of nitrogen substances in the process of preparing red semisweet wine. (Rus) Vinodel. Vinograd. SSSR 2:10-13. 1968. 95.8 V77
- 80066 SCHILD, E., and LEMPART, K. Influence of malt modification on beer properties especially head retention and natural protein stability. (Ge) Brauwissenschaft 21(2):63-69. Ref. Feb. 1968. 390.8 B733  
English summary.
- 80067 SCHÖBER, R. The vintage year 1967—a brief retrospect. (Ge) Winzer (ser.1)24:6-7. Jan. 1968. 95.8 W73
- 80068 SCOTT, P. M. Note on analysis of aflatoxins in green coffee. Ass. Offic. Anal. Chem. J. 51(3):609. May 1968. 381 As7
- 80069 STANESCU, C. Improvement of the composition of wine by blending, sugaring, and addition of alcohol. (Fr) Office Int. Vigne Vin. Bull. 41(444):223-239. Feb.1968. 390.8 B87
- 80070 STEINER, K. The role of pentosans in brewing. Brewers Dig. 43(3):70-73,76-77. Ref. Mar. 1968. 390.8 B75
- 80071 STEPANISHVILI, A. D. Razvitie vinodeliya v Sovetskoi Gruzii, 1921—1965 gg [Development of wine industry in the Soviet Georgia]. Tbilisi, Metsniereba, 1967. 222 p. TP559.U457  
In Georgian.  
Bibliographical footnotes.
- 80072 STOFFELSMAN, J., and PYKER, J. Some new constituents of roasted coffee (short communication). Rec. Trav. Chim. Pays-Bas 87(3):241-242. Mar.1968. 385 R24
- 80073 STRUNING, W. C. Non-drinkers of coffee: who they are and why. World Coffee Tea 9(1):36-39. May 1968. 286.83 W89



- 80074 TANNER, H. Analytical testing from grape to wine; methods of investigations for laboratory and industry. (Ge) Schweiz. Z. Obst- Weinbau 104(7):149-154. (Concl.) Mar.16,1968. 80 Sch9  
This installment on wine.
- 80075 TANNER, H. Analytical testing from grape to wine; methods of investigation for the laboratory and the vineyard. (Ge) Schweiz. Z. Obst- Weinbau 104(5):114-118. (Cont.) Mar.2, 1968. 80 Sch9  
Includes equipment.
- 80076 VAN DER WAL, B., and others. Some new constituents of roasted cocoa (short communication). Rec. Trav. Chim. Pays-Bas 87(3):238-240. Mar.1968. 385 R24  
G. Simpa, D. K. Kettenes, and A. T. J. Semper, joint authors.
- 80077 VAZ, J. T. World coffee problems. (Por) Gaz. Agr. Angola 13(2):95,97,99. Feb.1968. 24 G252
- 80078 VERENIGING VOOR BROUWERIJ-ONDERZOEKEN -ONDERWIJS. Report of the study session at Brugge on November 1967. (Fl) Int. Tijdschr. Brouwerij Mouterij 27(4):97-115. 1967/68. 390.8 R32Af
- 80079 VITALI, G. International wine analysis method. (It) Indus. Aliment. 7(2):61-64. Ref. Feb. 1968. HD9000.1.152
- 80080 WALL, C. M. Coffee gains in share of beverage market. Tea Coffee Trade J. 134(4):16,18,20. Apr.1968. 68.8 T22
- 80081 WEINFURTER, F., and others. Barley varieties, cultural methods, wort composition, course of fermentation. 12. (Ge) Brauwissenschaft 21(2):61-63. Ref. Feb.1968. 390.8 B733  
F. Wullinger, A. Piendl, and L. Reiner, joint authors.  
English summary.
- 80082 WORLD OF COFFEE AND TEA. USA tea convention report; 1967 sales to equal record highs. World Coffee Tea 8(8):49-56. Dec.1967. 286.83 W89
- 80083 WORLD OF COFFEE AND TEA. The world of tea; focus, Nielsen's tea industry report: What tea did during 1967. World Coffee Tea 8(9): 117-118,120-122. Jan.1968. 286.83 W89
- 80084 WUCHERPFENNIG, K., and BRETHAUER, G. On the formation of volatile substances in apple wine in relation to must preparation as well as the yeast races used. (Ge) Deut. Lebensm.-Rundsch. 64(3):63-67. Ref. Mar.1968. 389.8 D482
- DAIRY PRODUCTS**
- 80085 ALFONSUS, H. Report of a trip from the Federal Republic of Germany and the Netherlands. 5. (Ge) Osterr. Milchwirt. 23(2):26-29. Jan.21,1968. 44.8 Os72
- 80086 AMERICAN DAIRY SCIENCE ASSOCIATION. Abstracts of papers presented at the sixty-third annual meeting, the Ohio State University, Columbus, Ohio, June 16-19, 1968. J. Dairy Sci. 51(6):925-990. June 1968. 44.8 J822
- 80087 ANDROUET, P. Gastronomical aspects of Norman dairy products. (Fr) Tech. Lait. 589: 13-14. Apr.1968. 44.8 Of2
- 80088 ARMSTRONG, D. L. Dairy trends assessed. Irish Agr. Creamery Rev. (n.s.)21(412):13-15. Apr.1968. 44.8 C866  
Australia and New Zealand industry.
- 80089 BAKKER, J. The Netherlands cheese situation. (Du) Ned. Zuivelbond. Offic. Orgaan 60(17): 464-465. Apr.24,1968. 44.9 AL3
- 80090 BAUR, E. Structural improvement in the Allgau Emmentaler cheese industry through plant mergers. (Ge) Deut. Molk.-Zeitung 88(45): 1841-1844. Nov.9,1967. 44.8 Su2
- 80091 BRACEGIRDLE, R. J. Some aspects of the management of a modern dairy. Soc. Dairy Technol. J. 21(2):85-90. Apr.1968. 44.8 So12  
In Great Britain.
- 80092 BRYZGIN, M. I., and BELOUSOV, A. P. Development of research programs in the dairy industry of the Ukrainian SSR. (Rus) Moloch. Prom. 12:3-6. Dec.1967. 44.8 M734
- 80093 COWEN, S. J. Dairy plant management evaluation. Indian Dairymen 20(1):25-29. Jan.1968. 44.8 In282
- 80094 DELFORNO, G. The dairy industry in Italy. Soc. Dairy Technol. J. 21(2):91-94. Apr.1968. 44.8 So12
- 80095 DELFORNO, G. The Danish cheese industry. (It) Latte 42(2):108-110. Feb.1968. 44.8 L35
- 80096 DEUTSCHE GESELLSCHAFT FÜR MILCH-WISSENSCHAFT. Annual conference of the German Dairy Industry Society from April 3-4 in Hanover. (Ge) Molk.-Kaserei-Zeitung 19 (16):524-525. Apr.18,1968. 44.8 M736  
Summaries of papers.
- 80097 DEUTSCHE GESELLSCHAFT FÜR MILCH-WISSENSCHAFT. The German Society for Dairy Science convenes in Weihenstephan. (Ge) Deut. Molk.-Zeitung 88(46):1888-1889. (Cont.) Nov.16,1967. 44.8 Su2  
Summaries of papers.
- 80098 ENGBRECHT, W. Exemplary cooperation between dairies and milk trade in the Brunswick area. (Ge) Molk.-Zeitung Welt Milch 22 (16):464. Apr.19,1968. 44.8 M735
- 80099 GALAMINI, L. To save the livestock industry it is necessary to support the dairy industry also. (It) Rass. Agr. Ital. 23(2):12-13. Feb. 1968. 281.8 R18
- 80100 GERMANY (FEDERAL REPUBLIC). BUNDES-VERSUCHS- UND FORSCHUNGSANSTALT FÜR MILCHWIRTSCHAFT (KIEL). Conference of dairy professionals in Kiel. (Ge) Osterr. Milchwirt. 23(2):21-26. (Cont.) Jan.21,1968. 44.8 Os72  
Summaries of papers given November 7-10, 1967.
- 80101 GERMANY (FEDERAL REPUBLIC). BUNDES-VERSUCHS- UND FORSCHUNGSANSTALT FÜR MILCHWIRTSCHAFT (KIEL). Report on the celebration of the 90th anniversary of the Kiel Milk Research Institute, December 21, 1967. (Ge) Kieler Milchwirtsch. Forschungsber. 20(1):1-42. Second Q.1968. 44.9 K542
- 80102 GODBERSEN, G. W. Dairy Educational and Research Institution [Milchwirtschaftliche Lehr- und Untersuchungsanstalt and development assistance. (Ge) Molk.-Kaserei-Zeitung 19(22):844-845,848. May 29,1968. 44.8 M736
- 80103 GOULD, I. A. The butter industry—is it a giant sleeping—or dead? Hoard's Dairymen 113(10): 639,650-651. May 25,1968. 44.8 H65
- 80104 GRANNAS, J. The Swedish Dairy School [Svenska Mejeriskolan]. (Sw) Mejeritidskrift 30(2): 57-58. Apr.1968. 44.8 M472  
At Vasa.
- 80105 HEIBER, J. The Brussels milk compromise. (Ge) Molk.-Zeitung Welt Milch 22(23):803-804. June 7,1968. 44.8 M735
- 80106 HILKER, R. A German view; opinion on the position of cheese in the EEC and especially Germany. (Ge) Ned. Zuivelbond. Offic. Orgaan 60(17):460-462. Apr.24,1968. 44.9 AL3
- 80107 HILKER, R. Organized cooperation of dairies on the market. (Ge) Mitt. Deut. Landwirt.-Ges. 83(3):64,66,68. Jan.18,1968. 18 N39  
On the Common Market.
- 80108 HUITEMA, K. The production and marketing of cheese in France in the light of the E.E.C. (Du) Ned. Zuivelbond. Offic. Orgaan 60(14):384-385. Apr.3,1968. 44.9 AL3
- 80109 IZOTOV, V., and MISHCHENKO, E. P. Training specialists with secondary education. (Rus) Moloch. Prom. 12:9-10. Dec.1967. 44.8 M734  
Dairy industry.
- 80110 JENSEN, G. K. Impulses from U.S.A. for the expansion of production and marketing in the consumer milk and milk processing area. (Da) Maelkeritidende 81(16):317-324. Apr.19,1968. 44.8 M26

- 80111 JENSEN, G. K. Impulses from U.S.A. for the expansion of production and marketing in the consumer milk and milk processing area. (Da) Maekertidende 81(17):342-351. Apr.26,1968. 44.8 M26
- 80112 KIEFER, A. Outlook and dangers for the German dairy industry in the EEC. (Ge) Molk.-Kaserei-Zeitung 19(19):677-680. May 8,1968. 44.8 M736
- 80113 KIEFER, A. Outlook and dangers for the German dairy industry in the E.E.C. II. (Ge) Molk.-Kaserei-Zeitung 19(20):731-733. May 15, 1968. 44.8 M736
- 80114 KIEFER, A. What can be said today on the dairy industry of tomorrow? (Ge) Molk.-Zeitung Welt Milch 22(19):671-674. May 10, 1968. 44.8 M735
- 80115 KROITZSCH, G. New training of pupils in Schleswig-Holstein. (Ge) Molk.-Kaserei-Zeitung 19(22):841-842. May 29,1968. 44.8 M736
- 80116 KROSTITZ, W. Too much butter in the E.E.C. (Ge) Molk.-Kaserei-Zeitung 19(10):318. Mar. 6,1968. 44.8 M736
- 80117 KYNAST, S. The professional picture of the dairyman. (Ge) Molk.-Kaserei-Zeitung 19(19): 675-676. May 8,1968. 44.8 M736
- 80118 LECLERC, M. The course of events. (Fr) Quebec Lait. Aliment. 27(4):16-19. Apr.1968. 44.8 Q3  
Canadian dairy industry.
- 80119 LEENDERS, A. G. The financing of the common dairy industry. 3. (Du) Ned. Zuivelbond. Offic. Orgaan 60(17):456-459,471. Apr.24,1968. 44.9 AL3
- 80120 LEENDERS, A. G. The financing of the common dairy policy. 1. (Du) Ned. Zuivelbond. Offic. Orgaan 60(15):401-404,412. Apr.10,1968. 44.9 AL3
- 80121 LEENDERS, A. G. The financing of the common dairy policy. 2. (Du) Ned. Zuivelbond. Offic. Orgaan 60(16):433-436. Apr.17,1968. 44.9 AL3
- 80122 LEENDERS, A. G. Possibilities for international cooperation. 2. (Du) Ned. Zuivelbond. Offic. Orgaan 60(22):597-600. May 29,1968. 44.9 AL3  
International organizations.
- 80123 LEENDERS, A. G. Possibilities of international cooperation. 1. (Du) Ned. Zuivelbond. Offic. Orgaan 60(21):563-565. May 21,1968. 44.9 AL3  
International organizations.
- 80124 LEGA, G. Technological progress transforms the dairy industry and trade of the U.S.A. (It) Mondo Latte 22(4):274-275. Apr.1968. 44.8 M74
- 80125 LEHMANN, F. The dairy industry in the Hannover-Brunswick area. (Ge) Molk.-Zeitung Welt Milch 22(16):453-455. Apr.19,1968. 44.8 M735
- 80126 LEITHEISER, G. As development assistant in Brazil. (Ge) Molk.-Kaserei-Zeitung 19(9):284-286. Feb.28,1968. 44.8 M736  
Dairying.
- 80127 LOCATELLI, E. The function of the Italian dairy industry in the livestock economy of the country. (It) Mondo Latte 22(4):259-262. Apr. 1968. 44.8 M74
- 80128 LYLE, W. F., and BYARS, L. L. Make complex decisions right and in minutes; computer decision systems available to dairy industry offer positive benefits. Milk Dealer 57(8):20-21,24. May 1968. 44.8 M595
- 80129 MARQUARDT, H. C. The adaptation of the dairy industry to the Common Market. (Ge) Deut. Molk.-Zeitung 89(10):371-374. Mar.7, 1968. 44.8 Su2
- 80130 MARQUARDT, H. G. Adaptation of the dairy industry to the Common Market. (Ge) Molk.-Kaserei-Zeitung 19(10):313-314,316-317. Mar.6,1968. 44.8 M736
- 80131 MARQUARDT, H. G. The EEC requires large forms of enterprise. (Ge) Molk.-Zeitung Welt Milch 22(10):279-280. Mar.8,1968. 44.8 M735
- 80132 MATULLA, K. E. Inside management offers possibilities even to small soft cheese factories. (Ge) Deut. Molk.-Zeitung 89(12):447. Mar.21, 1968. 44.8 Su2
- 80133 MIKLIK, E. Situation of the Austrian dairy industry. (Ge) Milchwirtsch. 13:9-11. Feb. 1968. 44.8 M5998
- 80134 MOKEREILEITERTAGUNG, 1967, ROTHOLZ, [Proceedings of the Dairy Leaders Conference]. II. (Ge) Milchwirtsch. Ber. Bundesanst. Wolfpassing Rotholz 14:1-46. Mar.1968. 44.8 M5998
- 80135 MOKEREILEITERTAGUNG, ROTHOLZ, 1967. [Papers of the Dairy Leaders' Conference]. (Ge) Milchwirtsch. 13,80 p. Feb.1968. 44.8 M5998
- 80136 MUDFELDT, H. C. Continuing education, an urgent task of the professional society. (Ge) Molkerei-Kaserei-Zeitung 19(18):644-645. May 2,1968. 44.8 M736
- 80137 NILSON, K. M. Cheese; a growing industry. Vt. Farm Home Sci. 10(3):8. Spring 1968. 100 V593
- 80138 O'CALLAGHAN, T. Films on the dairy industry. Irish Agr. Creamery Rev. (n.s.)21(412): 3-4. Apr.1968. 44.8 C866
- 80139 PICCOLI, G. Milk from producer to consumer (It) Agr. Venetie 22(1):38-44. Jan.1968. 16 Ag826
- 80140 PIRNER, H. The German dairy industry on the eve of the Common Market. (Ge) Deut. Molk.-Zeitung 88(46):1877-1881. Nov.16,1967. 44.8 Su2
- 80141 ROBINSON, A. Danish study tour 1967. Soc. Dairy Technol. J. 21(2):95-103. Apr.1968. 44.8 So12  
Of dairy industry.
- 80142 RUDOLPH, K. Economic considerations on the Swiss dairy industry. (Ge) Schweiz. Landwirt. Monatsh. 46(3):97-116. Mar.1968. 17 Sch93
- 80143 SCARR, R. J. Trends in the Australian dairy industry. Milk Dealer 57(8):18. May 1968. 44.8 M595
- 80144 SCHULZ, M. E. New for Germany: Kefir milk with 3.5% fat. (Ge) Molk.-Kaserei-Zeitung 19 (13):420-422. Mar.27,1968. 44.8 M736  
History, manufacture, and composition.
- 80145 SOLBERG, P. New food on a milk basis. (No) Meieriposten 17:332-334. Apr.27,1968. 44.8 M47  
Includes filled and synthetic milk and dairy products.
- 80146 SOLTERBECK, H. W. Timely considerations on education in the dairy profession. (Ge) Molk.-Kaserei-Zeitung 19(22):838-840. May 29,1968. 44.8 M736
- 80147 SPEER, J. F. Substitute products. (Fr) Quebec Lait. Aliment. 27(1):10-12. Jan.1968. 44.8 Q3  
Substitutes of dairy products.
- 80148 SUMEREDER, K. Structure of the Tirolean hard cheese industry. (Ge) Milchwirtsch. Ber. Bundesanst. Wolfpassing Rotholz 14:19-25. Mar.1968. 44.8 M5998
- 80149 TACKE, J. Electronic data processing brings advancement. (Ge) Molk.-Zeitung Welt Milch 22(16):466,468,470. Apr.19,1968. 44.8 M735  
For accounting and marketing information.
- 80150 TAG, M. Management problems of interior rationalization. (Ge) Deut. Molk.-Zeitung 89(16): 599-601. Apr.18,1968. 44.8 Su2  
Includes marketing.
- 80151 TOMPA, M. Application of linear programming to policy decisions on quantity, prices, and investments. (Hu) Elelmezési Ipar 22(3):79-83. Mar.1968. 290.9 M57  
English summary.  
Dairy industry.



- 80152 WEISSENBERG, H. Structural improvement from the viewpoint of dairy practice. (Ge) *Molk.-Kaserei-Zeitung* 19(12):380-381. Mar. 20, 1968. 44.8 M736
- 80153 WINSQUER, W. Problems of the hard cheese industry in Vorarlberg. (Ge) *Milchwirtsch. Ber. Bundesanst. Wolfpassing Rotholz* 14:31-38, map. Mar. 1968. 44.8 M5998  
Includes discussion of agriculture and the dairy industry in general.
- 80154 ZEZZOS, R. Dairy curiosities and gleanings. (It) *Mondo Latte* 21(12):881-883. Dec. 1967. 44.8 M74
- 80155 ZEZZOS, R. Dairy curiosities and gleanings. (It) *Mondo Latte* 22(4):271-272. Apr. 1968. 44.8 M74  
History and folklore.
- Analysis and Composition
- 80156 ANTILA, M., ANTILA, V., and HAUKKA, J. Observations on organisms and biochemical activity in Finnish sour milk. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. E/F:603-605. 1966. SF223.15 1966 v.5
- 80157 ASANO, Y. The interaction between milk proteins and carboxymethyl cellulose in fruit-flavoured milk. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. E/F:695-702. 1966. SF223.15 1966 v.5
- 80158 ASHTON, D. H., and BUSTA, F. F. Milk components inhibitory to *Bacillus stearothermophilus*. *J. Dairy Sci.* 51(6):842-847. Ref. June 1968. 44.8 J822
- 80159 BARNES, E. M., and IMPEY, C. S. Psychrophilic spoilage bacteria of poultry. *J. Appl. Bacteriol.* 31(1):97-107. Ref. Mar. 1968. 44.8 J822  
*Pseudomonas* and *Acetobacter*.
- 80160 BENCHETRIT, I., OCAMPO, J. C., and PAEZ, O. J. S. Comparative study of routine tests and their application to milk classification. (Sp) *Indus. Leche*. 49(581):309-312, 314. (Cont.) Dec. 1967. 44.8 In26  
English summary.
- 80161 BENINATI, F., and QUARONI, E. Characteristics of table cream and results of consumption in Milan. (It) *Latte* 42(2):99-101. Feb. 1968. 44.8 L35  
Chiefly bacterial content.
- 80162 BERLIN, E., ANDERSON, B. A., and PAL-LANSCH, M. J. Effect of water vapor sorption on porosity of dehydrated dairy products. *J. Dairy Sci.* 51(5):668-672. Ref. May 1968. 44.8 J822
- 80163 BJERRE, P. Crystallization of butterfat and effect of crystallization on consistency and spreadability of butter. (Da) *Nord. Mejeri-Tidsskr.* 34(3):50-51. 1968. 44.8 N752
- 80164 BOGDANOV, V. M. Achievements in the field of milk microbiology and production of canned milk. (Rus) *Moloch. Prom.* 12:6-8. Dec. 1967. 44.8 M734  
Research programs.
- 80165 BOOY, C. J. Determination of the salt content of cheese. (Du) *Ned. Zuivelbond. Offic. Or-gaan*. 60(7):188-189. Feb. 14, 1968. 44.9 AL3
- 80166 BUMA, T. J., and WIEGERS, G. A. X-ray powder patterns of lactose and unit cell dimensions of  $\beta$ -lactose. *Ned. Melk- Zuivelijdschr* 2(3/4):208-213. Dec. 1967. 44.8 N283
- 80167 BURT, R. A. Milk grading at dairy factories: The methylene blue test. *Dairyfarming Dig.* 15(2):36-40. Mar./Apr. 1968. 44.8 D143
- 80168 CAMPBELL, L. B., WATHOUS, G. H., and KEENEY, P. G. Effect of several natural phospholipids and a cerebroside on lipolytic activity of bovine milk. *J. Dairy Sci.* 51(6):910-912. June 1968. 44.8 J822
- 80169 CHAMBERS, G., GRIER, G. M., and SHANNON, R. S. The farm background to positive antibiotic tests. *Dairy Indus.* 33(5):303-305. May 1968. 44.8 D1427  
Residue tests in Northern Ireland milk.
- 80170 DECIO, G. The rapid determination of proteins in milk. (It) *Latte* 42(2):105. Feb. 1968. 44.8 L35
- 80171 DEUTSCHE LANDWIRTSCHAFTS-GESELLSCHAFT. MARKTABTEILUNG. Prüfungsbestimmungen 1968; Qualitätsprüfungen für Milch und Milcherzeugnisse [Testing provisions 1968; quality tests for milk and dairy products]. Frankfurt am Main, 1968. 115 p. 44.9 D482
- 80172 DUISCHAEVER, C. L., and ASHTON, G. C. Comparison of counts using a breed-type smear and millipore membrane methods on fresh and preserved milk samples. *J. Dairy Sci.* 51(5):665-667. May 1968. 44.8 J822  
Bacterial and cell counts.
- 80173 DUISCHAEVER, C. L., ASHTON, G. C., and SINGH, J. Uniformity of solids on smears of milk containing glycine-2-<sup>14</sup>C and its relation to cell distribution. *J. Dairy Sci.* 51(5):660-664. Ref. May 1968. 44.8 J822
- 80174 DUNKLEY, W. L., FRANKE, A. A., and ROBB, J. Tocopherol concentration and oxidative stability of milk from cows fed supplements of d or dl- $\alpha$ -tocopherol acetate. *J. Dairy Sci.* 51(4):531-534. Apr. 1968. 44.8 J822
- 80175 D'YACHENKO, P. F., and ALEKSEEVA, N. YU. Studying caseinate-calcium-phosphate complexes in milk. (Rus.) *Moloch. Prom.* 3:24-26. Mar. 1968. 44.8 M734
- 80176 ERWIN, L. J. Copper content and serum pH of Victorian export butter. *Australian J. Dairy Technol.* 23(1):18-20. Mar. 1968. 44.8 Au74
- 80177 FOX, P. F., and TARASSUK, N. P. Bovine milk lipase. I. Isolation from skimmilk. *J. Dairy Sci.* 51(6):826-833. June 1968. 44.8 J822
- 80178 GARDINER, K. D., and MCGANN, T. C. A. Survey of milk composition in the Dublin liquid milk area. *Irish J. Agr. Res.* 7(1):37-48. Ref. Apr. 1968. 10.5 Ir45
- 80179 GAVIN, M. Tests for the control of stirred yoghurt. (Fr) *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. E/F:663-668. 1966. SF223.15 1966 v.5  
English summary, p.905.
- 80180 GHEORGHE, V., and MANU, V. Contribution to the study of the polarography and bacteriology of pasteurized milk at high temperatures. (Fr) *Lait* 47(469/470):587-604. Ref. Nov./Dec. 1967. 44.8 L143  
English summary.
- 80181 GIROUX, R. N. Salmonella and other bacteria which keep the dairy industry busy. (Fr) *Quebec Lait. Aliment.* 27(2):8-12. Feb. 1968. 44.8 Q3
- 80182 GONZALES-JANOLINO, V. T. The creaming properties of carabaos' milk. II. A study of the factors influencing the creaming ability of carabaos' milk. *Milchwissenschaft* 23(4):204-207. Ref. Apr. 1968. 44.8 M5933  
Chiefly heat effects.
- 80183 GRINDROD, J., and NICKERSON, T. A. Effect of various gums on skimmilk and purified milk proteins. *J. Dairy Sci.* 51(6):834-841. June 1968. 44.8 J822
- 80184 GROUEV, P. Studies on the microbiology of "Brano Mliako," a lactic acid product prepared in certain Bulgarian mountain regions. (Fr) *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. E/F:681-688. 1966. SF223.15 1966 v.5  
English summary, p.908.
- 80185 HOFFER, H., and FORSTER, R. Biometric examination on Milko-Tester with special consideration of the influence of current fluctuations on the measuring result. (Ge) *Osterr. Milchwirt.* 23(7, wiss. beilage 2):5-9. Apr. 7, 1968. 44.8 Os72  
English summary.  
Milk fat determination.
- 80186 JANKOV, J., and STOYANOV, I. Study on the thermophilic lactobacilli in milk for yoghurt production. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. E/F:677-680. Ref. 1966. SF223.15 1966 v.5

- 80187 JONES, G. A., CHENG, K. J., and GIBSON, D. L. What is the significance of coliform contamination of pasteurized products? *Can. Dairy Ice Cream J.* 47(4):15-16. Apr. 1968. 44.8 C162
- 80188 KADERAVEK, G., and PRATI, F. Spectrophotofluorimetric methods for determination of vitamins B<sub>1</sub> and B<sub>2</sub> in cheese products. (It) *Riv. Ital. Sostanze Grasse* 45(3):138-139. Mar. 1968. 307.8 OL3  
English summary.
- 80189 KAY, H. Ice cream in the quality test. (Ge) *Molk-Zeitung Welt Milch* 22(15):428-430. Apr. 21, 1968. 44.8 M735
- 80190 KAY, H. Investigations on the determination of fat in cheese by butyrometry. (Ge) *Deut. Molk.-Zeitung* 88(49):1992-1994. Dec. 7, 1967. 44.8 Su2
- 80191 KEENAN, T. W., and BILLS, D. D. Volatile compounds produced by *Propionibacterium shermanii*. *J. Dairy Sci.* 51(5):797-799. Ref. May 1968. 44.8 J822  
In Swiss cheese.
- 80192 KELLER, H. Research on the use of the resazurin test for deep-cooled stored delivery milk. (Ge) *Deut. Molk.-Zeitung* 89(13):483-485. Mar. 28, 1968. 44.8 Su2
- 80193 KIRCHMEIER, O. Quantitative amino acid analyses and electropherograms for the problem of identical reproduction of casein. (Ge) *Hoppe-Seyler's Z. Physiol. Chem.* 349(1):29-36. 1968. 384 Z38  
English summary.
- 80194 KIRK, J. R., HEDRICK, T. I., and STINE, C. M. Gas chromatographic study of flavor deterioration in high-temperature short-time fluid sterile milk. *J. Dairy Sci.* 51(4):492-497. Ref. Apr. 1968. 44.8 J822
- 80195 LANGNER, E. H., NOVELLO, J. C., and JOOSTE, P. J. The composition and content of South African butter. (Af) *Dairy Indus. J. Southern Afr.* 8(1):39, 41, 43, 45-46. Jan./Mar. 1968. 44.8 D1428
- 80196 LEDFORD, R. A., CHEN, J. H., and NATH, K. R. Degradation of casein fractions by rennet extract. *J. Dairy Sci.* 51(5):792-794. May 1968. 44.8 J822
- 80197 LEMBKE, A., MOEBUS, O., and WASSERFALL, F. A sensitive method of quantitative determination of nitrate in cheese. (Ge) *Milchwissenschaft* 23(4):211-213. Apr. 1968. 44.8 M5933  
English summary.
- 80198 LESKOVA, R. Rapid determination of protein content of milk. (Ge) *Wien. Tierarztl. Monatsschr.* 54(12):830-834. Ref. 1967. 41.8 T345  
English summary.
- 80199 LODI, F. Characteristics of milk delivered to the central station in relation to barn conditions. (It) *Latte* 42(2):106-107. Feb. 1968. 44.8 L35  
Bacterial content in relation to loose housing of cattle.
- 80200 LUHIALA, A., and ANTILA, M. Lipases and lipolysis of milk. (Ge) *Fette-Seifen Anstrichm.* 70(4):280-288. Ref. Apr. 1968. 384 C422  
English summary.
- 80201 LUHTALA, A., RAUTIAINEN, A., and ANTILA, M. The composition of Finnish reindeer's milk. (Ge) *Suomen Kem. B.* 41(1):6-9. Ref. 1968. 385 Su7
- 80202 LYALL, A. A scheme for evaluating chemical analyses of Cheddar cheese. *Australian J. Dairy Technol.* 23(1):30-31. Mar. 1968. 44.8 Au74
- 80203 MANSON, W. Reaction of basic dyes with  $\alpha$ - and  $\beta$ -casein. *Arch. Biochem. Biophys.* 122(2):370-377. Ref. Nov. 1967. 381 Ar2
- 80204 MARCIL, B. Where do the neutralizing bodies go? (Fr) *Quebec Lait. Aliment.* 27(3):18. Mar. 1968. 44.8 Q3  
Of skimmed milk destined for powder.
- 80205 MAZJUKEVICH, V. Biochemistry of the microflora in fermented dairy products. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. E/F: 607-616. 1966. SF223.15 1966 v.5
- 80206 MELNYCHYN, P., and WOLCOTT, J. M. Simple procedure for isolation of alpha<sub>2</sub>-casein. *J. Dairy Sci.* 50(12):1863-1867. Ref. Dec. 1967. 44.8 J822  
Electrophoresis.
- 80207 MILLER, I., and KANDLER, O. Free amino acids in fermented milks. (Ge) *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. E/F:625-635. 1966. SF223.15 1966 v.5  
English summary, p.899.
- 80208 MYHR, A. N. Factors which influence the butyrate test of milk. *Ontario. Dep. Agr. Publ.* 179, 3 p. Mar. 1968. 7 On8P
- 80209 NAIK, V. R., and NADKARINI, G. B. Adaptive alterations in the fermentative sequence of *Lactobacillus casei*. *Arch. Biochem. Biophys.* 123(3):431-437. Ref. Mar. 11, 1968. 381 Ar2
- 80210 NAKANISHI, T. Gyunyū to nyuseihin no biseibutsu [Microorganisms of milk and milk products]. Tokyo, Chikyu Shuppan, 1967. 327 p. Ref. QR121.N3
- 80211 NAKANISHI, T., and ITOH, T. Studies on the changes of the milk casein by various treatments. IV. Changes of the casein solution by heat treatment. (Ja) *Agr. Chem. Soc. Jap. J.* 41(4):130-134. Ref. 1967. 385 Ag8  
English summary.
- 80212 NIELSEN, F. S., and NIELSEN, P. S. Kefir milk. (Ge) *Molk.-Kaserei-Zeitung* 19(12):383-384. Mar. 20, 1968. 44.8 M736  
Microbiology, chemistry, and manufacture.
- 80213 NISHIMOTO, T., UYETA, M., and TAUE, S. Analysis of benzoic acid in fermented milk. (Ja) *Food Hyg. Soc. Jap. J.* 9(1):60-62. Feb. 1968. 389.9 N57
- 80214 NISHIMOTO, T., and others. Bacterial formation of benzoic acid in milk. *Food Hyg. Soc. Jap. J.* 9(1):58-59. Feb. 1968. 389.9 N57  
M. Uyeta, S. Taue, and I. Takebayashi, joint authors.
- 80215 O'KEEFFE, M. G. Infra red analysis of milk. *Irish Agr. Creamery Rev. (n.s.)* 21(412):7-9. Apr. 1968. 44.8 C866
- 80216 O'KEEFFE, M. G. Methods of mass chemical analysis of milks. *Soc. Dairy Technol.* 21(2):107-110. Ref. Apr. 1968. 44.8 So12
- 80217 PARODI, P. W., and DUNSTAN, R. J. Unsaponifiable fraction of butterfat: contamination with phthalic acid esters. *Australian J. Dairy Technol.* 23(1):20-21. Mar. 1968. 44.8 Au74  
In relation to detection of adulteration.
- 80218 PORTMANN, A., PIERRE, A., and VEDRENNE, P. Relationship between cheese yielding capacity of goat's milk and its fat and protein content. (Fr) *Rev. Lait. Franc.* 251:97-101. Feb. 1968. 44.8 In2  
English summary.
- 80219 REBINDER, P. A., and VLODAVETS, I. N. The problems of physical chemistry of milk. (Rus) *Moloch. Prom.* 12:1-3. Dec. 1967. 44.8 M734  
Research programs in the USSR.
- 80220 REDDY, M. C., and others. Ester production by *Pseudomonas fragi*. I. Identification and quantification of some esters produced in milk cultures. *J. Dairy Sci.* 51(5):656-659. Ref. May 1968. 44.8 J822  
D. D. Bills, R. C. Lindsay, L. M. Libbey, A. Muller, and M. E. Morgan, joint authors.
- 80221 RENNER, E., and KIERMEIER, F. On the validity of the reductase test for the suitability of milk for cheese making. (Ge) *Deut. Molk.-Zeitung* 88(50):2030-2032. (Concl.) Dec. 14, 1967. 44.8 Su2
- 80222 RUHNAU, B., and KOENEN, K. Reflection measurement on cocoa milk drinks. (Ge) *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. E/F: 703-706. 1966. SF223.15 1966 v.5  
English summary, p.912.



- 80223 SALVADORI, P., and SALVADORI, B. B. Preliminary observations on the action on some fatty acids by different strains of *Penicillium roqueforti*. (Fr) *Lait* 47(469/470):605-611. Nov./Dec.1967. 44.8 L143  
English summary.  
In milk fat.
- 80224 SAUCIER, A. A conclusive experiment concerning milk quality. (Fr) *Quebec Lait. Aliment.* 27(4):12-13. Apr.1968. 44.8 Q3  
Test.
- 80225 SCHARPF, L. G., and KICHLIN, T. P. Effect of phosphorus and pH on type and extent of crystal formation in process cheese. *J. Dairy Sci.* 51(6):853-857. June 1968. 44.8 J822
- 80226 SCHARPF, L. G., and MICHNICK, M. J. In situ identification of crystals on process cheese by X-ray diffraction. *J. Dairy Sci.* 50(12):1989-1991. Dec.1967. 44.8 J822
- 80227 SCHIPPER, C. J., and others. Determination of the cell count in milk for determination of quality. (Du) *Ned. Zuivelbond. Offic. Orgaan* 60(17):466-468. Apr.24,1968. 44.9 AL3  
A. J. Dijkman, G. Posthumus, and C. J. Booy, joint authors.
- 80228 SCHORMULLER, J., GRAMPP, E., and BELITZ, H. D. Changes in milk proteins through the action of carbonyl compounds. I. Reaction of casein with ethanal. (Ge) *Z. Lebensmittel-Untersuchung - Forsch.* 136(5):271-278. Ref. 1968. 384 Z39
- 80229 SCHROEDER, S. A. What the sanitarian should know about salmonellae and staphylococci in milk and milk products. *J. Milk Food Technol.* 30(12):376-380. Ref. Dec.1967. 44.8 J824
- 80230 SILVERSIDES, H. E. Tests on fermentation-derived rennet. *Australian J. Dairy Technol.* 23(1):21. Mar.1968. 44.8 Au74
- 80231 SIMMONART, P., POFER, R., and WECKX, M. Microbiological quality of bacteriostatic milk. *Ned. Melk- Zuiveltijdschr.* 2(3/4):139-149. Ref. Dec.1967. 44.8 N283
- 80232 SINGH, A., and others. Proteolytic and microbial changes during ripening of Cheddar cheese using bacterial enzyme as milk coagulating agent. *J. Dairy Sci.* 50(12):1886-1890. Ref. Dec.1967. 44.8 J822  
A. Singh, R. K. Kula, S. M. Dutta, I. J. Babbar, R. A. Srinivasan, and A. T. Dudani, joint authors.
- 80233 SMITH, D. R., and SNOW, N. S. Studies on coprecipitates of milk proteins. 3. Factors affecting behaviour in aqueous dispersions. *Australian J. Dairy Technol.* 23(1):8-14. Ref. Mar.1968. 44.8 Au74
- 80234 SOBECK-SKAL, E. On the detection of the re-infected coliform flora in pasteurized milk. (Ge) *Osterr. Milchwirt. (Wissenschaftliche Beilage)* 23(2):1-4. Ref. Jan.21,1968. 44.8 Os72  
English summary
- 80235 STANTON, R. E., and HARDWICK, A. J. The determination of molybdenum in milk with zinc dithiol. *Analyst* 93(1104):193. Mar.1968. 382 An1
- 80236 STOLL, W. F., and MORRIS, H. A. Reversible gelation of paracasein gels. *J. Dairy Sci.* 51(5):794-795. May 1968. 44.8 J822
- 80237 TADAYON, R. A. *Brucella abortus* in milk supplied to Glasgow. *J. Appl. Bacteriol.* 31(1):145-150. Ref. Mar.1968. 44.8 Sol2
- 80238 THOMAS, T. D., and BATT, R. D. Survival of *Streptococcus lactis* in starvation conditions. *J. Gen. Microbiol.* 50(3):367-382. Ref. Mar. 1968. 44.8 J823
- 80239 TUSZYNSKI, W., and ZIELINSKA, K. Some relationships between the calcium equilibrium and the coagulation of renneted milk. (Ge) *Milch-wissenschaft* 23(4):208-211. Ref. Apr.1968. 44.8 M5933  
English summary.
- 80240 UUSI-RAUVA, E. The immunoglobulins in milk. (Fi) *Suomen Kem. A.* 41(1):8-10. 1968. 385 Su7
- 80241 VASSAL, L., and AUCLAIR, J. Variations in the acid production by yoghurt bacteria in bulk milk. (Fr) *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. E/F:669-676. 1966. SF223.15 1966 v.5  
English summary, p.906.
- 80242 VILJANEN, M. The reductase test at the milk control stations and dairies. (Fi) *Suomen Eläinlääkäri-lehti* 74(4):135-140. Ref. 1968. 41.8 F49  
English summary.
- 80243 WALSTRA, P. On the crystallization habit in fat globules. *Ned. Melk- Zuiveltijdschr.* 2(3/4):166. Dec.1967. 44.8 N283  
Butter.
- 80244 WHITEHEAD, J., and SHERMAN, P. Texture of ice cream. IV. The influence of fat content and coagulated fat on the structure of melted ice cream. *Food Technol.* 21(11):107-110. Nov. 1967. 389.8 F7398
- 80245 WOODROW, I. L., and DEMAN, J. M. Distribution of trans-unsaturated fatty acids in milk fat. *Biochim. Biophys. Acta.* 152(3):472-478. Ref. May 1,1968. 381 B522
- 80246 WORTMANN, A. Electron microscopic studies of the casein particles in baby foods. (Ge) *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. E/F:569-579. 1966. SF223.15 1966 v.5  
English summary, p.892.
- 80247 YAGUCHI, M., and TARASSUK, N. P. Gel filtration of acid casein and skimmilk on Sephadex. *J. Dairy Sci.* 50(12):1985-1988. Ref. Dec.1967. 44.8 J822
- 80248 ZEHREN, V. L., and ZEHREN, V. F. Examination of large quantities of cheese for staphylococcal enterotoxin A. *J. Dairy Sci.* 51(5):635-644. May 1968. 44.8 J822
- 80249 ZEHREN, V. L., and ZEHREN, V. F. Relation of acid development during cheesemaking to development of staphylococcal enterotoxin A. *J. Dairy Sci.* 51(5):645-649. Ref. May 1968. 44.8 J822

#### Consumption and Utilization

- 80250 GRANT, H. B. Changes in attitudes. (Fr) *Quebec Lait. Aliment.* 27(1):13-14. Jan.1968. 44.8 Q3  
Consumer preferences for dairy products.
- 80251 HADLAND, G. Ultra pasteurized, UHT, cow's and goat's milk as a sterile medium and in nutrition. (No) *Meieriposten* 17:323-326. Apr.27, 1968. 44.8 M47  
English summary.
- 80252 HAMILTON, S. A. Milk's best customers; the kids speak up. *Vt. Farm Home Sci.* 10(3):6-7. Spring 1968. 100 V593  
Flavor preferences.
- 80253 JANZEN, J. J., and ROGERS, J. M. Preference and acceptance of solids-enriched milk in homes. *J. Dairy Sci.* 50(12):1882-1885. Dec.1967. 44.8 J822
- 80254 LUNDSTEDT, E., WERSTO, P. A., and DUNCAN, J. F. Consumer preferences for flavor and body style in Cottage cheese. *Cult. Dairy Prod. J.* 2(4):4-6, map. In *Milk Dealer* 57(8). May 1968. 44.8 M595
- 80255 ZEHNER, M. D., and LARZELERE, H. E. Imitation milk as viewed by a consumer panel. *Mich. State Univ. [Ext] Agr. Econ. Rep.* 92, 10 p. Apr.1968. 281.9 M5842

#### Distribution, Marketing, and Transportation

- 80256 BARTLETT, R. W. How can fluid milk compete successfully with imitation milk? III. *Agr. Econ.* 8(1):1-9. Ref. Jan.1968. 281.9 IL61  
Marketing.
- 80257 BORNEMANN, P. Free competition and regulation of competition—even for the dairy industry. (Ge) *Deut. Molck.-Zeitung* 89(18):751-753. May 2,1968. 44.8 Su2  
In the European Economic Community.

- 80258 GAMBONINI, R. A dairyman evaluates California's milk pooling plan. *West. Dairy J.* 24(7):18A-18C. May 1968. 44.8 W524
- 80259 HANSEN, R. Modern milk distribution in Jonkoping. (Da) *Nord. Mejeri-Tidsskr.* 33(9):173-175. 1967. 44.8 N752  
German summary.
- 80260 HARRACH, GRAF. Milk marketing in Great Britain. (Ge) *Molk.-Zeitung Welt Milch* 22(22):781-782,785. May 31,1968. 44.8 M735
- 80261 HARRACH, GRAF. Milk marketing in Great Britain. (Ge) *Molkerei-Kaserei-Zeitung* 19(18):641-643. May 2,1968. 44.8 M736
- 80262 KOBAYASHI, K. Costs and efficiency in milk hauling. *Quart. J. Agr. Econ.* 22(2):39-98. Apr.1968. 22.5 N687
- 80263 KÖHNERT, W. Visits to plants, lasting advertising without large expenditure. (Ge) *Molk.-Kaserei-Zeitung* 19(10):320-322. Mar.6,1968. 44.8 M736  
Showing dairy plants to students, housewives, and others.
- 80264 KROSTITZ, W. Whither with the dried milk surplus? (Ge) *Molk.-Kaserei-Zeitung* 19(16):513-514. Apr.18,1968. 44.8 M736  
European Common Market.
- 80265 LANGLOIS, B. E., and RUDNICK, A. W. Where is chocolate-flavored milk in the marketplace? *Amer. Dairy Rev.* 30(6):30-31,106-107. June 1968. 44.8 Am38
- 80266 LEHIGH VALLEY COOPERATIVE FARMERS. Annual report for the year ending January 31, 1968. n. p., 1968. 23 p. 280.29 L52  
Milk cooperative.
- 80267 LEMBERG, B. The Central Cooperative Enigheten [Centrallaget Enigheten] is 50 years old. (Sw) *Mejeritidskrift* 30(2):36-44. Apr.1968. 44.8 M472  
Dairy cooperative in Finland.
- 80268 LINDAHL, B., and others. Tests on automated cleaning device for truck tanks. *Int. Dairy Congr.* [Proc.], 17th Congr., Sect. E/F:461-465. 1966. SF223.15 1966 v.5  
G. Bresby, E. Bertelsen, and K. Wallgren, joint authors.
- 80269 MATTSON, R. Development of the dairy industry within the Dairy Cooperative Enigheten [Mejeriförbundet Enigheten]. (Sw) *Mejeritidskrift* 30(2):44-48. Apr.1968. 44.8 M472  
Finland.
- 80270 MILANOVIC, P. The production of commodities and marketing on Yugoslav and foreign markets. Discriminatory practices and dumping prices are hurting cattle breeding and dairy industry. (Se) *Glasnik* 12(3):20-24. 1968. 280.28 Z13
- 80271 NEIDERREUTHER, T. Problems of the EEC butter market. (Ge) *Molk.-Zeitung Welt Milch* 22(10):289-290. Mar.8,1968. 44.8 M735
- 80272 NEW ZEALAND MILK BOARD. Fourteenth annual report and statement of accounts for the year ended August 31, 1967. Wellington, 1968. 61 p. 280.3449 N482
- 80273 PANERAS, E. D., and JORDAN, W. K. Effects on milk of transportation through a pilot-plant pipeline. *J. Dairy Sci.* 51(6):817-825. Ref. June 1968. 44.8 J822
- 80274 RADKE, R. Milk marketing cooperators become bakery cooperators. (Ge) *Landarbeit* 19(3):18-19. Mar.1968. 18 L2355  
Establishment of a bakery by the Bad Kreuznach Milk Marketing Cooperative (Milchabsatzgenossenschaft Bad Kreuznach).
- 80275 ROCKSEISEN, A. The market for dried milk in the FRG. (Ge) *Molk.-Zeitung Welt Milch* 22(22):777-779. May 31,1968. 44.8 M735
- 80276 ROCKSEISEN, A. The market for dried milk in the FRG. (Ge) *Molk.-Zeitung Welt Milch* 22(21):758-759. May 24,1968. 44.8 M735
- 80277 ST. JOHN, W. K. Markets are deteriorating. *Can. Food Indus.* 39(5):29-31. May 1968. 286.83 C166  
Dairy products.
- 80278 SAWYER, W. California pooling: the view in favor of a single statewide pool. *West. Dairy J.* 24(7):12D. May 1968. 44.8 W524
- 80279 SEIDLER, K. Problem of marketing in drinking milk dairies. (Ge) *Deut. Molk.-Zeitung* 89(16):604-606,608-610. Apr.18,1968. 44.8 Su2
- 80280 STROBL, J. The problem of milk delivery. (Fr) *Quebec Lait. Aliment.* 27(1):6-7. Jan. 1968. 44.8 Q3
- 80281 SYLVESTER, E. Dairy co-ops' reports show plusses. *News Farmer Coop.* 35(3):13,23-24. June 1968. 166.2 N47
- 80282 UJHELYI, S., and BALATONI, M. A method of mechanical cleaning of milk collecting tankers and its results. (Ge) *Int. Dairy Congr.* [Proc.], 17th Congr., Sect. E/F:453-460. 1966. SF223.15 1966 v.5  
English summary, p.875.

#### Grading, Inspection, Standardization, and Quality

- 80283 ABO-ELNAGA, I. G. On the blowing of cans of white brined cheese. (Ge) *Milchwissenschaft* 23(4):198-200. Ref. Apr.1968. 44.8 M5933  
English summary.
- 80284 BALLARD, P. J. M. After decimal currency metric weights and measures? *Town Milk* 16(1):26-31. Feb.1968. 44.8 T66  
In relation to the New Zealand milk industry.
- 80285 BAUMGARTNER, H. The influence of antibiotics on milk quality. (Ge) *Schweiz. Milchzeitung* 94(31):241-242. Apr.17,1968. 44.8 Sch92
- 80286 BROOKES, H. New developments in longlife milk and dairy products. *Dairy Indus.* 33(5):306-307. May 1968. 44.8 D1427
- 80287 BURKHALTER, G. Definition of cheese consistency types. *Int. Dairy Fed. Annu. Bull.* 1968(2),24 p. 44.9 In82A  
Text also in French.
- 80288 CASALIS, J., LUQUET, F. M., and FONTAINE, F. Defects of jellified milk due to different varieties of *Leuconostoc*. (Fr) *Rev. Lait. Franc.* 251:89-94. Ref. Feb.1968. 44.8 In2  
English summary.
- 80289 CHERNYKH, G. V., and KOLODKIN, A. M. The quality of milk on the farms in the Irkutsk Region. (Rus) *Zhivotnovodstvo* 3:47-50. Mar. 1968. 49 Z6
- 80290 CHRISTENSEN, N. Automatic batch weighing system. *S. Dairy Prod. J.* 82(5):76-79. May 1968. 44.8 So85
- 80291 HOURAN, G. A. Uniform sanitary standards. *Food Eng.* 40(4):96-99. Apr.1968. 389.8 F737  
Dairy industry.
- 80292 JEFFERY, H. H. Aspects of milk quality as seen by a milk quality controller. *Soc. Dairy Technol. J.* 21(2):78-84. Apr.1968. 44.8 So12  
In Great Britain.
- 80293 KEILLING, J. The quality of cheese in pastry. (Fr) *Tech. Lait.* 587:13-16. Mar.20,1968. 44.8 Of2
- 80294 KIELSZNIA, R. The typing of the bacteriological quality of cooled milk with the use of methylene blue. (Pol) *Med. Weter.* 24(3):175-177. Mar.1968. 41.8 M463
- 80295 KOENEN, K. The quality of German whipping cream. (Ge) *Molk.-Kaserei-Zeitung* 19(20):722-726. May 15,1968. 44.8 M736
- 80296 MONTOURE, J. E., and MULDOON, P. D. Distribution and stability of DDE, DDD, and DDT in Monterey and Cheddar cheese during manufacture and storage. *J. Dairy Sci.* 51(6):858-862. Ref. June 1968. 44.8 J822
- 80297 NIKOLAEV, A. M. The all-Union cheese contest on quality. (Rus.) *Moloch. Prom.* 3:17-22. Mar.1968. 44.8 M734
- 80298 RUMYANTSEV, YU. S., and SHAMES, V. A. Automatic registering apparatus on the milk tanks. (Rus.) *Moloch. Prom.* 3:31-34. Mar. 1968. 44.8 M734



- 80299 SAITNER, M. 20 years of DLG cheese testing. (Ge) Molk.-Kaserei-Zeitung 19(19):682-683. May 8, 1968. 44.8 M736
- 80300 SAITNER, M. 20 years of DLG cheese testing. (Ge) Molk.-Zeitung Welt Milch 22(19):675-677. May 10, 1968. 44.8 M735
- 80301 SAITNER, M. 20 years of DLG butter testing. (Ge) Molk.-Zeitung Welt Milch 22(21):749-750. May 24, 1968. 44.8 M735
- 80302 SCHIPPER, C. J. Milk and milk sanitation. (Du) Neth. Dir. Landbouw. Landbouvoorlichting 25(4):181-185. Apr. 1968. 12 N383M  
Includes composition.
- 80303 STADHOUDERS, J., and VERINGA, H. A. Texture and flavour defects in cheese caused by bacteria from contaminated rennet. Ned. Melk-Zuiveltijdschr. 2(3/4):192. Dec. 1967. 44.8 N283
- 80304 ŠUKEGAMA, K., and others. Studies on the antibody produced in milk. 5. (Ja) Jap. Soc. Food Nutr. J. 20(1):9-13. Ref. 1967. 389.9 J27  
H. Handa, H. Iida, N. Sakurada, Y. Ohwada, and T. Nagashima, joint authors.  
English summary.
- 80305 TAMSMA, A., and others. Flavor of recombinated milk. J. Dairy Sci. 50(12):1878-1881. Dec. 1967. 44.8 J822  
F. E. Kurtz, E. Berlin, and M. J. Pallansch, joint authors.
- 80306 TUCKEY, S. L., and STADHOUDERS, J. Increase in the sensitivity of the organoleptic detection of lipolysis in cows' milk by culturing or direct acidification. Ned. Melk-Zuiveltijdschr. 2(3/4):158. Dec. 1967. 44.8 N283
- 80307 WAES, G., and DEVOGELAERE, R. Deterioration of a soured sterilized milk product by anaerobic spore-forming bacteria. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F: 581-586. 1966. SF223.15 1966 v.5  
English summary, p.893.
- 80308 WHITE, J. C. Uniform milk labeling. Amer. Dairy Rev. 30(6):67,92-93. June 1968. 44.8 Am38

#### Packing and Packaging

- 80309 DOWNEY, W. K., and MURPHY, M. F. Light-barrier properties of various butter-wrapping materials. Soc. Dairy Technol. J. 21(2):104-106. Apr. 1968. 44.8 So12
- 80310 FLUCKIGER, E., and RENTSCH, C. Contribution to the evaluation of the relations between fat and pentane solubility of plastics. (Ge) Alimentia 7(2):41-45. Ref. Mar./Apr. 1968. TP368.A4  
Plastics used in packing dairy products.
- 80311 FLUCKIGER, E., and RENTSCH, C. Contribution to the investigation of relations between fat and pentane solubility of plastics. (Ge) Deut. Molk.-Zeitung 88(48):1957-1960. Ref. Nov. 30, 1967. 44.8 Su2  
Used in the packing of dairy products.
- 80312 KOCH. Packing of liquid dairy products. (Ge) Molk.-Zeitung Welt Milch 22(16):456-457,460. Apr. 19, 1968. 44.8 M735
- 80313 KOCH, G. Consumer-directed packing for the future market. (Ge) Deut. Molk.-Zeitung 88(49):1994-1995. Dec. 7, 1967. 44.8 Su2  
Dairy products.
- 80314 SACHAROW, S. Packs that could boost bulk ice cream sales. Dairy Indus. 33(5):317. May 1968. 44.8 D1427
- 80315 STREIT, W. Control of bottling. (Ge) Deut. Molk.-Zeitung 89(16):616-617. Apr. 18, 1968. 44.8 Su2
- 80316 STRUSS. Aluminum milk cans—light, sanitary, and durable. (Ge) Milchwirtsch. Ber. Bundesanst. Rotholz 14:55. (Cont.) Mar. 1968. 44.8 M5998

#### Prices, Price Control, and Rationing

- 80317 DAVIDSON, B. R. The economic efficiency of the Australian dairy industry. S. Australian Dairymen's J. 7(4):2-4,7,9-12,15,18-19. Jan./Feb. 1968. 44.8 So86  
Price control by production and subsidies. Includes discussion.
- 80318 GERMANY (FEDERAL REPUBLIC). BUNDESMINISTERIUM FÜR ERNÄHRUNG, LANDWIRTSCHAFT UND FORSTEN. WISSENSCHAFT-LICHER RAT. Vorschläge zur Milchpreispolitik [Proposals on milk price policy]. Ger. (Fed. Repub.). Bundesmin. Ernähr. Landwirt. Forsten. Landwirt.-Angew. Wiss. 132,13 p. Jan. 5, 1968. 18 G313E
- 80319 KIEFER, A. Absurdities in the cream price. (Ge) Molk.-Kaserei-Zeitung 19(16):511. Apr. 18, 1968. 44.8 M736
- 80320 NABAR, A. B. Price of milk and dairy development. Gosamvardsana 15(10):9-10,24. Jan. 1968. 43.8 G69

#### Processing and Storage

- 80321 ANDRUP, E. On starters. (No) (Extr.) Meieriposten 56(44):897-901; (45):918-923. Nov. 4-11, 1967. 44.8 M47
- 80322 ANGEVINE, N. C. Sources and trends of lactic cultures. Cult. Dairy Prod. J. 2(4):7-8. In Milk Dealer 57(8). May 1968. 44.8 M595
- 80323 AULE, O., and LUNDAHL, L. Cleaning-in-place of dairy centrifuges. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:513-516. 1966. SF223.15 1966 v.5
- 80324 AUSTRALIA. COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION. DIV. OF DAIRY RESEARCH. Report, 1967. Melbourne, 1968. 40 p. 44.9 Au75
- 80325 BAUR, Structural improvement in the Allgau Emmental cheese industry through firm merger. (Ge) Milchwirtsch. 13:57-63. Feb. 1968. 44.8 M5998
- 80326 BAUSTIAN, H. P. New procedures in cheese manufacture. (Ge) Fette-Seifen Anstrichm. 70(4):300-302. Apr. 1968. 384 C422
- 80327 BEER, M., MEHNERT, D., and BEYER, H. Measurement of the cleaning process of dairy equipment with radioactive isotopes. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F: 473-483. 1966. SF223.15 1966 v.5  
English summary, p.879.
- 80328 BLAAUW, M. The problem of cheese molds. (Fr) Tech. Lait. 590:21-22. Apr. 20, 1968. 44.8 O12
- 80329 BLAAUW, J. Recent developments in the field of Gouda, Edam, and Cheddar cheese manufacture. (Du) Ned. Zuivelbond. Offic. Orgaan. 60(4):96-100. Jan. 24, 1968. 44.9 AL3
- 80330 BONGIRWAR, D. R., and KUMTA, U. S. Combined use of gamma irradiation and sorbic acid for preservation of indigenous evaporated milk product, Khoa. Food Irradiation 8(1/2):16-20. July/Dec. 1967. 389.8 F7383
- 80331 BOTEL, W., NIEWERTH, G. W., and VASTERLING, J. Cutting firmness of butter with various cream handling procedures. (Ge) Molk.-Kaserei-Zeitung 19(12):386-388. Mar. 20, 1968. 44.8 M736
- 80332 BRANDL, E. The microflora of raw milk and its influencing by pasteurization. (Ge) Osterr. Milchwirt. 23(9):149-154. May 7, 1968. 44.8 Os72
- 80333 CHAPMAN, H. R., and BURNETT, J. A rennet/pepsin mixture for Cheddar cheese. Dairy Indus. 33(5):308-311. Ref. May 1968. 44.8 D1427
- 80334 DAUFIN, G., and SAINCLIVIER, M. Review of the bibliography of works on the corrosion of metals used in dairy industry. (Fr) Lait 47(469/470):613-632. Nov./Dec. 1967. 44.8 L143  
English summary.
- 80335 DICKERSON, R. W., and READ, R. B. Operating characteristics of a cleaned-in-place flow diversion valve. J. Dairy Sci. 51(5):810-814. May 1968. 44.8 J822  
Pasteurizers.

- 80336 DROSLER, G. Considerations and possibilities of improving the consistency in cheese production. (Ge) *Osterr. Milchwirt.* 23(9):155-161. May 7, 1968. 44.8 Os72
- 80337 EISENREICH, L. The cooling of milk by the producer from the viewpoint of modern milking and milk delivery systems. (Ge) *Fette-Seifen Anstrichm.* 70(4):298-300. Apr. 1968. 384 C422
- 80338 EISENREICH, L. Modern technique in Emmentaler cheese manufacture. (Ge) *Milchwirtsch.* 13:45-51. Feb. 1968. 44.8 M5998
- 80339 EMCH, F., PUHAN, Z., and ZOLLIKOFE, E. The influence of pressing on cheese. (Fr) *Schweiz. Milchzeitung* 94(11):79. Feb. 6, 1968. 44.8 Sch92
- 80340 ERWIN, L. J. Advantages of making butter from unneutralized factory separated cream of low copper content. *Australian J. Dairy Technol.* 23(1):15-17. Ref. Mar. 1968. 44.8 Au74
- 80341 FALCH, H. Cream handling for improvement of butter consistency. (Ge) *Osterr. Milchwirt.* 23(8):133-135. Apr. 21, 1968. 44.8 Os72
- 80342 FLUCKIGER, E. Low-cost care of Emmentaler cheese by storing the loaf on pads with airflow. (Ge) *Schweiz. Milchzeitung* 94(10):69-71. Feb. 2, 1968. 44.8 Sch92
- 80343 GALESLOOT, T. E., and HASSING, F. On the manufacture of stirred yoghurt with increased viscosity. (Du) *Alg. Zuivelbl.* 61(9):127-129. Apr. 29, 1968. 44.8 AL32
- 80344 GALESLOOT, T. E., and HASSING, F. On the manufacture of stirred yoghurt with increased viscosity. (Du) *Ned. Zuivelbond. Offic. Organ.* 60(18):488-490. May 1, 1968. 44.9 AL3  
English summary.
- 80345 GALESLOOT, T. E., and others. A sensitive method for the evaluation of cleaning processes, with a special version adapted to the study of the cleaning of tanks. *Ned. Melk- Zuiveltijdschr.* 2(3/4):214-222. Ref. Dec. 1967. 44.8 N283  
L. Radema, E. G. Kooy, and G. Hup, joint authors.
- 80346 GAVIN, M. Yoghurt manufacture: soldering with heat. (Fr) *Quebec Lait. Aliment* 27(2):16-17. Feb. 1968. 44.8 Q3
- 80347 GONZALEZ VARELA, M. Some modifications in the technology of lactose and whey proteins. (Sp) *Veterinaria [Madrid]* 33(3):133-136. Mar. 1968. 41.8 V6429
- 80348 GORINGER, H. The manufacture of ice cream and its treatment in food law. (Ge) *Fette-Seifen Anstrichm.* 70(4):295-298. Apr. 1968. 384 C422
- 80349 GREZE, J. P. A workable approach to control of Salmonella. *Amer. Dairy Rev.* 30(6):40, 43. June 1968. 44.8 Am38  
In food.
- 80350 GRIGOROV, H. Effect of heat treatment of cow's milk on the hydrophilic properties of the protein in Bulgarian yoghurt. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. E/F:649-654. Ref. 1966. SF223.15 1966 v.5
- 80351 GRIGOROV, H. Effect of various types of heat processing of cow's milk on the duration of the coagulation process and on the pH and acidometric titration values of Bulgarian sour milk (yoghurt). *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. E/F:643-647. Ref. 1966. SF223.15 1966 v.5
- 80352 GRIGOROV, H. Interrelation between heat treatment and homogenization of cow's milk and the quality and hydrophilic properties of the protein in Bulgarian yoghurt. (Ge) *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. E/F:655-661. Ref. 1966. SF233.15 1966 v.5  
English summary, p.903.
- 80353 GUR'YANOV, A. I., and LIPATOV, N. N. Investigating compression and filtration, while pressing coagulated cheese. (Rus) *Moloch. Prom.* 12:14-18. Dec. 1967. 44.8 M734
- 80354 HALL, C. W. New developments in dry milk processing. *Indian Dairyman* 20(1):15-21. Jan. 1968. 44.8 In282
- 80355 HANRAHAN, F. P., SELMAN, R. L., and WEBB, B. H. Experimental equipment for cooling and packaging foam-spray-dried milk in the absence of oxygen. *J. Dairy Sci.* 50(12):1873-1877. Ref. Dec. 1967. 44.8 J822
- 80356 HANSEN, R. Bigger cheese yield with centri whey. (Da) *Nord. Mejeri-Tidsskr.* 34(3):59-63. 1968. 44.8 N752  
German summary.
- 80357 HANSEN, R. Will a combination of press vats and cheese forms displace cheese cups, cheese cloths and cheese presses? (Da) *Nord. Mejeri-Tidsskr.* 33(8):151-152. 1967. 44.8 N752  
German summary.
- 80358 HATTOWSKA, H. Methods of microbiological evaluation of disinfectants used in dairying. (Fr) *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. E/F:525-529. 1966. SF223.15 1966 v.5  
English summary, p.887.
- 80359 HELDMAN, D. R. Air-borne contamination: its control in dairy plants. *Amer. Dairy Rev.* 30(6):38, 96-98. June 1968. 44.8 Am38
- 80360 HELDMAN, D. R., and HEDRICK, T. I. Dairy engineering progress in America. *Dairy Indus.* 33(5):312-316. May 1968. 44.8 D1427
- 80361 HELDMAN, D. R., HEDRICK, T. I., and HALL, C. W. Populations, sources and control of air-borne microorganisms in dairy plants. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. E/F:531-540. 1966. SF223.15 1966 v.5
- 80362 HOSONO, A. Production of volatile fatty acids by *Brevibacterium linens*. 1. Formation of volatile fatty acids from individual amino acids. *Jap. J. Zootech. Sci.* 39(4):156-161. Ref. Apr. 1968. 49 N62  
In cheese processing.
- 80363 IKONOMOV, L., and ENTCHIEV, S. Microbiological studies on the hygienic condition of equipment for pasteurization of cow's milk. (Fr) *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. E/F:467-471. 1966. SF223.15 1966 v.5  
English summary, p.878.
- 80364 JAGER, H. Milk as raw material in hard cheese manufacture. (Ge) *Milchwirtsch. Ber. Bundesanst. Wolfpassing Rotholz* 14:13-17. Mar. 1968. 44.8 M5998
- 80365 KIERMEIER, F., MAYR, A., and HANUSCH, J. The origin of volatile fatty acids in the propionic acid and butyric acid fermentation in Emmentaler cheese. I. Influence of propionic acid fermentation. (Ge) *Z. Lebensmittel-Untersuchung-Forsch.* 136(4):193-203. Ref., p.201-203. 1968. 384 Z39
- 80366 KNOOP, E. From the Dairy Research Station of the General Agricultural Association [Milchwirtschaftliche Versuchsstation des Landwirtschaftlichen Generalvereins] to the Federal Institute for Dairy Research [Bundesanstalt für Milchwirtschaft]. (Ge) *Kieler Milchwirtschafts. Forschungsber.* 20(1):9-25, map. Second Q. 1968. 44.9 K542
- 80367 KOSIKOWSKI, F. V. Producing nutritional beverages from acid whey powder and fruit juices. *Cult. Dairy Prod. J.* 2(4):2-3, 8. In *Milk Dealer* 57(8). May 1968. 44.8 M595
- 80368 KRASNOKUTSKII, YU. V., and MATIENKO, R. I. Studying the effect of mixing on dispersion of fat in milk. (Rus) *Moloch. Prom.* 12:22-25. Dec. 1967. 44.8 M734
- 80369 KURMANN, J. A. Biotechnical studies of manufacturing a mild and aromatic yoghurt. V. Deep freeze of stir-yoghurt, a new application of the cold treatment for the prolongation of its keeping quality. (Fr) *Schweiz. Milchzeitung* 94(27):211-212. Ref. Apr. 2, 1968. 44.8 Sch92  
English summary.
- 80370 KURMANN, J. A. Biotechnical studies on the manufacture of sweet and flavored yoghurt. (Fr) *Schweiz. Milchzeitung* 94(23):180. (Cont.). Mar. 19, 1968. 44.8 Sch92



- 80371 KURMANN, J. A. Causes of the quality improvement effect on Emmentaler and Gruyere cheeses by an inoculation of *Streptococcus faecalis* in low count raw milk. (Ge) *Milchwissenschaft* 23(4):193-198. Ref. Apr. 1968. 44.8 M5933  
English summary.
- 80372 KURZMANN, G. E. The purification of water. (Ge) *Molk.-Zeitung Welt Milch* 22(10):281-285. (Cont.) Ref. Mar. 8, 1968. 44.8 M735
- 80373 KURZMANN, G. E. The sanitizing of water. (Ge) *Molk.-Zeitung Welt Milch* 22(9):260-265. (Cont.) Mar. 1, 1968. 44.8 M735
- 80374 KYNAST, S. The Malente Dairy Educational and Research Institution [MLUA Malente, Milchwirtschaftliche Lehr- und Untersuchungsanstalt Malente], tradition and advancement. (Ge) *Molk.-Kaserei-Zeitung* 19(22):831-833, 835-836. May 29, 1968. 44.8 M736
- 80375 LEALI, L. Technological progress and the updating of milk legislation. (It) *Latte* 42(2):102-104. Feb. 1968. 44.8 L35
- 80376 LEMBKE, A. Microbiological problems in the management of cheese manufacture with special attention to hard cheese. (Ge) *Milchwirtschaft*, 13:37-43. Ref. Feb. 1968. 44.8 M5998
- 80377 LEMBKE, A. Milk research yesterday, today, and tomorrow. (Ge) *Kieler Milchwirtschafts. Forschungsber.* 20(1):35-42. Second Q. 1968. 44.9 K542
- 80378 LINDQVIST, B., and MAGNUSSON, F. Experiences from silicate-containing detergents with regard to corrosion of aluminium and scale formation. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. E/F:493-495. 1966. SF223.15 1966 v.5
- 80379 LINGONBLAD, O. Development of butter manufacture in the Swedish districts. (Sw) *Mejeritidskrift* 30(2):51-53. Apr. 1968. 44.8 M472  
Finland.
- 80380 LUCK, E. Sorbic acid as preservative for cheese. (Ge) *Deut. Molk.-Zeitung* 89(14):520-521. Ref. Apr. 4, 1968. 44.8 Su2
- 80381 MAIR-WALDBURG, H. On the study of research search problems by professional groups and at the EEC level. (Ge) *Deut. Molk.-Zeitung* 89(12):446-447. Mar. 21, 1968. 44.8 Su2
- 80382 MANN, E. J. Lactic beverages. *Dairy Indus.* 33(5):326-327. May 1968. 44.8 D1427  
Review of the literature.
- 80383 MARSHALL, R. O., and others. Large scale fixed bed ion-exchange system for removing iodine<sup>131</sup> and strontium-90 from milk. *J. Dairy Sci.* 51(5):673-678. May 1968. 44.8 J822  
E. M. Sparling, B. Heinemann, and R. E. Bales, joint authors.
- 80384 MELACHOURIS, N., and TUCKEY, S. L. Properties of a milk clotting microbial enzyme. *J. Dairy Sci.* 51(5):650-655. Ref. May 1968. 44.8 J822  
Isolated from *Bacillus cereus*.
- 80385 MERGL, M. The use of ultrafilters "synthesia" (membrane filters) in the control of efficiency of cleaning and sterility of dairy plants and packages. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. E/F:485-492. 1966. SF223.15 1966 v.5
- 80386 NEITZKE, and others. Costs of the Tilsit cheese production sector in relation to its size. (Ge) *Molk.-Kaserei-Zeitung* 19(21):801-806, 811-817. May 22, 1968. 44.8 M736  
Delfs, Schakel, and Kuhn, joint authors.
- 80387 OLENEV, YU. A. New raw materials for ice cream. (Rus) *Moloch. Prom.* 12:21-22. Dec. 1967. 44.8 M734
- 80388 PACK, M. Y., and others. Hydrogen peroxide-catalase milk treatment for enhancement and stabilization of diacetyl in lactic starter cultures. *J. Dairy Sci.* 51(4):511-516. Ref. Apr. 1968. 44.8 J822  
E. R. Vedamuthu, W. E. Sandine, and P. R. Elliker, joint authors.
- 80389 PONT, E. G., and HOLLOWAY, G. L. A new approach to the production of cheese starter. *Australian J. Dairy Technol.* 23(1):22-29. Mar. 1968. 44.8 Au74  
*Streptococcus lactis* and *S. cremoris*.
- 80390 PRIMATESTA, G. Reduce "collecting costs" and improve "quality." (It) *Mondo Latte* 21(12):877-880. Dec. 1967. 44.8 M74  
Milk refrigeration for tank collection.
- 80391 THE PROCESS cheese industry began 60 years ago. (Ge) *Deut. Molk.-Zeitung* 89(12):443-446. Mar. 21, 1968. 44.8 Su2
- 80392 QUARNE, E. L., LARSON, W. A., and OLSON, N. F. Effect of acidulants and milk-clotting enzymes on yield, sensory quality, and proteolysis of pizza cheese made by direct acidification. *J. Dairy Sci.* 51(6):848-852. Ref. June 1968. 44.8 J822
- 80393 QUARNE, E. L., LARSON, W. A., and OLSON, N. F. Recovery of milk solids in direct acidification and traditional procedures of manufacturing pizza cheese. *J. Dairy Sci.* 51(4):527-530. Apr. 1968. 44.8 J822
- 80394 RASIC, J., and MILANOVIC, Z. Influence of *Str. diacetylactis* culture on the flavour of yoghurt. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. E/F:637-642. 1966. SF223.15 1966 v.5
- 80395 READING (ENGLAND). UNIVERSITY. NATIONAL INSTITUTE FOR RESEARCH IN DAIRYING. Report, 1967. Shinfield, 1968? 163 p. 44.9 N211
- 80396 ROSENBERG, G. Development of cheese manufacture in Swedish-Finland. (Sw) *Mejeritidskrift* 30(2):54-56. Apr. 1968. 44.8 M472
- 80397 SAMUELSSON, E., TIBBLING, P., and HOLM, S. Gel filtration—road to new products; protein-enriched milk: on application. *Food Technol.* 21(11):121-122, 124. Nov. 1967. 389.8 F7398
- 80398 SCARLETT, C. A. Bactericides in dairies. *Process Biochem.* 2(11):2124. Ref. Nov. 1967. TP1.P7
- 80399 SCHELHAAS, H. Regulation of dried skim milk necessary in the final phase? (Du) *Ned. Zuivelbond. Offic. Orgaan* 60(19):512-515. May 8, 1968. 44.9 AL3  
In the E.E.C.
- 80400 SCHIERBECK, O. Milk pail washer or tank trucks. (Da) *Dansk Landbrug* 87(3):74-76. Mar. 1968. 280.8 V91
- 80401 SCHIPPER, C. J. The improvement of milk sanitation. (Du) *Neth. Dir. Landbouw. Landbouwwoorlichting* 25(5):234-237. May 1968. 12 N383M
- 80402 SHUBIN, M. E., FURYAEVA, N. K., and SEMENOVA, L. K. Using sour whey for coagulation of milk in manufacturing cheese. (Rus) *Moloch. Prom.* 12:25-26. Dec. 1967. 44.8 M734
- 80403 STADHOUDERS, J., and others. The "open" defect in Cheddar cheese; experiences with the use of a special Cheddar starter. (Du) *Alg. Zuivelbl.* 61(10):147-150. May 13, 1968. 44.8 AL32  
T. E. Galesloot, F. Hassing, and C. B. Van Der Waals, joint authors.
- 80404 STADHOUDERS, J., and others. The "open" defect in Cheddar cheese; experiences with the use of a special Cheddar starter. (Du) *Ned. Zuivelbond. Offic. Orgaan* 60(21):573-576. May 22, 1968. 44.9 AL3  
T. E. Galesloot, F. Hassing, and C. B. Van Der Waals, joint authors.
- 80405 STADTFELD, H. The manufacture of kefir. (Ge) *Molk.-Kaserei-Zeitung* 19(12):382. Mar. 20, 1968. 44.8 M736
- 80406 STEINER, H. Structural and technical aims of the cooperative dairy industry of Salzburg. (Ge) *Milchwirtschaft. Ber. Bundesanst. Wolfpassing Rotholz* 14:27-30. Mar. 1968. 44.8 M5998
- 80407 SZEGO, M. Relation between structure and germicidal effect of quaternary ammonium salts and decrease in effect caused by proteins. (Ge) *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. E/F:517-523. Ref. 1966. SF223.15 1966 v.5  
English summary, p.886.

- 80408 THALER, S. New material from the cheese factory of the Federal Institute. (Ge) *Milchwirtsch. Ber. Bundesanst. Wolfpassing Rotholz* 14:2-7. Mar.1968. 44.8 M5998
- 80409 THOM, R. A gravimetric method of determination of phosphorus in detergents for use in the milk industry. (Ge) *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. E/F:509-512. 1966. SF223.I5 1966 v.5  
English summary.
- 80410 TUROWSKI, H. Problems of butter manufacture. (Ge) *Molk.-Kaserei-Zeitung* 19(20):737-740. May 15,1968. 44.8 M736
- 80411 TYURK, K. K. *Escherichia coli* in cheese production. (Rus) *Moloch. Prom.* 12:27-28. Dec.1967. 44.8 M734
- 80412 UENO, J., and others. Studies on continuous yoghurt manufacture; its equipment and microbiological problems. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. E/F:617-623. 1966. SF223.I5 1966 v.5  
R. Hanabusa, M. Nakai, K. Musashi, S. Kakeno, and M. Kanbe, joint authors.
- 80413 VERMEIDEN, J., and VELDHUIS, A. C. Milk pipes of glass. (Du) *Ned. Zuivelbond. Offic. Orgaan* 60(21):568-571. May 22,1968. 44.9 AL3
- 80414 WALZHOLZ, G.; GRONAU, J., and KOSTER, H. Aspects of sanitation for the construction and maintenance of ice water equipment. (Ge) *Deut. Molk.-Zeitung* 88(50):2029-2030. Dec.14, 1967. 44.8 Su2  
For dairies.
- 80415 WILDBRETT, G., and KIERMEIER, F. A fully mechanized spraying apparatus for testing the corrosion effect of detergents. (Ge) *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. E/F:497-503. Ref. 1966. SF223.I5 1966 v.5  
English summary, p.882.
- 80416 WILDBRETT, G. Plastics in the dairy industry—a critical study. V. Cleaning and disinfection of plastic surfaces. 2. (Ge) *Fette-Seifen Anstrichm.* 70(4):289-294. Apr.1968. 384 C422  
English summary.
- 80417 WINKLER, S. Culture technique in Emmental cheese factories. (Ge) *Milchwirtsch. Ber. Bundesanst. Wolfpassing Rotholz* 14:9-12. Mar. 1968. 44.8 M5998
- 80418 WITTING, O. The Dairy Laboratory [Mejerilaboratoriet]. (Sw) *Mejeritidskrift* 30(2):59-61. Apr.1968. 44.8 M472  
Finland.
- 80419 WOTZILKA, M. The use of chelating agents in dairy detergents. *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. E/F:505-508. 1966. SF223.I5 1966 v.5
- 80420 ZEILINGER, A. 90 years of dairy research in Kiel. (Ge) *Osterr. Milchwirt.* 23(8):135-137. Apr.21,1968. 44.8 Os72
- 80421 ZWAGINGA, P. Low-temperature storage of cheese. (Du) *Ned. Zuivelbond. Offic. Orgaan* 60(15):408-409. Apr.10,1968. 44.9 AL3
- Statistics**
- 80422 MEYER, R. Foundations of statistics, statistical quality control, and evaluation of analysis results with the aid of statistical methods. (Ge) *Deut. Molk.-Zeitung* 89(10):367-371. Mar.7, 1968. 44.8 Su2
- 80423 U. S. CONSUMER AND MARKETING SERV. Dairy market statistics, 1967; annual summary of market statistics. U. S. D. A. *Statist. Bull.* 420,30 p. Mar.1968. 1 Ag84St
- FEED AND FORAGE CROPS**
- 80424 ANDERSEN, P. E., LAUSEN, B., and JENSEN, J. Storage losses of roughage. (Da) *Denmark. Statens Husdyrbrugsudvalg Landonkon. Forsogslab. Beretn.* 363:40-41. 1968. 104 D41
- 80425 ANDERSON, T. H. Some new approaches to air pollution control. *Feedstuffs* 40(24):28-29. June 15,1968. 286.81 F7322  
Used by feed mills.
- 80426 BACHE, C. A., and LISK, D. J. Microwave emission residue analysis of carbamate and triazine pesticides. *J. Gas Chromatogr.* 6:301-304. May 1968. 381 J8225  
Banol in alfalfa and Mesurol and Ciba 10573 in apples.
- 80427 BURES, F. Planning the intensification of the production of forage plants. (Cz) *Uroda* 16(4): 152-153. Apr.1968. 64.8 Z12  
Acreage.
- 80428 CHANDLER, C. H., and FULTON, D. A. Grain processing for feed. *Feedstuffs* 40(19):26-28. May 11,1968. 286.81 F322
- 80429 CLERICO, H. Addition of molasses to mixed feed. (Ge) *Muhle* 105(18):249-250. May 2, 1968. 298.8 M89
- 80430 CONTOUR, S. Recent developments in the industry of alfalfa drying. (Fr) *Indus. Aliment. Agr.* 85(2):123-127. Feb.1968. 383 As7
- 80431 CRHA, M. A survey of the manufacturing methods of phosphorus feeds. (Cz) *Agrochemia [Bratislava]* 8(2):59-61. 1968. 385 Ag88  
English summary.
- 80432 DIAMOND, W. T. A fistful of future. *Distill. Feed Res. Counc. Conf. Proc.* 23:5-7. Mar.13, 1968. 389.79 C765  
Of feed industry.
- 80433 DISTILLERS FEED CONFERENCE. Proceedings, March 13, 1968. *Distill. Feed Res. Counc. Conf. Proc.* 23,71 p. Ref. Mar.13,1968. 389.79 C765  
Sponsored by the Distillers Feed Research Council.
- 80434 DOTY, D. M. Inhibiting growth of Salmonella with chemicals in animal by-product meals. *Nat. Provisioner* 158(22):8-10. June 1,1968. 286.85 N21  
Meat and bone meal.
- 80435 DRESSLER, D. The importance of microscopic and chemically comprehended quality characteristics for the evaluation of single and mixed feeds. (Ge) *Muhle* 105(5):53-55. Feb.1,1968. 298.8 M89
- 80436 EGGUM, J. O. Protein quality of feed. (Da) *Dansk Pelsdyravsl* 31(1):18-21. Jan.20,1968. 412.628 D23
- 80437 ESTLER, M. Grain corn drying from a new viewpoint. (Ge) *Muhle* 105(10):133-134,137. Mar.7,1968. 298.8 M89  
For feed.
- 80438 FREDERIKSEN, P., and JENSEN, J. Artificial drying of cattle fodder—how—why? (Da) *Dansk Landbrug* 87(3):66-70. Mar.1968. 280.8 V91
- 80439 FRIEDRICH, W., and ROBOHM, K. F. The resistance of pellets to abrasion and its dependence on the pressing process, especially cooling. (Ge) *Kraftfutter* 51(1):20-22. (Cont.) Jan.1968. 389.78 K85
- 80440 FRIEDRICH, W., and ROBOHM, K. F. Resistance of pellets to abrasion and its dependence on the pressing process, especially cooling. (Ge) *Kraftfutter* 51(2):59-60,62-65. (Concl.) Feb.1968. 389.78 K85  
English summary.
- 80441 GAILLARD, B. D. E., and NIJKAMP, H. J. Calculation of the digestibility for ruminants of roughages from their contents of cell-wall constituents. II. Time-saving method of analysis. *Neth. J. Agr. Sci.* 16(1):21-24. 1968. 12 N3892
- 80442 GAZELLE, S. A. Trends in oil cake consumption in the American feed industry. (Ge) *Muhle* 105(18):253-254,257. May 2,1968. 298.8 M89
- 80443 GEMEL, A. Grain feed problem in farm cooperatives. U. S. Joint Publ. Res. Serv. *Transl. East. Europe. Agr. Forest. Food Indus.* 615:1-9. Dec.18,1967. (JPRS 43,753) 173 J663Ste  
In Poland.  
Translation from *Nowe Rolnictwo* 19:19-21. Oct.1967.  
Issued by CFSTI.
- 80444 GOLDBERG, R. A. A systems approach to the feed industry and animal agribusiness. *Feedstuffs* 40(21):8,143. May 25,1968. 286.81 F322



- 80445 GOUTEFANGEA, A. Problems of feeding the herd. (Fr) Tech. Lait. 591:17,19,21. May 1, 1968. 44.8 Of2  
Grass drying program.
- 80446 KARLESKIND, A. Quality control of fats destined for animal feeding. (Fr) Indus. Aliment. Agr. 85(2):105-112. Ref. Feb.1968. 383 As7  
English summary.
- 80447 KARSTENS, G. A. How to stay in the feed business. Grain Feed J. 125(6):14-16. Mar.27, 1968. 298.8 G762
- 80448 KIFER, R. R., and others. The nutritive content of mehaden (*Brevoortia tyrannus* and *petronus*) fish meal evaluated by chemical methods. Feedstuffs 40(20):36-37. Ref. May 18,1968. 286.81 F322  
W. L. Payne, D. Miller, and M. E. Ambrose, joint authors.
- 80449 KOZEL, V. Perspectives of the consumption of grains for feed in Czechoslovakia. (Cz) Uroda 16(5):163-164. May 1968. 64.8 Z12
- 80450 KUMENO, F., and NISHIMATSU, I. An in vitro fermentation method to evaluate formula feed of cattle. (Ja) Jap. J. Zootech. J. Sci. 39(4): 162-167. Ref. Apr.1968. 49 N62  
English summary.
- 80451 KVITKO, G. P., and DZYUBANOV, V. M. Losses of carotene during the storage of grass meal, composed from different plants. (Rus) Zhivotnovodstvo 3:74-75. Mar.1968. 49 Z6
- 80452 LONG, M. I. E. The determination of total sulphur in grasses by indirect polarography of the sulphate ion. Analyst 93(1106):339-341. May 1968. 382 An1
- 80453 MILYUTIN, I. R. Feed—exact accounting. (Rus) Uchet. Finansy Kolkhoz. Sovkhoz. 3:14-15. 1968. 30.69 Uc4
- 80454 ORTHOEFER, J. G., and others. Salmonella contamination in a rendering plant. Avian Dis. 12(2):303-311. Ref. May 1968. 41.8 Av5  
M. Schrieber, J. B. Nichols, N. Schneider, joint authors.  
Processing of livestock waste for feed purposes.
- 80455 PANT, R., NAIR, C. R., and SINGH, K. S. A comparative study of the nitrogenous constituents of some leguminous seeds. Cur. Sci. 37 (6):166-167. Mar.20,1968. 475 Sci23  
Feed.
- 80456 PFOST, H. B., and THOMAS, D. Arrival and order demands on a feed mill. Feedstuffs 40(24):22,24. June 15,1968. 286.81 F7322
- 80457 PRUDEN, A. How to answer a farmer who wants to mix his own. Feed Farm Supplier 41 (11):24,26. Nov.1967. 47.8 H28
- 80458 REJHOLEC, J. From the experience with the inspection of imported fishmeal. (Cz) Veterinarstvi 18(2):85-88. 1968. 41.8 V6439  
Feed.
- 80459 RETTIG, G. Experiences in the setting up of the green dry and green meal production center in the Gorzig-Grobzig-Osternienburt and Warbiz cooperation community. (Ge) Feldwirtschaft 9(3):131-133. Mar.1968. 18 W763
- 80460 ROBERTSSON, T. Swedish legislation for feeds. (Ge) Kraftfutter 51(2):56,58-59. Feb. 1968. 389.78 K85  
English summary.  
Regulation.
- 80461 SARIC, O., and BATINICA, D. Capacity of production of forage plants in Bosnia and Herzegovina, and ways and means of its advancement by cooperatives. (Se) Poljoprivredni Pregl. 16 (1/2):55-68. Ref. Jan./Feb.1968. 21.5 P753  
Includes acreage.
- 80462 SEVELA, T., and KUKLA, C. J. Hitherto results of preventive inspection of feed at the veterinary service station [Stanica Veterinarni Pece] in Hustopece and their significance. (Cz) Veterinarstvi 18(2):83-85. 1968. 41.8 V6439
- 80463 SHKUNKOVA, YU. S., GRAKOVICH, L. I., and MARTSINKEVICH, I. S. Using butylated oxytoluene for stabilization of carotene in grass meal and in the concentrated feed. (Rus) Khim. Sel'skom Khoz. 6(1):59-61. Ref. Jan.1968. 385 K524
- 80464 SILVA, J. F. C. DA, GOMIDE, J. A., and HILL, D. L. Use of copper ethylenediamine in estimating the apparent digestibility of tropical grasses. (Por) Rev. Ceres 14(81):229-238. Ref. Jan./Feb.1968. 9.2 C332  
English summary.
- 80465 SINGLEY, M. E. Prevent an explosion in your silo. Hoard's Dairyman 113(10):645,657. May 25,1968. 44.8 H65
- 80466 STERN, V. The economics of new methods of processing and ensiling bulky forage plants. (Se) Ekon. Poljoprivrede 15(3):189-200. Mar. 1968. 281.8 Ek72
- 80467 THEIMER, O. F. On the rheology of poured products in silos and bunkers. (Ge) Muhle 105(9):115-116. (Cont.) Feb.29,1968. 298.8 M89  
Feed.
- 80468 THEIMER, O. F. On the rheology of poured products in silos and bunkers. (Ge) Muhle 105 (10):138,141. (Concl.) Mar.7,1968. 298.8 M89
- 80469 THIER, E. Mixed feed control with the use of quality coefficients. (Ge) Kraftfutter 51(2):46, 48-50. Feb.1968. 389.78 K85  
English summary.
- 80470 TSCHIRSCHKE, M. Determination of viscosity of flowable feed mixtures. (Ge) Deut. Agrartech. 18(4):190-191. Apr.1968. 58.8 D482
- 80471 TUSL, J. Photometric method for the determination of magnesium in feedstuffs of plant origin by Titan yellow. (Cz) Agrochemia [Bratislava] 8(3):93-94. 1968. 385 Ag88  
English summary, p.3.
- 80472 U. S. CROP REPORTING BOARD. Seed crops, by States, 1966 and 1967. Washington, 1967. 23 p. 1.9 Ec712C  
Chiefly forage crops.
- 80473 VASKOV, B., and others. The content of some trace elements in Macedonian meadow hays. (Se) Vet. Glas. 12(3):159-164. Ref. 1968. 41.8 J93  
J. Sokarovski, K. Petkov, N. Jordanovski, and V. Pesevska, joint authors.  
English summary.
- 80474 WILDBRETT, G., DJARRAHBACHI-RAZAWI, A., and KIERMEIER, F. The retention of insecticides in beet-top silage. (Ge) Milchwissenschaft 23(4):213-216. Ref. Apr.1968. 44.8 M5933  
English summary.  
DDT and parathion.
- 80475 WISE, S. Pricing for profit in the feed and farm supply business. Feedstuffs 40(21):47-49. May 25,1968. 286.81 F322
- 80476 ZHEDEK, M. S. Effectiveness of different carotene stabilizers in grass meal. (Rus) Khim. Sel'sko, Khoz. 6(1):55-59. Ref. Jan.1968. 385 K524

## FIBERS AND TEXTILES

- 80477 ABROSIMOV, M. V., and others. About the quality of cotton. (Rus) Khlopkovodstvo 4:46-47. Apr.1968. 72.8 K522  
I. F. Trompeter, V. Kryakin, I. I. Smirnov, V. Kryakin, and G. D. Kushnarenko, joint authors.
- 80478 AGOCS, P., and others. Economic evaluation of hemp varieties. (Hu) Magyar Textiltech. 20 (3):131-133. Mar.1968. 304.8 M27  
T. Kiss, P. Kerekgyarto, and J. Svab, joint authors.  
English summary, p.4 of content.  
Properties and quality.
- 80479 ALLSCHER, R. Cellulose reticulation by non-iron textiles of natural and regenerated cellulose fibers and those mixed with synthetics. (It) Riv. Tessile 44(4):135-141. Apr.1968. 304.8 R52

- 80480 AMERICAN SOCIETY FOR QUALITY CONTROL. TEXTILE AND NEEDLE TRADES DIV. Textile quality control papers, vol. XV, 1968. Milwaukee, 1968. 47 p. 304.8 T3152
- 80481 AMERICAN SOCIETY FOR QUALITY CONTROL. TEXTILE AND NEEDLE TRADES DIV. Textile quality control papers. Vol. XV, supplement, 1968. Milwaukee, 1968. 119 p. 304.8 T3152
- 80482 ANDERSON, R. F. Mills evaluation of Georgia cotton. Ga. Agr. Exp. Sta. Res. Rep. 24, 10 p. Apr. 1968. S51.E22  
Mill consumption.
- 80483 ANNUAIRE statistique de l'industrie française du jute, 1966 [Statistical annual of the French jute industry]. Paris, Syndicat General de l'Industrie du Jute, 1967. 40 p. 286.80 An7
- 80484 AZIZOV, A. A., and MIRONOV, YU. N. Possibilities for cotton industry in the Khorezm region. (Rus) Khlopkovodstvo 3:39-40. Mar. 1968. 72.8 K522
- 80485 BAINS, M. S., HINOJOSA, O., and ARTHUR, J. C. Electron-spin resonance spectra of sodium-hydroxide cellulose system. Carbohyd. Res. 6(2):233-236. Feb. 1968. 385 C172  
Cotton cellulose.
- 80486 BARELLA, A., and MIRO, P. Chemical and mechanical properties of wool textiles with the K. D. finish. (Sp) Invest. Inform. Textil 11(1): 1-10. Ref. Mar. 31, 1968. 304.8 In84  
English summary.
- 80487 BARELLA, A., and others. Testing of tensile strength of cotton yarns by means of bundle test. (Hu) Magyar Textiltech. 20(3):134-140. Ref. Mar. 1968. 304.8 M27  
A. Sust, J. Vilarnau, and J. Torn, joint authors.  
English summary, p. 4 of content.
- 80488 BARNABE, N. Recent prospects in the applications of viscose flock alone, in mixtures with synthetic fibers, and in relation to new finishing processes. II. (It) Riv. Tessile 44(4):152-160. Apr. 1968. 304.8 R52
- 80489 BARTLE, K. D., and others. Nuclear magnetic resonance spectra of BIS (2-amino-2-carboxyethyl) trisulphide and other sulphur-containing amino acids relevant to wool structure. Biochim. Biophys. Acta 160(1):106-111. Ref. May 6, 1968. 381 B522  
J. C. Fletcher, D. W. Jones, and R. L'Amie, joint authors.
- 80490 BAWANY, Y. A. Pakistan jute industry. Pakistan Textile J. 19(1):41-42. Jan. 1968. 304.8 C825
- 80491 BERNAT, F. A new strong Egyptian cotton. (Sp) Cent. Algodonero Nac. Circ. Inform. 79:8. Apr. 1968. 281.3729 C33
- 80492 BODE, G. Recent developments in worsted spinning. (Ge) Melliand Textilber. 49(3):267-273. Mar. 1968. 304.8 T312
- 80493 BRYSSON, R. J., TRASK, B. J., and COOPER, A. S. Inorganic tellurides as outdoor fungicides. Amer. Dyestuff Rep. 57(12):23-24. June 3, 1968. 306.8 Am3  
For textiles.
- 80494 CANADIAN CO-OPERATIVE WOOL GROWERS. 50th annual report. Can. Wool Grower Sheep Breeder 39(1):6-7, 21. Spring 1968. 280.28 C16
- 80495 CHADENET, L. The prices of raw wool became attractive to carpet manufacturers. (Fr) Patre 151:11, 13. Feb. 1968. 45.8 P272
- 80496 CIERPUCHA, W., STOSUJ, W., and URANOWICZ, K. S. New technology improves flax fibre processing methods. Textile Manufacturer 94(1121):181-185, 193. May 1968. 304.8 T3126
- 80497 COLEMAN, K. L., and DRUMMOND, J. Characteristics of pooled Montana wool. Mont. Agr. Exp. Sta. Bull. 612, 25 p. May 1967. 100 M76  
Prices and quality.
- 80498 CONRAD, J. R. A new future for cotton futures. Agr. Marketing [Washington] 13(6):10. June 1968. A280.38 Ag8  
Grading.
- 80499 CRUZ AUNON, P. The quality of domestic cotton and use of varieties. (Sp) Agricultura [Madrid] 37(432):179-181. Apr. 1968. 15 Ag84
- 80500 DAVID, H. G. Studying the variability of Australian wool; progress towards improved sampling of the clip. Wool Technol. Sheep Breeding 14(11):39-43. Dec. 1967. 304.8 W888
- 80501 DEDEK, W., and LOHS, K. Permeability of protective clothing to insecticidal phosphoric acid derivatives. 3 p. (JPRS 33,092; TT 65-33669) Transl. 16009  
Translation from Chemische Technik 17(10): 624-625. 1965.  
Issued by CFSTI.
- 80502 DOBOZY, O. K., and HORNUNG, J. Fiber analysis in the wool industry. (Du) Tex 27(2):105-107. (Cont.) Ref. Feb. 1968. 304.8 T3195
- 80503 DOBOZY, O. K., and HORNUNG, J. One thing and another on fiber analysis in the wool industry. II. Tex 27(3):161-163. Mar. 1968. 304.8 T3195
- 80504 EGGLESTON, P. W. The development of man-made fibres that compete with wool. Textile Inst. Indus. 6(2):46-49. Feb. 1968. 304.8 T3133
- 80505 ELSWORTH, F. F. Preparation and finishing of protein materials. Rev. Textile Progr. 17:356-372. 1965/66, pub. 1967. 304.9 T318  
Review of the literature.  
Chiefly wool and textiles.
- 80506 FARNWORTH, A. J. Research in wool processing. Wool Technol. Sheep Breeding 14(11):11-14. Dec. 1967. 304.8 W888  
In Australia.
- 80507 FELL, M., and ROUETTE, H. K. Fractionation of alpha-keratose with buffered Sephadex acids. (Ge) Kolloid-Z. Z. Polymere 222(2): 103-110. Ref. Feb. 1968. 384 Z315  
English summary.  
From wool.
- 80508 FESTER, W., and LUI, S. T. Chemical and physicochemical changes in cellulose triacetate fibres due to dry heat treatment. Textil-Praxis, Int. Edition 1:19-20. (Cont.) Ref. First Q. 1968. 304.8 T3143Ae
- 80509 FRANKS, G. N. Field cleaning seed cotton. Cotton Gin Oil Mill Press 69(7):21-22. Apr. 6, 1968. 304.8 C822
- 80510 FRIEDERICH, J. C. International Flax Congress. (Du) Neth. Dir. Landbouw. Landbouwvoorzichting 25(1):18-22. Jan. 1968. 12 N383M  
A report.
- 80511 GALBRAITH, R. L. Improving consumer living standards through textiles and clothing research. Nat. Seminar Workshop Home Econ. Res. Admin. Proc. 1967:57-60. TX5.N3
- 80512 GARDE, A., and ROTTMAYR, H. Thin spots in yarn as cause of breaks in the cotton ring spinning machine. (Ge) Melliand Textilber. 49(5): 497-502. May 1968. 304.8 T312
- 80513 GHIONIS, C. A., and BROWNE, C. L. Some aspects and trends of finishing polyester/cotton blend fabrics. Amer. Dyestuff Rep. 57(8):28-34. Apr. 8, 1968. 306.8 Am3
- 80514 GREUEL, M., and HENNING, H. J. Comparative length measurements of wool fibers. (Ge) Z. Gesamte Textil Indus. 70(5):289-292. May 1968. 304.8 D485  
English summary.
- 80515 HADERT, H. Combining textile fibers and rubber. (Ge) Seifen-Ole-Fette-Wachse 94(1):17-20. Jan. 3, 1968. 307.8 Se4  
English summary.
- 80516 HADWICH, F. Limits of test fluctuations in determination of the Pressley value for single bales and the last average in relation to time and cost expenditure in measurement. (Ge) Melliand Textilber. 49(5):503-507. May 1968. 304.8 T312  
Cotton.
- 80517 HEDLUND, I., DUNBRANT, S., and WILSON, K. The influence of pulp impurities on yarn strength. Svensk Papperstidn. 21(6):241-245. Mar. 31, 1968. 302.8 Sv2  
Rayon viscose.



- 80518 HEPP, J. Permanent press process. (Ge) *Chemiefasern* 18(3):188,190-192. Ref. Mar. 1968. 304.8 J45
- 80519 HERZOG, A. Cyanine in fiber analysis. 15 p. (FPL Transl. No. 23) Transl. 16817  
Translation from *Melliand Textilberichte* 13 (3):121-123; (4):181-182. Mar.-Apr.1932.
- 80520 HERZOG, A. The fibrillar structure of bast fibers. 9 p. (FPL Transl. No. 11) Transl. 16816  
Translation from *Papier Fabrikant* 29 (51/52):833-837. Dec.22,1931.
- 80521 HOFFMANN, G. Testing methods for wool and their influence on the practice of the wool trade. (Ge) *Melliand Textilber.* 49(4):405-407. Apr.1968. 304.8 T312
- 80522 HOISINGTON, R. S. 1967 cotton crop. *Textile Quality Contr. Pap.* 15:23-24. 1968. 304.8 T3152
- 80523 HORBACH, W. Equipment for combing and combed spinning. II. (It) *Riv. Tessile* 44(4):142-148. Apr.1968. 304.8 R52  
Wool.
- 80524 IVANOV, S. P., KASSIRSKII, A. A., and SAMANDAROV, S. A. Measures of improving quality of cotton, harvested by machines. (Rus) *Khlopkovodstvo* 2:40-41. Feb.1968. 72.8 K522  
Cleaning.
- 80525 JOHNSON, D. J. Amplitude and phase contrast in electron-microscope images of molecular structures. *Roy. Microscop. Soc. J.* 88(1):39-47. 1968. 440.9 R81J  
Keratin from wool and mohair.
- 80526 KELLER, H. Open-end spinning. II. *Mod. Textiles Mag.* 49(3):62-66. Ref. Mar.1968. 304.8 R21
- 80527 KNOEPFLER, N. B., and others. Engineering aspects of production and performance of Cotton Flote products. *Amer. Dyestuff Rep.* 57 (11):27-32. Ref. May 20,1968. 306.8 Am3  
L. L. Holzenthal, P. A. Koenig, and H. Le-Vix, joint authors  
An improved cotton batting.
- 80528 KOPA, M. Development or decline of viscose fiber. (Pol) *Przemysl Chem.* 47(4):185-188. Ref. Apr.1968. 385 P952
- 80529 LAMBRINOU, I. Fiber structure in flax yarn. II. Changes in the fiber structure in flax yarns during processing and stress (bleaching, dyeing, and washing). (Ge) *Melliand Textilber.* 49(3):251-254. (Cont.) Mar.1968. 304.8 T312
- 80530 LAMBRINOU, I. The fiber structure of flax yarn. II. (Ge) *Melliand Textilber.* 49(4):373-381. Apr.1968. 304.8 T312
- 80531 LEBLANC, A. Bleaching cellulose. *Fibre Fabric* 121(3656):12-18. Apr.1968. 304.8 F44  
Includes cotton.
- 80532 LECOUTEUR, G. S. Wool marketing costs. *Wool Technol. Sheep Breeding* 14(11):61-62. Dec.1967. 304.8 W888
- 80533 LENNOX-KERR, P. Simple worsted system. *Textile Indus.* 132(3):65-68,86. Mar.1968. 304.8 C823
- 80534 LEWIN, M., and WEINSTEIN, S. Oxidation of cellulose cross-linked by formaldehyde. (Hu) *Magyar Textiltech.* 49(2):93-96. Ref. Feb.1968. 304.8 M27  
English summary, p.4 of content.  
Cotton.
- 80535 LIPSON, M. Wool as a textile raw material. *Farmer's Sci. Joint Conf. [Proc.]*, 7th Conf.: 32-34. 1967. 27 F22  
Includes discussion.
- 80536 LORD, P. R. Prospects for break spinning by the drum technique. *Textile Rec.* 85(1017): 28-30,40. Dec.1967. 304.8 T311
- 80537 LOUIS, G. L., and FIORI, G. L. Practical application of the multiple regression equation. *Textile Bull.* 93(12):30-31,34-36. Dec.1967. 304.8 S82  
Of cotton fibers.
- 80538 MACDONALD, J. D. M. The South African wool reserve price scheme and its administration. *Agrekon* 7(1):4-9. Jan.1968. 281.8 Ag835  
Administered by the South African Wool Commission.
- 80539 MACKIE, G. The progressive development of the Mackie spinning system. (It) *Riv. Tessile* 44(4):149-151. Apr.1968. 304.8 R52
- 80540 MARITAN, E. The water-behavior of the gel filaments from viscose with and without modifying agents. (Rum) *Celul. Hirtie* 17(3):111-113. Mar.1968. 309.8 C334  
English summary, p.91.  
Cellulose fibers used.
- 80541 MARSH, E. E. Wool act necessary for sheep industry survival. *Nat. Wool Grower* 58(6):6-9. June 1968. 45.8 N21N  
Extension of the National Wool Act.
- 80542 MARSH, J. T. The present position of permanent press. *Textile Rec.* 85(1017):36-37,44. Dec.1967. 304.8 T311
- 80543 MARSHALL, G. Objects and principles in modern techniques. *Textile Manufacturer* 94(1121): 186-188,193. May 1968. 304.8 T3126  
Wool carding.
- 80544 MCFADDEN, W. D. *Wool science*. Boulder, Colorado, Pruett Press, 1967. 150 p. TS1547.M3  
History, fiber structure and properties, processing, and other aspects of the industry.
- 80545 MCLAREN, G. C. Future trends in wool production and consumption. *Wool Technol. Sheep Breeding* 14(11):17-25. Dec.1967. 304.8 W888  
In Australia.
- 80546 MIRO, P., and GARCIA-DOMINGUEZ, J. J. Formation of transversal bonds in the wool by action of nucleophilic reagents. (Sp) *Invest. Inform. Textil* 11(1):11-21. Ref. Mar.31,1968. 304.8 In84  
English summary.  
Treated with sodium hydroxide.
- 80547 MOORE, J. L. Effects of time and chemical concentrations in the bleaching of piece goods made of cotton and cotton/synthetic blends. *Amer. Dyestuff Rep.* 57(6):27-30. Mar.11,1968. 306.8 Am3
- 80548 NEIL, H. G. Losses in wool manufacture due to factors under farmer control. *Farmer's Sci. Joint Conf. [Proc.]*, 7th Conf.:35-37. 1967. 27 F22  
Includes discussion.
- 80549 NETTELNSTROTH, K. A contribution to the surface structure of cellulose and synthetic fibers. (It) *Fibre Colori* 18(3):97-103. Mar. 1968. 304.8 F442
- 80550 NETTELNSTROTH, K. M. The morphology of flax fiber. (Ge) *Melliand Textilber.* 49(5):565-572. Ref. May 1968. 304.8 T312
- 80551 O'CONNELL, R. A., PARDO, C. E., and FONG, W. Preliminary observations on durable press wool blend fabrics. *Amer. Dyestuff Rep.* 57(8): 17-19. Apr.8,1968. 306.8 Am3
- 80552 PARKIN, W. Blending, carding and combing of long fibres—at Basle—and tomorrow. *Textile Inst. Indus.* 6(2):36-38. Feb.1968. 304.8 T3133  
Wool.
- 80553 PAR RAFULL, J. P. Study of the statistical position of American cottons of 1 1/32" to 1 1/8" and higher. (Sp) *Cent. Algodonero Nac. Circ. Inform.* 79:4-7. Apr.1968. 281.3729 C33
- 80554 PATRONATA "JUAN DE LA CIERVA." DEPT. TEXTIL. Study on the spinning quality of some domestic cottons. 2. (Sp) *Invest. Inform. Textil* 11(1):53-58. Mar.31,1968. 304.8 In84  
Barcelona Centro Algodonero Nacional, co-operating.
- 80555 PATTISON, P. Selling wool by sample seen as system of future. *New Zeal. J. Agr.* 116(5):65, 67. May 1968. 23 N48J
- 80556 PELLICER I BRU, J. Cotton in Spain in the year 1971. (Sp) *Cent. Algodonero Nac. Circ. Inform.* 79:2-4. Apr.1968. 281.3729 C33
- 80557 PELLICER I BRU, J. World cotton trends. (Sp) *Cent. Algodonero Nac. Circ. Inform.* 76: 6-7. Jan.1968. 281.3729 C33

- 80558 RAES, G., FRANSEN, T., and VERSCHRAEGE, L. Does the distribution of the point of structural reversal have a clear influence on the stability of cotton fiber substance? (Ge) *Melliand Textilber.* 49(5):513-518. Ref. May 1968. 304.8 T312
- 80559 READ, A. J., HARRISON, W. J., and WALKER, I. K. Ignition of wool in air. II. *New Zeal. J. Sci.* 10(4):964-978. Ref. Dec. 1967. 514 N482
- 80560 REICHMAN, E., and others. Research on the fibrous and non-fibrous cellulose fractions and their influence on the manufacture of reed chemical pulps. II. (Rum) *Celuloza Hirtie* 17(1):7-18. Jan. 1968. 309.8 C334  
M. Raduleanu, M. Tocan, and O. Statescu, joint authors.  
English summary, p. 2.
- 80561 REITERER, F., and FRANK, E. Opening cotton by means of a special blower. *Spinner Weber Textilveredlung* 86(3):201-206. Mar. 1968. 304.8 Sp41  
Text also in German.
- 80562 REUMUTH, H. Micromorphology and "spinning structure" of cotton. (Ge) *Melliand Textilber.* 49(5):508-512. Ref. May 1968. 304.8 T312
- 80563 RICHARDS, R. T. D. Some theoretical aspects of woollen carding. III. *Textile Rec.* 85(1017):31-33. Dec. 1967. 304.8 T311
- 80564 RODICHEV, S. D. More attention to purchasing and quality of cotton. (Rus) *Khlopkovodstvo* 3:1-3. Mar. 1968. 72.8 K522  
Policies.
- 80565 ROSS, S. Cotton coming back strong. *Farm Chem.* 131(2):70, 72. Feb. 1968. 57.8 Am3  
Acreage.
- 80566 ROUSSEAU, L. Summary examination of some quantitative methods of analysis of certain binary fiber mixtures. (Fr) *Indus. Textile Belg.* Belg. *Textielnijverheid* 10(2):43-45. Feb. 1968. 304.8 In29
- 80567 RUSCA, R. A., and MAYER, M. Cotton machinery research. *Textile Indus.* 132(3):69-72. Ref. Mar. 1968. 304.8 C823  
Processing.
- 80568 SANDERS, N. Wool promotion and market research. *Wool Technol. Sheep Breeding* 14(11):31-34. Dec. 1967. 304.8 W888
- 80569 SCHADE, W. Column chromatography of peptide and DNP peptide mixtures from silk fibroin. (Ge) *Z. Anal. Chem.* 230:432-442. 1968. 384 Z3  
English summary.
- 80570 SEGALL, W. M. What's ahead for cotton? *Can. Textile J.* 85(9):51-54. Apr. 26, 1968. 304.8 C16
- 80571 SINCLAIR, K. D., and LUNNEY, H. W. M. Regain testing with CSIRO conditioning oven. *Textile J. Australia* 43(3):18-19. Mar. 1968. 304.8 T3134
- 80572 SOLOMON, B., ROZMARIN, GH., and SIMIONESCU, CR. Contributions to the working out of a rapid determination method of lignin in annual plants. (Rum) *Celuloza Hirtie* 17(1):25-28. Ref. Jan. 1968. 309.8 C334  
English summary, p. 2.  
Analysis of reeds and straw for pulp manufacture.
- 80573 STAVIS, I. Quality control of permanent press applications. *Textile Quality Contr. Pap.* 15(sup.):37-41. 1968. 304.8 T3152
- 80574 STOTSKIL, V. N. New achievements in the development of cotton industry in the third year of the Five-Year Plan. (Rus) *Khlopkovodstvo* 2:1-3. Feb. 1968. 72.8 K522
- 80575 STUTZ, H. Thoughts on spinning automation. (Ge) *Melliand Textilber.* 49(4):398. Apr. 1968. 304.8 T312
- 80576 TANZANIA. LINT AND SEED MARKETING BOARD. Report and accounts for the year ended 30th June, 1967. *Dar es Salaam*, 1967. 48 p. 280.3729 T15
- 80577 VESELOV, V. I., ZHATOVA, A. E., and AR-KHIPOV, V. S. A new preparation for rapid retting of hemp. (Rus) *Len Konoplya* 4:35-36. 1968. 73.8 L542  
Sodium nitrate.
- 80578 WAGNER, C. D. Yarn manufacture with the drawing spinning procedure. (Ge) *Z. Gesamte Textil Indus.* 70(5):293-300. May 1968. 304.8 D485
- 80579 WAGNER, V. A fast method for the determination of fat content in the hare's and rabbit's hair. (Cz) *Textil [Prague]* 23(2):71-72. Ref. 1968. 304.8 T3157  
English summary.
- 80580 WALKER, I. K., PATERSON, G. F., and TILBURY, A. L. Diffusion of regain in bulk wood. 4. *New Zeal. J. Sci.* 11(1):77-87. Ref. Mar. 1968. 514 N482
- 80581 WALLACE, R. Fabric tips; permanent press. *Ky. Univ. Ext. Leaflet* 309,6 p.-folder. Mar. 1968. 275.29 K415Le  
Clothing.
- 80582 WARD, K., and others. Hydroxyethylation of linters pulps. II. Effect of alkali concentrations. *TAPPI (Tech. Ass. Pulp Pap. Indus.)* 51(5):218-223. Ref. May 1968. 302.8 T162  
A. J. Morak, R. H. Gillespie, and M. H. Völker, joint authors.
- 80583 WHAN, R. B., and FOURLINNIE, J. P. The consistency of a buyer's estimates of the yield of greasy wool. *Australia. Bur. Agr. Econ. Quart. Rev. Agr. Econ.* 21(1):15-22. Jan. 1968. 281.9 Au73  
Classification.
- 80584 WHITELEY, K. J. Quality control in wool commerce; the threat of man-made fibres. *Wool Technol. Sheep Breeding* 14(11):65-66. Dec. 1967. 304.8 W888
- 80585 ZAHNISER, J. S. Problems and progress in shrinkage control. *Textile Quality Contr. Pap.* 15(sup.):1-13. 1968. 304.8 T3152
- 80586 ZIABICKI, A. Rheological aspects of fibre spinning. *Indus. Chim. Belg.* 33(1):46-50. Ref. Jan. 1968. 385 In29

## FRUITS, VEGETABLES, AND NUTS

- 80587 BAUDEWILN, J. The development of mushroom culture in Limbourg in the course of recent years. (Fr) *Rev. Agr. [Brussels]* 20(11/12):1519-1528. Dec. 1967. 13 R322  
Includes marketing and professional associations.
- 80588 BENK, E. Passion fruit juice and refreshing drinks prepared from it. (Ge) *Brauwelt* 108(18):323-324. Ref. Mar. 1, 1968. 390.8 B732  
English summary.
- 80589 BERGH, B. O., and WHITSELL, R. H. A history of the California avocado industry. *Calif. Citrogr.* 53(2):64-65. Dec. 1967. 80 C125
- 80590 BERNARD, E. The who, what, when, and why of the North Coast Grape Growers Association. *Wines Vines* 49(2):26. Feb. 1968. 95.8 C122
- 80591 BOTHE, F. Contract farming assures markets. (Ge) *Kartoffelbau* 19(2):22. Feb. 1968. 75.8 K145  
Potatoes.
- 80592 BUCHAKLIEV, S., and others. Ikonicheski vuprosi na zelenchuko-proizvodstvoto v Bulgariya [Economic problems of vegetable industry in Bulgaria]. *Plovdiv, Khristo G. Danov*, 1967. 282 p. Ref. SB323.135  
L. Khristovich, D. Ivanov, M. Mikhov, and V. Uzunov, joint authors.
- 80593 GODFREY-SAM-AGGREY, W. Improving Ghana's fruit industry. *World Crops* 20(1):63-66. Mar. 1968. 281.8 W892
- 80594 GRAHAM, J. A. Pukekohe district is main area for potato production. *New Zeal. J. Agr.* 116(5):36-39. May 1968. 34 N48J
- 80595 GROMAKOVSKII, I., and ZHULYA, V. Visiting fruit growers in Moldavia. (Rus) *Sadovodstvo* 12:20-21. Dec. 1967. 80 Sa13  
Chiefly on fruit industry



- 80596 GRUBBEN, G. J. H. Horticulture on the Ivory Coast. (Du) Landbouwkundig Tijdschr. 80(1): 7-12, map. Ref. Jan. 1968. 105.2 Or3
- 80597 JOHNSON, J. F. Fruitgrowing in the Orange District. Agr. Gaz. New S. Wales 79(3):169-174. Mar. 1968. 23 N472
- 80598 KISS, L. Fruit production and import of the Soviet Union. (Hu) Kertesz. Szolesz. 17(2):48-49. Jan. 1968. 80 K474
- 80599 LEDIN, G. Development and present situation of the horticultural industry. (Sw) Jord-Groda-Djur 24:9-19. 1968. 11 J673
- Vegetables, fruit and ornamentals.
- 80600 LOEFFLER, K. The potato in the Common Market. (Ge) Kartoffelbau 19(2):30. Feb. 1968. 75.8 K145
- 80601 LOVAS, M. Achievements and problems in viticulture. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 624:14-18. Feb. 8, 1968. (JPRS 44,287) 173 J663Ste
- In Hungary; grape and wine production. Translation from Figyelo, Dec. 13, 1967:8. Issued by CFSTI.
- 80602 MASTRANGELO, N. No doubt on the advantages of growing hazelnuts. (It) Raccolto 9 (1/2):24-26. Jan./Feb. 1968. 16 R11
- 80603 MEL'MAN, M. E., and DUBONOS, N. F. Ovoshchi, plody, vina i soki [Vegetables, fruit, wine and juices]. Moskva, Ekonomika, 1967. 199 p. TX391.M4
- 80604 MIEDEN, E. Market directed contract farming in Rhineland-Nassau. (Ge) Kartoffelbau 19 (2):24. Feb. 1968. 75.8 K145
- Potatoes.
- 80605 SERVISS, G. H. Overlooked market. III. Cabbage: king of the cole crops. Agr. Chem. 23(6): 29-30. June 1968. 381 Ag8
- 80606 SKOPINA, V., and CHELISHCHEV, A. Under covered soils in the Russian Soviet Federated Socialistic Republic. (Rus) Kartoffel' Ovoshchi 3:16-17. Mar. 1968. 75.8 K147
- Vegetable industry and greenhouse culture.
- 80607 THE THREAT of an avalanche of apples in Europe. Int. Fruit World 27(1):323-324, 327-328, 331, 333-334, 337-338. Spring 1968. 286.83 F9426
- Text also in French and German. Forecast of production and market outlook.
- 80608 TROUT, S. A. The macadamia nut. Aust. Food Mfr. Distrib. 37(6):26, 28. Jan. 14, 1968. 389.8 Au7
- Industry in Hawaii and Queensland.
- 80609 WELY, A. J. M. VAN, and TAKKEN, P. F. The production of dessert apples in Europe. (Du) Neth. Dir. Tuinbouw. Mededel. 31(4):143-144. Apr. 1958. 86 N384
- English summary, p.172.
- Analysis and Composition
- 80610 AGLE, W. M., and WOODBURY, G. W. Specific gravity-dry matter relationship and reducing sugar changes affected by potato variety, production area and storage. Amer. Potato J. 45 (4):119-131. Ref. Apr. 1968. 75.8 P842
- 80611 BANKS, W., and GREENWOOD, C. T. Physico-chemical studies on starches. XXXIV. The distribution of molecular weight in amylose samples obtained by the leaching and the dispersion of potato starch. Carbohydr. Res. 6(2):171-176. Ref. Feb. 1968. 385 C172
- 80612 BENK, E. Detection of mandarin group juices in orange juice concentrate and other basic materials for refreshing drinks. (Ge) Brauwelt 108(18):325-328. Mar. 1, 1968. 390.8 B732
- English summary.
- 80613 DELAPORTE, N., and MACHEIX, J. J. A spectrophotometric method of determining ascorbic acid, chlorogenic acid, and catechins in apples. (Fr) Chim. Analyt. 50(4):187-198. Ref. Apr. 1968. 383 An72
- English summary.
- 80614 DI GIACOMA, A., RISPOLI, G., and TITA, S. The carotenoids of Italian mandarin juice. (It) Riv. Ital. Essenze-Profumi-Piante Offic.-Aromi-Saponi-Cosmet.-Aerosol 50(2):64-67. Feb. 1968. 308.8 R52
- 80615 DI GIACOMO, A., RISPOLI, G., and PENNISI, L. Considerations on the amino acid composition of Italian lemon juice. (It) Indus. Conserve 43(1):23-28. Ref. Jan./Mar. 1968. 389.8 In23
- English summary, Summaries, p.3.
- 80616 DI GIACOMO, A. On the microbiology of orange juice. (It) Riv. Ital. Essenze-Profumi-Piante Offic.-Aromi-Saponi-Cosmet.-Aerosol 50(1):13-15. Jan. 1968. 308.8 R52
- 80617 ELBERT, M. M., and WITT, R. L. Gelatinization of starch in the common dry bean, Phaseolus vulgaris. J. Home Econ. 60(3):186-188. Mar. 1968. 321.8 J82
- 80618 FERNANDEZ DIEZ, M. J., FERNANDEZ VILLASANTE, J., and GONZALEZ PELISSO, S. Texture of peppers used in stuffed olives; effect of acidity and storage time. (Sp) Grasas Aceites 19(1):16-18. Jan./Feb. 1968. 307.8 G76
- English summary.
- 80619 GENTILI, B., and HOROWITZ, R. M. Flavonoids of citrus. IX. Some new c-glycosylflavones and a nuclear magnetic resonance method for differentiating 6- and 8-c-glycosyl isomers. J. Org. Chem. 33(4):1571-1577. Ref. Apr. 1968. 381 J827
- 80620 GERO, E., and CANDIDO, A. Purification of the dehydroascorbic reductase of cauliflower (Brassica oleracea L.). (Fr) Soc. Chim. Biol. Bull. 49(12):1895-1897. 1967. 383 S01
- 80621 GIERSCHNER, K., and LIST, D. Contribution to the determination of the heavy metal content of fruit juices. (Ge) Indus. Obst- Gemuseverwertung 53(7):194-199. Ref. Apr. 4, 1968. 389.8 K832
- 80622 JENNINGS, A. C., and others. Fractionation of plant material. III-IV. J. Sci. Food Agr. 19(4): 203-218. Apr. 1968. 382 S012
- A Pusztal, R. L. M. Synge, W. B. Watt, E. M. W. Clark, and G. M. Ellinger, joint authors.
- III, Two schemes for chemical fractionation of fresh leaves, having special applicability for isolation of the bulk protein. IV, Distribution of amino acid residues in fractions obtained from leaves of broad bean (Vicia faba L.).
- 80623 JENTZSCH, K., and others. Isolation of dihydrocapsaicin and homodihydrocapsaicin from Capsicum fruits (brief communication). (Ge) Monatsh. Chem. 99(2):661-663. Mar./Apr. 1968. 384 M74
- H. Pock, W. Kubelka, and O. Saiko, joint authors.
- 80624 KAMOGAWA, A., FUKUI, T., and NIKUNI, Z. Potato  $\alpha$ -glucan phosphorylase: crystallization, amino acid composition and enzymatic reaction in the absence of added primer. J. Biochem. 63 (3):361-369. Ref. Mar. 1968. 385 J822
- 80625 KECHEK, YU. A., and SEVRUK, O. G. A quick method of determining proteins in peas. (Rus) Selekt. Semenovodstvo 2:38-33. Mar./Apr. 1968. 61.9 Se5
- 80626 MAEZAWA, T., and others. Studies on the liquefying properties of starch for enzyme-hydrolyzed glucose production. VIII. Effects of fatty acids on liquefaction of starch. (Ja) Agr. Chem. Soc. Jap. J. 42(4):211-215. Ref. Apr. 1968. 285 Ag8
- S. Hayakawa, M. Okubo, and F. Shimbari, joint authors.
- Potato starch.
- 80627 MAKI, M., and SATO, Y. Studies on the carbohydrates in vegetables. 3. Isolation of hemi-cellulose from the leaves and stems of Petasites japonica and Osmunda cinnamomea. (Ja) Jap. Soc. Food Nutr. J. 20(6):1-5. Mar. 1968. 389.9 J27
- English summary.

- 80628 MAKI, M., and SATO, Y. Studies on the carbohydrates in vegetables. 4. Influence on isolation of *Artemisia capillaris* hemicellulose. (Ja) Jap. Soc. Food Nutr. J. 20(6):6-9. Ref. Mar.1968. 389.9 J27  
English summary.
- 80629 NEURATH, G., and LUTTICH, W. On the naturally occurring ethyl esters in citric acid. (Ge) Z. Lebensmittel-Untersuchung -Forsch. 136(5):284-289. 1968. 384 Z39
- 80630 OHATA, Y., and UEDA, S. Phosphatase action on phosphate in potato starch. II. Starke 19 (11):363-368. Ref. Nov.1967. 309 St22
- 80631 PFANNMULLER, B. The influence of molar substrate concentrations on the Michaelis constant in the deterioration of high-molecular amyloses with phosphorylase. (Ge) Starke 20 (1):1-3. Jan.1968. 309 St22  
English summary.  
From potatoes.
- 80632 SALKOVA, E. G., and NIKIFOROVA, T. A. Composition and dynamics of non-volatile organic acids in ripening fruit. (Rus) Akad. Nauk. SSSR. Dokl. 179:218-220. 1968. 511 P444A  
Apples.
- 80633 SANDRET, F., and MICHIELS, L. Enzymes and development of the industrial value of potatoes. (Fr) Ann. Nutr. Aliment. 21(6):B361-B386. Ref. 1967. 389.8 An73  
Includes discussion.
- 80634 SATO, Y. Studies on the carbohydrates in vegetables. 5. Isolation of cellulose from the leaves of *Artemisia capillaris* and its relation to hemicellulose. (Ja) Jap. Soc. Food Nutr. J. 20(6):10-14. Mar.1968. 389.9 J27  
English summary.
- 80635 SCHMITT, L. Testing the eating quality of potatoes. (Ge) Kartoffelbau 19(1):16. Jan. 1968. 75.8 K145
- 80636 SHAW, P. E., TATUM, J. H., and BERRY, R. E. Acid-catalyzed degradation of D-fructose. Carbohyd. Res. 5(3):266-273. Ref. Nov.1967. 385 C172  
In citrus juice.
- 80637 UHLIG, R. Contribution to the study of nitrate, nitrite, and vitamin C content of canned vegetable baby foods. (Ge) Indus. Obst- Gemüse-verwertung 53(7):189-194. Ref. Apr.4,1968. 389.8 K832
- 80638 WATSON, E. L. Rheological behaviour of apricot purees and concentrates. Can. Agr. Eng. 10(1):8-11. Ref. May 1968. 58.8 C164
- 80639 WILLIGEN, A. H. A. DE, and GROOT, P. W. DE. The influence of temperature on the adsorption of water and water-soluble matters at ungelatinized potato starch. (Ge) Starke 19(11):368-372. Nov.1967. 309 St22  
English summary.
- 80640 ZOOK, E. G., and LEHMANN, J. Mineral composition of fruits. I-II. Amer. Diet. Ass. J. 52(3):218-231. Mar.1968. 389.8 Am34
- Consumption and Utilization
- 80641 THE APPLE buying habits of consumers. Int Fruit World 27(1):279,281-282,285,287-288. Spring 1968. 286.83 F9426  
Text also in French and German.  
In Switzerland.
- 80642 CONSUMPTION of ware potatoes in western Europe. Int. Fruit World 27(1):302,305,307-308, 311,313,315,317-318,321. Spring 1968. 286.83 F9426  
Text also in French and German.
- Distribution, Marketing, and Transportation
- 80643 BANTING, E. Fruit and vegetables; domestic market threatened. Can. Food Indus. 39(5):31-33. May 1968. 286.83 C166
- 80644 BITTLEMAN, O. Growing potatoes and the flag in the spring horse race. (Ge) Kartoffelbau 19(2):21-22. Feb.1968. 75.8 K145  
Market directed varieties.
- 80645 BLAUW, P. From plant to customer. (Du) Groenten Fruit 23(33):1475-1476. Feb.28,1968. 80 G89  
Strawberry marketing.
- 80646 BOZIDAREVIC, D. Principles and development of fruit purchasing in Vojvodina. (Se) Ekon. Poloprivrede 15(4):241-247. Apr.1968. 281.8 Ek72
- 80647 CURLEE, D. Armed with marketing, the asparagus kingdom protects its borders. Prod. Marketing 11(3):9-12. Mar.1968. 280.38 P943  
California.
- 80648 ENOKI, I. On the cooperative marketing of beans in Hokkaido. (Ja) Quart. J. Agr. Econ. 22(1):161-190. Jan.1968. 22.5 N687
- 80649 ESCORSA, R. Now distances will not exist in the transportation of fruit and vegetables. (Sp) Cultiv. Mod. 41(3):42-43. Mar.1968. 15 C89  
Refrigeration.
- 80650 ETZOLD, B., and others. Suggestions for a national information system on the movements of commodities. (Ge) Deut. Gartenbau 15(1):12-14. Jan.1968. 80 G1948  
D. Scharsich, U. Kipping, and R. Scheffel, joint authors.  
Vegetables and fruit.
- 80651 FOSTER, R. W. The use of ships as pre-coolers for fruit. New Zeal. J. Sci. 10(4):896-914. Dec.1967. 514 N482  
Apples.
- 80652 HLADIK, J. The transportation of fruit from orchards. (Cz) Zahradnicke Listy 61(3):76; (4):110. 1968. 80 Z12
- 80653 KOJIMA, T. Reorganization of the wholesale produce markets in a local city; an institutional approach. (Ja) Quart. J. Agr. Econ. 22(2):99-138. Apr.1968. 22.5 N687
- 80654 KOOMEN, J. P. Blanched celery in 1967. (Du) Groenten Fruit 23(26):1189. Jan.10,1968. 80 G89  
Marketing.
- 80655 LAMMERS, R. P. On agricultural peas and green peas, harvester threshers and competitive power. (Du) Landbouw-Serv 1:14,16-17. Jan./Feb.1968. 13 L234
- 80656 LEDJE, I. Marketing or programmed distribution—alternatives for marketing of horticultural products. (Sw) Jord—Groda—Djur 24:209-218. 1968. 11 J763  
Vegetables and fruit.
- 80657 LINDSTAD, B. Marketing of tree fruit in British Columbia. (Da) Erhvervsfrugtavlere 35 (2):65-67. Feb.1,1968. 80 Er3
- 80658 NIELSEN, E. Fruit marketing. (Da) Erhvervsfrugtavlere 35(2):56-59. Feb.1,1968. 80 Er3
- 80659 SANDERS, J. W. R. Legal public supply of potato varieties. (Du) Pootaardappelhandel 21(8):3-5,7-8. Mar.1968. 286.83 P79
- 80660 SCHMID, G. Observations on the fruit marketing season 1967. (Ge) Schweiz. Z. Obst- Weinbau 104(7):154-157. Mar.16,1968. 80 Sch9
- 80661 SEIDEL, E., and others. On some problems of direct supply of fruit and vegetables. (Ge) Deut. Gartenbau 15(1):4-9. Jan.1968. 80 G1948  
D. Scharsich, A. Messner, H. Rockstroh, and E. Gatzke, joint authors.
- 80662 SEITZER, The fruit avalanche is rolling. (Ge) Obstbau 86(11):245-246. Nov.1,1967. 80 Ob73  
Marketing problems under the EEC.
- 80663 SHILONI, G. Marketing of oranges in the Gaza Strip. (He) Agr. Israel 13(6/7):78-79. Mar./Apr.1968. 22.5 Ag825
- 80664 TRAXLER, H. From grapes to wine. (Ge) Winzer (ser.2):24:27-28. Feb.1968. 95.8 W73  
Whether to sell the grapes or make them into wine.
- 80665 WHITELY, K. T. Local marketing of citrus fruits. West. Australia. Dep. Agr. J. (ser.4)9 (2):57-59. Feb.1968. 23 W52J



- 80666 YKHNEVICH, P. Conveyor belt from the orchard to the store. U. S. Joint Publ. Res. Serv. Transl. USSR Consum. Goods Dom. Trade 220:9-12. Jan.3,1968. (JPRS 43,863) 173 J663Tro  
Fruit.  
Translation from Pravda, Nov.29,1967:2.  
Issued by CFSTI.

#### Grading, Inspection, Standardization, and Quality

- 80667 BARAGANO DE MOSQUEDA, M. Project of classification of some tropical fruits based on their flavor and taste. (Sp) Arch. Latinoamer. Nutr. 17(4):311-322. Ref. Dec.1967. 389.8 Ar22  
English summary.
- 80668 BAUER, A. Quality and grading of our fruits must be improved! (Ge) Grune 96(16):555-557. Apr.19,1968. 17 Sch9  
Switzerland.
- 80669 DIVERGENCE of opinions between the EEC commission and the EEC countries on organization of the Common Market for fruit and vegetables. Int. Fruit World 27(1):29-30,33-34,37, 39-40. Spring 1968. 286.83 F9426  
Text also in French and German.  
Common quality standards.
- 80670 EWALD, G. Plan for best quality food potatoes. (Ge) Feldwirtschaft 9(4):149-150. Apr.1968. 18 W763  
Text of interview.
- 80671 GUTSCHMIDT, J. Objectively obtainable characteristics of peas for the processing industry and their importance for determining quality. (Ge) Indus. Obst- Gemuseverwertung 53(6): 163-167. Ref. Mar.21,1968. 389.8 K832
- 80672 HACKE, F. Raw material demands of specialized products from potatoes. (Ge) Kartoffelbau 19(2):34-35. Feb.1968. 75.8 K145  
Quality and varieties.
- 80673 HYNDMAN, J. B. The pecan shelling industry of the Southwest. FDA [Food Drug Adm.] Papers 2(4):25-29. May 1968. HD9000.9 U5A1  
Sanitation and inspection.
- 80674 KOVAC, J., and others. Persistence of O,O-dimethyl-S-(phthalimidomethyl)-dithiophosphate residues in vegetables and fruits. (Cz) Agrochemia [Bratislava] 8(3):77-81. 1968. 385 Ag88  
V. Batora, J. Moravcik, and M. Benusova, joint authors.  
English summary, p.3.
- 80675 MAIER-BODE, H., and BECHTEL, W. D. Investigations on residues of amitrol in fruit and grapes. (Ge) Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz. Sonderheft 4:193-200. 1968. 464.8 Z33  
English summary.
- 80676 MICHENER, H. D., and others. Microbiological deterioration of frozen parfried potatoes upon holding after thawing. Appl. Microbiol. 16(5): 759-761. May 1968. 448.3 Ap5  
F. P. Boyle, G. K. Nottter, and D. G. Guadagni, joint authors.
- 80677 ROMME, J. C. M., and ROPS, A. H. J. Agricultural research in the IJsselmeer polder. (Du) Pootaardappelhandel 21(92):12. Apr.1968. 286.83 P79  
Potato grading and cleaning equipment.
- 80678 SAFRAN, H. The causes of culls in citrus. (He) Agr. Israel 13(6/7):67-68. Mar./Apr. 1968. 22.5 Ag825
- 80679 SCHOEWE, E. New TGL for food potatoes. (Ge) Feldwirtschaft 9(4):156-158. Apr.1968. 18 W763  
Grades.
- 80680 SEIBEL, A. Is "Bintje" the world wide potato variety? (Ge) Kartoffelbau 19(2):46-47. Feb.1968. 75.8 K145  
Defects and quality.
- 80681 SOMMER, H. Industrial preparation and improvement of quality of food potatoes through central grading stations. (Ge) Feldwirtschaft 9(4):162-163. Apr.1968. 18 W763

- 80682 STOBWASSER, H., and KIRCHHOFF, J. Contribution to the problem of insecticide residues in salad greens and spinach grown in the field and in the greenhouse. (Ge) Qualitas Plant. Mater. Veg. 15(3):273-279. Aug.3,1968. 64.8 M41
- 80683 UNNIKRISHNAN, M. K. Quality control on cashew kernels. Indian Cashew J. 4(2):3-5. 1967. 286.83 C26  
Inspection.
- 80684 VAN VEEN, A. G. The bongkrek toxins. Symp. Microbial Toxins. Papers 1966:43-50. Ref. 1967. QR115.S9 1966  
Food poisoning in Indonesia caused by toxins in poorly fermented coconut products.

#### Packing and Packaging

- 80685 IL'CHENKO, B. N., and others. Storage of grapes in polyethylene and wooden cases. (Rus) Vinodel. Vinograd. SSSR 1:51-53. 1968. 95.8 V77  
A. I. Bazanova, V. A. Motanov, and L. M. Anikina, joint authors.
- 80686 KESHET, Z. Packing houses for citrus fruit. Israel Econ. 24(3):75-76. Mar.1968. 280.8 Is722
- 80687 RAPHAEL, T. D. Bin liners for Golden Delicious apples. Tasmanian J. Agr. 39(1):27-29. Feb.1968. 23 T182T
- 80688 SVIRSKY, M. Packing houses for deciduous fruit. Israel Econ. 24(3):72-74. Mar.1968. 280.8 Is722
- 80689 TSIPRUSH, R. YA, and ONOPRIENKO, M. A. Synthetic packing materials. (Rus) Sadovodstvo 12:17. Dec.1967. 80 Sa13  
Apples.

#### Prices, Price Control, and Rationing

- 80690 EEC use of the reference price system. Int. Fruit World 61-62,65-66,69-70,73-74,77-78,81, 83-84,87-88,91. Spring 1968. 286.83 F9426  
Text also in French and German.  
For fruit and vegetables.
- 80691 ERHVERVSRADET FOR GARTNERI OG FRUGTAVL. Arsberetning [Annual report of the Board for Market Gardening and Fruit Growing], 1967. Kobenhavn, 1968. 36 p. 286.3919 Er3  
Chiefly prices and export and import of fruit and vegetables.
- 80692 KRAKER, J. DE. Spinach can be too late. (Du) Groenten Fruit 23(27):1229. Jan.17,1968. 80 G89  
Prices.
- 80693 OYDVIN, J. Factory prices of strawberries and raspberries. (No) Gartneryrket 58(13): 270. Mar.29,1968. 80 G1938

#### Processing and Storage

- 80694 ANGELINI, P., and PFLUG, I. J. Volatiles in controlled-atmosphere apple storage: evaluation by gas chromatography and mass spectrometry. Food Technol. 21(12):99-102. Ref. Dec.1967. 389.8 F7398
- 80695 APPLE storage methods used in China. Int. Fruit World 27(1):291-292,295,297-298,301. Spring 1968. 286.83 F9426  
Text also in French and German.
- 80696 BARKAI-GOLAN, R., TEMKIN-GORODEISKI, and KAHAN, R. S. Effect of gamma irradiation on development of fungi, Botrytis cinerea and Rhizopus nigricans, causing rot in strawberry fruits. Food Irradiation 8(1/2):34-36. July/Dec.1967. 389.8 F7383  
Storage rots.
- 80697 BOURNE, M. C., and ROBINSON, W. B. A touch of sugar helps the flavor of canned beets. Canner/Packer 137(6):24. June 1968. 286.83 C16

- 80698 CASOLI, U., and VERSITANO, A. The effects of preliminary treatment and packaging on the chemical and physical characteristics of freeze-dried peas. (It) *Indus. Conserve* 43(1): 9-12. Ref. Jan./Mar. 1968. 389.8 In23  
English summary, Summaries, p.3.
- 80699 CERMAK, N. The present position and prospects of the Yugoslav canning industry. 1. U. S. Joint Publ. Res. Serv. Transl. East Europe. *Agr. Forest. Food Indus.* 626:1-12. Feb. 15, 1968. (JPRS 44,393) 173 J663Ste  
Fruit and vegetables.  
Translation from *Hrana i Ishrana* 9/10:555-559. Sept./Oct. 1967.  
Issued by CFSTI.
- 80700 CESARI, A., and TONINI, G. Secondary aspects of treatments for control of scald in cultivars "Stark Delicious" and "Imperatore." (It) *Inform. Fitopatol.* 18(7):111-114. Apr. 15, 1968. 464.8 In3  
Post-harvest treatment of apples with 1,2-dihydro-6-ethoxy-2,2,4-trimethylquinoline and with diphenyl-amine.
- 80701 CRNKO, J. Vegetables for processing in Mendoza. (Sp) *Oeste* 6(2):43-52. Ref. 1967. 287 Oe8  
Varieties.
- 80702 FAROOQI, W. A., MUMTAZ, A., and AMIR, M. Effect of gamma radiation on guavas (*Psidium guajava* L.). *Food Irradiation* 8(1/2):37-40. Ref. July/Dec. 1967. 389.8 F7383
- 80703 FRUIT refrigeration problems discussed at the XIIIth International Refrigeration Congress in Madrid. *Int. Fruit World* 27(1):207,209-210, 213,215-216,219. Spring 1968. 286.83 F9426
- 80704 GALCHENKO, N. B. Fruit storage. (Rus) *Sadovodstvo* 12:36-37. Dec. 1967. 80 Sa13
- 80705 GENTRY, J. P., and NELSON, K. E. Further studies on control of decay of table grapes by two-stage generation of sulfur dioxide within unvented containers. *Amer. J. Enol. Viticult.* 19(1):70-81. Ref. Jan./Mar. 1968. 390.9 Am33  
In storage.
- 80706 GRNCAREVIC, M., RADLER, F., and POSSINGHAM, J. V. The dipping effect causing increased drying of grapes demonstrated with an artificial cuticle. *Amer. J. Enol. Viticult.* 19(1):27-29. Ref. Jan./Mar. 1968. 390.9 Am33  
Improvement of grape drying.
- 80707 HAQUE, I. U. The technology of the preservation of green peas. *Sci. Indus.* 5(1):25-33. Jan. 1967. 475 Sci238
- 80708 HASHIDA, W., MOURI, T., and SHIGA, I. Application of 5'-ribonucleotide in canned vegetables. (It) *Indus. Aliment.* 7(2):69-75. Ref. Feb. 1968. HD9000.1.152
- 80709 HOOVER, M. W., and HARMON, S. J. Carbohydrate changes in sweet potato flakes made by the enzyme activation technique. *Food Technol.* 21(11):115-118. Ref. Nov. 1967. 389.8 F7398
- 80710 JANKOWSKI, S., and others. Drying of peas. (Pol) *Przegl. Zbozowo Mlynarski* 12(2):39-43. Ref. Feb. 1968. 298.8 P95  
I. Czyz, K. Strutynska, and A. Petkowicz, joint authors.  
German summary.
- 80711 KENNERLY, A. B., and SERB, T. J. Texas canning: slow recovery. *Canner/Packer* 137(5):19. May 1968. 286.83 C16  
Vegetables.
- 80712 KIENG, W. F. Prospects of the French jam and preserved fruit industry. (Ge) *Indus. Obst-Gemuseverwertung* 53(6):171-172. Mar. 21, 1968. 389.8 K832
- 80713 KITAGAWA, Y. Studies on the effect of the ultraviolet rays on vitamin C. 2. Change of the vitamin C in juices of vegetables and fruits. (Ja) *Jap. Soc. Food Nutr. J.* 20(6):15-20. Mar. 1968. 389.9 J27  
English summary.
- 80714 KITAGAWA, Y. Studies on the effect of the ultraviolet rays on vitamin C. 3. Changes of the vitamin C of vegetables and fruits. (Ja) *Jap. Soc. Food Nutr. J.* 20(6):21-25. Mar. 1968. 389.9 J27  
English summary.
- 80715 LAMBETH, V. N., FIELDS, M. L., and BROWN, J. R. Effect of salt additives on detinning of canned spinach. *Food Technol.* 21(11):102-103. Nov. 1967. 389.8 F7398  
Nitrate-N.
- 80716 LANCE, P. No tears from growing specialty: boiled onions. *Canner/Packer* 137(5):20-21. May 1968. 286.83 C16  
Canned.
- 80717 LANCE, P. Thoroughly modern mushrooms. *Canner/Packer* 137(5):17-18. May 1968. 286.83 C16  
Sterilization process.
- 80718 LUOTTI, E. Preparation of tomato and apple juice with centrifuges. (It) *Indus. Aliment.* 7(2):76-78. Feb. 1968. HD9000.1.152
- 80719 MCBEAN, D. M. Levels of free and combined sulfur dioxide in fruits during sulfuring and drying. *Food Technol.* 21(10):112-116. Ref. Oct. 1968. 389.8 F7398
- 80720 MCGAHREN, W. J., and MITSCHER, L. A. Dihydroisocoumarins from a *Sporormia* fungus. *J. Org. Chem.* 33(4):1577-1580. Ref. Apr. 1968. 381 J827  
From stored carrots.
- 80721 MOYER, J. C. Continuous pressing of apple juice. *Farm Res.* [N. Y. Sta.] 32(4):4-5. Jan./Mar. 1967. 100 N48A
- 80722 ORR, N. Brief instructions for freezing vegetables. N. C. Univ. Ext. Home Econ. Ser. 86, 4 p. Apr. 1968. 275.29 N811Hom
- 80723 PARODI-LUDWIG, M. Production of canned tomatoes decreased in Italy. (Ge) *Indus. Obst-Gemuseverwertung* 53(6):170-171. Mar. 21, 1968. 389.8 K832
- 80724 PFENNIG, H. On the infrared drying of potato starch. (Ge) *Starke* 20(1):16-26. Ref. Jan. 1968. 309 St22  
English summary.
- 80725 PFLUG, I. J., FELLERS, P. J., and GUREVITZ, D. Diffusion rates in the desalting of pickles. *Food Technol.* 21(12):90-94. Dec. 1967. 389.8 F7398
- 80726 PIERSON, C. F. Method for determining the sensitivity of fungus spores to hot water. *Phytopathology* 58(4):538-539. Apr. 1968. 464.8 P56  
Testing post-harvest fungicides on fruit and vegetables.
- 80727 PORETTA, A., CASOLARI, A., and CASSARA, A. The use of nisin in the manufacture of tomato juice. (It) *Indus. Conserve* 43(1):13-14. Ref. Jan./Mar. 1968. 389.8 In23  
English summary, Summaries, p.3.
- 80728 RAJEWSKI, C. Technical progress in the potato industry. (Pol) *Przemysl Spozywczy* 22(1):23-24. 1968. 389.8 P95
- 80729 REVETTI, L. M. Gamma irradiation of "Arracacia xanthorrhiza," a Venezuelan nutritious vegetable. *Food Irradiation* 8(1/2):41-43. July/Dec. 1967. 389.8 F7383
- 80730 ROUND, K. M. Refrigerated storage for horticultural crops—the growth of a market. *Mod. Refrig.* 71(842):22,63. May 1968. 295.8 M72  
Great Britain.
- 80731 SELEZNEV, V. I., and ARTYKOVA, L. A. Kummis from cow's milk. (Rus) *Moloch. Prom.* 12:36-39. Dec. 1967. 44.8 M734  
Manufacture.
- 80732 SPARENBERG, H. Potato washing equipment in Holland. (Ge) *Kartoffelbau* 19(2):50-51. Feb. 1968. 75.8 K145
- 80733 STEINBUCH, E. Treatment of greenhouse cucumbers for processing. (Du) *Groenten Fruit* 23(39):1751,1753. Apr. 10, 1968. 80 G89



- S0734 TROGU, C. Protection of horticultural products from antiparasitical residues. (It) Indus. Aliment. 7(2):100-102. Feb.1968. HD9000.1.152  
Cleaning.
- S0735 TSYGANKOV, A. Organization and economics of tomato ripening. (Rus) Kartofel' Ovoshchi 2: 21-22. Feb.1968. 75.8 K147
- S0736 TURSKI, J. Potato industry goals in 1966-1970. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 622:20-26. Jan.31,1968. (JPRS 44,201) 173 J663Ste  
In Poland; chiefly processing industry.  
Translation from Przemysl Spozywczy 10: 3-5. Oct.1967.  
Issued by CFSTI.
- S0737 TVAROZEK, V. The acclimatization of fruit in storages with controlled temperature. (Cz) Zahradnicke Listy 61(5):134. May 1968. 80 Z12
- S0738 UNITED STATES; the citrus industry. Int. Fruit World 27(1):139-140,143-144,147,149-150,153-154. Spring 1968. 286.83 F9426  
Text also in French and German.
- S0739 VON ELBE, J. H., and others. Relation of pit orientation to force required to remove the pit from individual Montmorency cherries. Food Technol. 21(11):110-112. Ref. Nov.1967. 389.8 F7398  
R. T. Schuler, J. L. Halderson, H. D. Bruhn, and J. D. Moore, joint authors.
- S0740 WAARDENBERG, J. VAN. EEC regulations for processed fruits and vegetables. (Du) Conser-va 16(10):235-237. Apr.1968. 389.8 C7632
- Statistics
- S0741 CENSUS of statistics on the situation in Austrian vineyards 1966. (Ge) Winzer (ser.2)24: 24-26. Feb.1968. 95.8 W73
- S0742 FLORIDA. CROP AND LIVESTOCK REPORTING SERV. Florida agricultural statistics; vegetable summary, 1967. Orlando, 1967? 125 p.,map. 1.941 H8V526  
Florida Department of Agriculture cooperating with U. S. Department of Agriculture and University of Florida.
- S0743 NEW YORK (STATE) CROP REPORTING SERV. Statistics relative to the fruit industry in New York State 1959-1966. N. Y. (State) Dep. Agr. Markets. [Rep.] 108,22 p. Apr.1968. 280.3939 N483  
Statistical Reporting Service of the U. S. Department of Agriculture in cooperation with New York State Department of Agriculture and Markets.
- S0744 U. S. CROP REPORTING BOARD. Fruits, non-citrus, by States, 1966 and 1967. I. Washington, 1968. 23 p. 1.941 H8F943
- S0745 THE U. S. 1967 apple crop. Int. Fruit World 27(1):131-132,135-136,map. Spring 1968. 286.83 F9426  
Text also in French and German.
- S0746 ZINGSTRA, H. Areas of 40 potato varieties in 1962-1967. (Du) Pootaardappelhandel 21(6): 19-21. Jan.1968. 286.83 P79
- GRAIN AND GRAIN PRODUCTS
- S0747 AGNESI, V. Grain and hunger in the world: Brief proposals for alleviating large evils. (It) Molini Ital. 19(1):17-19. Jan.1968. 298.8 M73  
Italian food pastes.
- S0748 AHLBORN, F. Milling in the mirror of figures. (Ge) Deut. Muller-Zeitung 21(1):149-151. Mar.16,1968. 298.8 M91
- S0749 ANGERMANN, A. The education of technical leadership for milling and mill construction. (Ge) Muhle 105(13):181-183. Mar.28,1968. 298.8 M89
- S0750 ARBEITSGEMEINSCHAFT GETREIDEFORSCHUNG. Conference for baking technology, September 12 to 14, in Detmold. (Ge) Deut. Lebensm.-Rundsch. 64(3):85-88. Mar.1968. 389.8 D482  
Bundesforschungstalt fur Getreideverarbeitung, cooperating.  
Summaries of papers including flour quality.
- S0751 AUDIDIER, Y., and others. Determination of damaged starches in wheat flours; method for determination of starch deterioration with aid of bacteria alpha-amylase. (Ge) Starke 20(3): 78-85. Ref. Mar.1968. 309 St22  
J. F. De La Gueriviere, Y. Seince, and K. Benoualid, joint authors.  
English summary.
- S0752 AVDUS', P. B., and SAPOZHNIKOVA, A. S. Opredelenie kachestva zerna, muki i krupy [Determination of quality of grain, flour and groats]. Ed. 2, rev. and enl. Moskva, Kolos, 1967. 416 p. Ref. SB189.A9 1967
- S0753 BAKER, C. B. Grain production: near-term capacities in feed grains and wheat. Iowa. State Univ. Sci. Technol. Cent. Agr. Econ. Develop. CAED Rep. 31:25-42. 1968. 281.9 I093
- S0754 BANKS, W., and GREENWOOD, C. T. Studies on starches of high amylose-content. IX. The detection of linear material in the anomalous amylopectin from amylomaize starch. Carbohydr. Res. 6(2):241-244. Ref. Feb.1968. 385 C172
- S0755 BARTNIK, S. Structural changes in the grain processing industry. (Pol) Przegl. Zbozowo Mlynarski 12(2):33-36. Feb.1968. 298.8 P95
- S0756 BEE, R. Chemical conservation. Great Brit. Min. Agr. Fish. Food. Agr. 75(3):114-118. Mar.1968. 10 G79J  
Testing use of propionic acid for storage of damp grain.
- S0757 BEKEN, R. VAN DER. The influence of kilning temperature on the quality of malt. (Fl) Int. Tijdschr. Brouwerij Mouterij 27(4):109-115, map. 1967/68. 390.8 T32Af
- S0758 BERGAL, P. The 1967 malting barley crop in France. (Fl) Int. Tijdschr. Brouwerij Mouterij 27(4):121-123. 1967/68. 390.8 R32Af
- S0759 BOLLING, H., and ZWINGELBERG, H. Milling problems with different diagram techniques. (Ge) Deut. Muller-Zeitung 66(3):54-56. Ref. Feb.8,1968. 298.8 Su2
- S0760 BOLLING, H., and ZWINGELBERG, H. Problems in milling with different diagram techniques. (Ge) Deut. Muller-Zeitung 66(2):27-29. (Cont.) Jan.25,1968. 298.8 Su2
- S0761 BOLLING, H., and ZWINGELBERG, H. Problems in milling with different diagram technique. (Ge) Muhle 105(2):19-20. (Concl.) Ref. Jan.11,1968. 298.8 M89
- S0762 BOWMAN, C. F. Corn handling challenges presented by the modern corn harvest. Amer. Soc. Farm. Managers Rural Appraisers. J. 32(1):35-38. Apr.1968. 281.8 Am32  
Marketing and storage.
- S0763 BRUMMER, J. M. On the chromatographic determination of food blue dyes. (Ge) Branntweinwirtschaft 108(2):19-20. Jan.25,1968. 390.8 B7322  
Used in grain.
- S0764 CALLAGHAN, A. R. What the wheat buyers want. Agr. Gaz. New S. Wales 79(4):209-217. Apr.1968. 23 N472
- S0765 CALLAGHAN, A. R. Wheat: consumer quality demands. Australian Inst. Agr. Sci. J. 34(1):10-18. Mar.1968. 23 Au74
- S0766 CAMONI, I., and others. Determination of O,O-dimethyl-O-2,2-dichlorovinylphosphate (DDVP) in grains. (It) Rass. Chim. 20(1):20-22. Jan./Feb.1968. 385 R18  
N. Gandolfo, G. Ramelli, A. Sampaolo, and L. Binetti, joint authors.  
English summary, p.2.
- S0767 CANADA. WHEAT BOARD. Annual report 1966-1967. Winnipeg, 1968. 21 p. 280.3599 C163

- 80768 CHARBONNIERE, R., and others. Diffractometric study of corn starches with variable amylose content. (Fr) *Starke* 20(3):75-78. Ref. Mar.1968. 309 St22  
C. Mercier, M. T. Toller, and A. Guilbot, joint authors.  
English summary.
- 80769 CHOWDHURY, S. U., and HOSSAIN, M. M. Lethal doses (\*) of gamma radiation of certain spoilage fungi of stored rice. *Food Irradiation* 8(1/2):30-33. Ref. July/Dec.1967. 389.8 F7383
- 80770 CLEVE, H., and ANDER, E. New viewpoints in the dry removal of germ and milling of corn. (Ge) *Deut. Muller-Zeitung* 66(2):30-34. Jan.25, 1968. 298.8 Su2
- 80771 CORREDI, A. The world grain season 1966-67 and preliminary evaluation of the 1967-68 season. (It) *Molini Ital.* 19(3):96-99. Mar.1968. 298.8 M73  
Wheat.
- 80772 CROMARTY, A. S. A gas tracer technique for predicting chilling pattern in stored barley. *J. Agr. Eng. Res.* 13(1):1-11. Ref. Mar.1968. 58.8 J82  
With electronic leak detector.
- 80773 CURLAND, B. First pneumatic flour silo in Bulgaria. (Ge) *Muhle* 105(6):72-73. Feb.8, 1968. 298.8 M89
- 80774 DAL POZZO, A., and DANSI, A. Cyclic peptides in maize grains. *Starke* 20(3):94. Mar. 1968. 309 St22
- 80775 DEL VECCHIO, M. The 12-passage mill. (It) *Tec. Molitoria* 19(4):111-113. Feb.29,1968. 298.8 Se42
- 80776 DONDE, W. B. Summary of the report on the high-yielding varieties program in India, Kharif 1966. *Farm Mange. Notes Asia Far East* 4(1):31-35. Jan.1968. 281.8 F2228  
Grain.
- 80777 DRAPRON, R., and UZZAN, A. Problems concerning the lipolytic and lipoxygenase activity of grains, seeds, and oilseeds. (Fr) *Ann. Nutr. Aliment.* 22(1):B393-B436. Ref. 1968. 389.8 An73
- 80778 DREWS, E., and REIMERS, H. The milling properties of rye in relation to site. (Ge) *Mullerei* 21(6):75-76. Feb.10,1968. 298.8 M91
- 80779 DREWS, E., and REIMERS, H. Observations on milling investigations with domestic ryes. (Ge) *Deut. Muller-Zeitung* 66(3):49-50. Feb.8, 1968. 298.8 Su2
- 80780 DREWS, E., TIMM, E., and NERNST, C. On the quality of the 1967 rye crop. (Ge) *Deut. Muller-Zeitung* 66(2):42-43. Jan.25,1968. 298.8 Su2
- 80781 DREWS, E. On the quality of the 1967 rye crop. (Ge) *Muhle* 105(4):40-41. Jan.25,1968. 298.8 M89
- 80782 EIKELNBOOM, A. J. Sorting table in grain processing. (Ge) *Muhle* 105(2):15-16. (Cont.) Jan.11,1968. 298.8 M89  
Cleaning.
- 80783 EIKELNBOOM, A. J. Sorting table in grain processing. (Ge) *Muhle* 105(3):30-31. (Concl.) Jan.18,1968. 298.8 M89  
Cleaning.
- 80784 FISCHBECK, G. Natural limits of homogeneity in brewing barley. (Ge) *Brauwissenschaft* 21(1):13-16. Jan.1968. 390.8 B773  
English summary.
- 80785 FRACTIONATION of wheat flour albumins by DEAE cellulose chromatography. (Fr) *Acad. Sci. C. R., Ser. D*, 17(266):1779-1782. Ref. Apr.22,1968. 505 P21
- 80786 FRITSCH, E. Flour defects and bread defects. (Ge) *Mullerei* 21(2):23-26. (Cont.) Jan.13, 1968. 298.8 M91
- 80787 FRITSCH, E. Scientific studies as basis for storage in mills. (Ge) *Mullerei* 21(10):139-142. Mar.9,1968. 298.8 M91  
Grain.
- 80788 GALTER, E. Wheat evaluation with the "Quadrat rapid farinogram" combination analysis. (Ge) *Muhle* 105(21):309-310. May 23,1968. 298.8 M89
- 80789 GARCIA FAURE, R., GARCIA OLMEDO, F., and VALLEJO-ACEVEDO, J. M. Sitosterol palmitate in various parts of the hard and soft wheat grain. (It) *Tec. Molitoria* 19(4):114-120. Ref. Feb.29,1968. 298.8 Se42
- 80790 GOLDFINGER, M. H. Homage to harvest. *Architect. Forum* 128(3):70-73. Apr.1968. 296.8 B76  
Ancient grain storage structures in Portugal and Spain having a religious significance.
- 80791 GRASZEWICZ, H. The development of milling from a handicraft to an industry. (Pol) *Przegl. Zbozowo Mlynarski* 12(1):24-25. Jan.1968. 298.8 P95
- 80792 GROTH, G. The grain silo—an important factor to the economics of the milling enterprise. (Ge) *Deut. Muller-Zeitung* 66(7):154-155. Apr.11,1968. 298.8 Su2
- 80793 HAMPEL, G. Investigations on purebred wheat starches. I. Isolation and composition of the starch grain surfaces. (Ge) *Getreide Mehl* 17:133-135. Ref. Dec.1967. 298.8 G332
- 80794 HANDKE, E. The silo of plastic strengthened with glass fiber. (Ge) *Deut. Muller-Zeitung* 66(7):156-160. Apr.11,1968. 298.8 Su2
- 80795 HARTONG, B. D., and KRETSCHMER, K. F. Physical characteristics of malt development. (Ge) *Brauwelt* 108(28):517-524. Ref. Apr.5, 1968. 390.8 B732
- 80796 HEIDEMANN, H. Recent developments in flour tank vehicles. (Ge) *Muhle* 105(12):163-164. Mar.21,1968. 298.8 M89
- 80797 HIERONYMUS, T. A. Hedging for country elevators. *Ill. Univ. Coll. Agr. Dep. Agr. Econ. Res. Rep. AERR* 91,51 p. Ref. Mar.1968. 281.9 IL62
- 80798 HORLER, D. F. Gel filtration on sephadex LH-20. A general clean-up method for pesticides extracted from grain. *J. Sci. Food Agr.* 19(4):229-231. Apr.1968. 382 So12  
Insecticides.
- 80799 HUBER, H. Flour analysis and baking research in practical performance and evaluation. (Ge) *Muhle* 105(15):207-208. (Cont.) Apr.11,1968. 298.8 M89
- 80800 HUBER, H. Flour analysis and baking research in practice and investigation. IV. (Ge) *Mullerei* 21(17):241-242. Apr.27,1968. 298.8 M91
- 80801 HUBER, H. Flour analysis and baking research in practice and research. (Ge) *Mullerei* 21(18):263. (Concl.) May 4,1968. 298.8 M91
- 80802 HUBNER, H. Flour analysis and baking research in practice and investigation. (Ge) *Muhle* 105(17):238. (Cont.) Apr.25,1968. 298.8 M89
- 80803 HUBNER, H. Flour analysis and baking research in practice and investigation. III. (Ge) *Mullerei* 21(16):227-228. Apr.20,1968. 298.8 M91
- 80804 HUEBNER, F. R., and ROTHFUS, J. A. Gliadin proteins from different varieties of wheats. *Cereal Chem.* 45(3):242-253. Ref. May 1968. 59.8 C33
- 80805 IBRANYI, K. A quick method for the determination of the proportional bran content in cereals. 13 p. Ref. *Transl.* 14723  
Translation from *Malomipar es Termenyforgalom*, p. 256-262. n.d.
- 80806 IIZUKA, H., and ITO, H. Gamma-irradiation effect on microflora of rice. *Food Irradiation* 8(1/2):21-29. Ref. July/Dec.1967. 389.8 F7383
- 80807 ISEBAERT, L. 1967 malting barley and hops culture in Belgium. (Fl) *Int. Tijdschr. Brouwerij Mouterij* 27(4):128-132. 1967/68. 390.8 R32Af  
Quality.



- 80808 IVANKO, S., JAVOR, A., and HUSZAR, J. Contribution to the study of changeableness of amino-acid composition of grain in some varieties of winter wheat. (Cz) *Pol'nohospodarstvo* 14(1):3-22. Ref. 1968. 19.5 P752  
English summary.
- 80809 JAGER, H. Grain receiving and cleaning. (Ge) *Muhle* 105(15):205-206. Apr.11,1968. 298.8 M89
- 80810 JANICKI, J., and others. Changes in the composition of the microflora during storage of grain and their effects on the technological properties of the grain. (Ge) *Getreide Mehl* 17:125-129. (Cont.) Nov.1967. 298.8 G332  
E. Kaminski, S. Stawicki, and H. Chrzanowska, joint authors.
- 80811 JANICKI, J., and others. Changes in the composition of the microflora during storage of grain and their effects on the technological properties of the grain. (Ge) *Getreide Mehl* 17:139-141. (Concl.) Dec.1967. 298.8 G332
- 80812 JASKA, E. Soviet grain situation. *Can. Dep. Agr. Agr. Abroad* 23(2):45-48. Apr.1968. 281.9 C1642A
- 80813 KALINA, J. The problem of grains from qualitative point. (Cz) *Uroda* 16(5):169-171. May 1968. 64.8 Z12
- 80814 KAZAKOV, E. D. *Metody opredeleniya kachestva zerna* [Methods of determining quality of grain]. Ed. 2, rev. and enl. Moskva, Kolos, 1967. 286 p. SB189.K3 1967  
Laboratory.
- 80815 KEJMAR, F. Advantages and disadvantages of the purchasing of grains. (Cz) *Uroda* 16(4):125-126. Apr.1968. 64.8 Z12  
Includes drying and storage.
- 80816 KNAUFF, O. The importance of advances in milling technique in average and small mills. (Ge) *Deut. Muller-Zeitung* 66(2):40. Jan.25, 1968. 298.8 Su2
- 80817 KURATA, H., and others. Studies on the population of toxigenic fungi in foodstuffs. III. Mycoflora of milled rice harvested in 1965. *Food Hyg. Soc. Jap. J.* 9(1):23-28. Ref. Feb.1968. 389.8 N57  
S. I. Udagawa, M. Ichinoe, Y. Kawasaki, M. Takada, M. Tazawa, A. Koizumi, and H. Tanabe, joint authors.
- 80818 KURATA, H., and others. Studies on the population of toxigenic fungi in foodstuffs. IV. Aflatoxin producing fungi isolated from foodstuffs in Japan. *Food Hyg. Soc. Jap. J.* 9(1):39-34. Ref. Feb.1968. 389.9 N57  
H. Tanabe, K. Kanota, S. I. Udagawa, and M. Ichinoe, joint authors.  
Fungal isolates from rice and various kinds of flour.
- 80819 KWASIEBORSKI, S. Proposed plan for grain collection. (Pol) *Przegl. Zbozowo Mlynarski* 12(2):37-39. Feb.1968. 298.8 P95  
French summary.
- 80820 KWASIEBORSKI, S. Remarks on contract delivery of grain. (Pol) *Przegl. Zbozowo Mlynarski* 12(1):3-5. Jan.1968. 298.8 P95  
German summary.
- 80821 LAMONT, J. Tips on preventive maintenance. *Grain Feed J.* 125(10):8,10,12. May 22,1968. 298.8 G762  
Grain elevator management.
- 80822 LANE, M. J. Problems in handling and storing cereals. *Farmer's Sci. Joint Conf. [Proc.]*, 7th Conf.:66-71. 1967. 27 F22  
Includes discussion.
- 80823 LEIN, A. Evaluation of the baking volume according to the rapid-mix test from protein content and sedimentation. (Ge) *Muhle* 105(2):16-18. (Cont.) Jan.11,1968. 298.8 M89
- 80824 LEIN, A. Evaluation of the baking volume according to the rapid-mix test from protein content and sedimentation. (Ge) *Muhle* 105(3):27-29. (Concl.) Jan.18,1968. 298.8 M89
- 80825 LEOPOLD, R. The way to disposal of the wheat surplus. (Ge) *Forderungsdienst* 16(2):37-39. Feb.1968. 19 F75  
Causes of surplus and possible conversion to feed in Austria.
- 80826 LUDEWIGS, W. Flour analysis and baking research in practice and investigation. (Ge) *Muhle* 105(16):224-225. (Cont.) Apr.18,1968. 298.8 M89
- 80827 MANDER, K. 1968 FAQ wheat analysis; a crumb for our comfort. *J. Agr. [Melbourne]* 66(3):81. Mar.1968. 23 V66J
- 80828 MARZECKI, H. Electrical and automation laboratory for the grain processing industry. (Pol) *Przegl. Zbozowo Mlynarski* 12(1):1-2. Jan.1968. 298.8 P95  
French summary.
- 80829 MARZECKI, H. Electronic equipment in the grain processing industry. (Pol) *Przegl. Zbozowo Mlynarski* 12(2):48-51. Feb.1968. 298.8 P95  
French summary.
- 80830 MAZERON, P., KRISCHER, J., and HORN, P. Study of a basic water-soluble barley protein. (Fr) *Soc. Chim. Biol. Bull.* 49(12):1785-1792. 1967. 1967. 383 So1  
English summary.
- 80831 MCLAIN, L. Services must pay their own way. *Grain Feed J.* 125(10):12. May 22,1968. 298.8 G762  
Conditioning costs of grain.
- 80832 MCMINIMY, V. R., and KUTISH, F. A. Considerations for a grain reserve policy. *Iowa State Univ. Sci. Technol. Cent. Agr. Econ. Develop. CAED Rep.* 31:119-129. 1968. 281.9 Io93
- 80833 MCNAMEE, V. Who will do sampling, grading? *Grain Feed J.* 125(6):10-11. Mar.27,1968. 298.8 G762  
Grain.
- 80834 METTA, V. Law No. 580. (It) *Molini Ital.* 19(1):8-16. Jan.1968. 298.8 M73  
Grain industry regulation.
- 80835 MILLER, M. D. The challenge of rice crop residue utilization. *Rice J.* 71(4):22,24,26. Apr.1968. 59.8 R36  
California.
- 80836 MILLER, T. A. The relationship of wheat planted to wheat allotments in the Great Plains. *Agr. Econ. Res.* 20(2):57-63. Apr.1968. 1 Ec7Agr
- 80837 MORSINK, G. H. Malting barley production in the E.E.C. (Fl) *Int. Tijdschr. Brouwerij Mouterij* 27(4):100-108. 1967/68: 390.8 R32Af
- 80838 MOTTONEN, K. Inactivation of amylolytic activity during baking. (Ge) *Getreide Mehl* 17:136-139. Ref. Dec.1967. 298.8 G332  
Wheat.
- 80839 MULLER, F. M., and DIJKHUIS, J. G. Obtaining and storage of combined straw. (Du) *Neth. Dir. Landbouw. Landbouwvoorlichting* 25(1):35-38. Jan.1968. 12 N383M  
Ventilated storage.
- 80840 NARZISS, L., and HUNKEL, L. Investigations on the malting of different rye varieties of the 1966 harvest. (Ge) *Brauwissenschaft* 21(3):96-106. Mar.1968. 390.8 B733  
English summary.
- 80841 NICHOLS, T. E. Moisture discounts in grain. *N. C. Univ. Ext. Circ.* 488,12 p. Feb.1968. 275.29 N811  
Includes drying costs.
- 80842 NIKLAUS, P. Inspected grain areas of Switzerland and fall planting season 1957. (Ge) *Mitt. Schweiz. Landwirt.* 15(3):60-62. Mar.1968. 17 M69
- 80843 OLSEN, A. Mixing of dry and wet barley. (Da) *Tolvmandsbladet* 40(4):167-170. Apr.1968. 11 T58  
In connection with drying.
- 80844 OMAHA GRAIN EXCHANGE. Sixty-fourth annual report, 1967. Omaha, 1967. 16 p. 287 Om12  
Statistics.

- 80845 OZDOWSKI, J., and URBANIAK, M. Determining of rye quality by the falling number test. (Pol) *Przegl. Zbozowo Mlynarski* 12(1):17-18. Jan.1968. 298.8 P95  
French summary.
- 80846 PANJAKOVIC, M. Wheat production in Yugoslavia. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 645:34-52. May 10, 1968. (JPRS 45,311) 173 J663Ste  
Yields, consumption and trade.  
Translation from Produktivnost, Feb.1968: 103-109.  
Issued by CFSTI.
- 80847 PARISH, J. A., and HALSE, N. J. Effects of light, temperature, and rate of desiccation on translucency in wheat grain. *Austral. J. Agr. Res.* 19(3):365-372. Ref. May 1968. 23 Au783
- 80848 PICCININO, R. Law No. 580 in its positive and negative aspects. (It) *Molini Ital.* 19(2):58-59, 62-70. Feb.1968. 298.8 M73  
Regulation of grain, flour, and food pastes.
- 80849 POISSON, J., and others. The effect of gamma irradiation of wheat flour on its microflora and vitamin B<sub>1</sub> content. *Food Irradiation* 8(1/2):2-11. Ref. July/Dec.1967. 389.8 F7383  
M. Jemmali, B. Cahagnier, and J. Leclerc, joint authors.
- 80850 PRIMO, E., BARBER, S., and TORTOSA, E. Chemical composition of rice. Free fatty acids, neutral fats, and phospholipids distribution in the grain and composition of fatty acids. 5 p. Ref. Transl. 16252  
Translation from *Agroquímica y Tecnología de Alimentos* 5(4):458-466. 1965.
- 80851 PRUGAR, J. Perspectives of the consumption of grains in Czechoslovakia from the point of rational nutrition. (Cz) *Uroda* 16(3):83-84. Mar.1968. 64.8 Z12
- 80852 RABE, G. M. Cross-flow aeration systems design for drieration process. *Grain Age* 9(4):18-20. Apr.1968. 281.8 G76  
For corn.
- 80853 RANCHEV, I. Problems of grain industry in Bulgaria. (Bu) *Ikonomicheska Mis'l* 12(10):40-51. 1967. 280.8 Ik7  
French summary, p.106.
- 80854 RANDEL, H. Enzymes in malting. (Ge) *Brauwissenschaft* 21(2):41-56. Feb.1968. 390.8 B733  
English summary.
- 80855 REIMELT, D. Flour storage and flour processing. (Ge) *Brot Geback* 22(1):5-8. Jan.1968. 298.8 G33
- 80856 REIMPELL, J. Weighing and weighing equipment in mills and mixed feed plants. (Ge) *Muhle* 105(9):113-115. Feb.29,1968. 298.8 M89
- 80857 RICE MILLERS' ASSOCIATION. Rice production in the United States 1967. Washington, D. C., 1967. 4 p. 59.9 R362R
- 80858 ROBERTS, R. S. Report on mercury-tested seed wheat. Utah. State Univ. Ext. Entomol. Newslett. 23.1 p. May 20, 1966. SB933.A1U8  
To develop methods for reconditioning "pink wheat" that will remove all traces of mercury.
- 80859 ROED, O. Experiences with the storage of malting barley in storage house. (Da) *Tidsskr. Landokon.* 155(4):154-161. 1968. 11 T43
- 80860 ROONEY, L. W. Improving food quality of sorghum. *Tex. Agr. Progr.* 14(2):12-14. Spring 1968. 100 T31Te
- 80861 SAMOSFAT, L. S., and MIKHLINA, V. N. Colorimetric method of determining propanil in rice and air. (Rus) *Khim. Sel'skom Khoz.* 6(3):62-64. Mar.1968. 385 K524
- 80862 SAUER, Z., and VOBORSKY, J. Malting system with cooling checks. (Ge) *Brauwissenschaft* 21(3):85-96. Mar.1968. 390.8 B733  
English summary.
- 80863 SCHIPPERS, L. J. The Common Market in the grain sector as of July 1, 1967. (Du) *Conserva* 16(10):233-234. Apr.1968. 389.8 C7632
- 80864 SCHMAUDERER, E. Estimation of the quality of rice in large-scale cookery. (Ge) *Deut. Lebensmittel-Rundsch.* 64(4):99-104. Apr.1968. 389.8 D482  
English summary.  
Rice processes and quality.
- 80865 SCRIBAN, R. Enzymes of barley and malt. (Fr) *Ann. Nutr. Aliment.* 21(6):B281-B298. Ref. 1967. 389.8 An73  
Includes discussion.
- 80866 SEIBEL, W. Functions of the International Association for Cereal Chemistry. (Ge) *Mullerei* 21(13):191-192. Mar.30,1968. 298.8 M91
- 80867 SEIBEL, W. Results of the International Society of Cereal Chemists (ICC). (Ge) *Muhle* 105 (16):226-227. (Cont.) Apr.18,1968. 298.8 M89
- 80868 SHERLOCK, R. Memorials to a water-powered past: Staffordshire Mills. *Country Life* [London] 143(3701):301-302. Feb.8,1968. 80 C83
- 80869 SHOTWELL, O. L., and others. Factors in oats that could be mistaken for aflatoxin. *Cereal Chem.* 45(3):236-241. Ref. May 1968. 59.8 C33  
G. M. Shannon, M. L. Goulden, M. S. Milburn, and H. H. Hall, joint authors.
- 80870 SPARROW, H. B. Malting barley research in Australia. (Du) *Int. Tijdschr. Brouwerij* Mouterij 27(3):67-72. 1967, pub.1968. 390.8 R32Af
- 80871 SPILLANE, P. A. Determination of the diastase and alpha-amylase activity. (It) *Tec. Molitoria* 19(2):12-16. Jan.30,1968. 298.8 Se42  
In flour.
- 80872 STAUDT, E. The reduction of byproducts of wheat milling and their influence on the baking properties of the flour obtained. (Ge) *Muhle* 105(9):116,118. (Concl.) Ref. Feb.20,1968. 298.8 M89
- 80873 STAUDT, E. Size reduction of wheat milling byproducts and their influence on the baking properties of the obtained flour. (Ge) *Muhle* 105(6):69-71. (Cont.) Feb.8,1968. 298.8 M89
- 80874 STAUDT, E. The size reduction of wheat milling byproducts and their influence on the baking quality of the flour obtained. (Ge) *Muhle* 105 (7):82-83. (Cont.) Feb.15,1968. 298.8 M89
- 80875 STEHLIK, G. Bread preservation with the use of gamma rays. (Ge) *Atompraxis* 14(4/5):195-200. Ref. Apr./May 1968. 334.8 At73  
English summary, p.150.
- 80876 STEIN, I. Malting barley competition of South Baden for the 1967 crop. (Ge) *Brauwelt* 108 (22):386-387. Mar.15,1968. 390.8 B732
- 80877 STRECKER, O., and ALVENSLEBEN, R. VON. Regional price gradations on the E.E.C. grain market. (Ge) *Agrarwirtschaft* 17(4):91-104. Apr.1968. 281.8 Ag826  
English summary.
- 80878 STUPNIKOV, A. A., and MAMLEEV, S. R. Determination of 2,4-D in the physiologically mature grain obtained from fields treated with herbicides. (Rus) *Khim. Sel'skom Khoz.* 6(3):34-37. Ref. Mar.1968. 385 K524
- 80879 THEIMER, O. F. Behavior of stored grain in silos and containers. (Ge) *Deut. Muller-Zeitung* 66(7):145-146,148. Apr.11,1968. 298.8 Su2
- 80880 THEIMER, O. F. On the rheology of poured materials in silos and bunkers. (Ge) *Muhle* 105(8):93-94. Feb.22,1968. 298.8 M89  
Includes grain.
- 80881 THIEM, H. Brief plant protection science. (Ge) *Feldwirtschaft* 9(4):181-182. Apr.1968. 18 W763  
Grain fumigants.
- 80882 UKOLOV, V. S. Drying wheat, barley, peas and sunflowers in chamber corn dryers. (Rus) *Vestnik Sel'skokhoz. Nauk.* [Moscow] 2:103-108. Feb.1968. 20 V633  
English summary.
- 80883 USHER, D. The Thai rice trade. In *Silcock, T. H., ed. Thailand: social and economic studies in development*, p.206-230. 1967. HC497.T5S5



- 80884 VANOSS, L. Bacterial alpha-amylase. (It) Tec. Molitoria 19(2):10-12. Jan.30,1968. 298.8 Se42  
In malting.
- 80885 VAN-SON. Second five metric ton year for Thai Binh Province. Joint Publ. Res. Serv. Transl. N. Vietnam 301:15-23. Jan.23,1968. (JPRS 44,113) DS557.A7J6  
Policies for the increase of rice production. Translation from Nhan Dan, Dec.10,1967:2. Issued by CFSTI.
- 80886 VERENIGING VOOR BROUWERIJ-ONDERZOEKEN -ONDERWIJS. Report of the malting barley and hops show at Brugge, November 1967. (Fl) Int. Tijdschr. Brouwerij Mouterij 27(4):116-135. 1967/68. 390.8 R32Af
- 80887 VITALI, G. Physical methods of grain and flour analysis. (It) Tec. Molitoria 19(2):17-21. Ref. Jan.30,1968. 298.8 Se42
- 80888 VOIGT, R. L. Sorghum, food plant of the ages. Progr. Agr. Ariz. 20(2):18-19,23. Mar./Apr. 1968. 6 P9452
- 80889 WACHOWIAK, E. Functions of the Service for Quality Control in the grain processing industry. (Pol) Przegl. Zbozowo Mlynarski 12(1):14-16. Jan.1968. 298.8 P95
- 80890 WALLACE, R. J. East Down grain enterprise. Agr. Northern Ireland 42(10):316-318. Feb. 1968. 256.13 Ag82M  
Farmer-owned drying and storage syndicate.
- 80891 WEBER, K. Flour silos—mixing system—loading equipment. (Ge) Deut. Muller-Zeitung 66(7):149-150. Apr.11,1968. 298.8 Su2
- 80892 WEISS, M. New sources of protein: today and tomorrow. (Fr) Oleagineux 23(3):201-205. Ref. Mar.1968. 77.8 OL2  
English summary.  
From grain and oilseeds.
- 80893 WEISS, R. The construction of grain warehouses after the second World War. (Ge) Deut. Muller-Zeitung 66(7):152-153. Apr.11,1968. 298.8 Su2
- 80894 WILLIAMS, P. C., and HLYNKA, I. A note on the influence of high-vacuum drying on the starch of Canadian wheat flours. Cereal Chem. 45(3):280-285. May 1968. 59.8 C33
- 80895 WILTEN, W. Actual information about purchase, varietal purity and storage of malting barley. (Du) Nat. Inst. Brouwerij, Mout Bier—T.N.O. Jaarb. 32:85-94. 1968. 390.9 N21
- 80896 WILTEN, W. The barley crop in the Netherlands in 1967. (Du) Nat. Inst. Brouwerij, Mout Bier—T.N.O. Jaarb. 32:7-14. 1968. 390.9 N21  
English summary.  
Varieties used for malting.
- 80897 WILTEN, W. Malting barley in 1967 in the Netherlands. (Fl) Int. Tijdschr. Brouwerij Mouterij 37(4):117-121. 1967/68. 390.8 R32Af
- 80898 WILTEN, W. The quality of the Dutch malting barley crop, harvest 1966. (Du) Nat. Inst. Brouwerij, Mout Bier—T.N.O. Jaarb. 32:15-25. 1968. 390.9 N21
- 80899 WOLF, E. F. Experiences with the sedimentation tests on small quantities of grain. (Ge) Deut. Muller-Zeitung 66(5):102-103. Mar.7, 1968. 298.8 Su2  
Zeleny test for wheat.
- 80900 WOROCH, S. Milling projections. I. (Pol) Przegl. Zbozowo Mlynarski 12(1):11-14. 1968. Jan.1968. 298.8 P95  
French summary.
- 80901 WOROCH, S. The planning of mills. II. (Pol) Przegl. Zbozowo Mlynarski 12(2):44-47. Feb. 1968. 298.8 P95  
French summary.  
Equipment.
- 80902 YASUNAGA, T., BUSHUK, W., and IRVINE, G. N. Effect of papain on amylograph viscosity of flour. Cereal Chem. 45(3):260-268. Ref. May 1968. 59.8 C33
- 80903 ZIEGLER, E. The education of milling technicians in Switzerland. II. (Ge) Muller 21(7):96. Feb.17,1968. 298.8 M91
- 80904 ZIEGLER, E. The education of milling technologists in Switzerland. (Ge) Deut. Muller-Zeitung 66(3):66-67. Feb.8,1968. 298.8 Su2
- 80905 ZIEGLER, E. The education of milling technologists in Switzerland. (Ge) Muhle 105(4):42-44. Jan.25,1968. 298.8 M89
- 80906 ZWEERDE, H. VAN DER. Root and stubble residues of grains. (Du) Landbouwkundig Tijdschr. 80(1):34-36. Jan.1968. 105.2 Or3  
Method of estimating dry organic matter left on the ground.
- 80907 ZWINGELBERG, H. Wheat milling in a combined 25-t mill. (Ge) Muhle 105(13):183-185. Mar.28,1968. 298.8 M89

## HONEY AND BEESWAX

- 80908 BERTHOLD, R., and BENTON, A. W. The potential of honey sales. Amer. Bee J. 108(6):236. June 1968. 424.8 Am3
- 80909 KOOVER, C. J. Fast flowing filter funnel. Gleanings Bee Cult. 96(5):265-268. May 1968. 424.8 G47
- 80910 ROFF, C., and RHODES, J. Colour grade of some Queensland honeys. Queensland Agr. J. 94(3):137-139. Mar.1968. 23 Q33
- 80911 SCHMIDT, A. Honey marketing. (Da) Tidsskr. Biavl 102(2):27-28. Feb.20,1968. 424.8 T43
- 80912 SIDDIQUI, I. R., and FURGALA, B. Centose; a branched trisaccharide containing  $\alpha$ -D-(1 $\rightarrow$ 2) and  $\alpha$ -D-(1 $\rightarrow$ 4) glycosidic linkages. Carbohydr. Res. 6(2):250-252. Ref. Feb.1968. 385 C172  
In honey.
- 80913 VAS'KOVSKAYA, L. F., and KLISENKO, M. A. Determination of Tediion residues in honey by chromatography. (Rus) Khim. Sel'skom Khoz. 6(4):45-46. Apr.1968. 385 K524

## LIVESTOCK AND LIVESTOCK PRODUCTS

- 80914 ANDERSSON, S. Swedish pork production with Sweden inside or outside EEC. (Sw) Svinsskottel 58(4):123-124,127-128,131-132. 1968. 46.9 Sv2
- 80915 BARBASHIN, M. Shortcomings in meat and dairy industry noted. U. S. Joint Publ. Res. Serv. Transl. USSR Consum. Goods Dom. Trade 354:17-23. May 17,1968. (JPRS 45,420) 173 J663Tro  
Translation from Ekonomicheskaya Gazeta 14:11-12. Apr.1968.  
Issued by CFSTI.
- 80916 BERTUCCI, D. Sheep raising in the Emilia region. (It) Reggio Emilia. Cam. Com. Indus. Agr. Rass. Econ. 22(6):18-25. Jan.1968. 287 R26
- 80917 BIRULYA, YE. C. Measures for further development of production and technical base of meat and milk industry. U. S. Joint Publ. Res. Serv. Transl. USSR Consum. Goods Dom. Trade 215:24-27. Dec.11,1967. (JPRS 43,653) 173 J663Tro  
Translation from Kholodil'naya Tekhnika 9:1-3. 1967.  
Issued by CFSTI.
- 80918 BOLDYREV, P. An increase of production capacities of the meat industry in the USSR. (Rus) Myasnaya Indus. SSSR. 11:1-4. Nov. 1967. 50.8 M58
- 80919 BOTTUM, J. C. The grain-livestock economy. Iowa. State Univ. Sci. Technol. Cent. Agr. Econ. Develop. CAED Rep. 31:67-74. 1968. 281.9 I693  
Includes the supply-demand problem and policy.
- 80920 CARPENTER, A. Vertical integration and the livestock industry. Tex. Livestock J. 27(4):6, 15. Apr.15,1968. 49 T29
- 80921 DINESKU, S. Development of livestock husbandry in Romania and cooperation with the Soviet Union. (Rus) Zhivotnovodstvo 11:85-89. Nov.1967. 49 Z6

- 80922 EDYGENOV, K. Meat industry in the Kazakhstan. (Rus) *Myasnaya Indus. SSSR*. 4:7-8. Apr. 1968. 50.8 M58
- 80923 FLEISCHWIRTSCHAFTLICHE VORTRAGSTAGUNG, KULMBACH, 1967. [Summaries of papers of the Meat Industry Conference] by F. Burghardt. (Ge) *Alimenta* 7(2):31-38. Mar./Apr.1968. TP368.A4
- 80924 FREYBE, C. Americanization of our livestock and meat industry? (Ge) *Neue Fleischer Zeitung* 30:1-2. Mar.9,1968. 286.85 N39
- 80925 GOODWIN, J. W. Hay and pasture situation and beef production trends. Iowa. State Univ. Sci. Technol. Cent. Agr. Econ. Develop. CAED Rep. 31:43-65, map. 1968. 281.9 I93
- 80926 GRINZATO, F. Organization of livestock producers and problems of finding methods of production and marketing of the finished product. (It) *Agr. Venezia* 22(3):186-194. Mar. 1968. 16 Ag826  
Includes discussion.
- 80927 INTERNATIONALER KONGRESS DER FLEISCHFORSCHUNGSINSTITUTE, 13, Rotterdam, 1967. [Abstracts of papers]. (Concl.) (Ge) *Fleischwirtschaft* 48(3):324-327. Mar. 1968. 280.38 F62
- 80928 JURI, R. Orientation of agricultural production in relation to the livestock industry. (Ge) *Schweiz. Landwirt. Monatsh.* 46(2):49-61. Feb. 1968. 17Sch93
- 80929 KABZHANOV, V. Measures to strengthen the raw material resources for the meat industry of Kazakhstan. (Rus) *Myasnaya Indus. SSSR*. 4:36-38. Apr.1968. 50.8 M58
- 80930 LECKIE, H. K. Meat industry; year is off to promising start. *Can. Food Indus.* 39(5):25-26, 29. May 1968. 286.83 C166
- 80931 MACK, M. On the golden calf. (Ge) *Mitt. Deut. Landwirt.-Ges.* 83(22):854,856-857. May 30,1968. 18 N39  
Cattle production policy.
- 80932 MALKOWSKI, J. Current problems in the development of livestock production. (Pol) *Wies Wspolczesna, Pismo Ruchu Ludowego* 13(1):40-50. Jan.1968. HN536.W5  
English summary, p.12-13 of supplement.
- 80933 MINNEMAN, P. G. German progress in swine is notable. *Feed Bag* 44(3):30-31. Mar.1968. 389.78 F32
- 80934 MORGAN, E. W. Meat and Allied Trades' Federation of Australia (Tasmanian Division); annual report; general meeting—Launceston. *Meat Trades J. Australia* 30(12):38-40. Dec. 1967. 50.8 M465
- 80935 NGUYEN CHUON. Development of livestock raising in balance with crops. *Joint Publ. Res. Serv. Transl. N. Vietnam* 314:137-142. Feb.26,1968. (JPRS 44,491) DS557.A7J6  
Translation from *Thoi Su Pho Thong* 21:6-11. Nov.1967.  
Issued by CFSTI.
- 80936 PERTSOVSKAYA, K. Some problems of meat industry in the USA. (Rus) *Myasnaya Indus. SSSR*. 2:45-46. Feb.1968. 50.8 M58
- 80937 REID, G. K. R. Economic aspects of the sheep industry in the pastoral zone. *Australia. Bur. Agr. Econ. Quart. Rev. Agr. Econ.* 21(1):36-49. Jan.1968. 281.9 Au73  
Includes costs and returns.
- 80938 RINDERLE, L. Livestock breeding and raising in Bavaria. (Ge) *Mitt. Deut. Landwirt.-Ges.* 83(19):665-666,668. May 9,1968. 18 N39
- 80939 RODDY, W. T. The case for leather Vs man-made materials. *Leather Shoes* 155(16):16-17. Apr.20,1968. 303.8 H53
- 80940 RUNCIE, K. V., and WATT, J. A. Trends in beef production. *Roy. Highland Agr. Soc. Scot. Trans.* 9:32-59. Ref. 1968. 10 H536  
Includes breeding and management aspects.
- 80941 SEMINAR ON THE SHORT-RUN PROSPECTS AND POLICY NEEDS FOR GRAIN AND LIVESTOCK PRODUCERS, WASHINGTON, D.C., 1967. Abundance and uncertainty--farm policy problems; proceedings. Iowa. State Univ. Sci. Technol. Cent. Agr. Econ. Develop. CAED Rep. 31,211 p. 1968. 281.9 I93  
Sponsored by the Center for Agricultural and Economic Development, Iowa State University of Science and Technology.
- 80942 UDALYKH, N. Meat industry in the Sverdlovsk Region, for 50 years. (Rus) *Myasnaya Indus. SSSR*. 12:4. Dec.1967. 50.8 M58
- 80943 VENINO, C. The beef production situation in Italy with reference to consumer requirements. (It) *Agr. Venezia* 22(3):168-175. Mar.1968. 16 Ag826
- 80944 WADDLE, F. L. Philippine livestock industry outlook good. *Foreign Agr.* 6(19):6-8. May 6, 1968. A281.9 F76Fo
- 80945 WEBER, M. Problems of the livestock finishing economy of the EEC in the present and future. (Ge) *Kraftfutter* 51(1):6,8,10. Jan.1968. 389.78 K85
- 80946 WESTERN MEAT INDUSTRY. Eighth annual Western where-to-buy-it guide. *Western Meat Indus.* 13(11),39 p. Nov.1967. 50.8 W52
- 80947 WILLIAMS, A. A. Meat and Allied Trades' Federation of Australia (Victorian Division); annual report. *Meat Trades J. Australia* 30(12):31-35,37. Dec.1967. 50.8 M465

#### Analysis and Composition

- 80948 AMBANELLI, G., and others. The ratio of phosphorus to proteins in ham. (It) *Indus. Conserve* 43(1):4-8. Ref. Jan./Mar.1968. 389.8 In23  
C. Molinari, U. Trasatti, and G. Pezzani, joint authors.  
English summary, *Summaries*, p.3.
- 80949 BENTLER, W. The composition, examination and judging of pates. (Ge) *Fleischwirtschaft* 48(3):269-272. Mar.1968. 280.38 F62  
English summary.
- 80950 CANTONI, C., MOLNAR, M. R., and GERVASINI, C. Bacterial analysis of the Italian sausages. (It) *Arch. Vet. Ital.* 18(6):429-435. Ref. Dec.1967. 41.8 Ar25  
English summary.
- 80951 CANTONI, C., BIANCHI, M. A., and RENON, P. Research on the hydrolysis of glucose, lactose, and ribose by Micrococcaceae. (It) *Arch. Vet. Ital.* 19(1):23-40. Ref. Feb.1968. 41.8 Ar25  
English summary.  
*Staphylococcus aureus* and *Sarcina lutea* isolated from ham.
- 80952 CHIESA, F., and others. About a biologic method for distinguishing fresh refrigerated meat from frozen meat. (It) *Arch. Vet. Ital.* 19(1):11-15. Feb.1968. 41.8 Ar25  
R. Oberosler, C. Secchi, G. Maffeo, and E. Seren, joint authors.  
English summary.
- 80953 DAHL, O. Analysis of the protein quality of meat products. (Ge) *Fleischwirtschaft* 48(4):444-449. Ref. Apr.1968. 280.38 F62  
English summary.
- 80954 GORBATOV, A., and others. A study on meat mechanical characteristics by tensiometry. (Rus) *Myasnaya Indus. SSSR*. 3:28-30. 1968. 50.8 M58  
G. Limonov, E. Spirin, and V. Neburchilov, joint authors.
- 80955 GOTZE, U. Investigations into the determination of the degree of bleeding out in the flesh of meat animals. (Ge) *Fleischwirtschaft* 48(3):294-298. Mar.1968. 280.38 F62  
English summary.
- 80956 HEDRICK, H. B., and others. Comparison of factors affecting Warner-Bratzler shear values of beef steaks. *J. Anim. Sci.* 27(3):628-631. May 1968. 49 J82  
W. C. Stringer, R. J. Epley, M. A. Alexander, and G. F. Krause, joint authors.



- 80957 HESS, E. Determination of degree of bleeding out. (Ge) Fleischwirtschaft 48(3):292-293. Mar.1968. 280.38 F62  
English summary.
- 80958 HOFMANN, K. Investigations into the reliability of pH-value measurement in meat using a glass electrode. (Ge) Fleischwirtschaft 48(3):317-323. Mar.1968. 280.38 F62  
English summary.
- 80959 KOTTER, L., and TERPLAN, G. Testing the juice-holding capacity of meat during heating. (Ge) Fleischwirtschaft 48(4):439-442. Ref. Apr.1968. 280.38 F62  
English summary.
- 80960 LEIGHTY, J. Quality control should be the packer's job. Nat. Provisioner 158(23):45-49. June 1968. 286.85 N21
- 80961 LIENHOP, E. Evaluation of dry sausage. (Ge) Fleischwirtschaft 48(3):273-276. Mar.1968. 280.38 F62  
English summary.
- 80962 MITTON, R. G., and DUCKWORTH, R. The influence of location in the side on some physical properties of full chrome upper leather. Soc. Leather Trades' Chem. J. 52(4):153-166. Apr. 1968. 303.9 So12
- 80963 MOHLER, K. Color measurement of meat and meat products. (Ge) Fleischwirtschaft 48(4):449-453. Apr.1968. 280.38 F62  
English summary.
- 80964 PITRE, J. Bacteriological examination of fresh meats. A critical study of the official French methods. (Fr) Rec. Med. Vet. 144(3):229-253. Ref. Mar.1968. 41.8 R24  
English summary.
- 80965 POROZOV, V. Metal detectors in manufacturing of sausages. (Rus) Myasnaya Indus. SSSR. 3:26-27. 1968. 50.8 M58  
X-rays.
- 80966 PUSCHNER, J. Some technical innovations of interest on the field of bacteria diagnosis. (Ge) Tierarztl. Umsch. 23(5):218,221-222. May 1, 1968. 41.8 T445  
In meat.
- 80967 REUTER, G. Experiences with culture media for selective microbiological analysis of meat products. (Ge) Arch. Lebensmittelhyg. 19(4):73-78. Ref. Apr.1968. 41.8 L49  
Bacteria.
- 80968 ROBERTS, T. A., and HOBBS, G. Low temperature growth characteristics of Clostridia. J. Appl. Bacteriol. 31(1):75-88. Ref. Mar. 1968. 448.39 So12  
Clostridium botulinum in meat.
- 80969 SIMONSEN, B. Aerobic spore-forming bacteria that "blow" canned meats. Nord. Veterinærmed. 20(3):121-127. Mar.1968. 41.8 N813
- 80970 SOLMS, J. Flavour substances and aroma substances in meat. (Ge) Fleischwirtschaft 48(3):287-291. Ref. Mar.1968. 280.38 F62  
English summary.
- 80971 STREICHAN, D. Behavior of some human pathogenic bacteria and bacteriotoxins in food and their killing with heat treatment of the food. I. Salmonellae. (Ge) Arch. Lebensmittelhyg. 19(4):89-93. (Concl.) Apr.1968. 41.8 L49  
Review of literature.  
Meat products.
- 80972 TANCOUS, J. J., and ZAKRISKI, S. A study of the deleterious effect of natural fat on shearing leather strength. Amer. Leather Chem. Ass. J. 63(5):322-332. Ref. May 1968. 303.9 Am32  
Possible cause of leather deterioration.  
Includes discussion.
- 80973 THALACKER, R., and KROSS, W. Investigation on bratwurst batches. (Ge) Deut. Lebensm.-Rundsch. 64(3):68-71. Mar.1968. 389.8 D482
- 80974 VOIGT, P. R. Total bacterial count on the heart! (Da) Danske Dyrægefor. Medlemsbl. 51(7):264-267. Ref. Apr.1,1968. 41.9 D23  
Chiefly comments on article on meat products by P. Madelung.
- 80975 WITNAUER, L. P., and PALM, W. E. Influence of cyclic conditioning on the hydrothermal stability of leather. Amer. Leather Chem. Ass. J. 63(5):333-345. May 1968. 303.9 Am32  
Includes discussion.
- 80976 WYLEK, O. Six years of basic research in Switzerland into the chemical control of meat and meat products. (Ge) Fleischwirtschaft 48(3):281-284. Ref. Mar.1968. 280.38 F62  
English summary.

#### Consumption and Utilization

- 80977 SCHMITTEN, F. Possibilities of breeding and care for fulfilling consumer demands concerning the quality of animal products. II. (Ge) Tierzuechter 20(5):208-210. Apr.1968. 49 T445  
Germany; pork, milk, and egg quality.
- 80978 SPERANSKII, N., and KHARTCHENKO, G. The proper utilization of fatty pork. (Rus) Myasnaya Indus. SSSR. 2:31-32. Feb.1968. 50.8 M58  
As stuffing material for sausages.
- 80979 URBAN, R. Meat consumption in the light of prognosis and long time schemes. (Pol) Gosp. Miesna 20(4):12-15. Apr.1968. 50.8 G69
- 80980 WEIDENHAMER, M., KNOTT, E. M., and SHERMAN, L. R. What the consumer thinks about meat. I. Meat 34(6):26. (Cont.) June 1968. 286.85 M464

#### Distribution, Marketing, and Transportation

- 80981 BIEGERT, H. Marketing problems of German Spotted cattle. (Ge) Tierzuechter 20(5):150-152. Mar.5,1968. 49 T445
- 80982 BOCKENHOFF, E. Forecasting the swine market; evaluation of the swine census of September 4, 1967. (Ge) Agrarwirtschaft 16(10):335-340. Oct.1967. 281.8 Ag826  
English summary.
- 80983 BUILDING more marketing muscle. Nat. Wool Grower 58(6):10-16. June 1968. 45.8 N21N  
Panel discussion; Moderator: J. Baukus; members: W. E. Overton, R. Culp, C. F. Jones, L. V. Wood, and B. E. Taylor.  
For lamb meat.
- 80984 CAMPBELL, D. A. Status of pending P&S legislation and cases. Nat. Provisioner 158(23):73,103-104. June 1968. 286.85 N21
- 80985 CARPENTER, G. A. Some thoughts on cooperative marketing of livestock. Calif. Cattleman 51(5):9,50,53. May 1968. 43.8 C12
- 80986 ELIZAROVA, N., and NEMCHINOV, V. A new instruction on the receiving of slaughter animals. (Rus) Myasnaya Indus. SSSR. 11:42-44. Nov.1967. 50.8 M58  
New instructions concerning purchasing of livestock for slaughtering.
- 80987 HORWOOD, F. J. Meat marketing problems. Farmer's Sci. Joint Conf. [Proc.], 7th Conf.: 81-84. 1967. 27 F22  
Includes discussion.
- 80988 JONES, A. L. Handle prime lambs with care. Tasmania J. Agr. 39(1):55. Feb.1968. 23 T182T  
Transportation.
- 80989 KRAUSE, S. F. FCS division aim—improve animal products marketing. News Farmer Coop. 35(3):4,22-23. June 1968. 166.2 N47
- 80990 KULAKOFISKY, A. The future of quality beef in the market. Tex. Livestock J. 27(4):7,12-13. Apr.15,1968. 49 T29
- 80991 MARDAL, K. Transportation of live mink by air. (No) Norsk Pelsdyrb. 42(5):212-214. Mar.5,1968. 412.628 N812
- 80992 MAREK, P. Evaluation of the meat supply in a developing country. (Ge) Fleischwirtschaft 48(4):417-421. Apr.1968. 280.38 F62  
English summary.  
Tanzania.

- 80993 MARTON, L. New phenomena in the cattle market. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 650:1-3. May 22, 1968. (JPRS 45,449) 173 J663Ste In Hungary.  
Translation from Figyelo, Apr.12,1968:8.  
Issued by CFSTI.
- 80994 MESSER GRIESHEIM G.m.b.H. Liquid refrigeration for meat transportation. (Ge) Schlacht- Viehhof-Zeitung 68(4):145-149. Apr.27/May 5,1968. 286.85 D48  
French summary.
- 80995 POGORELOV, Z. G. Transportation of milk on diesel automobiles. (Rus) Moloch. Prom. 12: 33. Dec.1967. 44.8 M734
- 80996 SCHROEDER, N. Common market for beef. (Ge) Allg. Fleischer Zeitung 35:1-2. Mar.20, 1968. 286.85 AL5
- 80997 TUMA, H. J., and MELTON, C. C. New look at lamb marketing. Kans. Stockman 53(6):51-52. Apr.1968. 49 K134
- 80998 ZORC, A. Marketing of livestock products. (Se) Poljoprivredni Pregl. 16(1/2):83-87. Jan./Feb.1968. 21.5 P753
- Grading, Inspection, Standardization, and Quality**
- 80999 BATTELLI, C., and others. Identification of hog cholera virus in frozen pork imported from China. Vet. Ital. 18(11/12):658-668. Nov./Dec.1968. 41.8 C87  
G. Caporale, F. Gramenzi, and E. Nardi, joint authors.  
Italian text, p.647-657.
- 81000 BEGANOVIC, A. H. The importance of bacteriological norms in the manufacture and supervision of food of animal origin. (Ge) Fleischwirtschaft 48(3):313-316. Ref. Mar.1968. 280.38 F62  
English summary.
- 81001 CHARLES, D. D. The role of the veterinarian in the meat industry. Australian Vet. J. 44(5): 223-226. May 1968. 41.8 Au72
- 81002 CHERNOBROVENKO, N., ANITSKII, A., and ZAV'YALOV, E. Labeling of carcasses and the losses of meat. (Rus) Myasnaya Indus. SSSR. 4:10-12. Apr.1968. 50.8 M58
- 81003 DAVIS, B. Packers desiring immediate Federal approval should avoid hasty action. Nat. Provisioner 158(23):52-54,56. June 1968. 286.85 N21  
On the Wholesale Meat Act of 1967.
- 81004 HESS, E. Prevention of meat deterioration and meat poisoning. (Ge) Wien. Tierarztl. Monatsschr. 54(12):802-811. Ref. 1967. 41.8 T345  
English summary.
- 81005 HOYBRATEN, P. Official inspection measures in the meat sector. (No) Norsk Landbruk 9: 16-17,29. Mar.3,1968. 11 N8122
- 81006 JOHNSON, J. B. 4-H beef carcass judging guide. Wash. State Univ. Ext. E. M. 2628,rev., 12 p. Jan.1968. 275.29 W27Mi
- 81007 KUZNIAR, J. The current state of hygiene and sanitation in meat industry. (Cz) Veterinarstvi 18(5):195-196. 1968. 41.8 V6439
- 81008 LAPSHEV, YU. A criterion for the evaluation of fat oxidation process. (Rus) Myasnaya Indus. SSSR. 4:29-30. Apr.1968. 50.8 M58
- 81009 LEONARD, R. Time to explore new Federal-State relations. Nat. Provisioner 158(23):58,60, 62,64,68-73. June 1968. 286.85 N21  
Meat inspection and standardization.
- 81010 MARRIOTT, N. G., and others. Color stability of prepackaged fresh beef as influenced by pre-display environments. Food Technol. 21(11): 104-106. Ref. Nov.1967. 389.8 F7398  
H. D. Naumann, W. C. Stringer, and H. B. Hedrick, joint authors.
- 81011 MASHKOV, A., and ROKHVARGER, O. The problem of quality and preservation of the sheep hides. (Rus) Myasnaya Indus. SSSR. 12: 7-9. Dec.1967. 50.8 M58
- 81012 PAYNE, J. K. States act to assure wholesome meat. Agr. Marketing [Washington] 13(6):9. June 1968. A280.38 Ag8  
Inspection.
- 81013 PIERCE, J. Livestock Division does more than grade meat. Nat. Provisioner 158(23):104-114,117. June 1968. 286.85 N21  
Consumer and Marketing Service of the U. S. Department of Agriculture.
- 81014 PLONKA, S., WOZNY, M., and DZIADEK, K. The estimation of meat contents in the pork carcass by means of photographic gauges. (Pol) Gosp. Miesna 20(4):19-20. Apr.1968. 50.8 G69
- 81015 POPOVA, O. Methods of improving quality of the hide raw materials. (Rus) Myasnaya Indus. SSSR. 12:5-7. Dec.1967. 50.8 M58
- 81016 RODDY, W. T. Better quality and more uniform leathers. Leather Shoes 155(16):18-19, 22-23. Apr.20,1968. 303.8 H53
- 81017 SENTHILLE, F. Towards the unification of sanitary regulations in the European Common Market. (Fr) Tech. Lait. 585:29. Mar.2,1968. 44.8 Of2  
Chiefly for the exchange of livestock products.
- 81018 STILES, G. C. State shares USDA report on shortcomings in plants. Nat. Provisioner 158 (24):24-26. June 15,1968. 286.85 N21  
Meat inspection and sanitation in Missouri.
- 81019 SVOBODA, J., and MINKS, J. The inspection of meat of slaughtered livestock infected with brucellosis from the viewpoint of resistance of Brucellae under conditions of meat processing technology. (Cz) Veterinarstvi 18(2):75-77. 1968. 41.8 V6439
- 81020 SVOBODA, J., and KUBAT, J. The problem of residues of DDT and its derivatives in fats of fattened livestock. (Cz) Veterinarstvi 18(4): 151-153. 1968. 41.8 V6439
- 81021 TANCOUS, J. A report on recently studied defects of hide, skin and leather. Leather Shoes 155(14):18. (Concl.) Apr.6,1968. 303.8 H53
- 81022 TANCOUS, J. J. A report on recently studied defects of hide, skin and leather. I. Leather Shoes 155(11):18-21. Mar.16,1968. 303.8 H53
- 81023 TYLER, W. E. Yield grading today. Agr. Marketing [Washington] 13(6):4-5. June 1968. A280.38 Ag8  
Beef.
- 81024 U. S. CONSUMER AND MARKETING SERV. Inspection for your protection. U. S. D. A. PA-877,2 p. May 1968. 1 Ag84Pro  
Meat.
- 81025 USBORNE, W. R., KEMP, J. D., and MOODY, W. G. Relation of protein components and free amino acids to pork quality. J. Anim. Sci. 27 (3):590-595. Ref. May 1968. 49 J82
- 81026 VASIN, A., and GORBUNOV, V. The automation of weighing portioned meats. (Rus) Myasnaya Indus. SSSR. 11:17-21. Nov.1967. 50.8 M58
- 81027 THE WHOLESOME Meat Act of 1967—its significance to the veterinary profession. Amer. Vet. Med. Ass. J. 152(10):1536-1544. May 15, 1968. 41.8 Am3  
Comments by A. R. Miller, H. G. Wixom, P. B. Doby, and R. K. Somers.
- Packing and Packaging**
- 81028 ELISEEVA, M., and TROFIMOVA, T. Vacuum packing of sausage products. (Rus) Myasnaya Indus. SSSR. 11:29-30. Nov.1967. 50.8 M58  
Cryovac.
- 81029 PEZACKI, W. The corrosion of the internal surface of a tin. (Pol) Gosp. Miesna 20(4):6-8. Apr.1968. 50.8 G69  
Meat containers.
- Prices, Price Control, and Rationing**
- 81030 JOHANNLUKENS, E. A look at the sheep market: "One must have lambs." (Ge) Ubersicht 19(5):353-356. May 11,1968. 18 Ub3  
Prices and trade.



- 81031 REEDY, J. How not to sell meat. Beef Sheep Farming 5(5):9,11. May 1968. 43.8 B392  
Beef prices in Great Britain.
- 81032 RICHARDS, J. A. Market prices and quality beef. Kans. Stockman 53(8):28-29. June 1968. 49 K134
- 81033 STONE, R. Meat management's stake in standard costs. Nat. Provisioner 158(24):22-23. June 15, 1968. 286.85 N21
- Processing and Storage
- 81034 BABLOYAN, O. The efficient method for gelatin production. (Rus) Myasnaya Indus. SSSR. 2:38-39. Feb. 1968. 50.8 M58
- 81035 BASHILOV, Y. Larðtutting equipment. (Rus) Myasnaya Indus. SSSR. 3:25-26. 1968. 50.8 M58
- 81036 BRISSEY, G. E., and GOESER, P. A. Aging, curing and smoking of meats. In Heid, J. L., and Joslyn, M. A. Fundamentals of food processing operations, p.566-600. Ref. 1967. TP370.H4
- 81037 DARDIK, V. Important requirements for the development of QF ready-to-eat meat dish production. (Rus) Myasnaya Indus. SSSR. 11:16-17. Nov. 1967. 50.8 M58
- 81038 FEDOROV, N. Cooling meat in metallic cylinder. (Rus) Myasnaya Indus. SSSR. 11:36-37. Nov. 1967. 50.8 M58
- 81039 FOMIN, YU. Irradiation of meat products in foreign countries. (Rus) Myasnaya Indus. SSSR. 4:41-42. Apr. 1968. 50.8 M58
- 81040 GALLOWAY, D. E., and GOLL, D. E. Effect of temperature on molecular properties of post-mortem porcine muscle. J. Anim. Sci. 26(6): 1302-1308. Nov. 1967. 49 J82  
Storage temperature.
- 81041 GERHARDT, Cybertetic aspects of meat product manufacture. (Ge) Fleischwirtschaft 48(3): 264-266. Mar. 1968. 280.38 F62
- 81042 GORODETSKAYA, R., MIKAEĽYAN, I., and GOL'DMAN, E. Dehydration of brined raw material for production of leather by pressing. (Rus) Myasnaya Indus. SSSR. 4:12-14. Apr. 1968. 50.8 M58
- 81043 GURVITS, V., KAUKHCHESVILI, E., and PRISHED'KO, N. Meat grinding at low temperatures. (Rus) Myasnaya Indus. SSSR. 3:9-12. 1968. 50.8 M58
- 81044 HAFERT, K. Recent changes in the location factors of South Africa's developing meat processing industry. II. Agrekon 7(1):16-18. Jan. 1968. 281.8 Ag835
- 81045 HEIDEMANN, E. On the expansion of leather. 3. The influence of minerals and re-tanning on expansion. (Ge) Leder 19(4):73-77. Apr. 1968. 303 L492  
English summary.
- 81046 JUHL, M., and BORCHERT, L. L. Danes advance technology. Food Eng. 40(4):100-102. Apr. 1968. 389.8 F737  
Meat processing.
- 81047 KANAMORI, M., and others. Studies on freeze-dried foods. 3. Changes in the lipids of freeze-dried pork during storage. (Ja) Jap. Soc. Food Nutr. J. 20(1):1-8. 1967. 389.9 J27  
M. Takahashi, M. Miyoshi, T. Ueda, and H. Goto, joint authors.  
English summary.
- 81048 KUPIRIANOFF, J. Refrigeration of meat and poultry. Australian Refrig. Air Cond. Heating 22(3):20-22. (Cont.) Ref. Mar. 1968. 295.8 R255
- 81049 LANG, O. Cooling of meat by the quick cooling process. (Ge) Schlacht- Viehhof-Zeitung 68(4):141-145. Apr. 27/May 5, 1968. 286.85 D48  
French summary.
- 81050 LIBERMAN, S., and SHEVKUNOV, K. The quality and stability of pork lard produced by the hydrolysis method. (Rus) Myasnaya Indus. SSSR. 2:11-14. Feb. 1968. 50.8 M58
- 81051 LINKE, H., and WOLTERS DORF, W. Study and evaluation of German corned beef. (Ge) Arch. Lebensmittelhyg. 19(5):102-108. Ref. May 1968. 41.8 L49  
Effect of processing method on quality.
- 81052 MAURANGES, P. Hygiene of canned foods of meat origin. (Fr) Econ. Med. Anim. 9(2):92-105. Mar./Apr. 1968. 41.8 Ec7
- 81053 MORGAN, G. B. Refrigeration in the meat industry. Australian Refrig. Air Cond. Heating 22(3):23-26. (Cont.) Mar. 1968. 295.8 R255
- 81054 MORRIS, W. Liming. Leather Shoes 155(10): 32-35. Mar. 9, 1968. 303.8 H53
- 81055 NEBURTCHILOVA, N. The development of the meat canning industry. (Rus) Myasnaya Indus. SSSR. 2:23-25. Feb. 1968. 50.8 M58
- 81056 NIEDEREHE, H. Liquid nitrogen refrigeration. (Ge) Fleischwirtschaft 48(3):278-280. Ref. Mar. 1968. 280.38 F62  
English summary.  
For meat.
- 81057 NITSCH, G. The meat technician—a new occupation? (Ge) Neue Fleischer Zeitung 6:9-10. Jan. 13, 1968. 286.85 N39
- 81058 NOWAK, R. Proper preparation of furs. (Ge) Leder 19(5):115-119. May 1968. 303.8 L492  
English summary.
- 81059 PARKER, P. L. How to sanitize meat plant and equipment. Nat. Provisioner 158(23):40-43. June 1968. 286.28 N21
- 81060 PAUCKNER, W., and HERFELD, H. The influence of different lubrication in vacuum drying on drying length, fat distribution, outer structure, and physical properties of leather. (Ge) Leder 19(5):101-107. May 1968. 303.8 L492  
English summary.
- 81061 PELEEY, A., and BRAZHNIKOV, A. A thermophysical substantiation of the parameters and the automation of sausage thermal treatment. (Rus) Myasnaya Indus. SSSR. 11:21-22. Nov. 1967. 50.8 M58
- 81062 POROZOV, V. Automatic control in drying tankage. (Rus) Myasnaya Indus. SSSR. 11:31-32. Nov. 1967. 50.8 M58  
Fat processing equipment.
- 81063 RANDS, M. B. Water removal from washed sheepskins using a continuous centrifuge. Amer. Leather Chem. Ass. J. 63(4):282-295. Apr. 1968. 303.9 Am32
- 81064 REABY, B. E. Fresh meat in the supermarket. Australian Refrig. Air Cond. Heating 22(3):42-44. Mar. 1968. 295.8 R255  
Storage temperature.
- 81065 REIHSMANN, R. M., and RODDY, W. T. Evaluation of 29 resin filling systems using the average side concept. I. Amer. Leather Chem. Ass. J. 63(3):210-227. Mar. 1968. 303.9 Am32
- 81066 RUDOVA, L. Brining hides according to Losev method. (Rus) Myasnaya Indus. SSSR. 12:23-24. Dec. 1967. 50.8 M58
- 81067 SAINCLIVIER, M., and KERHERVE, C. Investigations on the effectiveness of amphoteric disinfectants. (Ge) Schlacht- Viehhof-Zeitung 68(4):152-154, 156. Apr. 27/May 5, 1968. 286.85 D48  
French summary.
- 81068 SANDLER, A. "Khashi" (a national dish). (Rus) Myasnaya Indus. SSSR. 11:34-35. Nov. 1967. 50.8 M58  
Prepared from livestock intestines.
- 81069 SEVERIN, R. A. A new system for the continuous production of meat extract. Food Indus. S. Afr. 20(8):27-29. Dec. 1967. 389.8 F7372
- 81070 SHEFFER, A., and SAATCHAN, A. Intensified cooling reduces the meat losses. (Rus) Myasnaya Indus. SSSR. 12:9-13. Dec. 1967. 50.8 M58
- 81071 SKRZYNSKI, T. Experimental comparison of meat cooling systems. (Pol) Gosp. Miesna 20(4):8-11. Apr. 1968. 50.8 G69

- 81072 SOLOV'EV, V., and KARPOVA, L. Changes of the elastin of the intramuscular connective tissue during meat ageing. (Rus) Myasnaya Indus. SSSR. 11:37-38. Nov.1967. 50.8 M58 Beef.
- 81073 SOWA, T. An investigation of the decomposition of thiol groups in meat during thermal processing at 90°-150°. (Pol) Przemysł Spożywczy 22(1):27-30. 1968. 389.8 P95
- 81074 TUCK, D. M. New developments in the fat liquoring of leather. Leather 168(4283):140-141. May 10,1968. 303.8 L48
- 81075 URBANIAK, R. One-degree cooling of meat and the natural losses. (Pol) Gosp. Miesna 20(4):15-17. Apr.1968. 50.8 G69
- 81076 VARNEY, W. Y. Curing and aging country-style hams under controlled conditions. Ky. Univ. Ext. Circ. 617,8 p. Jan.1967. 275.29 K415
- 81077 VLIMMEREN, P. J. VAN. The manufacture of soft side leather. Leather Manufacturer 85(4): 59-66. (Cont.) Apr.1968. 303.8 L484
- 81078 VLIMMEREN, P. J. VAN. The manufacture of soft side leather. Leather Shoes 155(10):20-21, 46. Ref. Mar.9,1968. 303.8 H53  
Comparison of American and European methods.
- 81079 VODRA, V. H. Sanitation—1968 style. Meat 34(6):34-38. June 1968. 286.85 M464
- 81080 VOZHNIK, L., and ULITSKII, Z. The universal continuous mechanized line for cooked and semi-smoked sausages. (Rus) Myasnaya Indus. SSSR. 2:29-31. Feb.1968. 50.8 M58
- 81081 WEBER, H. On a Czechoslovak technique of solvent tanning. (Ge) Leder 19(1):8-11. Jan. 1968. 303.8 L492
- 81082 WESOLOWSKI, E. Perspective directions of the technological and technical progress in the meat industry. (Pol) Gosp. Miesna 20(4):1-5. Apr.1968. 50.8 G69
- 81083 WINDUS, W., and SHOWELL, J. S. An interpretation of the mechanism of unhairing as a nucleophilic displacement. Amer. Leather Chem. Ass. J. 63(4):258-274. Ref. Apr.1968. 303.9 Am32  
Includes discussion.
- 81084 WINTER, F. Differences in cold and hot meat processing. (Ge) Neue Fleischer Zeitung 30: 3-4. Mar.9,1968. 286.85 N39  
Sausage manufacture.
- 81085 WISTREICH, H. Meat plant bacteria and how to control them. Nat. Provisioner 158(23):38-40. June 1968. 286.85 N21
- 81086 ZAHN, H., and REINERT, G. Reactive dyes as tanning materials for collagen films. (Ge) Leder 19(1):1-8. Ref. Jan.1968. 303.8 L492  
English summary.
- Statistics
- 81087 BOCKENHOFF, E. Preview of the swine market; evaluation of the swine census of March 4, 1968. (Ge) Agrarwirtschaft 17(4):118-124. Apr.1968. 281.8 Ag826  
English summary.
- 81088 BONTRON, J. C. The swine industry in France. (Fr) Paysans 12(69):103-123, map. Dec.1967/Jan.1968. 14 R323  
Statistical information.
- 81089 CANADA, DEPT. OF AGRICULTURE. PRODUCTION AND MARKETING BR. Forty-eighth annual livestock market review, 1967. Ottawa, 1967. 106 p., map. 280.39 C16A  
Statistics.
- 81090 CHALUKOV, ZH. KH. Studies on seasonal variation of meat production. (Rus) Myasnaya Indus. SSSR. 3:18-20. 1968. 50.8 M58  
Linear programming used.
- 81091 DYKA, S. Fluctuations in the production and supply of livestock. (Pol) Wies Wspolczesna, Pismo Ruchu Ludowego 12(2):39-49. Feb.1968. HN536.W5  
English summary, p.8-9 of supplement.
- 81092 INDIANA. AGRICULTURAL EXPERIMENT STATION. Annual livestock summary, 1967. Ind. Crops Livestock 500,39 p. Feb.1967. 252.25 Ag8  
U. S. Department of Agriculture, cooperating.
- 81093 KIPFER, W. Changes in Swiss arable farming. (Ge). Grune 96(8):249-254. Feb.23,1968. 17 Sch9  
Field crop areas.
- 81094 PERTICARA, G. The contribution of the Venices to solving the meat problem by production of calves. (It) Agr. Venezia 22(3):176-185. Mar.1968. 16 Ag826  
Amount of production.  
Includes discussion.
- 81095 PETER, E. Austria's supply of slaughter cattle and meat 1967/68. (Ge) Osterr. Inst. Wirtschaftsforsch. Monatsber. 41(2):53-60. 1968. 280.9 V672  
Statistics of production and consumption.
- 81096 SAGHIN, I. The place and role of animal production in the national economy. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 643:19-24. Apr.30/May 7, 1968. 173 J663St  
Livestock and livestock products statistics of Romania.  
Translation from Revista de Zootehnie si Medicina Veterinara 3:10-16. Mar.1968.  
Issued by CFSTI.
- 81097 WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; cattle. Wash. State Univ. Ext. E. M. 2390, rev., 2 p. Feb.1968. 275.29 W27Mi
- 81098 WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; hogs. Wash. State Univ. Ext. E. M. 2389, rev. 2 p. Feb.1968. 275.29 W27Mi
- 81099 WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; sheep, lambs and wool. Wash. State Univ. Ext. E. M. 2388, rev., 2 p. Mar.1968. 275.29 W27Mi
- OILS AND OILSEEDS
- 81100 AKHUND-ZADE, I. M. Olive industry in Aphsheron. (Rus) Sadovodstvo 12:27. Dec.1967. 80 Sal3
- 81101 ARMSTRONG, G. Use of linseed oil in the foundry industry. Meggitt Leadership 22:10-11. Jan./Mar.1968. 308.8 M47
- 81102 AUSTIN, F. L., GENT, C. A., and WOLF, I. A. Enantiomeric 3-hydroxy-pent-4-enethionamides from thioglucosides of Crambe [abysinnica] and Brassica [napus] seeds by action of ferrous salts. Can. J. Chem. 46(9):1507-1512. Ref. May 1, 1968. 470 C16B
- 81103 BADINGS, H. T., WASSINK, J. G., and POLL, J. K. The formation of cis-2-octenal in the autoxidation of linoleic acid. Ned. Melk- Zuivel tijdschr 2(3/4):250. Dec.1967. 44.8 N283
- 81104 BAILEY, A. V., HARRIS, J. A., and SKAU, E. L. Binary freezing point diagrams for a number of long chain fatty acids in dimethyl sulfoxide. J. Chem. Eng. Data 13(2):265-267. Apr.1968. 381 C4242
- 81105 BARFORD, R. A., BERTSCH, R. J., and ROTH-BART, H. L. Phase equilibria and counter-current distribution. Amer. Oil Chem. Soc. J. 45 (3):141-143. Mar.1968. 307.8 J82  
Lipides.
- 81106 BARTHOLOMEW, D. M. Coconut oil achieves status. J. Amer. Oil Chem. Soc. 45(4):218A, 243A. Apr.1968. 307.8 J82  
Includes soybean oil futures.
- 81107 BASLAS, K. K. Chemistry of Indian essential oils. VI. Perfumery Essent. Oil Rec. 59(4):259-265. Ref. Apr.1968. 308.8 P41
- 81108 BATRA, M. M. Trends in prices of groundnut and groundnut oil. Oils Oilseeds J. 20(9):8-9. Mar.1968. 307.8 Oi53  
India.



- 81109 BELL, E. W., and others. 1,2-cycloaddition of haloalkenes to conjugated fatty esters. *Amer. Oil Chem. Soc. J.* 45(5):388-392. May 1968. 307.8 J82  
J. P. Friedrich, L. E. Gast, and J. C. Cowan, joint authors.
- 81110 BENNION, M. Effect of batter ingredients on changes in fatty acid composition of fats used for frying. *Food Technol.* 21(12):94-98. Ref. Dec. 1967. 389.8 F7398  
Vegetable fats.
- 81111 BIERNORTH, G. Quantitative determination of polycyclic aromatic hydrocarbons in fats and oils. (Ge) *Fette-Seifen Anstrichm.* 70(4):217-220. Apr. 1968. 384 C422  
English summary.
- 81112 BOSIN, W. A., MARMOR, R. A. The determination of the solids content of fats and oils by nuclear magnetic resonance. *Amer. Oil Chem. Soc. J.* 45(5):335-337. May 1968. 307.8 J82
- 81113 CALZOLARI, C., STANCHER, B., and MARLETTA, G. P. Origanum oils and their investigation by gas-chromatographic and infrared spectroscopic analysis. *Analyst* 93(1106):311-318. Ref. May 1968. 382 A1
- 81114 CAROLA, C., and others. Oil colour determination by a rational method. (It) *Riv. Ital. Sostanze Grasse* 45(2):83-98. Ref. Feb. 1968. 307.8 OL3  
G. Jacini, W. Ciusa, and G. Gigoni, joint authors.  
English summary.
- 81115 CHAKRABARTY, M. M., and TALAPATRA, K. Studies in interesterification. II. Acidolysis of some vegetable oils with lauric acid. *Amer. Oil Chem. Soc. J.* 45(3):172-175. Mar. 1968. 307.8 J82
- 81116 COENEN, J. W. E., and BOERMA, H. Absorption of reactants on catalyst in the hydrogenation of fats. (Ge) *Fette, Seifen, Anstrichmittel* 70(1):8-9-14. Ref. Jan. 1968. 384 C422  
English summary.
- 81117 DECOSSAS, K. M., and others. Oilseed trends in the South. *Cotton Gin Oil Mill Press* 69(7):7-8, 11, 14, 18. Ref. Apr. 6, 1968. 304.8 C822  
L. J. Molaison, A. de B. Kleppinger, and V. L. Laporte, joint authors.
- 81118 EAPEN, K. E., TAPE, N. W., and SIMS, R. P. A. New process for the production of better-quality rapeseed oil and meal. I. Effect of heat treatments on enzyme destruction and color of rapeseed oil. *Amer. Oil Chem. Soc. J.* 45(3):194-196. Mar. 1968. 307.8 J82
- 81119 ESTERBAUER, H. On the autoxidation of methyl linoleate in water. III-IV. (Ge) *Fette, Seifen, Anstrichmittel* 70(1):1-8. Ref. Jan. 1968. 384 C422  
English summary.
- 81120 FIAD, S., OSMAN, F., and SHOEB, Z. E. Chemical investigations on Egyptian vegetable oils. XI. Chemical composition of pumpkin, charlock, banger and spinach seed oils. *Grassas Aceites* 18(6):307-310. Ref. Nov./Dec. 1967. 307.8 G76
- 81121 FUKUSHIMA, D. Internal structure of 7S and 11S globulin molecules in soybean proteins. *Cereal Chem.* 45(3):203-224. Ref. May 1968. 59.8 C33
- 81122 GARNERO, J., and others. On the presence of p-menthatriene-1,3,8 in the essential oil of Yugoslav parsley leaves. (Fr) *Soc. Chim. France, Bull.* 12:4679-4685. Dec. 1967. 383 P21B  
L. Benezet, L. Peyron, and Y. Chretien-Besiere, joint authors.
- 81123 GEOGHEGAN, J. T., ARLT, H. G., and MYATT, C. O. Tall oil fatty acid alkyls—contribution of side reactions. *J. Paint Technol.* 40(520):209-213. Ref. May 1968. 306.9 F31
- 81124 GESELLSCHAFT FÜR BIOLOGISCHE CHEMIE. Winter conference: lipides, isoprenoids, steroids, January 8-9, 1968, in Munich. (Ge) *Hoppe-Seyler's Z. Physiol. Chem.* 349(1):1-20. 1968. 384 Z38  
Abstracts of papers.
- 81125 GHODSSI, S. M. A. Polymerizations and polycondensations in the oleic series. (Fr) *Rev. Franc. Corps Gras* 15(3):149-155. Ref. Mar. 1968. 307.8 R32
- 81126 GIANNOTTI, C., and SCHWANG, H. On the isolation and structure of two dehydrofuropelargones, new sesquiterpenes from essence of *Geranium bourbon*. (Fr) *Tetrahedron* 24(5):2055-2061. Mar. 1968. 382 T29  
English summary.
- 81127 GUNTHER, H. Investigations on lemon oil with the aid of gas chromatography and infrared spectroscopy. (Ge) *Deut. Lebensm.-Rundsch.* 64(4):104-111. Ref. Apr. 1968. 389.8 D482  
English summary.
- 81128 HARRIS, J. A., BAILEY, A. V., and SKAU, E. L. Solid-liquid phase relations of some normal long-chain fatty acids in N,N-dimethylacetamide and N,N-dimethylformamide. *Amer. Oil Chem. Soc. J.* 45(3):183-184. Mar. 1968. 307.8 J82
- 81129 HELL, R. Investigations on the influence of hydrogen peroxide on the free sugar of soybean phosphatide during bleaching. (Ge) *Fette-Seifen Anstrichm.* 70(4):225-228. Apr. 1968. 384 C422
- 81130 HEYWOOD, D. Arizona tall oil products. *Meggett Leadership* 22:7-9, 11. Jan./Mar. 1968. 308.8 M47
- 81131 HINKO, T. Trends in technological development in the field of edible fats. (Ge) *L E (Lebensmittel Ernähr.)* 21(2):4-6. Feb. 1968. 389.8 Z34
- 81132 HOPKINS, C. Y., and CHISHOLM, M. J. A survey of the conjugated fatty acids of seed oils. *Amer. Oil Chem. Soc. J.* 45(3):176-182. Ref. Mar. 1968. 307.8 J82
- 81133 HRONOVA, D. The quality and post-harvest storage of rapeseed for oil industry. (Cz) *Uroda* 16(5):171-172. May 1968. 64.8 Z12
- 81134 HUTCHINS, J. P., ULLMAN, A. Z., and GOING, L. H. New process for the selective hydrogenation of cyclopropenoids in cottonseed oil. *Amer. Oil Chem. Soc. J.* 45(5):397-399. May 1968. 307.8 J82
- 81135 HYMOWITZ, T., VERNETTI, F. J., and SHANDS, H. L. The Brazilian national soybean program. *Soybean Dig.* 28(8):62-63, 65, map. May 1968. 60.38 So9
- 81136 ILANY-FEIGENBAUM, J., and LAXER, S. Color development in Israeli miso type products and its possible use for quality control. *Food Technol.* 21(11):113-114. Ref. Nov. 1967. 389.8 F7398  
From soybean flakes.
- 81137 INTERNATIONAL SYMPOSIUM ON THE TECHNOLOGY OF FATS, MILAN, 1967. [Report]. (It) *Riv. Ital. Sostanze Grasse* 45(3):127-132. Mar. 1968. 307.8 OL3
- 81138 JAIN, N. C., GUPTA, R. C., and JAIN, D. K. Particle boards from groundnut shells. *Indian Pulp Pap.* 22(6):345-346, 359. Dec. 1967. 302.8 In23
- 81139 JENTSCH, J., and TREIBS, W. On the composition of the components of vetiver oil, especially tertiary vetivenol. II. (Ge) *Parfum. Kosmetik* 49(5):143-148. May 1968. 308.8 D48  
English summary.
- 81140 KARTHA, A. R. S. Studies on two varieties of seed fats of *Sesamum indicum* with special reference to deviations from GTD rule. *Indian J. Chem.* 5(11):589-590. Nov. 1967. 385 In294
- 81141 KAWAMURA, S., KASAI, T., and HONDA, A. Changes of sugars and decrease in available lysine on autoclaving defatted soybean flakes. (Ja) *Jap. Soc. Food Nutr. J.* 20(6):32-35. Ref. Mar. 1968. 389.9 J27  
English summary.
- 81142 KEPPLER, J. G., and others. Iso-linoleic acids responsible for the formation of the hardening flavor. *Oils Oilseeds J.* 20(7):7-8. Ref. Jan. 1968. 307.8 O154  
M. M. Horikx, P. W. Meijboom, and W. H. Feenstra, joint authors.  
Chiefly in linseed oil and soybean oils.

- 81143 KHALAFY, H. M. EL, SHOEB, Z. E., and GAD, A. M. Chemical investigations on Egyptian vegetable fats and oils. X. The chemical constitution of some Gramineae seed oils. *Grasas Aceites* 18(6):291-295. Ref. Nov./Dec. 1967. 307.8 G76
- 81144 KORITALA, S. Selective hydrogenation of soybean oil. III. *Amer. Oil Chem. Soc. J.* 45(3):197-200. Mar. 1968. 307.8 J82
- 81145 KROMER, G. W. U.S. soybean processing capacity continues expansion. *Oils Oilseeds J.* 20(7):15-17. Jan. 1968. 307.8 Oi54
- 81146 LACHNINIAN, E. Vegetable oil production and trade in Iran. *Soybean Dig.* 28(8):55-56, 58. May 1968. 60.38 So9
- 81147 LAMBOURNE, R. The dehydropolymerisation and copolymerisation of drying oils and other reactive compounds exhibiting  $\alpha$ -methylene activity. *Oil Colour Chem. Ass. J.* 51(4):310-323. Ref. Apr. 1968. 306.9 Oi5
- 81148 LATHLEAN, B. Sunflower—a major new oil crop. *Meggett Leadership* 22:3. Jan./Mar. 1968. 308.8 M47  
Sunflower history and sunflower oil composition.
- 81149 LAWHON, J. T. Tests results from calibrating a new moisture detector for measurements on uncooked cottonseed flakes. *Cotton Gin Oil Mill Press* 69(8):11-12, 18. Apr. 20, 1968. 304.8 C822
- 81150 LE DONG, Producing peanuts and soybeans. *Joint Publ. Res. Serv. Transl. N. Vietnam* 316:55-58. Feb. 28, 1968. (JPRS 44,523) DS557.A7J6  
Policy.  
Translation from Nhan Dan, Jan. 22, 1968:2.  
Issued by CFSTI.
- LOBB, H. J. Soybean lecithin. *Meggett Leadership* 22:2. Jan./Mar. 1968. 308.8 M47  
Uses.
- 81152 LOEW, G. Use of a new efficient procedure for extracting olive oil and stable olive pulp residue. (Ge) *Fette-Seifen Anstrichm.* 70(4):229-231. Ref. Apr. 1968. 384 C422  
English summary.
- 81153 LOTTI, G., and AVERNA, V. Seed oils of the genus *Opuntia*. (It) *Riv. Ital. Sostanze Grasse* 45(3):133-137. Mar. 1968. 307.8 OL3  
English summary.
- 81154 LUISE, M. Determination of colour characteristics of a group of Italian virgin olive oils, by the trichromatic method. (It) *Riv. Ital. Sostanze Grasse* 45(2):70-82. Feb. 1968. 307.8 OL3  
English summary.
- 81155 MALONE, P. J. A guide for forecasting soybean futures prices. *Amer. Oil Chem. Soc. J.* 45(3):150A-152A, 182A-184A. Mar. 1968. 307.8 J82
- 81156 MARCUSE, R., and FREDRIKSSON, P. O. Fat oxidation at low oxygen pressure. I. Kinetic studies on the rate of fat oxidation in emulsions. *Amer. Oil Chem. Soc. J.* 45(5):400-407. Ref. May 1968. 307.8 J82
- 81157 MARTIN, D. Edible plastic fats, margarines and shortenings. (Sp) *Grasas Aceites* 18(6):312-318. Nov./Dec. 1967. 307.8 G76  
English summary.
- 81158 MARTINEZ MORENO, J. M., and FLORES LUQUE, V. Analysis of sodium di-iso-octyl-sulfosuccinate and sodium dodecyl-benzene-sulfonate in olive oils. (Sp) *Grasas Aceites* 18(3):157-159. May/June 1967. 307.8 G76  
English summary.
- 81159 MAZUELOS VELA, F. Determination of esterified oils by pancreatic lipase. III. Simplification of the method. (Sp) *Grasas Aceites* 19(1):13-16. Ref. Jan./Feb. 1968. 307.8 G76  
English summary.  
Olive oil.
- 81160 MIKOLAJCZAK, K. L., SMITH, C. R., and WOLFF, I. A. Glyceride structure of *Cardamine impatiens* L. seed oil. *Lipids* 3(3):215-220. Ref. May 1968. QP751.L5
- 81161 MIWA, T. K., and others. Preparation and evaluation of surface-active brassylic acid-ethylene oxide adducts. *Amer. Oil Chem. Soc. J.* 45(3):159-164. Ref. Mar. 1968. 307.8 J82  
R. V. Madrigal, W. H. Tallent, and I. A. Wolff, joint authors.
- 81162 MOD, R. R., MAGNE, F. C., and SKAU, E. L. The plasticizing characteristics of some N,N-dimethylamides and ester-amides of long-chain fatty acids. *Amer. Oil Chem. Soc. J.* 45(5):385-387. Ref. May 1968. 307.8 J82
- 81163 MULLER, P. A. Bergamot oil. (Ge) *Seifen-Ole-Fette-Wachse* 94(1):9-10. Jan. 3, 1968. 307.8 Se4  
English summary.  
Market conditions and adulteration.
- 81164 NACHEV, C., and others. Investigations on the cytotoxic effect of some essential oils and their individual components. (Ge) *Parfum. Kosmetik* 49(4):104-108. Ref. Apr. 1968. 308.8 D48  
G. Zolotovitch, K. Siljanowska, and S. Stojcev, joint authors.  
English summary.
- 81165 NEVILLE, J. T. The refining of vegetable oils. III. *Meggett Leadership* 22:4-6. Ref. Jan./Mar. 1968. 308.8 M47
- 81166 NIEWIADOMSKI, H. Rape, raw material for the oil plant. (Fr) *Rev. Franc. Corps Gras* 15(3):139-148. Ref. Mar. 1968. 307.8 R32  
Aspects of the industry in various countries.
- 81167 NIEWIADOMSKI, H. Rapeseed as a raw material for the oil industry. (Pol) *Przemysl Spozywczy* 22(1):21-23. 1968. 389.8 P95
- 81168 OLSON, K. W. Tokyo fair; soybeans featured in U.S. food exhibit. *Soybean Dig.* 28(8):26-27. May 1968. 60.38 So9
- 81169 PAUKOV, V. N., RUDEKNO, B. A., and KUCHEROV, V. F. Analysis of essential oils by means of capillary chromatography. (Rus) *Akad. Nauk SSSR. Izv. Ser. Khim.* 1:15-19. Ref. Jan. 1968. 511 Sa2C
- 81170 POGELER, G. H. Expansion slows—competition stiffens. *Soybean Dig.* 28(8):42, 47. May 1968. 60.38 So9  
World oilseed situation and U.S. soybean exports.
- 81171 POPOV, A., and STEFANOV, K. Studies on the composition of tank settings and wax of sunflower seed oil. (Ge) *Fette-Seifen Anstrichm.* 70(4):234-238. Apr. 1968. 384 C422  
English summary.
- 81172 PREVOT, A., and BARBATI, C. Analysis of hydroxylic compounds by gas phase chromatography. (Fr) *Rev. Franc. Corps Gras* 15(3):157-165. Ref., p.163-165. Mar. 1968. 307.8 R32  
From oils.
- 81173 RANDOLPH, C. Japan soya operates on U.S. soybeans. *Soybean Dig.* 28(8):24. May 1968. 60.38 So9
- 81174 RANDOLPH, C. No increase in soybean acres seen in 1968. *Soybean Dig.* 28(4):23. Feb. 1968. 60.38 So9
- 81175 RAO, D. M., and KRISHNAMOORTHY, V. Studies on indigenous cottonseed. XII. First cut delinting of Cambodia and Mysore laxmi. *Oils Oilseeds J.* 20(9):4-6. Mar. 1968. 307.8 Oi53
- 81176 RAO, G. V., SUBBARAO, R., and ACHAYA, K. T. Protection of unsaturation by cupric nitrate during heterogeneous catalytic hydrogenation of aliphatic epoxy to hydroxy groups. *Amer. Oil Chem. Soc. J.* 45(5):408. May 1968. 307.8 J82  
Vegetable oils.
- 81177 RAO, M. K. G., and ACHAGA, K. T. Unsaturated fatty acids as synergists for antioxidants. *Fette-Seifen Anstrichm.* 70(4):231-234. Ref. Apr. 1968. 384 C422  
In vegetable fats.
- 81178 REILICH, H. G., and others. Removal of cyclopropenoid fatty acids from cottonseed meals by solvent extraction. *Amer. Oil Chem. Soc. J.* 45(3):185-188. Ref. Mar. 1968. 307.8 J82  
H. J. O'Neill, R. S. Levi, T. Yamauchi, and W. A. Pons, joint authors.



- 81179 ROJAS CRUZ, L. A. African oilpalm: the growers have a program which pays for itself. (Sp) *Rev. Nac. Agr.* 62(752):36-38. Jan.1968. 9.4 R32
- 81180 ROTHMAN, E. S. Reactions of the stearylized enolic form of acetone, involving hexadecylketene as the reactive intermediate. *Amer. Oil Chem. Soc. J.* 45(3):189-193. Ref. Mar.1968. 307.8 J82
- 81181 SAHASRABUDHE, M. R., and LEGARI, J. J. A chromatographic method for the analysis of propylene glycol fatty acid esters in shortenings containing mono- and diglycerides. *Amer. Oil Chem. Soc. J.* 45(3):148-151. Ref. Mar. 1968. 307.8 J82
- 81182 SAWAS-DIMOPOULOU, C., and FYTIZAS, E. Accumulation of free amino acids in the mesocarp of olive after conservation at low temperature. (Fr) *Can. J. Biochem.* 45(12):1964-1971. Ref. Dec.1967. 470 C16E
- 81183 SHAH, F. H. Changes in leaf protein lipids in vitro. *J. Sci. Food Agr.* 19(4):199-202. Ref. Apr.1968. 382 So12
- 81184 SHIH, D. S., and BARNETT, L. B. Preparation and kinetic studies of fumarase from peanuts. *Arch. Biochem. Biophys.* 123(3):558-564. Ref. 1968. 381 Ar2
- 81185 SHIMAHARA, K., MATSUI, M., and HASHIZUME, Y. Bacterial peroxidation of fats. V. Accumulation of the active substance by *Achromobacter delicatulus* strain A-1 and its relation to peroxidation. (Ja) *J. Ferment. Technol.* 46(1):69-74. Jan.1968. 390.08 H12  
English summary.  
From soybean oil.
- 81186 SIEGFRIED, B., PATER, B. K., and BEGUIN, E. Nitric acid reaction for determining the quality of almond oil. (Ge) *Pharm. Acta Helv.* 43(2):79-90. Feb.1968. 396.8 P4933
- 81187 SMITH, K. J. Pesticide residues. *Cotton Gin Oil Mill Press* 69(5):7,10,14-15. Mar.9,1968. 304.8 C822  
In cottonseed and products.
- 81188 SOLINAS, M. Determination of peroxides by the Stamm method. (It) *Riv. Ital. Sostanze Grasse* 45(3):140-142. Mar.1968. 307.8 OL3  
English summary.  
In olive oil.
- 81189 SOOD, V. K. Future prospects of the essential oils industry in Commonwealth. *Indian Forest.* 94(2):189-190. Feb.1968. 99.8 In2
- 81190 SORENSON, J. W., PERSON, N. K., and HARRISON, A. L. Drying Spanish peanuts in inverted windrows. *Tex. Agr. Progr.* 14(2):15-17. Spring 1968. 100 T31Te
- 81191 STOIANOVA-IVANOVA, B., and MLADENOVA, K. On the composition of acids in wax from rose bud and rose flower concretes of the same origin. *Riv. Ital. Essenze-Profumi-Piante Offic.-Aromi-Saponi-Cosmet.-Aerosol* 50(2):72-76. Ref. Feb.1968. 308.8 R52
- 81192 THOMAS, R., and RIDLEHUBER, J. Miscella refining. *Amer. Oil Chem. Soc. J.* 45(5):254A, 256A. May 1968. 307.8 J82
- 81193 VAN DUIN, H., and POLL, J. K. The identification of cis-2-enals in autoxidation products. *Ned. Melk- Zuiveltijdschr.* 2(3/4):248. Dec. 1968. 44.8 N283  
In fats.
- 81194 VIOQUE, E., and MAZA, M. P. Formation of methoxy compounds during the esterification of alpha-hydroxy-monoenacids with methanol in an acid medium; the occurrence of those acids in olive kernels. (Sp) *Grasas Aceites* 18(6):302-307. Ref. Nov./Dec.1967. 307.8 G76  
English summary.
- 81195 VIOQUE, E., ABE, Y., and MARTEL, J. New method for the detection of antioxidants in fats. (Sp) *Grasas Aceites* 18(6):310-311. Nov./Dec. 1967. 307.8 G76  
English summary.
- 81196 VIOQUE, E., and CALDERON, M. Oxidation of triglycerides by lipoxidase. II. Formation of epoxy triglycerides in olive oil oxidation. (Sp) *Grasas Aceites* 19(1):1-7. Ref. Jan./Feb.1968. 307.8 G76  
English summary.
- 81197 VIOQUE, E., and CALDERON, M. Oxidation of triglycerides by lipoxidase. III. Study of the hydroperoxy glycerides formed in olive oil oxidation. (Sp) *Grasas Aceites* 19(1):7-13. Ref. Jan./Feb.1968. 307.8 G76  
English summary.
- 81198 VIOQUE, E., and CALDERON, M. Triglyceride oxidation by the lipoxidase. I. Influence of the linoleic acid position. (Sp) *Grasas Aceites* 18(6):296-302. Ref. Nov./Dec.1967. 307.8 G76  
English summary.
- 81199 VIRENDRASINGH, M. Soybean oil in India. *Soybean Dig.* 28(8):59-60. May 1968. 60.38 So9  
Includes data on other oilseeds.
- 81200 WAGLE, N. G. Detection of mowra cake in oil cakes. *Analyst* 93(1104):193-196. Mar.1968. 382 An1
- 81201 WARD, J. J., and PENTIS, J. R. European trends in oilseed consumption. *Soybean Dig.* 28(8):52,53. May 1968. 60.38 So9
- 81202 WATANABE, B. The Japanese oilseed processing industry. *Soybean Dig.* 28(8):36,38. May 1968. 60.38 So9
- 81203 WILCKE, H. L., MARTINEZ, W., and CALVERT, F. E. Oilseed meals and flours for food use. *Soybean Dig.* 28(8):18,20. May 1968. 60.38 So9  
Composition and nutritive value.
- 81204 WILKENS, W. F., MATTICK, L. R., and HAND, D. B. Effect of processing method on oxidative off-flavors of soybean milk. *Food Technol.* 21(12):86-89. Ref. Dec.1967. 389.8 F7398
- 81205 WORMS, P. Interchangeability of oils and fats and its consequences. I. (Fr) *Rev. Franc. Corps Gras* 15(3):167-174. Mar.1968. 307.8 R32

## POULTRY AND POULTRY PRODUCTS

- 81206 ABASHIN, N. Measures for increasing production of poultry products. U. S. Joint Publ. Res. Serv. Transl. USSR Consum. Goods Dom. Trade 226:1-6. Jan.26,1968. (JPRS 44,155) 173 J663Tro  
Translation from *Myasnaya Industriya SSSR* 12:1-3. Dec.1967.  
Issued by CFSTI.
- 81207 ABASHIN, N. Measures increasing production of the poultry meat products. (Rus) *Myasnaya Indus. SSSR* 12:1-3. Dec.1967. 50.8 M58  
Policies.
- 81208 AYALA MARTIN, E. Poultry raiser as well as rabbit raiser. (Sp) *Avicult. Tec.* 19(1):20-21. Jan.1968. 47.8 Av57  
The industries in Spain.
- 81209 BOARD, P. A., HENDEN, L. P., and BOARD, R. G. The influence of iron on the course of bacterial infection of the hen's egg. *Brit. Poultry Sci.* 9(2):211-215. Apr.1968. 47.8 B77
- 81210 BOARDMAN, R. Egg City produces 1,000,000 eggs a day. *World Farming* 10(4):28-30. Apr. 1968. 30.08 W89  
California.
- 81211 BUCK, J. T., and LUCKHAM, W. R. Virginia's poultry industry. *Va. Polytech. Inst. Ext. Va. Farm Econ.* 207:7-10. Mar./Apr.1968. 275.29 V813
- 81212 BULLING, E. Bacteriological inspection of egg products in the German Federal Republic. (Ge) (Extr.) *Arch. Lebensmittelhgy.* 19(4):78-80. Ref. Apr.1968. 41.8 L49
- 81213 CARTER, T. C. The hen's egg: a mathematical model with three parameters. *Brit. Poultry Sci.* 9(2):165-171. Apr.1968. 47.8 B77
- 81214 DAVID, G. Regional organization of the poultry industry. (He) *Agr. Israel* 13(6/7):52-54. Mar./Apr.1968. 22.5 Ag825

- 81215 FOY, R. Japan's egg business moves to large units. *Poultry Internat.* 7(3):42-45. Mar.1968. 47.8 P8698
- 81216 GIAVARINI, I. Variations in egg composition. (It) *Avicoltura* 37(4):61-77. Ref. Apr.1968. 47.8 R523  
English summary, p.59.
- 81217 GREICHUS, Y., LAMB, D., and GARRETT, C. Efficiency of extraction of metabolically incorporated HEOD (carbon-14) from pheasant tissues, eggs and faeces. *Analyst* 93(1106):323-325. May 1968. 382 A1  
Isolation of pesticide residue.
- 81218 GRILLENZONI, M. Criteria for selecting equipment for egg processing. (It) *Avicoltura* 37(4):79-86. Apr.1968. 47.8 R523  
English summary, p.59.
- 81219 HARTMAN, R. C. Was SWEP [Southwestern Egg Producers] marketing concept wrong? *Poultry Trib.* 74(6):32-33. June 1968. 47.8 P8642  
A cooperative organization.
- 81220 JASPER, A. W. Why poultry can afford only one profit. *Poultry Internat.* 7(5):36-38. May 1968. 47.8 P8698  
Vertical integration of the industry.
- 81221 KEMPERS, B. W. Turkey growers and processors: How to make the most of sales arrangements based on U.S. grade A turkeys. *Agr. Marketing [Washington]* 13(6):12. June 1968. A280.38 Ag8  
Chiefly grading procedure.
- 81222 LIDDLE, P. C. Controlled environment storage of table eggs. *Poultry Rev.* 8(1):3-12, map. Apr.1968. 47.8 P8699
- 81223 LIU, H. M. and HSU, C. T. Jou-Chi Te Leng-Tsang Ch'i Leng-Tung [The refrigeration and freezing of chicken meat]. (Ch) *Chien Yen* 1:7-14. Jan.1968. TX501.C5
- 81224 LUCKHAM, W. R., and BUCK, J. T. Look at turkeys! *Va. Polytech. Inst. Ext. Va. Farm Econ.* 207:18-24. Mar./Apr.1968. 275.29 V813  
Prices and outlook.
- 81225 LUCKHAM, W. R., and BUCK, J. T. Some hope for table eggs. *Va. Polytech. Inst. Ext. Va. Farm Econ.* 207:16-18. Mar./Apr.1968. 275.29 V813  
Prices and outlook.
- 81226 MCGRANE, M. Land O'Lakes opens new processing plant for growing turkey unit. *Feed-stuffs* 40(13):46,48-49. Mar.30,1968. 386.81 F322
- 81227 MERCURI, A. J., KOTULA, A. W., and SANDERS, D. H. Low-dose ionizing irradiation of tray-packed cut-up fryer chickens. *Food Technol.* 21(11):95-98. Ref. Nov.1967. 389.8 F7398  
Gamma irradiation.
- 81228 PATRIK, I., LAZAREV, E., and KHAZIN, D. Improvement of poultry transportation and receiving. (Rus) *Myasnaya Indus. SSSR.* 3:36-39. 1968. 50.8 M58
- 81229 PATTERSON, J. T. Chlorination of water used for poultry processing. *Brit. Poultry Sci.* 9(2):129-133. Ref. Apr.1968. 47.8 B77  
Effects of chlorine on carcass bacteria.
- 81230 PEDERSEN, J. H. Production planning for Danish consumer egg production. (Da) *Nord. Lantbruksek. Tidskr.* 18(1):12-16. 1968. 281.8 N75  
Chiefly marketing.
- 81231 POGATCHEV, V. Unification of poultry meat packing. (Rus) *Myasnaya Indus. SSSR.* 2:14-17. Feb.1968. 50.8 M58
- 81232 STEWART, G. F. Egg quality research work. *Egg Poultry Prod.* 19(3):8-9,22. Mar.1968. 47.8 Eg34
- 81233 TESTER, J. Foot and mouth epidemic stimulates poultry market. *Poultry Internat.* 7(5):52-58. May 1968. 47.8 P8698  
In Great Britain.
- 81234 TUNDLER, K. Labeling of prepacked refrigerated and frozen poultry. (Ge) *Allg. Fleischer Zeitung* 3(45):5,7. Apr.13,1968. 286.85 AL5
- 81235 TUNG, M. A., STALEY, L. M., and RICHARDS, J. F. Studies on hardness of the hen's egg-shell. *J. Agr. Eng. Res.* 13(1):12-18. Ref. Mar.1968. 58.8 J82
- 81236 TYLER, C. The relationship between thickness and snapping strength in egg shells. *Brit. Poultry Sci.* 9(2):143-158. Ref. Apr.1968. 47.8 B77
- 81237 U. S. CROP REPORTING BOARD. Chickens and eggs, including broiler production, by States, 1967-68. Washington, 1968. 11 p. 1.9 Ec71Epc  
Includes income.
- 81238 WEEKS, W. E. R. Economics of the poultry industry today. *Veterinarian [Oxford]* 5(2):111-118. Apr.1968. 41.8 V6467  
In Great Britain.
- 81239 WHO'S WHO in the egg and poultry industries, 1968, compiled and published by Watt Publishing Company. Mount Morris, Illinois, 1968. 380 p. 225 W622
- 81240 YEH, C. J. Maine egg marketing. *Maine. Agr. Exp. Sta. Bull.* 655,27 p. Nov.1967. 100 M28S

## RUBBER AND RUBBER SUBSTITUTES

- 81241 CEYLON rubber review 1967. Colombo, 1968. 17 p. 286.37 C33
- 81242 D'AUZAC, J., and JACOB, J. L. Inhibition by ATP of the malate dehydrogenase, the alcohol dehydrogenase, and the lactate dehydrogenase of *Hevea brasiliensis* latex. (Fr) *Soc. Chim. Biol. Bull.* 50(1):143-156. Ref. 1968. 383 S1  
English summary.
- 81243 INDIAN RUBBER BOARD. STATISTICAL SECT: Indian rubber statistics. Volume 10, 1967. Kottayam, 1967. 92 p. 305.8 In24
- 81244 TROLL, R. An amoeba [Hartmannella castellani] isolated from the latex of *Euphorbia marginata* Pursh. (Euphorbiaceae). *Ill. State Acad. Sci. Trans.* 61(1):96-99. Ref. 1968. 500 IL6
- 81245 VORPAGEL, R. A. Design of rubber parts. *Rubber Age* 100(5):69,72. May 1968. 305.8 R82  
Used in automobiles.
- 81246 WASSILEW, A., and ZANKOW, C. Changes in the mechanical properties of vulcanizates effected by gamma rays. (Ge) *Allg. Prakt. Chem.* 19(1/2):19-22. Jan./Feb.1968. 384 P88
- 81247 WILLISON, D. Rubber-metal bonded components for dynamic energy absorption are said to be superior to standard devices, thus extending the frontiers of rubber cushioning. *Rubber Age* 100(5):65-68. May 1968. 305.8 R82
- 81248 WOLF, R. F. Rubber belting is only one of the vast variety of industrial rubber products which continues to show not only technological progress but new market strengths. *Rubber Age* 100(5):58-64. May 1968. 305.8 R82

## SEEDS

- 81249 ANISKIN, V. I. Preservation of seeds by refrigeration. (Rus) *Selek. Semenovodstvo* 2:53-55. Mar./Apr.1968. 61.9 Se5
- 81250 BRAUN, H. The new seed traffic law and value for reclamation. (Ge) *Mitt. Deut. Landwirt.-Ges.* 83(16):566-568. Apr.18,1968. 18 N39
- 81251 CHOPRA, G. R., JAIN, A. C., and SESHADRI, T. R. Non-fatty components of the seeds of *Salvadora oleoides*. *Cur. Sci.* 37(5):121-123. Ref. Mar.5,1968. 475 Sci23
- 81252 DAWSON, J. L. Sown grass—the basis of Scottish agriculture. *Roy. Highland Agr. Soc. Scot. Trans.* 9:15-31. 1968. 10 H536  
Seed certification, culture, and physiology.
- 81253 ECKHOFF, G. Seed changing—basis of grain culture! (Ge) *Mitt. Deut. Landwirt.-Ges.* 83(7):163-165. Feb.15,1968. 18 N39  
Certified seed and the costs of home seed production.



- 81254 FEHER, G. Seeds for spring sowing. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 627:1-4. 1968? (JPRS 442,425) 173 J663Ste  
In Hungary; distributing enterprise.  
Translation from Szabad Fold 24(2):1-4. Jan. 1968.  
Issued by CFSTI.
- 81255 JEFFES, K. A., LORD, K. A., and TUPPEN, R. J. Insecticides on single seeds treated with liquid dressings. J. Sci. Food Agr. 19(4):195-198. Apr. 1968. 382 So12
- 81256 KLUSMANN, W. Production and costs in clover and grass seed culture. (Ge) Betriebswirtsch. Mitt. Wirtschaftsberater 159:15-22. Feb. 15, 1968. 281.8 B462  
Area and costs.
- 81257 PALMBERG, V. The seed dealer's role in the Big Acre revolution. Seed World 102(8):4-7. Apr. 26, 1968. 61.8 Se52  
Chiefly "on the farm" selling and advisory services in Wisconsin.
- 81258 PENNSYLVANIA. BUR. OF PLANT INDUSTRY. Seed report, 1967. Pa. Dep. Agr. Bull. 50(4), 25 p. Dec. 1967. 2 P38B  
Regulations and certification.
- 81259 SCHALL, E. D., and others. Inspection of agricultural and vegetable seeds, July 1, 1966-June 30, 1967. Ind. Agr. Exp. Sta. Insp. Rep. 70, 44 p. Jan. 1968. 280.39 In22  
A. S. Carter, L. C. Shenberger, and A. Swope, joint authors.  
Field crops.
- 81260 SCHEUER, C. Seeds to twenty countries. Israel Econ. 24(3):82. Mar. 1968. 280.8 Is722  
Industry in Israel.
- 81261 SEED directory. Soybean Dig. 28(4):50-52. Feb. 1968. 60.38 So9
- 81262 SRIVASTAVA, H. C., SINGH, P. P., and RAO, P. V. S. A galactomannan from the seeds of *Sesbania grandiflora* pers. Carbohyd. Res. 6(3):361-366. Ref. Mar. 1968. 385 C172
- 81263 WREFORD, D. The dividends of using better-quality seeds. Good Farming 19(3):40, 42. Apr. 1968. 7 G59  
Costs in Canada.
- SUGAR AND SIRUPS**
- 81264 BANKS, W., and GREENWOOD, C. T. A novel method of determining the number-average degree of polymerization of linear maltodextrins and amylose. Carbohyd. Res. 6(2):177-183. Feb. 1968. 385 C172
- 81265 BRETTING, E. Pulp drying in the age of automation. (Ge) Zucker 21(6):152-154. Mar. 15, 1968. 65.8 Z82  
Sugar beets.
- 81266 BRUNICH-OLSEN, H. Progress in the DDS-cane diffuser in the last five years. Sugar Azucar 63(3):26, 28, 30, 32. Mar. 1968. 65.8 F11  
Text also in Spanish p. 145-146, 148-150.
- 81267 BURIANEK, J. Polarography in the sugar industry. I. Review of the application possibilities of polarography in sugar factory laboratories. (Ge) Z. Zuckerindus. 18(4):165-170. Ref. Apr. 20, 1968. 65.8 D48  
English summary.
- 81268 CHERNYAVSKII, A. I., KARMAZIN, V. D., and NOVIKEVICH, N. F. Investigating apparatus for cooling sugar in boiling layers. (Rus) Sakhar. Prom. 3:20-22. Mar. 1968. 65.8 Sa2
- 81269 DOANE, W. M., and others. New polymers through reaction of trans-carbonates of glycosides with polysaccharides. Carbohyd. Res. 5(3):366-367. Nov. 1967. 385 C172  
E. I. Stout, B. S. Shasha, C. R. Russell, and C. E. Rist, joint authors.
- 81270 FRANZKE, C., GRUNERT, K. S., and OBRKAT, H. Periodate oxidation of carbohydrates. I. Quantitative determination of monosaccharides. (Ge) Z. Lebensmittel-Untersuchung - Forsch. 136(5):261-271. Ref. 1968. 384 Z39
- 81271 FRIED, E. R. International aspects of sugar production and trade. Sugar Club. Annu. 6:65-71. 1967. 286.3659 Su3
- 81272 HESCH, R. Particle board of bagasse for the building and furniture industry; a new factory factory for Reunion. (Ge) Z. Zuckerindus. 18(3):114-120. Mar. 20, 1968. 65.8 D48  
English summary.
- 81273 HICKSON, J. L. Sugar and its competition--the challenge. Sugar Club. Annu. 6:27-35. 1967. 286.3659 Su3
- 81274 HOOVER, W. J. Corn sweeteners. In Heid, J. L., and Joslyn, M. A. Fundamentals of food processing operations, p. 62-78. Ref. 1967. TP370.H4
- 81275 HUBALEK, K., and WEIG, P. The application of optimal methods in the solution of problems of post-harvest handling of sugar beets. (Cz) Czech. Min. Zemedel. Les. Hospodar. Ustav Vedeckotech. Inform. Zemedel. Tech. 41(1):29-48. Jan. 1968. 58.9 C333  
English summary.  
Transportation and storage equipment.
- 81276 INDUSTRIA AZUCARERA. Argentine sugar in figures. (Sp) Indus. Azucar. 73(889):366-379. Dec. 1967. 65.8 In22  
Departamento de Estadistica del Centro Azucarero Argentino, cooperating.
- 81277 INSTITUT FUR ZUCKERINDUSTRIE. Annual report for the year 1967, by Hirschmiller. (Ge) Z. Zuckerindus. 18(4):184-186. Ref. Apr. 20, 1968. 65.8 D48
- 81278 JEZO, I., and LUZAK, I. Aminolysis of sucrose. XII. The reaction of sucrose with water solutions of glycinamides at elevated temperatures. (Cz) Chem. Zvesti 22(3):190-197. Ref. 1968. 385 C4232  
English summary.
- 81279 KAPADIA, J. D. De-control sugar. Indian sugar [Calcutta] 17(8):633. Nov. 1967. 65.8 In26
- 81280 KHAN, S. A., AHMAD, S., and IKRAM, M. Improvements in the method for removal of calcium from molasses. Sci. Indus. 5(1):41-44. Jan. 1967. 475 Sci238
- 81281 KHARIN, S. E., and SAPRONOV, A. R. Consecutive reaction of sucrose decomposition. (Rus) Sakhar. Prom. 3:26-29. Mar. 1968. 65.8 Sa2
- 81282 KOENK, H. Industrial organization and management of sugar production. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 624:1-5. Feb. 8, 1968. (JPRS 44,287) 173 J663Ste  
In East Germany.  
Translation from Feldwirtschaft 8(9):437-439. Sept. 1967.  
Issued by CFSTI.
- 81283 KOGARD, H. Electronic data processing. (Ge) Z. Zucker Indus. 17(11):576-581. Nov. 20, 1967. 65.8 D48  
English summary.
- 81284 KOVALEV, A. I. Possible improvement of sugar industry in the Belorussian SSR. (Rus) Sakhar. Prom. 3:52-54. Mar. 1968. 65.8 Sa2
- 81285 LAMBORN AND COMPANY INC. Lamborn's chart of U.S. raw sugar prices 1964-1967. New York, 1968. 1 p., folder. 284.3659 L17Ch
- 81286 LEYERER, J. The EEC sugar market regulation. (Ge) L E (Lebensmittel Ernahr.) 21(2):7-10. Feb. 1968. 389.8 Z34
- 81287 MANNING, H. J. Australia's sugar industry. Valuer 20(2):101-107, 131. Apr. 1968. 282.8 V24
- 81288 MEHREN, G. L. The USDA, sugar and you. Sugar Club. Annu. 6:81-89. 1967. 286.3659 Su3
- 81289 METELKINA, A. V. Methods of creating agro-industrial unifications and combination of industrial and agricultural enterprises in the zone of sugar beet growing. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 128:269-273. 1967. 20 M857
- 81290 MURPHY, T. O. A discussion of the new amendments to the Sugar Act and the United Nations International Sugar Conference. Sugar Club. Annu. 6:17-24. 1967. 286.3659 Su3

- 81291 MUSTAFA, A., DAWOUD, A. F., and MARAWAN, A. Further studies on stabilization of polymeric carbohydrate nitrates: the stability of dextrin nitrates. *Starke* 19(11):358-362. Nov.1967. 309 St22
- 81292 NELSON, P. H., and ANDERLEI, J. Establishment and development of the Greek sugar industry. (Ge) *Z. Zuckerindus.* 18(3):110-113. Mar.20,1968. 65.8 D48  
English summary.  
Sugar beet industry.
- 81293 OESERT, K. Beginning of the common market for sugar beets and sugar. (Ge) *Betriebswirtschaft. Mitt. Wirtschaftsberater* 159:9-13. Feb.15,1968. 281.8 B462
- 81294 OLIVER, W. F. The state of the sugar industry today. *Sugar Club. Annu.* 6:57-62. 1967. 286.3659 Su3
- 81295 PAYNE, J. H. Displacement method of extracting sucrose. *Sugar J.* 30(9):26-29. Feb.1968. 65.8 Su391  
From cane juice in Australia.
- 81296 PROSKOWETZ, F. VON, and ATHENSTEDT, M. Sugarcane industry of Peru. (Ge) *Z. Zucker Indus.* 17(12):634-638. Dec.20,1967. 65.8 D48  
English summary.
- 81297 RAMOS, E. Chemical pulp from Bagasse; present & future. *Sugar Azucar* 63(3):87-90. Mar. 1968. 65.8 F11  
Sugarcane.
- 81298 REINHARD, S. The sugar industry in Mexico. (Ge) *Z. Zuckerindus.* 18(4):176-181, map. Apr.20,1968. 65.8 D48  
English summary.  
Sugarcane.
- 81299 SARKAR, I. M., ARTHUR, J. C., and HINOJOSA, O. Electron-spin resonance study of some irradiated D-glucopyranosides. *Carbohydr. Res.* 6(3):333-340. Ref. Mar.1968. 385 C172
- 81300 SARKAR, I. M., and ARTHUR, J. C. Synthesis of some aromatic esters of the methyl D-glucopyranosides, and their stability to high-energy radiation. *Carbohydr. Res.* 6(2):207-213. Ref. Feb.1968. 385 C172
- 81301 SCARR, M. P. Thermophiles in sugar. *J. Appl. Bacteriol.* 31(1):66-74. Ref. Mar.1968. 448.39 So12
- 81302 SCHOEDLER, K. Surface and submerged culture fermentation of citric acid from blackstrap molasses. (Ge) *Zucker* 21(5):121-122. Mar.1, 1968. 65.8 Z82  
English summary.
- 81303 SHASHA, B. S., and others. A novel method for preparation of some sugar carbonates. *Carbohydr. Res.* 5(3):346-348. Nov.1967. 385 C172  
W. M. Doane, C. R. Russell, and C. E. Rist, joint authors.
- 81304 SHELEST, L. Problems plaguing Ukrainian sugar industry. *U. S. Joint Publ. Res. Serv. Transl. USSR Consum. Goods Dom. Trade* 209: 11-18. Nov.16,1967. (JPRS 43,344; TT 67-33968) 173 J663Tro  
Translation from *Ekonomika Sovetskoi Ukrainy* 10:6-11. 1967.  
Issued by CFSTI.
- 81305 SHEREMET'EV, S. KH. Distribution of potassium and sodium in granulometric fractions of sugar. (Rus) *Sakharn. Prom.* 3:30-31. Mar. 1968. 65.8 Sa2
- 81306 SMELIK, A., VASATKO, J., and STUDNICKY, J. The effect of invert sugar on the solubility of sucrose. (Cz) *Chem. Zvesti* 22(3):161-167. Ref. 1968. 385 C4232  
English summary.
- 81307 SUGAR CLUB. Annual, Number 6, 1965-1966 season; 1966-1967 season. New York, 1967. 109 p. 286.3659 Su3
- 81308 THE SUGAR industry in the third year of the Five-Year Plan. (Rus) *Sakharn. Prom.* 3:1-6. Mar.1968. 65.8 Sa2
- 81309 SWEENEY, J. T. J. Canada's place in the world sugar industry. *Sugar Azucar* 63(5):42-43. May 1968. 65.8 F11
- 81310 TAI, K. H. Chugoku kansho togyo no tenkai [Development of the cane sugar industry in China]. Tokyo, Tokyo Daigaku Shuppankai, 1967. 211 p., map. (Ajia Keizai Kenkyusho. Ajia Keizai Chosa Kenkyu Sosho No. 129. Shuppanbutsu tsukan No. 626). SB229.C6T3
- 81311 TAZELAAR, R. J. Expectations for the sugar beet industry in fiscal year 1968/69. (Ge) *Z. Zuckerindus.* 18(3):121-123. Mar.20,1968. 65.8 D48  
Under control of the European Common Market.
- 81312 TSCHERSICH, J., and MAUCH, W. Enzymatic-photometric determination of D-glucose and D-fructose in consumption sugar. (Ge) *Z. Zuckerindus.* 18(3):107-110. Mar.20,1968. 65.8 D48  
English summary.
- 81313 TSCHERISCH, J. On the production of sugar from corn. (Ge) *Z. Zucker Indus.* 17(12): 638-640. Dec.20,1967. 65.8 D48
- 81314 TYLE, J. Mechanical stirrers in cooking apparatus with regulators. (Ge) *Z. Zuckerindus.* 18(4):182-184. Apr.20,1968. 65.8 D48  
English summary.  
Masseccutes.
- 81315 U. S. AGRICULTURAL STABILIZATION AND CONSERVATION SERV. POLICY AND PROGRAM APPRAISAL DIV. Sugar act of 1948, as amended. Washington, 1966. 32 p. PREP 787
- 81316 VASATKO, J., and SMELIK, A. Crystallization of sucrose, D-glucose and D-fructose from supersaturated solutions of the metastable zone. (Ge) *Zucker* 21(6):144-151. Ref. Mar.15,1968. 65.8 Z82  
English summary.
- 81317 VITON, A. 1970 production: forecasts and reality. *Sugar Azucar* 63(5):50-52. May 1968. 65.8 F11
- 81318 ZAORSKA, H. Adsorption of colouring matter in sugar products by sucrose. (Ge) *Zucker* 21(5):118-120. Ref. Mar.1,1968. 65.8 Z82  
English summary.  
Sugar beets.

## TOBACCO

- 81319 ABDALLAH, F. Tobacco quality. 4. The role of flavoring materials. *Tobacco [New York]* 166(18):21-22,24,26. May 3,1968. 286.89 T552
- 81320 CATTELAIN, P. Common Market organisation for leaf tobacco. *Tabak-J. Int.* 1:15. Feb.20, 1968. 286.89 T117  
Text also in German, p.14.
- 81321 CEMAL, T. Leaf tobacco production in Turkey. (Ge) *Tabak-J. Int.* 1:19. Feb.20,1968. 286.89 T117  
English summary.
- 81322 DANZEL, L. Prehistory and history of tobacco. (Fr) *Acta Phytotherap.* 15(3):47-53. 1968. 450 Ac88
- 81323 DENNIS, H. A. The Carolinas: despite changes, tobacco marketing picture still muddled. *Tobacco [New York]* 166(17):41,43-44. Apr.26, 1968. 286.89 T552
- 81324 DIMITROV, L., and IVANOV, N. Study of accumulation of aromatic substances in oriental types of tobacco. (Bul) *Bulg. Tyutyun* 6:32-38. 1967. 69.8 B872
- 81325 FLUSS, F. F. The Canadian tobacco crop, 67. *Tabak-J. Int.* 2:87. Apr.20,1968. 286.89 T117
- 81326 GIOVANNOZZI-SERMANNI, G. Analytical researches on Nicotiana tabacum with paper chromatography. VII. Some phenolic compounds of Maryland tobacco. 11 p. Ref. *Transl.* 16319  
Translation from *Il Tobacco* 61:349-357. July/Sept.1957.
- 81327 HUSENER, H. Tobacco market of Bremen 1967. (Ge) *Tabak-J. Int.* 1:10-11. Feb.20, 1968. 286.89 T117  
Text also in German, p.10-11.
- 81328 IVANOV, N. Achievements of science on tobacco chemistry and biochemistry in USSR. (Bul) *Bulg. Tyutyun* 8/9:46-47. 1967. 69.8 B872



- 81329 KAPNEMPORIKI HOMOSPONDIA TES HEL-LADOS. Annual meeting [of the Greek Tobacco Federation] activities for the year 1967. (Gre) Kapnike Epitheoresis 22(255):5503-5506. Feb. 1968. 69.8 K14
- 81330 KREWSON, C. F., and CHORTYK, O. T. Comparative studies on tobacco leaf; use of a rapid extraction technique. Amer. J. Pharm. 140(2): 44-51. Mar./Apr. 1968. 396.8 Am3
- 81331 KRUGER, H. E. Balanced Bahia market. Tabak-J. Int. 1:22. Feb. 20, 1968. 286.89 T117  
Text also in German.
- 81332 LUKOSERVICIUS, P. P. Dehydration during the curing of cigar tobacco. Lighter 38(1):9-15. Winter 1968. 286.89 C16
- 81333 MILLIGAN, G. The loss of leaf in some Rhodesian tobacco crops. Rhodesian Tobacco J. 20(3): 43,45. Mar. 1968. 69.8 R31  
Statistical survey of yield and losses.
- 81334 SCOTT, W. A. A comparison of burley tobacco produced in Ontario by two different cultural methods. Lighter 38(2):10-16. Spring 1968. 286.89 C16  
Yield, quality, and characteristics.
- 81335 THASITES, B. K. Balkan cooperation in tobacco. (Gre) Kapnike Epitheoresis 22(254):5471-5472, 5487. Jan. 1968. 69.8 K14  
Policies.
- 81336 U. S. CONSUMER AND MARKETING SERV. TOBACCO DIV. Fire-cured and dark air-cured tobacco market review; 1967 crop. Washington, 1968. 68 p. 1.9 Ec714T
- 81337 WALKER, E. K. The flue-cured tobacco industry in Canada. Lighter 38(1):16-41. Winter 1968. 286.89 C16
- 81338 WESTON, T. J. Biochemical characteristics of tobacco leaves during flue-curing. Phytochemistry 7(6):921-930. Ref. June 1968. 450 P5622
- 81339 YAZUDZHIYAN, E. Possibilities of including a maximum percentage of different tobacco types of Macedonian origin in the production of oriental cigarettes. (Bu) Bulg. Tyutyun 8/9: 8-13. 1967. 69.8 B872
- MISCELLANEOUS PRODUCTS**
- 81340 AICHINGER, F. Selected grafts in Lower Austria. (Ge) Winzer 24(1):16-17. Jan. 1968. 95.8 W73  
Directory of vineyards selling grape varieties.
- 81341 BISHOP, L. R. Standardization of analyses for hops. (Ge) Brauwissenschaft 21(4):121-122. Apr. 1968. 390.8 B733
- 81342 BLUMENWERBUNG, GMBH. Report of activity of the business office for the year 1966/67. (Ge) Landesver. Gartenbau Landwirt. Berlin. Mitteilungsbl. 19(1):60-65. Jan. 1968. 85 L233
- 81343 BOTELHO, A. T. Generalities on dried and salted fish. (Por) Conserv. Peixe 22(263):15, 23. Feb. 1968. 389.8 C7692
- 81344 BRAUN, E. Data processing for the florist; the facts about what computer services do for the florist. Florists' Rev. 142(3674):15-16, 39. Apr. 25, 1968. 80 W41
- 81345 CEUSTER, P. DE. Hop extracts; review of the patent literature. (Fl) Int. Tijdschr. Brouwerij Mouterij 27(2):41-46. 1967/68. 390.8 R32Af
- 81346 DYER, W. J., FRASER, D. I., and GREENWELL, M. Thaw drip in frozen American plaice fillets, its seasonal variation and development during storage. Can. Fish. Res. Board J. 25(4):829-833. Ref. Apr. 1968. 442.9 C16J
- 81347 GREEN, J. H. The potential and problems of food harvest from the oceans. J. Milk Food Technol. 30(12):363-368. Dec. 1967. 44.8 J824  
Includes fish irradiation.
- 81348 HAVA, W. Preparing and packing daylilies [Hemerocallis] for shipment. Amer. Hort. Mag. 47(2):261. Spring 1968. 80 N216
- 81349 HAVELKA, B. Changes in microorganisms during the defrosting of tuna meat. (Cz) Veterinarstvi 17(2):73-76. 1967. 41.8 V6439
- 81350 HOWLAND, K. E. Marine oils gaining ground in U.K. market. Foreign Agr. 6(22):5-6. May 27, 1968. A281.9 F76Fo  
Consumption of oils; includes trade.
- 81351 ISEBAERT, L. Inspection of the 1967 hops harvest. (Du) Int. Tijdschr. Brouwerij Mouterij 27(3):76-84. 1967, pub. 1968. 390.8 R32Af
- 81352 LAWSON, C. J., and REES, D. A. Carrageenans. VI. Chem. Soc. J. C, Org. 10:1301-1304. 1968. QD241.C5
- 81353 MEEKER, B. K. How the Dutch bulb industry is changing. Foreign Agr. 6(22):7-10. May 27, 1968. A281.9 F76Fo
- 81354 NICOLAUS, L., and DERWAEL, F. A. Le commerce de detail de fleurs. I. [The retail flower industry. 1.]. Brussels. Inst. Econ. Agr. Cah. I.E.A. 62/R-30, 91 p., map. Ref. Mar. 1967. 281.9 B832
- 81355 PAULSEN, U. Discussion on the EEC hops market regulation. (Ge) Brauwelt 108(24):437-442. Mar. 22, 1968. 390.8 B732
- 81356 REBL, A. Bavaria—Europe's hops country. (Ge) Mitt. Deut. Landwirt.-Ges. 83(19):686-688, map. May 9, 1968. 18 N39
- 81357 SAVAGE, Z. Movement of citrus trees from Florida nurseries, July 1, 1928 to June 30, 1967. Fla. Agr. Exp. Sta. Agr. Econ. Mimeo Rep. EC 68-3, 35 p. Oct. 1967. 281.9 F663
- 81358 SCHILD, E., and WEYH, H. Estimation of hard-resin content in hop analysis. (Ge) Brauwelt 108(23):415-417. Mar. 20, 1968. 390.8 B732  
English summary.
- 81359 VAHL, L. Preparation of an edible protein from fish. (It) Indus. Aliment. 7(2):79-82. Feb. 1968. HD9000.1.152
- 81360 VERKAUFSGENOSSENSCHAFT FUR GARTNERISCHE PRODUKTE ZURICH UND UMGEBUNG. 18. Jahres- und Geschäftsbericht 1967 [18th annual and administrative report 1967]. Zurich, 1968. 62 p. 280.2909 V58  
Ornamental plants and cut flowers.
- 81361 WEYH, H. On the copper content of hops extracts. (Ge) Brauwissenschaft 21(2):56-60. Ref. Feb. 1968. 390.8 B733  
English summary.





## ANIMAL INDUSTRY

References on processing, distribution, economic aspects and statistics of livestock and livestock products are classified with Agricultural Products; references on housing of livestock with Agricultural Engineering.

## BREEDS AND BREEDING

- 81362 ARBIN, TS. Breeding work must begin with grouping of livestock. U. S. Joint Publ. Res. Serv. Transl. Mongolia 153:21-24. Jan.8,1968. (JPRS 43,901) 173 J663Tmo  
Translation from Unen, June 9,1967:2.  
Issued by CFSTI.
- 81363 FEWSON, D. Profitable livestock improvement—possibilities of animal breeding. (Ge) Zuchtungskunde 39(6):408-431. Ref. Nov./Dec. 1967. 49 Z8  
English summary.  
Cattle, swine and poultry.
- 81364 GLEDHILL, B. L. Semen evaluation as a diagnostic aid. Penn. Vet. 10(2):7-9,13. June 1968. 41.8 P38
- 81365 GREENSTEIN, J. S., ed. Current bibliographic index of Mammalian reproduction. V. Int. J. Fert. 13(2):157-158. Apr./June 1968. 442.8 In83  
Includes laboratory animals and domestic animals.
- 81366 IVANOV, G. I. Zootechnical accounting on the artificial insemination stations. (Rus) Uchet. Finansy Kolkhoz. Sovkhoz. 2:8-10. 1968. 30.69 Uč4
- 81367 JOUBERT, D. M. What is the meaning of the term "breed"? Farming S. Afr. 43(10):9,11, 15-16. Jan.1968. 24 S0842  
Livestock.
- 81368 KOZUMPLIK, J. The present state and perspectives of artificial insemination in Czechoslovakia. (Cz) Veterinarstvi 18(2):72-74. 1968. 41.8 V6439
- 81369 MALKOWSKI, J. Problems of animal breeding expansion. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 625:1-14. Feb.13,1968. (JPRS 44,358) 173 J663Ste  
In Poland.  
Translation from Wies Wspolczesna 1:40-50. Jan.1968.  
Issued by CFSTI.
- 81370 MARACAIBO, UNIVERSIDAD DEL ZULIA. FACULTAD DE CIENCIAS VETERINARIAS. Certain observations and problems in animal reproduction in the state of Zulua. (Sp) Rev. Vet. Venezolana 23(136):293-297. Nov.1967. 41.8 R3226  
Artificial insemination.
- 81371 NGUYEN DINH THANH. Spring stockbreeding. Joint Publ. Res. Serv. Transl. N. Vietnam 357:39-41. May 3,1968. DS557.A8J6  
Breeding and care.  
Translation from Nhan Dan, Apr.1,1968:2.  
Issued by CFSTI.
- 81372 NORWAY. LANDBRUKSDEPT. Melding om of-fentlege landbrukstiltak i aret 1965. II. Husdyralet [Report on state agricultural projects in 1965. II. Livestock breeding]. Sarpsborg, 1967. 127 p. 11 C46
- 81373 REISCH, E. Profitable livestock improvement—economic requirements. (Ge) Zuchtungskunde 39(6):385-407. Nov./Dec.1967. 49 Z8  
English summary.  
Cattle, swine and poultry breeding and cost relations.
- 81374 ROB, O. Current possibilities of laboratory control of viability of up to minus 196 degrees of C frozen and for short-term stored semen for use in the insemination stations. (Cz) Veterinarstvi 18(4):175-177. 1968. 41.8 V6439  
Diluted semen.
- 81375 TOLPENKO, G. A. Obtaining immune polyvalent serum for determination of the origin of livestock. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 3:145-147. Ref. Mar.1968. 20 V633
- 81376 VEZNIK, Z. The use of primuline in vital lethal coloring of semen. (Cz) Veterinarstvi 17(2):65-68. 1967. 41.8 V6439

81377

WOZNIAC, K. The contribution to the control of sterility by therapeutic serums. (Pol) Med. Weter. 24(4):224-225. Apr.1968. 41.8 M463

81378

ZAVERTYAEV, B. P. Application of some principles of population genetics in livestock breeding. (Rus) Zhivotnovodstvo 4:60-63. Apr. 1968. 49 Z6

## FEEDS AND FEEDING

81379

ANHEGGER, J. Ensilage of potatoes—and worth the price. (Ge) Kartoffelbau 19(1):15. Jan.1968. 75.8 K145

81380

ANKE, M. Content of major and trace elements in lucerne; red hop clover, and red clover as indicator of mineral supply. (Ge) Arch. Tierernahr. 18(2):121-133. Ref. Mar.1968. 389.78 Ar22  
English summary.  
For ruminants.

81381

BEESPM, W. M. Nutritional significance of selenium. Distill. Feed Res. Council. Conf. Proc. 23:8-14. Ref. Mar.13,1968. 389.79 C765

81382

BOWES, J. H., and RAISTRICK, A. S. The influence of current trends in livestock production on the composition and leather making properties of hides and skins. Amer. Leather Chem. Ass. J. 63(3):192-209. Mar.1968. 303.9 Am32  
Effects of feeding and slaughtering age.

81383

BRAVER, E. DEN, and ERIKSSON, S. Determination of energy in grass hay by in vitro methods. Uppsala. Lanthbrukshogsk. Ann. 33(3):751-765. Ref. 1967. 104 Up6  
Ruminant metabolism study.

81384

CHICCO, C. F. Nutrition and reproduction. (Sp) Rev. Vet. Venezolana 23(136):298-322. Nov.1967. 41.8 R3226  
Review of the literature.

81385

CUTHBERTSON, W. F. J., LAURSEN, A. C., and PRATT, D. A. H. Effect of groundnut meal containing aflatoxin on Cynomolgus monkeys. Brit. J. Nutr. 21(4):893-908. 1967. 389.8 B773

81386

FENDER, M. Examples of practical feeding research in England. (Ge) Kraftfutter 51(2):54-55. (Cont.) Feb.1968. 389.78 K85  
English summary.  
Tests.

81387

GOREMYKIN, V. A., and TISHCHENKO, A. V. Economic effectiveness of livestock feeding. (Rus) Zhivotnovodstvo 3:74-77. Mar.1968. 49 Z6

81388

HALE, W. H., and STITH, L. S. Palatability and nutrient value of cotton silage. Progr. Agr. Ariz. 20(2):8-9. Mar./Apr.1968. 6 P9452

81389

HARTFIEL, W., and MARQUERING, B. Investigations on ensiling with the addition of sugar and the decomposition sucrose marked with <sup>14</sup>C in the course of the process of fermentation. (Ge) Wirtschaftseigene Futter 14(2):102-111. Apr.1968. 389.79 F98  
English summary.

81390

HEALEY, J. S. Water containing algae may be dangerous to stock. Agr. Gaz. New S. Wales 79(3):157-159. Mar.1968. 23 N472

81391

HEMSTROM, M. L. Beet tops as livestock feed. Idaho. Univ. Ext. Idaho. Curr. Inform. Ser. 74.2 p. Apr.1968. 275.29 Id13Idc  
Sugar beets.

81392

JECSAI, MRS. GY. Amino acid composition and biological value of inland-made yeasts. (Hu) Allattenyesztes 17(1):89-93. Ref. Feb.1963. 49 AL57  
English summary.  
As feed.

81393

KLAN, J. Evaluation of some laboratory methods for the control of quality of ensiled feed. (Cz) Veterinarstvi 17(1):26-28. 1967. 41.8 V6439

81394

KNIGHT, R., and YATES, N. G. The in vitro digestibility of parents and hybrids of cocksfoot (Dactylis glomerata L.). Austral. J. Agr. Res. 19(3):373-380. Ref. May 1968. 23 Au783

- 81395 KOVACEVIC, J., CIZEK, J., and KURJAKOVIC, V. Herbaceous plants *Heracleum sphondylium* L. and *Lappa* [i.e. *Articum*] *officinalis* All. as fodder plants. (Se) *Veterinaria* [Sarajevo] 16 (4):551-554. 1967. 41.8 V6494  
English summary.
- 81396 LANDIS, J. Silo processes and their influencing through ensiling techniques. (Ge) *Grüne* 96 (16):549-552. Apr.19,1968. 17 Sch9  
Switzerland.
- 81397 LANTZSCH, H. J. Livestock feeding in England. (Ge) *Krafftutter* 51(1):16,18,20. (Cont.) Jan.1968. 389.78 K85  
English summary.
- 81398 LAWTON, R. M. The value of browse in the dry tropics. *East Afr. Agr. Forest. J.* 33(3):227-230. Jan.1968. 24 Ea74
- 81399 MANSON, E. R. Antibiotics in animal feeds. *Australian Vet. J.* 44(4):169-173. Ref. Apr. 1968. 41.8 Qu72
- 81400 MCDONALD, I. W. Nutritional aspects of protein metabolism in ruminants. *Australian Vet. J.* 44(4):145-150. Ref. Apr.1968. 41.8 Au75
- 81401 MUNCHEN, L. M. Evaluation of protein-rich brewery residues for feeding purposes. (Ge) *Brauwelt* 108(23):406-412. Mar.20,1968. 390.8 B732  
English summary.
- 81402 NAROZNY, J. The role and tolerance of fluorine in the nutrition of livestock. (Cz) *Veterinarství* 18(3):104-108. 1968. 41.8 V6439
- 81403 NESTEROV, V. Examination of herbaceous plants from various areas of Bosnia and Herzegovina as a resource of fodder. III. Herbaceous plants from wood and mountain grassland. (Se) *Veterinaria* [Sarajevo] 16(4):463-472. Ref. 1967. 41.8 V6494  
English summary.  
As forage plants and drug plants.
- 81404 OHYAMA, Y., and MASAKI, S. Studies on various factors affecting silage fermentation. III. Effects of moisture level, consolidation and replacement of gas in the silo on the quality of silage. (Ja) *Jap. J. Zootech. Sci.* 39(4):168-174. Ref. Apr.1968. 49 N62  
English summary.
- 81405 PIANA, G., and PIVA, G. Problems and unknowns in the evaluation of feeds. (It) *Bull. Agr. [Milano]* 102(8):1-4. Apr.30,1968. 16 B87  
Review of research.
- 81406 PODKOWKA, W. Some actual problems of green fodder ensiling. (Pol) *Zeszyty Probl. Postepow Nauk Roln.* 73:21-48. 1967. 20.5 Z5  
English summary.
- 81407 PRINE, G. M. Sorghum silage provides needed stored feed. *Fla. Cattleman Livestock J.* 32 (9):26,28. June 1968. 43.8 F66
- 81408 PROST, E., and BOJARSKI, J. Investigation on clarifying thoughts on the manufacture of animal feeds from slaughterhouse waste. (Ge) *Fleischwirtschaft* 48(4):454-456,458. Ref. Apr. 1968. 280.38 F62  
English summary.  
Dangers of disease transmission.
- 81409 ROCASOLANO, C. Nutritional differences of wheat, barley, and corn, as feed grains. (Sp) *Cultiv. Mod.* 51(2):62-63. Feb.1968. 15 C89
- 81410 RUSSELL, H. M. There's a sting in the tail of a drought. *J. Agr. [Melbourne]* 66(3):72-73. Mar.1968. 23 V66J  
Livestock feeding.
- 81411 SALTA, I., and PITTSCH, S. On the feed quality of wild meadow legumes. (Ge) *Mitt. Deut. Landwirt.-Ges.* 83(8):234-235. Feb.22,1968. 18 N39
- 81412 SCHAADT, H., and JOHNSON, R. R. Effects of maturity, fermentation time, and limestone and urea treatment on D(-) and L(+) lactic acid in corn silage. *J. Dairy Sci.* 51(5):802-805. Ref. May 1968. 44.8 J822
- 81413 SCHLENKER, E. Feed more cheaply—with better silage! (Ge) *Chem. Tech. Landwirt.* 19(5):180. May 1968. 384 C4292  
Preparation.
- 81414 SCHMIDT, W., and WETTERAU, H. Wilting of forage rye for ensiling. (Ge) *Feldwirtschaft* 9 (4):175-177. Apr.1968. 18 W763
- 81415 SMITH, H. W. Anti-microbial drugs in animal feeds. *Nature* 218(5143):728-731. Ref. May 25, 1968. 472 N21
- 81416 STOCKL, W. Importance of amino acids for protein supply. (Ge) *Mühle* 105(5):59-60. Feb.1,1968. 298.8 M89  
In feed.
- 81417 STOCKL, W. Importance of amino acids to protein supply. (Ge) *Mühle* 105(6):75-76. Feb.8,1968. 298.8 M89  
In feed.
- 81418 STUPNIKOV, A. A., and MAMLEEV, S. R. The possibility of feeding livestock with straw, harvested from fields treated with 2,4-D. (Rus) *Zhivotnovodstvo* 2:76-77. Feb.1968. 49 Z6
- 81419 VALFRE, F. Feed additives and sanitary problems; experimental plan for their evaluation in relation to application. (It) *Riv. Zootec.* 41(3):136-143. Mar.1968. 49 R52
- 81420 WEGE, R. Corn-marrows cabbage silage. (Ge) *Mitt. Deut. Landwirt.-Ges.* 83(12):394-395. Mar.21,1968. 18 N39
- 81421 WEISSBACH, F., and others. Studies investigating losses of nutrients and the reduction of feeding values in a bunker silo sealed with different coverings. (Ge) *Arch. Tierernähr* 18(2):135-152. Ref. Mar.1968. 389.78 Ar22  
W. Laube, G. Schadereit, L. Schmidt, and G. Peters, joint authors.  
English summary.
- 81422 WILSON, R. K., and FLYNN, A. V. Digestibility, intake and chemical composition of old meadow hay. *Irish J. Agr. Res.* 7(1):31-36. Ref. Apr.1968. 10.5 Ir45
- 81423 WITT, M. Practicabilities of estimating the fattening capacity and muscle growth capacity in living animals for slaughter. (Ge) *Zuchtungskunde* 39(6):459-475. Ref. Nov./Dec.1967. 49 Z8  
English summary.  
Cattle, swine and sheep.
- 81424 WOLFE, D. C. Silage from fish. *Tasmanian J. Agr.* 39(1):8-12. Feb.1968. 23 T182T

## VETERINARY MEDICINE

- 81425 ALDRICK, S. J. Typing of *Brucella* strains from Australia and Papua-New Guinea received by the regional W.H.O. Brucellosis Centre. *Australian Vet. J.* 44(4):130-133. Ref. Apr.1968. 41.8 Au72
- 81426 ALLEN, T. E., and BLIGH, J. A comparison of the patterns of sweat discharge in several mammalian species. *J. Physiol.* 196(1):36P. May 1968. 447.8 J82
- 81427 ALWAR, V. S. The Commonwealth Veterinary Association; a report of the proceedings of the meetings of the representatives from the Commonwealth countries held at Southport (U.K.) between 19th and 23rd September 1967. *Indian Vet. J.* 44(11):I-XII. Nov.1967. 41.8 In2
- 81428 ARKHANGELSKAYA, L. N. On strengthening of antibacterial effect of biomyacin by urotropin. (Rus) *Veterinariya* 2:78-80. Feb.1968. 48.8 V6426
- 81429 AZIMOV, I. M. Materials on animal dermatomycosis in the Azerbaijan SSR. (Rus) *Veterinariya* 12:39-41. Dec.1967. 41.8 V6423
- 81430 AZIMOV, SH. A., and others. Fascioliasis control in ruminants. (Rus) *Veterinariya* 2:65-66. Feb.1968. 41.8 V6426  
B. S. Salimov, A. N. Nazarov, and D. Ernazarov, joint authors.
- 81431 BACHRACH, H. L., and BREESE, S. S. Cell cultures and pure animal virus in quantity. In Maramorosch, K., and Koprowski, H. *Methods in virology*, v.4, p.351-369. 1968. QR360.M3  
Review of the literature.
- 81432 BAKER, S. The aftermath of foot and mouth. *Kenya Farmer* 139:28. Feb.1968. 24 R812  
Great Britain.



- 81433 BAKULOV, I. A., and KOTLYAROV, V. M. The dependence of leptospirosis spreading on soil type and climate conditions. (Rus) Veterinariya 2:50-52. Feb. 1968. 41.8 V6426
- 81434 BAKULOV, I. A., KOTLYAROV, V. M., and DOMBROVSKIY, V. V. Epizootiology of listerellosis in Moscow region. (Rus) Veterinariya 12:35-39, map. Ref. Dec. 1967. 41.8 V6426
- 81435 BARTIK, M., and ROSTIVAL, I. The present state of laboratory diagnosis of poisoning of ruminants with ammonia and urea. (Cz) Veterinarstvi 18(2):79-83. 1968. 41.8 V6439
- 81436 BARTIK, M., and ROSTIVAL, I. Treatment of poisoning of ruminants caused by ammonia, ammonia salts and urea. (Cz) Veterinarstvi 17(2):52-56. 1967. 41.8 V6439
- 81437 BELJIN, V., and others. Study of hydatidosis in animals; examination of the hydatid liquid composition. I-III. (It) Arch. Vet. Ital. 18(6):437-453. Ref. Dec. 1967. 41.8 Ar25  
S. Maletto, F. Sorisio, P. Ricci, G. Leone, joint authors.  
English summaries.
- 81438 BERNARD, E., GORET, P., and TOMA, B. The treatment of tuberculosis-affected animals, a big mistake and a nuisance. (Fr) Rec. Med. Vet. 144(4):375-387. Ref. Apr. 1968. 41.8 R24  
English summary.
- 81439 BINNERTS, W. T., KLOOSTER, A. T. VAN'T, and FRENS, A. M. Soluble chromium indicator measured by atomic absorption in digestion experiments. Vet. Rec. 82(16):470. Apr. 20, 1968. 41.8 V641
- 81440 BINNERTS, W. T.J., and BOOM, W. G. Quick and sensitive cobalt determination in liver material with atomic absorption. (Du) Tijdschr. Diergeneesk. 93(9):573-578. May 1, 1968. 41.8 T431  
English summary.  
Ruminants.
- 81441 BISCHOFF, J. Reflections on the Salmonella problem. (Ge) Arch. Lebensmittelhyg. 19(4):83. Apr. 1968. 41.8 L49  
Control measures.
- 81442 BIVATI, S. Technical contribution to the histologic knowledge of the basophile granulocytes in normal and pathologic tissues. (It) Nuova Vet. 44(2):117-119. Ref. Mar./Apr. 1968. 41.8 N922  
English summary.
- 81443 BOHAC, J., JERABEK, J., and LADR, J. Casuistic notion on the utilization of Kolar's F allergen in the diagnosis of brucellosis of camels. (Cz) Veterinarstvi 18(5):218-219. 1968. 41.8 V6439
- 81444 BOHUS, L. Hygiene of foodstuffs in Zilina district. (Cz) Veterinarstvi 18(4):146-148. 1968. 41.8 V6439  
Chiefly sanitation of livestock products.
- 81445 BOTARD, R. W., and KELLEY, D. C. Modified Littman oxgall agar to isolate Cryptococcus neoformans. Appl. Microbiol. 16(5):689-690. May 1968. 44.8 Ap5  
Cause of cryptococcosis.
- 81446 BOTTATELLI, F. Points on toxicology: Trifolium. (It) Veterinaria [Milano] 17(2):97-107. Ref. Mar./Apr. 1968. 41.8 V6499  
Various species.
- 81447 BREKLING, C. Objectives of veterinarians. (Da) Danske Dyrægefor. Medlemsbl. 51(8):301-313. Apr. 15, 1968. 41.9 D23  
Discussion, p. 314-320.
- 81448 BRION, A. The transportation of animals by land. (Fr) Revue de l'Elevage 23(3):87-88, 91-92. (Cont.) Mar. 1968. 49 B462  
Disinfection and disease prevention.
- 81449 BROOKSBY, J. B. A worldwide problem. Kenya Dairy Farmer, Mar. 1968:12-13. 44.8 K42  
Foot-and-mouth disease.
- 81450 BRUCE, R. B., NEWMAN, J. H., and PINCHBECK, F. Apparatus for continuous monitoring of  $C^{14}O_2$  from large animals. Int. J. Appl. Radiat. Isotopes 19(4):391-395. Ref. Apr. 1968. 334.8 In84  
Design of a metabolism chamber.
- 81451 BRUHANN, W. Reflections on the development of veterinary legislation in the European communities. (Ge) Arch. Lebensmittelhyg. 19(4):73-78. Ref. Apr. 1968. 41.8 L49  
Includes European Common Market countries.
- 81452 BUSHMANOV, B. S., and RAKHMANOV, A. M. Clinical signs of animal poisoning with zinc phosphide. (Rus) Veterinariya 12:63-64. Dec. 1967. 41.8 V6426
- 81453 CALLIS, J. J., and COTTRAL, G. E. Methods for containment of animal pathogens at the Plum Island Animal Disease Laboratory. In: Maramorosch, K., and Koprowski, H. Methods in virology, v. 4, p. 465-480. 1968. QR360.M3
- 81454 CASTAGNOLI, B., and BELLANI, L. Epizootiology, epidemiology, and control of salmonellosis in cattle, swine and horses. (It) Clinica Vet. 91(3):76-96. Ref. Mar. 1968. 41.8 C61
- 81455 CHERVYAKOV, D. K., and SHITYI, A. G. Use of tranquilizers in animal husbandry. (Rus) Veterinariya 2:76-78. Feb. 1968. 41.8 V6426
- 81456 CHRISTENSEN, H. R. Best way to use a thermometer. Queensland Agr. J. 94(3):191. Mar. 1968. 23 Q33  
Veterinary use.
- 81457 COHEN, G. H., and WILCOX, W. C. Soluble antigens of vaccinia-infected mammalian cells. III. Relation of "early" and "late" proteins to virus structure. J. Virol. 2(5):449-455. Ref. May 1968. QR360.J6
- 81458 COLD Spring Harbor Symposia on Quantitative Biology. Volume XXXII. Antibodies. Cold Spring Harbor, New York, 1967. 619 p. Ref. 442.9 C672C  
Edited by L. Frisch.  
Includes veterinary applications.
- 81459 CORBA, J. The application of Vapona pest strip in the fly control. (Cz) Veterinarstvi 18(4):168-169. 1968. 41.8 V6439  
In livestock housing.
- 81460 DALSGAARD, H. The veterinary profession in the European Common Market. (Da) Danske Dyrægefor. Medlemsbl. 51(9):333-335. May 1, 1968. 41.9 D23
- 81461 DAS, D. N. Cultivation of parasitic stages of Oesophagostomum columbianum (Curtice, 1890) Stossich, 1899 in vitro. Indian Vet. J. 44(12):1036-1044. Ref. Dec. 1967. 41.8 In2
- 81462 DEAR, M. G. Trials of a cardiac drug. Vet. Rec. 81(22):579-580. Nov. 25, 1967. 41.8 V641  
Trimetazidine.
- 81463 DEHORITY, B. A. Mechanism of isolated hemi-cellulose and xylan degradation by cellulolytic rumen bacteria. Appl. Microbiol. 16(5):781-786. Ref. May 1968. 44.8 Ap5  
Bacteroides succinogenes, Ruminococcus flavefaciens and R. albus.
- 81464 DENMARK. VETERINAERE SUNDHEDSRAD. Arsberetning [Annual report of the Veterinary Health Board], 1966. Kobenhavn, 1968. 90 p. 41.9 D412
- 81465 DESSI, P. Interactions between drugs and plasmatic and tissular proteins. I-II. (It) Nuova Vet. 44(1):10-22; (2):63-77. Jan./Apr. 1968. Ref. 41.8 N922  
English summary.
- 81466 DICK, I. Research into nerves from the spine serving the cervix uteri. (Ge) Berliner Münchener Tierärztl. Wochenschr. 80(22):436-437. Nov. 15, 1967. 41.8 B45  
English summary.  
Ruminants.
- 81467 DOLPHIN, R. E. We should think like businessmen. Vet. Econ. 9(6):34-37. June 1968. 41.8 V6458
- 81468 DOSS, M. A., and others. Index-catalogue of medical and veterinary zoology. Subjects: Trematoda and trematode diseases. 7. Supergenera and genera R-S. Washington, 1968. p. 1371-1585. A241.73 Ag3  
K. F. Roach, M. M. Farr, and V. L. Breen, joint authors.

- 81469 DOUGHERTY, E., SEIBOLD, H. R., and PATTY, R. E. Effects of chronic residence on size and size distribution of plaques of type A foot-and-mouth disease virus in primary calf kidney cell cultures. *Amer. J. Vet. Res.* 29(3): 693-701. Ref. Mar.1968. 41.8 Am3A
- 81470 DVORAK, M. Activity of the Research Institute of Veterinary Medicine [Vyzkumny Ustav Veterinarniho Lekarstvi] at Brno. (Cz) *Veterinarstvi* 18(3):134-136. 1968. 41.8 V6439
- 81471 DVORAK, M. Main tasks coordinated by the Research Institute of Veterinary Medicine [Vyzkumny Ustav Veterinarniho Lekarstvi] in Brno. (Cz) *Veterinarstvi* 17(11):510-513. 1967. 41.8 V6439
- 81472 DVORAK, R. The effect of storage on the activity of purified tuberculin. (Cz) *Veterinarstvi* 18(3):111-113. 1968. 41.8 V6439
- 81473 DYK, V., CHROUST, K., and ZAVADIL, R. The economically important parasitoses of livestock, wild and zoo animals. (Cz) *Veterinarstvi* 18(4):158-161. 1968. 41.8 V6439
- 81474 DZEKOV, A. On the passing of law on veterinary service in the Socialist Republic of Macedonia. (Se) *Vet. Glas.* 12(2):81-85. 1968. 41.8 J93
- 81475 ELLINGHAUSEN, H. C. Cultural and biochemical characteristics of a leptospire from frog kidney. *Wildlife Dis. Ass. Bull.* 4(2):41-50. Ref. Apr.1968. 41.9 W64B
- 81476 ENGLISH, P. B. Newer penicillins in veterinary practice. *Australian Vet. J.* 44(4):174-178. Ref. Apr.1968. 41.8 Au72
- 81477 FERENCIK, M. Current views on the regulation of metabolism in cells. (Cz) *Veterinarstvi* 18(5):213-217. 1968. 41.8 V6439
- 81478 FIEDLER, O. G. H. A new biological method for evaluating the efficacy of acaricides against ticks. *S. Afr. Vet. Med. Ass. J.* 39(1): 84-87. Mar.1968. 41.8 So8  
Veterinary research and danger to man.
- 81479 FOMIN, A. I., and ROZUMNYI, P. G. On specific prophylaxis and treatment of trichophytosis. (Rus) *Veterinariya* 12:41-42. Dec.1967. 41.8 V6426
- 81480 FORTNER, J. A life spent in the study of microbiology and animal diseases. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 81(10):189-192. May 15,1968. 41.8 B45  
English summary.
- 81481 FRANCIS, J. The tuberculin-test and the eradication of tuberculosis from Australia. *Australian Vet. J.* 44(5):258. May 1968. 41.8 Au72
- 81482 FRANKOWSKI, M. An attempt on the analysis of some economic problems of the veterinary therapeutics in Warsaw province. (Pol) *Med. Weter.* 24(4):248-250. Apr.1968. 41.8 M463
- 81483 GARCIA FERRERO, J. L., and MANSO RODRIGUEZ, F. Foot-and-mouth disease situation in Europe in 1967. (Sp) *Veterinaria [Madrid]* 23(4):215-223. Apr.1968. 41.8 V6429
- 81484 GESLAIDZE, K. D. Medium for cultivation of *Brucella* organisms. (Rus) *Veterinariya* 12: 107-108. Dec.1967. 41.8 V6426
- 81485 GHOSHAL, N. G., and GETTY, R. A comparative morphological study of the somatic innervation of the antechirium and manus of the domestic animals. *Iowa State J. Sci.* 42(4):283-296. May 1968. 470 Io9
- 81486 GHOSHAL, N. G., and GETTY, R. A comparative morphological study of the somatic innervation of the crus and pes of the domestic animals. *Iowa State J. Sci.* 42(4):297-310. Ref. May 1968. 470 Io9
- 81487 GOETZ, E. F. Fertile field for public relations. *Vet. Econ.* 9(5):28-30. May 1968. 41.8 V6458
- 81488 GONCHAROV, P. I. Veterinary service of Voron region for 50 years of the Soviet State. (Rus) *Veterinariya* 12:10-12. Dec.1967. 41.8 V6426
- 81489 GONCHAROVA, N. I. Morphological changes in the blood of animals poisoned with sevin. (Rus) *Veterinariya* 2:82-83. Feb.1968. 41.8 V6426
- 81490 GRADYUSHKO, G. M. For the fiftieth anniversary of military epizootiology. (Rus) *Veterinariya* 2:48-49. Feb.1968. 41.8 V6426
- 81491 HANSON, M. Foot-and-mouth disease. *Can. Cattlemen* 31(2):13,38. Feb.1968. 49 C16  
Outbreaks.
- 81492 HEALEY, J. S. Livestock health. *Agr. Gaz. New S. Wales* 79(3):175-176. Mar.1968. 23 N472  
Diseases and immunization.
- 81493 HIDIROGLOU, M., and LEPAGE, M. Utilization of valeric acid-1-C<sup>14</sup> and the synthesis of marked lipides by cellulytic rumen bacteria in vitro. (Fr) *Can. J. Biochem.* 45(12):1789-1793. Ref. Dec.1967. 470 C16E
- 81494 HOFFMAN, C. E. Surgery, septic or aseptic. *Kans. Vet.* 24(2):10-16. Mar./Apr.1968. 41.9 K133B
- 81495 HOFFMAN, E. Some practical aspects of hospital management. *Kans. Vet.* 24(2):4,18-32. Mar./Apr.1968. 41.9 K133B
- 81496 HUGHES, W. H. Animals Act gives sweeping powers to combat stock disease hazard. *New Zeal. J. Agr.* 116(5):28-29,31. May 1968. 23 N48J
- 81497 HUGHES, W. H. Stand-by service maintains constant vigilance against animal disease outbreaks. *New Zeal. J. Agr.* 116(5):35. May 1968. 23 N48J
- 81498 HUGUES, P. The forage sorghums: the toxicity of forage sorghums and their consumption in green by livestock. (Fr) *Fourrages* 32:57-95. Dec.1967. 60.8 F82
- 81499 HURST, G. W. Foot-and-mouth disease; the possibility of continental sources of the virus in England in epidemics of October 1967 and several other years. *Vet. Rec.* 82(22):610-614, map. June 1,1968. 41.8 V641
- 81500 JAPAN. CHIKUSANK YOKU, EISEIKA. Veterinary services in Japan. Tokyo, 1967. 46 p., map. SF705.A5
- 81501 JAVED, A. H., and WASHBURN, L. E. Animal hematology in different seasons of the year: hemoglobin and hematocrit changes. *West Pakistan J. Agr. Res.* 6(1):118-122. Ref. Mar. 1968. 22 W52  
Study of rats, sheep, and cattle.
- 81502 JOCKOVIC, M. The Animal Clinic of the Association for Protection of Animals and Plants--the first veterinary clinic (medical and surgical) of the Belgrade University, Veterinary Faculty [Belgrade Univerzitet, Veterinarskog Fakulteta, Stocna Ambulanta]. (Se) *Vet. Glas.* 12(3):217-219. 1968. 41.8 J93
- 81503 JORGENSEN, W. Do the agricultural trends require closer cooperation between adviser and veterinarians? (Da) *Danske Dyrlaegerfor. Medlemsbl.* 51(9):336-342. May 1,1968. 41.9 D23
- 81504 JOUBERT, L. Pseudotuberculosis, a zoonosis with a great future. (Fr) *Rev. Med. Vet. [Toulouse]* 31(4):311-322. Apr.1968. 41.8 R32  
English summary.
- 81505 KADAR, T. The main directives for the development of the Hungarian veterinary service in the new system of economic management. (Hu) *Magyar Allatorv. Lapja* 23(1):2-5. Jan. 1968. 41.8 V644
- 81506 KADZIOŁKA, A. The occurrence and development of animal arteriosclerosis. (Pol) *Med. Weter.* 24(4):193-196. Apr.1968. 41.8 M463
- 81507 KAMAN, J. Advantages and possibilities for the utilization of new types of injection syringes with silicon piston ring. (Cz) *Veterinarstvi* 18(5):224-225. 1968. 41.8 V6439
- 81508 KAMAN, J. On the problem of prompt sharpening of medical knives. (Cz) *Veterinarstvi* 18(4):180-182. 1968. 41.8 V6439
- 81509 KANEMATSU, S. Central nervous control of gonadotropin secretion. (Ja) *Jap. J. Zootech. Sci.* 39(4):143-155. Apr.1968. 49 N62  
Review of the literature.
- 81510 KAPRAL, O. Notes on the operation of veterinary first aid stations. (Cz) *Veterinarstvi* 18(4):185-188. 1968. 41.8 V6439



- 81511 KENNEDY, P. C. Some aspects of bluetongue in the United States. *Australian Vet. J.* 44(4): 191-194, map. Ref. Apr. 1968. 41.8 Au72
- 81512 KIELNEIN, G., and AULENDORF, H. J. Research on a mastitis trial derived from the California mastitis test. (Ge) *Tierarztl. Umsch.* 23(5):203-206, 209-212. Ref. May 1, 1968. 41.8 T445
- 81513 KILLINGER, A. H. Epidemiology and pathogenesis of listeric infections. III. *Vet.* 10(4): 10-11. 1967. 41.8 IL62
- 81514 KLEIHAUER, E., and STOFFLER, G. Embryonic hemoglobins of different animal species. *Mol. Gen. Genet.* 101(1):59-69. Ref. Jan. 19, 1968. 442.8 Z34  
Pig, cattle, and sheep.
- 81515 KLIMMER, O. R. The use of organotin fungicides in agriculture from a toxicological viewpoint. (Ge) *Pflanzenschutzberichte* 37(4/6): 57-66. Ref. Mar. 1968. 464.9 P48  
Chiefly toxicity of residues to animals when used on forage plants.
- 81516 KNAPP, F. W. New developments in fly control for livestock. *Farm Technol.* 24(4):16, 18. Summer 1968. 275.28 N213
- 81517 KOCHLING, H. The physiological effects of fomic acid and its derivatives in veterinary drugs and in feed. (Ge) *Prakt. Tierarzt* 49(5): 212-213. May 1, 1968. 41.8 P882
- 81518 KOLYAKOV, YA. E., KARLIKANOVA, S. N., and SOBENNIKOV, S. F. On antitoxic properties of colostrum. (Rus) *Veterinariya* 2:32-33. Ref. Feb. 1968. 41.8 V6426
- 81519 KOLYCHEV, V. V. Survival of toxoplasma under different environmental conditions. (Rus) *Veterinariya* 12:59-59. Dec. 1967. 41.8 V6426
- 81520 KOUDELA, K. The importance of tumors in fattened livestock. II. (Cz) *Veterinarstvi* 17(2):68-70. 1967. 41.8 V6439
- 81521 KOZUMPLIK, J., and VLCEK, Z. Evaluation of necessity and results of cesarean section performed on swine, small ruminants and carnivora. (Cz) *Veterinarstvi* 17(2):62-65. 1967. 41.8 V6439
- 81522 KREEK, F. W. VAN DER. The vaponastrip. (Du) *Tijdschr. Diergeneesk.* 93(8):498-507. Ref. Apr. 15, 1968. 41.8 T431  
English summary.  
Toxicity to livestock and man.
- 81523 KURILOV, N. V. Investigations of digestion processes in farm animals. (Rus) *Vestnik Sel'skokhoz. Nauk. [Moscow]* 3:130-137. Mar. 1968. 20 V633  
English summary.
- 81524 KUZMIN, N. A. Detection of anthrax causative agent in fodder by fluorescent antibody method. (Rus) *Veterinariya* 2:111-114. Feb. 1968. 41.8 V6426  
*Bacillus anthracis.*
- 81525 LA ROY, Y. DE R. DE, and VARGUES, R. Study of the kinetics of the complement fixation reaction in brucellosis. (Fr) *Paris. Soc. Biol. Compt. Rend.* 161(6):1444-1447. 1967. 442.9 P21
- 81526 LIEBERMANN, H. On the effect of ultraviolet light on viruses. (Ge) *Arch. Exp. Veterinarmed.* 21(4):1015-1022. Ref. 1967. 41.8 Ex7  
English summary.  
In relation to livestock virus diseases.
- 81527 LIENERT, E., and JAHN, F. Investigations on action mechanism of trematocides. III. As for electron attracting substitutes appointed aliphatic hydrocarbons, carbon tetrachloride, hexachloroethane and trifluorochlorobromoethane [Halothane] acting as electron acceptors. (Ge) *Wien. Tierarztl. Monatsschr.* 55(3):165-174. Ref. Mar. 1968. 41.8 T345  
English summary.
- 81528 LUCENA SOLA, J. Satisfaction. (Sp) *Col. Ofic. Vet. Prov. Barcelona. An.* 24(282):658. Dec. 1967. 41.9 C67  
The veterinary profession.
- 81529 LUTYNSKI, W. The duties of the veterinary service in the light of new principles concerning the railway transportation of animals. (Pol) *Med. Weter.* 24(4):245-248. Apr. 1968. 41.8 M463
- 81530 MAHLAU, E. A. Further brucellosis surveys in Tanzania. *Bull. Epizoot. Dis. Afr.* 15(4):373-378, map. Dec. 1967. 41.8 B872  
Cattle, goats, and sheep.
- 81531 MALNIN, O. A. The effect of small doses of sevin on animal organism. (Rus) *Veterinariya* 12:66-68. Dec. 1967. 41.8 V6426
- 81532 MALYNICZ, G. The problem of world hunger. *Vet. Rec.* 82(19):555-556. Ref. May 11, 1968. 41.8 V641  
In relation to livestock losses due to disease.
- 81533 MANCHEE, R. J., and TAYLOR-ROBINSON, D. Haemadsorption and haemagglutination by Mycoplasmas. *J. Gen. Microbiol.* 50(3):465-478. Ref. Mar. 1968. 448.3 J823  
Includes *Mycoplasma gallisepticum*, *M. agalactiae*, and *M. bovis genitalium*.
- 81534 MARJANOVIC, D., and JOVANOVIC, M. J. Activity of transaminases in blood serum of some domestic animals. (Se) *Vet. Glas.* 12(2):105-109. Ref. 1968. 41.8 J93  
English summary.
- 81535 MARKOV, A. I. Accounting of medicaments and biopreparations. (Rus) *Uchet. Finansy Kolkhoz. Sovkhoz.* 3:22-23. 1968. 30.69 Uc4  
Veterinary drugs on the farms.
- 81536 MARTENS, E. Meat inspection regulatory evaluation of slaughter animals diagnosed with *Salmonella* infection. (Ge) *Arch. Lebensmittelhyg.* 19(4):80-82. Ref. Apr. 1968. 41.8 L49
- 81537 MAS SOLANES, R. DE. The danger of forage sorghum because of its hydrocyanic acid content. (Sp) *Cultiv. Mod.* 41(3):38. Mar. 1968. 15 C89
- 81538 MASEK, J., and HAIS, K. Air pollution and partial preventive measures for the reduction of its effects in the livestock production. (Cz) *Veterinarstvi* 17(1):32-33. 1967. 41.8 V6439
- 81539 MATHISEN, C. S. A survey of phage types and fermentation types of *Salmonella typhimurium* isolated in Norway from 1947 to 1966. (No) *Nord. Vet. Med.* 20(4):223-232. Ref. Apr. 1968. 41.8 N813  
English summary.  
From animals, feed and man.
- 81540 MATYAS, Z., KRAL, E., and HOLEC, J. Planning the number of veterinarians necessary for veterinary sanitary inspection of slaughterhouses. (Cz) *Veterinarstvi* 17(1):5-9. 1967. 41.8 V6439
- 81541 MAURANGES, P. The presence of *Brucella abortus* suis in the atmosphere of slaughterhouses. (Fr) *Econ. Med. Anim.* 9(2):105-106. Mar./Apr. 1968. 41.8 Ec7  
Transmission to man.
- 81542 MCINTOSH, K. S. Australian veterinarians help fight foot-and-mouth disease in Britain. *Australian Vet. J.* 44(3):115-116. Mar. 1968. 41.8 Au72
- 81543 MEHNERT, E. A method of quantitative determination of nitrate and nitrite in fodder, drinking water, and stomach contents. (Ge) *Arch. Exp. Veterinarmed.* 21(5):1191-1194. 1967. 41.8 Ex7  
English summary.
- 81544 MELNIKOV, V. Cleanliness on farms is pledge of animals' health. (Rus) *Veterinariya* 12:18-20. Dec. 1967. 41.8 V6426
- 81545 MERKT, H. The veterinary profession in the European Economic Community. *Vet. Rec.* 81(22):554, 555-559. Nov. 25, 1967. 41.8 V641  
Includes discussion.  
Rules for practice.
- 81546 MILCZEWSKI, K. E. VON. Studies on the relation of composition of vaccines immunizing ability of adsorbed *Brucella* vaccines. (Ge) *Kieler Milchwirtsch. Forschungsber.* 20(1): 43-90. Second Q. 1968. 44.9 K542  
Review of the Literature.  
English summary.

- 81547 MORGAN, H. C., and ELLINGTON, L. Blood urea nitrogen. *Vet. Med./Small Anim. Clin.* 62(12):1182,1184-1185,1188-1192. Dec.1967. 41.8 M69  
Includes the use of various tests.
- 81548 MORTIMER, P. H., and COLLINS, B. S. The in vitro toxicity of the sporidesmins and related compounds to tissue-culture cells. *Res. Vet. Sci.* 9(2):136-142. Ref. Mar.1968. 41.8 R312  
Metabolites of the facial eczema-producing fungus *Pithomyces chartarum*.  
MUSSGAY, M. The tumor problem from the point of view of the virologist. (Ge) *Deut. Vet. Ges. Ber.* 7th Congr.:7-14. Ref. 1968. 41.9 D482  
English summary.
- 81550 NAGINGTON, J. The growth of paravaccinia viruses in tissue culture. *Vet. Rec.* 82(17):477-482. Ref. Apr.27,1968. 41.8 V641
- 81551 NAGY, G., and ZALAY, L. The examination of antibiotic and chemotherapeutic sensitivity of *Brucella* strains by means human-biotest disc. (Hu) *Magyar Allatorv. Lapja* 23(1):36-38. Ref. Jan.1968. 41.8 V644  
English summary.
- 81552 NEILAND, K. A., and others. The diseases and parasites of Alaskan wildlife populations. I. Some observations on brucellosis in caribou. *Wildlife Dis. Ass. Bull.* 4(2):27-36, map. Ref. Apr.1968. 41.9 W64B  
J. A. King, B. E. Huntley, and R. O. Skoog, joint authors.
- 81553 NEJEZCHLEBA, J. Is the compilation of case history in veterinary service necessary? (Cz) *Veterinarstvi* 18(5):229-232. 1968. 41.8 V6439
- 81554 NEVJESTIC, A., RUKAVINA, L., and FORSEK, Z. Inactivation of microorganisms of the genus *Miyagawanella* with chemical means of chloramine group (Halamid). (Se) *Vet. Glas.* 12(2):87-91. 1968. 41.8 J93
- 81555 NIKOL'SKII, N. M., and others. From the history of medical-veterinary services of Red Army. (Rus) *Veterinariya* 2:24-30. Feb.1968. 41.8 V6426  
A. A. Petukhovskii, V. Zubko, B. P. Satsyuk, and N. F. Shuklin, joint authors.
- 81556 NOVOTNY, E. On the establishment of the School of Veterinary Medicine [Vysoka Skola Zverolekarska] at Brno. (Cz) *Veterinarstvi* 18(5):225-227. 1968. 41.8 V6439
- 81557 OGAMBO-ONGOMA, A. H., and CANARIS, A. G. A guide to helminth species described from African vertebrates. Morgantown, West Virginia University Library, 1967. 207 p. QL757.O33  
Bibliography, p.184-207.  
Includes livestock.
- 81558 OLSEN, O. W. Animal parasites: their biology and life cycles. Ed. 2. Minneapolis, Burgess Publishing Company, 1967. 431 p. Ref. QL757.O4 1967
- 81559 OTTE, E., and KOLBL, O. Salmonellae findings in investigation materials in the Bacteriology and Animal Hygiene Institute [Institut für Bakteriologie und Tierhygiene] in 1954-1966. (Ge) *Wien. Tierarztl. Monatsschr.* 54(12):843-847. Ref. 1967. 41.8 T345  
English summary.  
Includes domestic animals.
- 81560 OWSIEJCZUK, W. Contribution to taking and sending samples of biological material for toxicological investigations. (Pol) *Med. Weter.* 24(4):243-244. Apr.1968. 41.8 M463
- 81561 OZDZYNSKA, E., and KAFEL, S. Investigation on the correlation between the production of coagulase and lipase in staphylococci. (Pol) *Med. Weter.* 24(4):225-227. Ref. Apr.1968. 41.8 M463  
English summary.
- 81562 PARNAS, J., and others. Infrared spectrophotometric and immunochemical examinations of *Brucella*, *Klebsiella*, *Listeria*, *Erysipelothrix*, and *Leptospira* species. (Ge) *Arch. Exp. Veterinarmed.* 21(4):867-880. Ref. 1967. 41.8 Ex7  
Z. Hencner, S. Poplawski, E. Pleszczynska, and M. Cybulska, joint authors.  
English summary.
- 81563 PATYRA, W. Investigation on the occurrence of trichomoniasis in the district of Lublin. (Pol) *Med. Weter.* 24(4):238-239. Apr.1968. 41.8 M463
- 81564 PAVEL, J., and TYLECEK, J. The activity of free amylase, urease and transaminase in liquid phase of rumen and duodenal content of ruminants fed with synthetic feeds. (Cz) *Czech. Min. Zemed. Les. Hospodar. Ustav Vedecko-tech. Inform. Zivocisna Vyroba* 41(1):63-70. Ref. Jan.1968. 49.9 C33  
English summary.
- 81565 PAVLOVIC, R., and RAJIC, T. The need and the possibility for organized work in education in veterinary science. U. S. Joint Publ. Res. Serv. Transl. East Europe, Agr. Forest. Food Indus. 626:1-5. Feb.15,1968. (JPRS 44,393) 173 J663Ste  
In Yugoslavia.  
Translation from *Veterinarski Glasnik*, Feb.1, 1968:61-63.  
Issued by CFSTI.
- 81566 PAVLOVIC, R., and RAJIC, I. On the need and possibility for more organized work in the field of veterinary public relations. (Se) *Vet. Glas.* 22(1):61-63. Jan.1968. 41.8 J93
- 81567 PENIONZHKO, A. M. Military-veterinary services of the Armed Forces for 50 years. (Rus) *Veterinariya* 2:2-4. Feb.1968. 41.8 V6426
- 81568 PETROVA, E. V., and ARESTOV, I. G. The action of chlorofos on heart and vascular system. (Rus) *Veterinariya* 2:83-84. Feb.1968. 41.8 V6426
- 81569 PIRES, A. Livestock diseases in Latin America and their economic repercussions. (Sp) In *Inter-American Institute of Agricultural Sciences. Las ciencias agricolas en America Latina*, p.205-216. Ref. 1967. S493.I5
- 81570 PLANT, J. W. Hydatid disease, a danger to human health. *Agr. Gaz. New S. Wales* 78(11):642-646. Nov.1967. 23 N472
- 81571 POLYAKOV, A. A., and NAURYZBAEV, I. Veterinary and sanitary measures in a foot-and-mouth disease area. (Rus) *Vestnik Sel'skokhoz. Nauk. [Moscow]* 2:98-102. Feb.1968. 20 V633  
English summary.
- 81572 POTEL, J. Listeriosis with particular reference to epidemiology. (Ge) *Fleischwirtschaft* 48(3):301-306. Ref. Mar.1968. 280.38 F62  
English summary.  
In animals and man.
- 81573 PRESNOV, I. N. Variability of *Bacillus anthracis* in natural conditions. 11 p. (JPRS 37,689; TT 66-34117) Transl. 16286  
Translation from *Veterinariya* 7:25-29. July 1966.  
Issued by CFSTI.
- 81574 PROKUPEK, K. The application of antibiotics in agriculture in relation to the inception of bacterial resistance. (Cz) *Veterinarstvi* 18(4):145-146. 1968. 41.8 V6439  
In feed.
- 81575 PURSELL, R. T. Professional business insurance in veterinary practice. *Australian Vet. J.* 44(4):166-168. Apr.1968. 41.8 Au72
- 81576 PUSIC, I. How much do veterinarians follow home technical and scientific literature. (Se) *Vet. Glas.* 12(2):135-136. 1968. 41.8 J93
- 81577 PYRIKOVA, A. P., and others. Antivirus effect of interferon in tissue culture. (Rus) *Veterinariya* 12:25-27. Dec.1967. 41.8 V6426  
L. S. Yakovleva, N. I. Korabelnikova, T. I. Balezina, and L. L. Fadeeva, joint authors.
- 81578 RAPIC, S. A contribution to the study of veterinary medicine of Soviet Union. (Se) *Vet. Arh.* 37(1/12):335-349. Ref. 1967. 41.8 V6416  
English summary.
- 81579 REA, T., and others. Screwworm eradication reduced to a barrier program. *Progr. Agr. Ariz.* 20(2):10-11. Mar./Apr.1968. 6 P9452  
L. N. Butler, J. R. Tweed, and F. Smith, joint authors.  
Livestock pest, *Cochliomyia hominivorax*; co-operation with Mexico.



- 81580 RIECK, W. Veterinary College [Tierärztliche Hochschule] of Vienna is 200 years old. (Ge) Prakt. Tierarzt 49(5):211. May 1, 1968. 41.8 P882
- 81581 ROBERTS, R. J. Biochemical reactions of *Corynebacterium pyogenes*. J. Pathol. Bacteriol. 95(1):127-130. Ref. Jan. 1968. 44.8 J82  
Isolated from cattle, sheep and swine.
- 81582 ROMANO, J. Distinguished veterinarians in Serbia up to World War I. (Se) Vet. Glas. 12 (2):127-133. 1968. 41.8 J93
- 81583 ROMANO, J. Distinguished veterinarians in Serbia up to the World War II. (Se) Vet. Glas. 12(3):209-215. 1968. 41.8 J93
- 81584 ROMMEL, M., and BREUNING, J. Research into the occurrence of *Toxoplasma gondii* in the milk of some animals and the possibility of lactogenous infection. (Ge) Berliner Münchener Tierarztl. Wochenschr. 80(19):365-369. Ref. Oct. 1, 1967. 41.8 B45  
English summary.
- 81585 ROUMIANTZEFF, M., STELLMANN, C., and DUBOUCARD, C. Techniques of quantitative complement fixation applied to the study of the foot and mouth disease virus. 14 p. Ref. Transl. 16739  
Translation from Lyon. Societe des Sciences Veterinaires et Medicale Comparee, 1965.
- 81586 RYSAVY, B., MITTERPAK, J., and ZAJICEK, D. Pasture parasitosis in Cuba. (Cz) Veterinarstvi 18(3):132-134. 1968. 41.8 V6439
- 81587 SANZ, F., MORAL, A., and JURADO, R. Present tendencies in the administration of nematocides. (Sp) Col. Ofic. Vet. Prov. Barcelona. An. 24(281):609-632. Nov. 1967. 41.9 C67
- 81588 SARKISOV, A. KH., and others. Veterinary polymyxin and its use for treatment of young animals infectious diseases. (Rus) Veterinariya 12:60-62. Dec. 1967. 41.8 V6426  
V. I. Ezhov, A. Kh. Djilavay, V. V. Arepiev, and S. V. Petrovich, joint authors.
- 81589 SAWHNEY, A. N., and SAXENA, S. P. Leptospirosis infections in domestic animals and man in the state of Madhya Pradesh, incidence in sheep, dogs and pigs. (a serological study). Indian Vet. J. 44(12):1008-1015. Ref. Dec. 1967. 41.8 In2
- 81590 SCHEIDY, S. F. Industry's role in international agriculture. Vet. Econ. 9(5):52, 56, 60. May 1968. 41.8 V6458  
Biological products industry and its role in livestock diseases control.
- 81591 SCHNEIDER, L. G., and LUDWIG, H. Laboratory diagnosis of rabies with special emphasis on Coons' fluorescent antibody technique. (Ge) Wien. Tierarztl. Monatsschr. 55(3):133-148. Ref. Mar. 1968. 41.8 T345  
English summary.
- 81592 SEMENOVYKH, N. E. Supplies for veterinary and zootechnical purposes and the prospects. (Rus) Veterinariya 12:21-24. Dec. 1967. 41.8 V6426
- 81593 SERGEEVA, N. Quantitative changes in blood, marrow and internal organs of cattle with age. (Rus) Myasnaya Indus. SSSR. 3:30-32. 1968. 50.8 M58
- 81594 SERRANO TOME, V. Veterinary medicine and its masters. XXVI. John Gamgee or tenacity conquers. (Sp) Veterinaria [Madrid] 33(3):141-144. (Concl.) Mar. 1968. 41.8 V6429
- 81595 SERRANO TOME, V. Veterinary medicine and its masters. XXVII. (Sp) Veterinaria [Madrid] 23(4):225-227. Apr. 1968. 41.8 V6429
- 81596 SEVINC, A. The reproductive hormones. (Tu) Ankara. Lalahan Zooteh. Arastirma Enstitusu. Dergisi 7(4):148-159. Ref. Dec. 1967. 49.9 An6  
English summary.  
Gonadotropins and gonadal hormones in animals.
- 81597 SHCHITS, L. A., and SAFRONOVA, N. A. On stabilization of anthelmintic suspensions. (Rus) Veterinariya 12:56-58. Dec. 1967. 41.8 V6426
- 81598 SHEVTSOV, A. A. Visit of academician K. I. Skryabin to the students of Kiev. (Rus) Veterinariya 12:7-9. Dec. 1967. 41.8 V6426  
Includes biographical data.
- 81599 SHIPLEY, W. Report on rabies. Kans. Vet. 24 (2):6, 8. Mar./Apr. 1968. 41.9 K133B  
Immunization procedures.
- 81600 SHIROKOV, I. M., and LEVTSOV, V. N. Control of non-infectious diseases of animals in Kirgizia. (Rus) Veterinariya 2:90-92. Feb. 1968. 41.8 V6426
- 81601 SINGH, G., and LALL, J. M. Trace elements in the nutrition of *Mycobacterium johnnei*. Indian Vet. J. 44(11):909-913. Nov. 1967. 41.8 In2  
Used in culture media.
- 81602 SOLIMAN, M. K., and SHAKER, M. Cytological and biochemical studies on the blood of adult she camels. Indian Vet. J. 44(12):989-995. Dec. 1967. 41.8 In2
- 81603 SONDA, G. P. The seriousness of *Brucella* infection as reflected in human health. (It) Veterinaria [Milano] 17(2):108-111. Mar./Apr. 1968. 41.8 V6499
- 81604 SOUTH AFRICAN VETERINARY MEDICAL ASSOCIATION. Resume of unpublished papers presented to the 62nd conference held in Durban, 1967. S. Afr. Vet. Med. Ass. J. 39(1):121-123. Mar. 1968. 41.8 So8
- 81605 STALHEIM, O. H. What has happened to veterinary medicine? Vet. Econ. 9(5):23-24. May 1968. 41.8 V6458
- 81606 STALHEIM, O. H. V. Biological effects of leptospiral lipids. J. Bacteriol. 95(2):465-468. Ref. Feb. 1968. 44.8 J82  
*Leptospira pomona*.
- 81607 STEELE, J. H. Wasted resources. Vet. Econ. 9(5):61, 64-67, 69, 71. May 1968. 41.8 V6458  
Losses in livestock as the result of zoonoses in developing countries.
- 81608 STELLMACHER, W. Testing the activity of fine disinfectants against bacteria. (Ge) Arch. Exp. Veterinarmed. 21(4):895-920. 1967. 41.8 Ex7  
English summary.
- 81609 STICHTING GEZONDHEIDSDIENST VOOR DIEREN IN ZUID-HOLLAND. Eentwintigste jaarverslag [Twenty first annual report of the Livestock Health Board in South Holland]. 1966/1967. 's-Gravenhage, 1967. 75 p. 41.9 H71
- 81610 STIPAC, M. Some problems of and measures for advancing the veterinary service of the SR Bosnia and Herzegovina. (Se) Veterinaria [Sarajevo] 16(4):433-451. 1967. 41.8 V6494  
English summary.
- 81611 SUBBOTIN, N. F. The efficiency of immunological reactions in trichinosis diagnosis. (Rus) Veterinariya 2:66-68. Feb. 1968. 41.8 V6426
- 81612 SUTHERLAND, J. A. Understanding farm animals; an introduction to the science of animal production. Melbourne, Angus and Robertson, 1967. 233 p. SF75.S9  
Chiefly physiology and anatomy.
- 81613 SVERIGES VETERINARFORBUND. Report of the Swedish Veterinary Association for the year 1967. (Sw) Svensk Veterinartidn. 20(8):223-230. Apr. 1968. 41.9 Sv23
- 81614 SVOBODA, O. The democratization of the veterinary services, the science and the education. (Cz) Veterinarstvi 18(5):193-194. 1968. 41.8 V6439
- 81615 SWIETLIKOWSKI, M. Thiabendazole—the new drug used against parasitic nematodes of domestic animals. (Pol) Med. Weter. 24(4):221-223. Ref. Apr. 1968. 41.8 M463
- 81616 SYMPOSIUM ON WILD LIFE. [Papers.], I-II. Vet. Rec. 82(11):298-318. Ref. Mar. 1968. 41.8 V641  
The natural history of zoonoses, by R. N. T-W-Fiennes; II, Possible use of wild animals as future sources of food in Africa, by M. A. Crawford.  
Includes discussion.

- 81617 TAMAS, L., and KOVACS, J. Data on the toxicity of stabilizers used in the transfusion therapy. (Hu) Magyar Allatrov. Lapja 23(1):33-35. Ref. Jan.1968. 41.8 V644  
English summary.  
Sodium citrate and sodium salicylate.
- 81618 TARCHALSKA, H. Pharmaceuticals for farm animals. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 624:40-49. Feb.8,1968. (JPRS 44,287) 173 J663Ste  
In Poland.  
Translation from Nowe Rolnictwo 16(22):1-3. Nov.1967.  
Issued by CFSTI.
- 81619 TEXAS. DEPT. OF HEALTH. VETERINARY PUBLIC HEALTH SECT. Texas rabies surveillance-1967. Tex. Vet. Med. J. 30(3):16-17. May/June 1968. 41.8 T31
- 81620 THILLEROT. The battle against food-and-mouth disease in France and other countries. (Fr) Tech. Lait. 584:13-14, map. Mar.1,1968. 44.8 Of2  
Europe.
- 81621 THRUDIC, V. Control and eradication of animal infections in army in contemporary war. (Se) Vet. Glas. 12(3):153-158. 1968. 41.8 J93
- 81622 TITERA, P., KOUDELA, K., and ROBES, B. Analysis of principal results of veterinary inspection of fattened livestock and meat in Czechoslovakia for 1965. (Cz) Veterinarstvi 17(2):49-52. 1967. 41.8 V6439
- 81623 TOPOLNKA, E. The role of virus in the etiology of tumors. (Se) Vet. Arh. 37(11/12):375-379. Ref. 1967. 41.8 V6416  
English summary.  
In animals.
- 81624 TRAN-VAN-HA. Prevention and treatment of livestock diseases. Joint Publ. Res. Serv. Transl. N. Vietnam 369:46-48. May 17,1968. (JPRS 45,419) DS557.A7J6  
Translation from Nhan Dan, Apr.8:1968:2.  
Issued by CFSTI.
- 81625 TRET'YAKOV, A. D. The basic law of veterinary service. (Rus) Veterinariya 2:5-10. Feb. 1968. 41.8 V6426
- 81626 TRINH-VAN-THINH. Mass line in livestock disease prevention. Joint Publ. Res. Serv. Transl. N. Vietnam 363:41-49. May 10,1968. (JPRS 45,318) DS557.A7J6  
Translation from Khoa Hoc Ky Thuat Nong Nghiep, Dec.1967:469-473.  
Issued by CFSTI.
- 81627 TRISHKINA, E. T. Biological characteristics of Salmonella organisms resistant to antibiotics. (Rus) Veterinariya 2:35-37. Feb.1968. 41.8 V6426
- 81628 U. S. AGRICULTURAL RESEARCH SERV. ANIMAL DISEASE AND PARASITE RESEARCH DIV. Index-catalogue of medical and veterinary zoology. Supplement 17, part 1. Authors: A to Z, by D. B. Segal, J. M. Humphrey, S. J. Edwards, and M. D. Kirby. Washington, 1968. 452 p. 1 An5Ind
- 81629 ULBRICH, F. On regularities in the occurrence of rabies in Dresden county. (Ge) Arch. Exp. Veterinarmed. 21(4):1073-1085, map. Ref. 1967. 41.8 Ex7  
English summary.
- 81630 VANDE WOUDE, G. F., and BACHRACH, H. L. Evidence for a single structural polypeptide in foot-and-mouth disease virus. Arch. Gesamte Virusforsch. 23(4):353-361. Ref. 1968. 448.3 Ar23
- 81631 VASAK, V. On the activity of Czechoslovak veterinary expedition to People's Republic Mongolia. (Cz) Veterinarstvi 18(4):182-185. 1968. 41.8 V6439  
Treatment and control of livestock diseases.
- 81632 VASCU, I., CRISTEA, I., and DUNEA, V. Dilator designed for thoracotomy and laparotomy of small animals. (Ge) Wien. Tierarztl. Monatsschr. 55(3):177-180. Mar.1968. 41.8 T345  
English summary.
- 81633 VIDAL, G. The immune precipitation in agar gel. (Fr) Rev. Vet. Med. [Toulouse] 31(1):45-67. Jan.1968. 41.8 R32  
English summary.
- 81634 VIDEAU, D. Penetration, habitat and effects of antibiotics on bacteria. (Fr) Cah. Med. Vet. 37(1):3-18. Ref. Jan./Feb.1968. 41.8 C11
- 81635 VILLA, G. C. DE LA. Viruses of cancer in animals and man. II. Oncogenic viruses of the deoxyribonucleic acid. (Sp) Rev. Vet. Venezolana 24(140):151-193. Ref. Mar.1968. 41.8 R3226
- 81636 VOLKOV, G. D., ELISEEV, V. S., and KORENKOV, I. P. On protection from injuries caused by radiation of beta sources. (Rus) Veterinariya 2:115-116. Feb.1968. 41.8 V6426  
Veterinary personnel.
- 81637 VRTIAK, O. J. Topical questions concerning virus zoonosis. (Cz) Veterinarstvi 17(11):492-495. 1967. 41.8 V6439
- 81638 WAGNER, R. R., LEVY, A. H., and SMITH, T. J. Techniques for the study of interferons in animal virus-cell systems. In Maramorosch, K., and Koprowski, H. Methods in virology, v.4, p.1-52. 1968. QR360.M3  
Review of the literature.
- 81639 WALTON, J. R. Infectious drug resistance. Vet. Rec. 82(16):448-457. Ref. Apr.20,1968. 41.8 V641  
Chiefly bacterial resistance to antibiotics.  
Includes discussion.
- 81640 WARD, T. G. Methods of storage and preservation of animal viruses. In Maramorosch, K., and Koprowski, H. Methods in virology, v.4, p.481-489. 1968. QR350.M3  
Review of the literature.
- 81641 WATTS, H. A. What we learned about incorporating a practice. Vet. Econ. 9(6):26-30. June 1968. 41.8 V6458
- 81642 WAWRZKIEWICZ, K. Modern views on the pathogenesis of candidiasis. II. The role of other etiological factors. (Pol) Med. Weter. 24(4):205-207. Ref. Apr.1968. 41.8 M463
- 81643 WEHNER, W. Reflections to the foundation of the Veterinary College in Vienna, Dec.1, 1767. (Ge) Tierarztl. Umsch. 23(5):239-240. May 1, 1968. 41.8 T445  
Tierärztliche Hochschule.
- 81644 WETZLER, T. F., and others. Biological characterization of Listeria monocytogenes. Health Lab. Sci. 5(1):46-62. Ref. Jan.1968. 449.8 H343  
N. R. Freeman, M. L. French, L. A. Renkowski, W. C. Eveland, and O. J. Carver, joint authors.  
Includes strains isolated from cattle, dogs, and sheep.
- 81645 WINKLER, W. G. Airborne rabies virus isolation. Wildlife Dis. Ass. Bull. 4(2):37-40. Apr. 1968. 41.9 W64B  
Studies of the disease transmission.
- 81646 WOOD, W. A. Fluorescence reactions of progesterone. Steroids 11(3):347-350. Mar. 1968. 381 St4
- 81647 YOUSSEF, F. C., and ALLEN, D. M. Rapid method for the determination of steam-volatile fatty acids in rumen liquor. J. Sci. Food Agr. 19(4):177. Apr.1968. 382 So12
- 81648 ZAKOPAL, J. Methods of mass investigation of internal non-infectious diseases of livestock on big farms and prospective tasks of the sector of veterinary medicine for internal diseases. (Cz) Veterinarstvi 18(5):209-212. Ref. 1968. 41.8 V6439
- 81649 ZWART, D., and others. The difference between B. [Babesia] bigemina and a Dutch strain of B. major. (Du) Tijdschr. Diergeneesk. 93(3):126-140. Ref. Feb.1,1968. 41.8 T431  
M. C. van den Ende, B. Kouwenhoven, and J. Buys, joint authors.  
English summary.



## MISCELLANEOUS

- 81650 AMERICAN SOCIETY OF ANIMAL SCIENCE. Proceedings of the 59th annual national meeting. J. Anim. Sci. 26(6):1501-1542. Nov.1967. 49 J82
- 81651 AMERICAN SOCIETY OF ANIMAL SCIENCE. MIDWESTERN SECT. Abstracts of papers to be presented at the meeting of November 24 and 25, 1967, Chicago, Illinois. J. Anim. Sci. 26(6):1463-1500. Nov.1967. 49 J82
- 81652 ANIMAL HEALTH TRUST (GREAT BRITAIN). FARM LIVESTOCK RESEARCH CENTER (STOCK). A report for the year 1966/67; research and investigation. Anim. Health 7: 11-17. Mar.1968. 41.8 An52
- 81653 ANIMAL HEALTH TRUST (GREAT BRITAIN). SMALL ANIMALS CENTRE (KENNETT). A report for the year 1966/67; research and investigation. Anim. Health 7:18-24. Mar.1968. 41.8 An52
- 81654 BENAZZI, P., and DORIGO, L. Slaughtering establishments and meat laboratories in the district of Cremona. (It) Vet. Ital. 19(3):151-160. Mar.1968. 41.8 C87
- 81655 BOGOLYUBSKII, S. N. Developmental regularities of domestication characters in animals. (Rus) Zhur. Obsch. Biol. 29(1):57-67. Jan./Feb.1968. 442.8 Z6  
English summary.
- 81656 CHEBYSHEV, M. V. Outlook for development of maral industry in Kazakhstan. (Rus) Zhivotnovodstvo 4:26-27. Apr.1968. 49 Z6
- 81657 DE SIMONE, V. Conferences on zootechny, animal nutrition, hunting and fishing. (It) Agricoltura 17(1):113-124. Jan.1968. 16 Ag8226  
English summary, p.9.
- 81658 GEILHAUSEN, H. Bones and antler used as material for implements and tools in pre- and early history. (Ge) Berliner Munchener Tierarztl. Wochenschr. 80(23):450-454. Ref. Dec.1, 1967. 41.8 B45  
English summary.
- 81659 GREAT BRITAIN. NATIONAL AGRICULTURAL ADVISORY SERV. TERRINGTON EXPERIMENTAL HUSBANDRY FARM. Terrington eighth annual review, 1967. King's Lynn, Norfolk, 1968. 40 p. 101 G79
- 81660 GRONOW, H. J. New slaughterhouse of the City of Crailsheim. (Ge) Schlacht- Viehhof-Zeitung 68(4):137-141. Apr.27/May 5, 1968. 286.85 D48  
French summary.
- 81661 HESSELBARTH, K. Modern education in animal raising. (Ge) Ausbildung Beratung Land-Hauswirtsch. 21(5):83-84. 1968. 18 N11
- 81662 ISOBE, H. Chikusan keieigaku [Animal industry]. Tokyo, Koseisha, Koseikaku, 1967. 237 p. Ref. SF55.J318
- 81663 KLOMP, H. Simulation of the interaction between predatory animals and their prey. (Du) Landbouwkundig Tijdschr. 80(5):201-206. Ref. May 1968. 105.2 Or3  
Population model.
- 81664 KOLEV, K. The main trend in the development of animal husbandry. U. S. Joint Publ. Res. Serv. Transl. East European Agr. Forest. Food Indus. 609:1-13. Nov.29, 1967. (JPRS 43,494) 173 J663St  
In Bulgaria.  
Translation from Partien Zhivot 14:6-13. Oct.1967.  
Issued by CFSTI.
- 81665 KOPYRIN, A. V., and KEBEDEV, P. T. Regional sanitary measures are to be developed. (Rus) Veterinariya 2:117-119. Feb.1968. 41.8 V6426
- 81666 KOZLOVSKII, V. G. Intensivnoe zhivotnovodstvo Anglii [Intensive livestock husbandry in England]. Moskva, Kolos, 1967. 335 p. Ref. (Sel'skoe Khozyaistvo za Rubezhom) SF53.K6
- 81667 KRUGLOV, V. T. Decontamination of animal raising farms. (Rus) Veterinariya 2:108-111. Feb.1968. 41.8 V6426  
From radioactivity.
- 81668 MAGYARI, A. Development of Soviet animal husbandry and its influence on Hungarian animal husbandry. (Hu) Allattenyesztes 17(1):1-10. Feb.1968. 49 AL57  
English summary.
- 81669 MCDOWELL, R. E. Climate versus man and his animals. Nature 218(5142):641-645. May 18, 1968. 472 N21
- 81670 MOLDOVAN, C. Achievements and perspectives in zootechnology. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 628:34-36. Feb.21, 1968. 173 J663Ste  
In Romania.  
Translation from Romania Libera, Dec.15, 1967:3.  
Issued by CFSTI.
- 81671 OLDFIELD, J. E. Presidential address: the broadening scope of animal science. J. Anim. Sci. 26(6):1501-1505. Nov.1967. 49 J82
- 81672 ROMANS, J. R., SAFANIE, A. H., and BALL, R. Meat scientists seek improved meat quality. Ill. Res. 10(2):8-9. Spring 1968. 100 IL64  
Through study of meat production correlated with carcass composition.
- 81673 SALERNI, A. Considerations on the operation of public and private slaughterhouses for providing meat to present and future communities. (It) Vet. Ital. 19(3):128-136. Mar.1968. 41.8 C87
- 81674 SAMBRAUS, H. H. Kaspar-Hauser research. (Ge) Berliner Munchener Tierarztl. Wochenschr. 80(22):438-440. Ref. Nov.15, 1967. 41.8 B45  
English summary.  
Psychology and behavior of animals reared in isolation.
- 81675 SCOTTISH SOCIETY FOR PREVENTION OF CRUELTY TO ANIMALS. Hundred and twenty-eighth annual report, 1968. Edinburgh, 1968. 71 p., map. 40 Sco3
- 81676 SHAGDAR, D. Let us focus attention on utilization of animal transport. U. S. Joint Publ. Res. Serv. Transl. Mongolia 153:12-14. Jan.8, 1967. (JPRS 43,901) 173 J663Tmo  
Translation from Unen, June 4, 1967:2.  
Issued by CFSTI.
- 81677 SMALIK, J. Economic analysis of emergency slaughtering of livestock in the Trnava district. (Cz) Veterinarstvi 17(1):33-37. 1967. 41.8 V6439
- 81678 TIMARIU, S. Some aspects of rhythmical production in animal raising. (Rum) Rev. Zootech. Med. Vet. 17(10):11-14. Oct.1967. 49 P943  
Production planning.
- 81679 UNIVERSITIES FEDERATION FOR ANIMAL WELFARE. Humane killing of animals. Ed. 2. London, 1968. 28 p. TS1962.U5 1968

## CATTLE

## Breeds and Breeding

- 81680 ALBAUGH, R. Fat is expensive. Calif. Cattleman 51(5):15, 43. May 1968. 43.8 C16  
Purchasing of bulls and their care.
- 81681 ALEXANDER, G. I. Four points in plan for selecting dairy stock. Queensland Agr. J. 94(3): 160-167. Mar.1968. 23 Q33
- 81682 AUSTRALIAN COMMITTEE ON ANIMAL PRODUCTION. EXPERT PANEL ON THE SELECTION OF BEEF CATTLE BREEDING STOCK. Report. Australian Inst. Agr. Sci. J. 34(1):28-31. Mar.1968. 23 Au74
- 81683 BALL, L., YOUNG, S., and CARROLL, E. J. Seminal vesiculitis syndrome: Lesions in genital organs of young bulls. Amer. J. Vet. Res. 29(6):1173-1184. Ref. June 1968. 41.8 Am3A
- 81684 BOGNER, H., and SCHMITTER, W. Meat production of German Spotted cattle. (Ge) Tierzuchter 20(5):143-146. Mar.5, 1968. 49 T445
- 81685 BONSMAN, J. My philosophy about the Charolais. In King, T. E. The great white cattle, p.37-39. 1967. SF199.C5K5  
Development.

- 81686 BRITISH FRIESIAN CATTLE SOCIETY. Annual report and accounts for the year ending December 31st 1967. Lewes, Sussex, 1968. 25 p. 43.9 B772A
- 81687 BURKAT, V. P. Variability and heredity of fat in milk-Simmental cattle. (Rus) Zhivotnovodstvo 4:63-65. Apr.1968. 49 Z6
- 81688 BUTAYE, R. Births and birth weight of East Flemish Red Pied cattle. (Fr) Rev. Agr. [Brussels] 20(11/12):1543-1559. Dec.1967. 13 R322
- 81689 CAHILL, V. R. Carcass report-Charolais beef. In King, T. E. The great white cattle, p.49-53. 1967. SF199.C5K5
- 81690 CARROLL, E. J., BALL, L., and YOUNG, S. Seminal vesiculitis in young beef bulls. Amer. Vet. Med. Ass. J. 152(12):1749-1757. Ref. June 15, 1968. 41.8 Am3
- 81691 CARVAS, J. On some health and economic problems of cattle breeding in South Moravia. (Cz) Veterinarstvi 18(2):52-56. 1968. 41.8 V6439
- 81692 COTTRAL, G. E., GAILUNAS, P., and COX, B. F. Foot-and-mouth disease virus in semen of bulls and its transmission by artificial insemination. Arch. Gesamte Virusforsch. 23(4):362-377. Ref. 1968. 44.3 Ar23
- 81693 CREWS, G. M., ed. History of the American Jersey Cattle Club, 1868-1968. Columbus, Ohio, American Jersey Cattle Club, 1968. 111 p., map. SF199.J5C7
- 81694 DASSAT, P. Genetic improvement of the Piedmont cattle breed. (It) Rass. Econ. Prov. Alessandria 21(1):30-36. Jan./Feb.1968. 287 AL24
- 81695 DEVON CATTLE BREEDERS' SOCIETY. Davy's Devon herd book. Volume 90. Wiveliscombe, Somerset, 1967. 191 p. 43.9 D49
- 81696 DIETZ, R. W., and FLIPSE, R. J. Metabolism of bovine semen. XVI. Pathways for arginine utilization. J. Dairy Sci. 50(12):1973-1977. Ref. Dec.1967. 44.8 J822
- 81697 DOHY, J., and KELEMERI, G. Correlations between live weight of the cow and its absolute and relative milk production in the Red Danish milk breed. Acta Agron. [Budapest] 17(1/2):231-237. Ref. 1968. 19 Ac8
- 81698 DOSKOCIL, I. The economic effectiveness of breeding dairy cattle. (Cz) Czech. Min. Zemedel. Les. Hospodar. Ustav Vedeckotech. Inform. Zemedel. Ekon. 41(1):1-10. Jan.1968. 281.9 C332  
English summary.
- 81699 EDWARDS, J. The Charolais in Britain. In King, T. E. The great white cattle, p.40-42. 1967. SF199.C5K5
- 81700 EISNER, F. F. Planning breeding work of dairy cattle. (Rus) Zhivotnovodstvo 3:59-64. Mar. 1968. 49 Z6
- 81701 ELIZONDO, M. G. Charolais—the useful breed. In King, T. E. The great white cattle, p.39-40. 1967. SF199.C5K5  
Breed improvement.
- 81702 FAHIMUDDIN, M. Improvement of Red Purnea cattle. Gosamvardhana 15(10):29-30. Jan. 1968. 43.8 G69
- 81703 FLIPSE, R. J. Distribution of radioactive metabolites between bovine spermatozoa and the incubation medium. J. Dairy Sci. 51(5):805-807. May 1968. 44.8 J822
- 81704 FRAZEUR, D. R., and MARTIN, T. G. Composition of milk produced by Red Dane and Red Poll Cattle. J. Dairy Sci. 50(12):1999-2000. Dec.1967. 44.8 J822
- 81705 FREBLING, J., and others. A crossbreeding study on Aubrac (trial Aubrac 651). (Fr) Rev. Med. Vet. [Toulouse] 31(2):139-161. Feb.1968. 41.8 R32  
B. Poujardieu, B. Vissac, C. Beranger, J. H. Teissier, and M. Rondeau, joint authors.  
English summary.  
Crossbreeding with Charollais, Limousin, and Brown Alpine cattle.
- 81706 GAINES, J. A., and others. Heterosis from crosses among British breeds of beef cattle: carcass characteristics. J. Anim. Sci. 26(6):1217-1225. Ref. Nov.1967. 49 J82  
G. V. Richardson, W. H. McClure, D. W. Vogt, and R. C. Carter, joint authors.
- 81707 GAMCIK, P. A contribution to the diagnosis of fertility disturbances in bulls. (Cz) Veterinarstvi 18(3):122-126. 1968. 41.8 V6439  
Includes analysis of semen.
- 81708 GAVEZ, E. Genetic and morphological picture of tuberculosis in cattle today. (Se) Vet. Glas. 12(2):119-126. Ref. 1968. 41.8 J93  
English summary.
- 81709 GOLDSOHN, J. R. Mtwapa Jerseys. Kenya Farmer 139:30-31. Feb.1968. 24 R812
- 81710 GONZALEZ, P. L. The actual state of reproductive efficiency of beef cattle. (Sp) Rev. Vet. Venezolana 23(136):265-287. Nov.1967. 41.8 R3226
- 81711 GRADEN, A. P., and others. Causes of fertilization failure in repeat breeding cattle. J. Dairy Sci. 51(5):778-781. Ref. May 1968. 44.8 J822  
D. Olds, C. R. Mochow, and L. R. Mutter, joint authors.
- 81712 GYONGYOSI, P. Causes of winter sterility of cows. (Hu) Magyar Mezogazdasag 23(4):17-18. Jan.24, 1968. 19 M27  
Includes correctional measures with feeding.
- 81713 HAVERMANN, H. Breeding problems of beef production with special regard to commercial crossbreeding. (Ge) Zuchtungskunde 39(6):444-458. Ref. Nov./Dec.1967. 49 Z8  
English summary.
- 81714 HOFMEYER, C. F. B. Reconstruction of the ruptured anterior cruciate ligament in the stifle of a bull. Veterinarian [Oxford] 5(2):89-92. Apr.1968. 41.8 V6467
- 81715 HOFMEYER, C. F. B. Surgery of bovine impotencia coeundi. IV. Stenosis of the praeputium excluding the orificium praeputiale. S. Afr. Vet. Med. Ass. J. 39(1):17-25. Ref. Mar.1968. 41.8 So8  
Bulls.
- 81716 HOLSTEIN-FRIESIAN ASSOCIATION OF AMERICA. Annual report, 1967. Brattleboro, Vermont, 1967. 32 p. 43.9 H74C
- 81717 HUSTON, K., LEIPOLD, W. H., and MACFADDEN, D. L. Smooth tongue in Brown Swiss cattle. J. Hered. 59(1):65-67. Jan./Feb.1968. 44.2.8 Am3
- 81718 JONES, H. W. Africa's indigenous cattle—key to prosperity. World Crops 19(6):20-23. Dec. 1967. 281.8 W892
- 81719 KALASHNIKOV, YU. M. Industrial crossing of the Black Pied Lowland heifers with Aberdeen Angus bulls. (Rus) Zhivotnovodstvo 3:69-71. Mar.1968. 49 Z6
- 81720 KING, T. E. The great white cattle, the origin and development of the Charolais breed. Chicago, Wolf & Krautter, 1967. 56 p., map. SF199.C5K5
- 81721 KIRICHENKO, G. A. Experience with improving Lebedin cattle on the state breeding station. (Rus) Zhivotnovodstvo 4:55-60. Apr.1968. 49 Z6
- 81722 KRAUSSLICH, H. Breeding goals of the German Spotted cattle breeding. (Ge) Tierzuchter 20(5):137-140. Mar.5, 1968. 49 T445
- 81723 KRUSTANOV, K. Industrial methods in cattle raising. U. S. Joint Publ. Res. Serv. Transl. East European Agr. Forest. Food Indus. 609:14-20. Nov.29, 1967. (JPRS 43,494) 173 J663Tou  
Chiefly in breeding in Bulgaria.  
Translation from Partien Zhivot 14:13-17. Oct.1967.  
Issued by CFSTI.
- 81724 KUDLAC, E., and CHURY, J. Disturbances in fertility of cattle caused by the feeding of high rations of alfalfa. (Cz) Veterinarstvi 18(3):130-132. 1968. 41.8 V6439



- 81725 KULIKOV, L. V. Cattle breeding in Cuba. (Rus) Zhivotnovodstvo 4:90-94. Apr. 1968. 49 Z6
- 81726 LANIK, M. Comparison of the fertility of cattle and losses of calves in natural way of cattle breeding and in the use of artificial insemination. (Cz) Veterinarstvi 17(1):19-22. 1967. 41.8 V6439
- 81727 LEIDL, W., and BIERGERT, W. Tissue tolerance and drug transport studies of DMSO applied to the gonads of bulls and boars. J. Reprod. Fert. 15(1):177-180. Feb. 1968. 442.8 J8222
- 81728 LITTON, J. Charolais—the breed that invites comparison; (crossbreeding and carcass evaluation data). In King, T. E. The great white cattle, p.43-45. 1967. SF199.C5K5
- 81729 LUCIANI, V. In England good results have been obtained with crosses with the Charollais breed. (It) Agricoltura 17(2):62-65. Feb. 1968. 16 Ag8226  
English summary, p.8.
- 81730 LUKTUK, S. N., and ARORA, R. L. Studies on cystic degeneration of ovaries in Haryana cows. Indian Vet. J. 44(11):947-955. Nov. 1967. 41.8 In2
- 81731 LUNGULESCU, GH. A contribution to the determination of the optimal age for the first parturition of the cattle breed Rumanian Spotted. (Rum) Rev. Zooteh. Med. Vet. 17(12):24-30. Dec. 1967. 49 P943
- 81732 LYAPUSTINA, T. A. The effect of Eleuthero-coccus extract on sex function of bulls. (Rus) Veterinariya 12:83-85. Dec. 1967. 41.8 V6426
- 81733 MACHA, J., MULLEROVA, Z., and PETROVSKY, E. A contribution to the study of polymorphism of milk proteins in Red Pied cattle breed. (Cz) Czech. Min. Zemed. Les. Hospodar. Ustav Vedeckotech. Inform. Zivocisna Vyroba 41(1):1-8. Ref. Jan. 1968. 49.9 C33  
English summary.
- 81734 MACMILLAN, K. L., and HAFS, H. D. Gonadal and extra gonadal sperm numbers during reproductive development of Holstein bulls. J. Anim. Sci. 27(3):697-700. Ref. May 1968. 49 J82
- 81735 MACPHERSON, J. W. Semen placement effects on fertility in bovines. J. Dairy Sci. 51(5):807-808. May 1968. 44.8 J822
- 81736 MASCUS. Organization of German Spotted cattle breeding. (Ge) Tierzuchter 20(5):132-134, 136-137. Mar. 5, 1968. 49 T445  
Includes associations.
- 81737 MASSMANN, C. P., and HASENCLEAVER, F. A. The Spotted Mountain cattle overseas. I-II. (Ge) Tierzuchter 20(5):156, 158-160. Mar. 5, 1968. 49 T445  
South Africa and South America.
- 81738 MCDOWELL, R. E., and MCDANIEL, B. T. Interbreed matings in dairy cattle. I. Yield traits, feed efficiency, type and rate of milking. J. Dairy Sci. 51(5):767-777. Ref. May 1968. 44.8 J822
- 81739 MELTON, A. A. Heifer size—dam size, important in beef production. Tex. Agr. Progr. 14(2):8-9. Spring 1968. 100 T31Te  
Effects of breeding.
- 81740 MILLER, R. H., MCDANIEL, B. T., and PLOWMAN, R. D. Comparison of three methods of sire evaluation. J. Dairy Sci. 51(5):782-791. Ref. May 1968. 44.8 J822
- 81741 MIROCHA, C. J., and others. Detection of a fungal estrogen (F-2) in hay associated with infertility in dairy cattle. Appl. Microbiol. 16(5):797-798. May 1968. 448.3 Ap5  
J. Harrison, A. A. Nichols, and M. McClintock, joint authors.
- 81742 MISKOVIC, M., PERKUCIN, R., and MILIC, B. Initial levels of fructose, citric acid and alkaline phosphatase in seminal plasma of bulls of weak sexual activity. (Se) Vet. Glas. 22(1):23-27. Jan. 1968. 41.8 J93  
English summary.  
Simmentals.
- 81743 MORTON, B. E. A disruption and fractionation of bovine epididymal spermatozoa. J. Reprod. Fert. 15(1):113-119. Ref. Feb. 1968. 442.8 J8222
- 81744 MOSER. Breeding methods and their principles in German Spotted cattle rearing. (Ge) Tierzuchter 20(5):146, 148-150. Mar. 5, 1968. 49 T445
- 81745 NAGY, N. Study on the relationship between weight gain and feed conversion of young fattening bulls. (Hu) Allattenyesztes 17(1):21-28. Ref. Feb. 1968. 49 AL57  
English summary.
- 81746 NEDELOVA, S. The construction of the selection index on basis of genetic information in cattle breeding. (Cz) Czech. Min. Zemed. Les. Hospodar. Ustav Vedeckotech. Inform. Zivocisna Vyroba 41(1):1-8. Ref. Jan. 1968. 49.9 C33  
English summary.
- 81747 NEUSTROEV, I. A. Results of industrial crossbreeding of cattle from the Yakut ASSR with beef type cattle. (Rus) Zhivotnovodstvo 3:67-69. Mar. 1968. 49 Z6
- 81748 NOBIS, H. D. Young breed's plans for progress: American Angus Association has history of steady progress since it was founded in 1883. Ark. Cattle Bus. 4(6):6-7, 23. June 1968. 43.8 Ar43
- 81749 O'HANLON, S. R. Better beef. Great Brit. Min. Agr. Fish. Food. Agr. 75(2):64-65. Feb. 1968. 10 G79J  
Breeding.
- 81750 OSTASHKO, F. I., BUGROV, A. D., and PLUGATYREV, V. P. Semen production by sire bulls after foot-and-mouth disease. (Rus) Veterinariya 2:105-107. Feb. 1968. 41.8 V6426
- 81751 PATEL, B. M., MEMON, G. N., and PATEL, C. A. Beta-carotene and vitamin A in blood serum of Gir cattle. Indian J. Vet. Sci. Anim. Husb. 37(4):202-206. Ref. Dec. 1967. 41.8 In22
- 81752 PATEL, B. M., MEMON, G. N., and VAIDYA, M. B. A study on the levels of copper and iron in the blood of Gir cattle. Indian Vet. J. 44(12):995-1000. Ref. Dec. 1967. 41.8 In2
- 81753 PATON, W. S. Breeding, feeding, production—the path to milk quality. Milk Board J. 19(2):23-27, 29. Feb. 1968. 44.8 M5934  
Includes milk sanitation.
- 81754 PETERSON, C. For best profits—every cow must be a mamma. Big Farmer 40(4):23, 26. Summer 1968. 58.8 B46
- 81755 PEVZNER, I. L., and KAKOVKIN, M. I. The effect of exercise on health and sex function of bulls. (Rus) Veterinariya 12:86. Dec. 1967. 41.8 V6426
- 81756 PHILPOTT, M. Diagnosis of Vibrio fetus infection in the bull. II. An epidemiological survey using a fluorescent antibody test and comparing this with a cultural method. Vet. Rec. 82(16):458-463. Ref. Apr. 20, 1968. 41.8 V641
- 81757 QUARTERMAIN, A. R., and FREEMAN, A. E. Estimation of maximal heritability parameters in dairy cattle breeding. J. Dairy Sci. 50(12):1959-1965. Dec. 1967. 44.8 J822
- 81758 QUITTET. Production of Charollais-Normandy calves in Calvados. (Fr) Tech. Lait. 591:13, 15. May 1, 1968. 44.8 Of2
- 81759 RAM, C. Skin thickness in relationship to milk yield in Haryana cows. Indian J. Vet. Sci. Anim. Husb. 37(4):193-201. Ref. Dec. 1967. 41.8 In22
- 81760 RAO, A. R. Experimental testicular degeneration in a bull. Indian Vet. J. 44(12):1022-1024. Dec. 1967. 41.8 In2
- 81761 RAPACZ, J., KORDA, N., and STONE, W. H. Serum antigens of cattle. I. Immunogenetics of a macroglobulin allotype. Genetics 58(3):387-398. Ref. Mar. 1968. 442.8 G28
- 81762 RESHETNIKOVA, N. M. Factors influencing fertility of cows and survival of embryos. (Rus) Zhivotnovodstvo 3:78-80. Mar. 1968. 49 Z6
- 81763 RIERA, A. Actual state of reproductive efficiency of dairy cattle. (Sp) Rev. Vet. Venezolana 23(136):288-292. Nov. 1967. 41.8 R3226
- 81764 ROSTOVTSSEV, N. F., and CHERKASHCHENKO, I. I. Theoretical principles and practical application of industrial crossing in livestock breeding. (Rus) Zhivotnovodstvo 3:64-67. Mar. 1968. 49 Z6  
Beef cattle.

- 81765 ROUSSEL, J. D., and STALLCUP, O. T. A cytochemical comparison between the activity of lactic dehydrogenase-diphosphopyridine nucleotide-diaphorase system in the testis and epididymis compared to some semen characteristics. *Int. J. Fert.* 13(2):142-153. Ref. Apr./June 1968. 44.8 In83  
Holstein-Friesian bulls.
- 81766 RUDDER, T. H. Vealers as a dairying sideline. *Queensland Agr. J.* 94(3):184-190. Mar.1968. 23 Q33  
Breeding, feeding, and returns.
- 81767 SCHUMANN, H. Milk production of German Spotted cattle. (Ge) *Tierzuchter* 20(5):140,142-143. Mar.5,1968. 49 T445
- 81768 SEGLIN, A. Prophylaxis of cow and heifer sterility in the Latvian SSR. (Rus) *Veterinariya* 12:80-81. Dec.1967. 41.8 V6426
- 81769 SERGIENKO, A. I., VOLFSO, D. G., and PASECHNIK, I. A. Practice of prophylaxis of cattle sterility in Lvov region. (Rus) *Veterinariya* 12:78-80. Dec.1967. 41.8 V6426
- 81770 SHOTAKE, T., and NOZAWA, K. Genetic load in animal populations. I. Dairy cattle. *Jap. J. Zootech. Sci.* 39(4):180-187. Apr.1968. 49 N62  
Chiefly inbreeding and populations.
- 81771 SIEBLITZ, K. The German Spotted cattle in Europe; development, distribution, and status and breeding in Europe. (Ge) *Tierzuchter* 20(5):153-156, map. Mar.5,1968. 49 T445
- 81772 SIRBULESCU, V. Relation between the content of proteins and the percentage of fats in milk with regard to the selection. (Rum) *Rev. Zootch. Med. Vet.* 17(12):12-19. Ref. Dec. 1967. 49 P943  
English summary.
- 81773 SOMMER, O. A. The spreading of German Spotted cattle in the Federal Republic. (Ge) *Tierzuchter* 20(5):130-132, map. Mar.5,1968. 49 T445
- 81774 SWAFFAR, P. Purebred associations' stake in operating record of performance programs for beef cattle. *J. Anim. Sci.* 26(6):1264-1266. Nov.1967. 49 J82  
Program of the American Hereford Association.
- 81775 TEMPLE, R. S. Research in the United States. In King, T. E. The great white cattle, p.46-49. 1967. SF199.C5K5  
Charollais crossbreeding.
- 81776 THAIN, R. I. Residual herd infertility in cattle. *Australian Vet. J.* 44(5):218-222. Ref. May 1968. 41.8 Au72
- 81777 THERET, M. Comparison of the bovine brown, blond, and yellow breeds. (Fr) *Tech. Lait.* 585:31-33. Mar.2,1968. 44.8 Of2
- 81778 TRIPE, J. N. Why the top (but not average) British farmers can outclass us. *Service [New Plymouth]*, Autumn 1968:28-30. 385 Se6  
Beef cattle breeding in New Zealand.
- 81779 TURBIN, V. F. Contemporary methods of freezing bull semen. (Rus) *Zhivotnovodstvo* 3: 87-89. Mar.1968. 49 Z6
- 81780 USPENSKII, A. N., BARABASH, V. I., and ZHIL'TSOV, N. Z. Using silicon cream in artificial insemination. (Rus) *Zhivotnovodstvo* 4: 45. Apr.1968. 49 Z6  
Cattle.
- 81781 VARAVSKII, A. N. Bacteriological check of sire bull semen. (Rus) *Veterinariya* 2:107. Feb.1968. 41.8 V6426
- 81782 VERENIGING HET NEDERLANDSCHE RUNDVEE-STAMBOEK. *Jaarboek. Zwartbont [Yearbook. Black Pied]*, 1967. n.p., 1967. 2 v. 43.9 N28  
English summary.  
Dutch Friesian.
- 81783 VIRGINIA ANGUS ASSOCIATION. *Virginia Angus handbook*, 1968. Charlottesville, 1968. 160 p. SF199.A14V5
- 81784 VOHRADSKY, F. First tests with the insemination of cattle with the deep frozen semen in Ghana. (Cz) *Veterinarství* 18(4):173-175. 1968. 41.8 V6439
- 81785 WALSH, J. P. Factors affecting the solids-not-fat content of the milk of herds. *Soc. Dairy Technol. J.* 21(2):62-71. Ref. Apr.1968. 44.8 S612  
Chiefly genetic and environmental effects.
- 81786 WILLIAMS, G. Fertility problems in the new herd. *Milk Prod. [London]* 15(4):112-113. Apr.1968. 280.38 M598
- 81787 ZWART, T. Jersey cattle. (Du) *Inzicht* 22(4): 52-56. Apr.1968. 44.8 In9  
Feeds and Feeding
- 81788 AGABAWI, K. A., OSMAN, H. El S., and AKKADA, A. R. A. Feed efficiency, ruminal activity and effects on some blood constituents of early weaned calves. *J. Dairy Sci.* 51(5):744-747. May 1968. 44.8 J822
- 81789 ANNIBALDI, S. Investigations on Grana cheese production with milk from large barns. II. (It) *Mondo Latte* 22(4):263-270. Apr.1968. 44.8 M74  
Effects of cattle feeding and bacteriological and chemical control of milk.
- 81790 APERDANNIER, R., and FREESE, H. H. Use of brewers' grains—an example for practice. (Ge) *Mitt. Deut. Landwirt.-Ges.* 83(18):630, 632-633. May 2,1968. 18 N39  
For cattle and swine feeding.
- 81791 BACVANSKI, S., and others. Study of the effect of green cut forage plants on the fattening of calves. (Se) *Arh. Poljoprivredne Nauk.* 20(68):97-105. 1967. 21.5 Y9  
C. Obravec, S. Milovancev, and S. Vucetic, joint authors.  
English summary.
- 81792 BAKER, L. Push button feeding plans. *Vet. Econ.* 9(5):48. May 1968. 41.8 V6458  
For dairy cattle.
- 81793 BARTLEY, E. E., and others. Comparative value of dry and liquid hemicellulose extract and liquid cane molasses for lactating dairy cows. *J. Dairy Sci.* 51(5):706-709. Ref. May 1968. 44.8 J822  
E. L. Farmer, H. B. Pfost, and A. D. Dayton, joint authors.
- 81794 BEEBY, L. D. Lot feeding of beef cattle; its prospects in Australia. *Agr. Gaz. New S. Wales* 79(3):137-142. Mar.1968. 23 N472
- 81795 BELETOKOV, M. P., and BULATOV, A. P. Yields and milk composition of cows, fed with alfalfa silage. (Rus) *Zhivotnovodstvo* 3:55. Mar.1968. 49 Z6
- 81796 BJUGSTAD, A. J., and DALRYMPLE, A. V. Behavior of beef heifers on Ozark ranges. *Mo. Agr. Exp. Sta. Bull.* 870, 15 p. Ref. Apr.1968. 100 M693
- 81797 BOLING, J. A., and others. Feed intake of cattle in response to dietary dilution with polyethylene. *J. Anim. Sci.* 26(6):1385-1389. Ref. Nov. 1967. 49 J82  
E. C. Faltin, W. G. Hoekstra, and E. R. Haus-er, joint authors.
- 81798 BONSEMBIANTE, M. Modern techniques of beef production. (It) *Agr. Venezia* 22(3):205-219. Mar.1968. 16 Ag826  
Feeding and breeding included.  
Includes discussion.
- 81799 BROWN, W. H., and STULL, J. W. Dietary fat for the lactating bovine. I. Effect on fatty acids of serum cholesterol esters. *J. Dairy Sci.* 50(12):1905-1908. Ref. Dec.1967. 44.8 J822
- 81800 BRUNDAGE, A. L., and ALLEN, L. Feeding fermented, high-moisture barley to lactating dairy cattle in conjunction with silage. *J. Dairy Sci.* 51(4):549-552. Apr.1968. 44.8 J822
- 81801 BULLEN, E. R. A dairy herd on an arable farm. *Country Life [London]* 143(3706):636-637. Mar.14,1968. 80 C83  
Chiefly feeding costs and returns.
- 81802 BURMANN, F. J. Influence of grazing intensity on cesium-137 levels in milk. *J. Dairy Sci.* 50(12):1891-1896. Dec.1967. 44.8 J822
- 81803 CHURCH, D. C., RALSTON, A. T., and KENNICK, W. H. Effect of diet or diethylstilbestrol on fatty acid composition of bovine tissues. *J. Anim. Sci.* 26(6):1296-1301. Nov.1967. 49 J82



- 81804 COLENBRANDER, V. F., and others. Feed processing. II. Effect of feeding expanded grain and finely ground hay on milk composition, yield, and rumen metabolism. *J. Dairy Sci.* 50(12):1966-1972. Ref. Dec.1967. 44.8 J822  
E. E. Bartley, J. L. Morrill, C. W. Deyoe, and H. B. Pfost, joint authors.
- 81805 COLVIN, B. M., and RAMSEY, H. A. Soy flour in milk replacers for young calves. *J. Dairy Sci.* 51(6):898-904. Ref. June 1968. 44.8 J822
- 81806 CONRAD, H. R. Physiological limits on the amount of urea used in ruminant nutrition. *Distill. Feed Res. Council. Conf. Proc.* 23:41-47. Ref. Mar.13,1968. 389.79 C765  
Dairy cattle.
- 81807 CONWAY, A. Grazing management in relation to beef production. IV-V. *Irish J. Agr. Res.* 7(1):93-105. Ref. Apr.1968. 10.5 Ir45
- 81808 COPPOCK, C. E., and STONE, J. B. Corn silage in the ration of dairy cattle; a review. *N. Y. (Cornell) Agr. Exp. Sta. Cornell Misc. Bull.* 89,36 p. Mar.1968. 275.29 N48Cm
- 81809 CZAKO, J., VESZELY, MRS. P., and TURI, J. The effect of level of feeding of heifers on later milk production. (Hu) *Agrartud. Kozlem.* 27(1/2):69-85. Ref. 1968. 19 B855  
German summary.
- 81810 DAVID, V. D. Corn silage and sugar beets in the rations of young cows. (Rus) *Zhivotnovodstvo* 4:42-43. Apr.1968. 49 Z6  
Effect on lactation.
- 81811 DEL PIZZO, E. The feeding of the dairy cow with large quantity of concentrates. (It) *Riv. Zootec.* 41(3):163-170. Mar.1968. 49 R52
- 81812 DI LELLA, T., and ZICARELLI, L. On the possibility of using rabbit feces as feed for ruminants—preliminary note. (It) *Acta Med. Vet.* 13(5/6):447-450. Sept./Dec.1967. 41.8 Ac84  
English summary.  
Tests with calves.
- 81813 DOLGE, K. L. Cows need more protein than they've been getting. *Agway Coop.* 4(3):15-16. Apr.1968. 280.28 Ag9
- 81814 DUNKLEY, W. L., and others. Influence of dietary copper and ethylenediaminetetraacetate on copper concentration and oxidative stability of milk. *J. Dairy Sci.* 51(6):863-866. Ref. June 1968. 44.8 J822  
A. A. Franke, J. Robb, and M. Bonning, joint authors.
- 81815 DURHAM, P. All-concentrate ruminant feeding. *Feedstuffs* 40(12):26,28. Mar.30,1968. 386.81 F322  
Cattle.
- 81816 DVORAK, M. The effect of vitamin A in calf nutrition on the occurrence of bronchopneumonia and coli enterotoxemia in calves during the weaning period. (Cz) *Veterinarstvi* 17(2):77-79. 1967. 41.8 V6439
- 81817 DVORAK, M. Premises for a successful substitution of milk fats in feeding calves with less valuable fats for human consumption. (Cz) *Veterinarstvi* 17(1):28-32. 1967. 41.8 V6439
- 81818 EECKHOUT, W., and BUYSE, F. The value of a simplified milk substitute distribution system in a 16 weeks calf rearing system. (Fr) *Rev. Agr. [Brussels]* 20(11/12):1561-1570. Dec.1967. 13 R322  
English summary.
- 81819 ESSIG, H. W. Urea-limestone treated silage for beef cattle. *J. Anim. Sci.* 27(3):730-738. Ref. May 1968. 49 J82  
Corn silage.
- 81820 FREDERIKSEN, J. H. Better harmony between dairy husbandry and grassland farming. (Da) *Landbonyt* 22(5):221-224. May 1968. 11 L2322
- 81821 GABIBOV, T. G., and MAMEDZADE, A. KH. Using potassium iodide and cobalt chloride in feeding buffaloes. (Rus) *Khim. Sel'skom Khoz.* 6(4):51-53. Apr.1968. 385 K524
- 81822 GARDNER, R. W. Digestible protein requirements of calves fed high energy rations ad libitum. *J. Dairy Sci.* 51(6):888-897. Ref. June 1968. 44.8 J822
- 81823 GARDNER, R. W. Protein needs of young calves. *Progr. Agr. Ariz.* 20(2):20-22. Mar./Apr.1968. 6 P9452
- 81824 GERKEN, H. J., and FONTENOT, J. P. Availability and utilization of magnesium from dolomitic limestone and magnesium oxide in steers. *J. Anim. Sci.* 26(6):1404-1408. Nov.1967. 49 J82
- 81825 GMELIN, "Urea" as protein component of cattle feed. (Ge) *Muhle* 105(18):250,253. May 2, 1968. 298.9 M89
- 81826 GUTHRIE, L. D., ROLLINS, G. H., and HAWKINS, G. E. Evaluation of the esophageal-fistula cannula and hand-clip methods for sampling Coastal bermudagrass pastures. *J. Dairy Sci.* 51(5):710-714. Ref. May 1968. 44.8 J822  
In relation to milk production by dairy cattle.
- 81827 HALE, W. H. Recent findings in grain processing for cattle feeds. *Distill. Feed Res. Council. Conf. Proc.* 23:64-71. Ref. Mar.13,1968. 389.79 C765
- 81828 HARRIS, R. R., BOSECK, J. K., and ANTHONY, W. B. High-moisture corn in steer growing rations. *Feed Bag* 44(3):3,8. Mar.1968. 389.78 F32
- 81829 HARTMAN, L., and others. The effects of drenching cows with oxidized oils on the composition of the fat and the quality of the meat. *New Zeal. J. Sci.* 11(1):122-130. Ref. Mar. 1968. 514 N482  
F. B. Shorland, Z. Czochanska, P. Woodhams, and A. H. Kirton, joint authors.
- 81830 HEROLD, I. The influence of the level of nutrition on the feed utilization of Hungarian Red Spotted lactating cows. (Hu) *Allattenyesztes* 17(1):29-35. Feb.1968. 49 AL57  
English summary.
- 81831 HIERS, J. M., MILLER, W. J., and BLACKMON, D. M. Endogenous secretion and reabsorption of <sup>65</sup>zinc in ruminants as affected by zinc deficiency and feeding of ethylenediaminetetraacetate or cadmium. *J. Dairy Sci.* 51(5):730-736. Ref. May 1968. 44.8 J822  
Calves and goats.
- 81832 HOFMANN, P. Calf raising with little milk. (Ge) *Mitt. Deut. Landwirt.-Ges.* 83(12):398-402. Mar.21,1968. 18 N39
- 81833 HUBER, J. T. Partially delactosed whey in dairy rations. *Feedstuffs* 40(19):38-40. May 11,1968. 286.81 F322
- 81834 IL'INSKII, E. V. On silage feeding to cows during dry period. (Rus) *Veterinariya* 2:85-88. Feb.1968. 41.8 V6426
- 81835 JONAS, R. Untersuchungen uber die Einflussnahme nutritiver Antibiotika-Gaben auf verschiedene Blutwerte des Mastkalbes unter Berücksichtigung kontrollierter Umweltbedingungen [Investigations on the effect of nutritive antibiotic doses on different blood values of fattening calves with special emphasis on controlled environment conditions]. *Munich Univ. Tierarztl. Fak. [Inaug.-Diss.]* 37,69 p. 1967. 41.2 M9222  
Bibliography, p.59-69.
- 81836 JONES, R. S., and PARRISH, J. R. Using urea in dairy rations. *Auburn Univ. Ext. Circ.* A-25,6 p.-folder. Aug.1967. 275.29 AL14C
- 81837 KALLELA, K. The oestrogenic effect of red clover pasture on the ovariectomized heifer. *Nord. Vet. Med.* 20(4):185-192. Ref. Apr.1968. 41.8 N813
- 81838 KELLY, R. F., and others. Estimates of carcass composition of beef cattle fed at different planes of nutrition. *J. Anim. Sci.* 27(3):620-627. Ref. May 1968. 49 J82  
J. P. Fontenot, P. P. Graham, W. S. Wilkin-son, and C. M. Kincaid, joint authors.
- 81839 KESLER, E. M., CHANDLER, P. T., and BRANDING, A. E. Dry molasses product using waste paper as a base for a possible feed for cattle. *J. Dairy Sci.* 50(12):1994-1996. Dec. 1967. 44.8 J822

- 81840 KIRCHGESSNER, M., FRIESECKE, H., and KOCH, G. Nutrition and the composition of milk. Philadelphia, Lippincott, 1967. 273 p. (International Monographs: Aspects of Animal and Human Nutrition) SF251.K53 1967  
Translation of his Fütterung und Milchzusammensetzung (SF251.K5)  
Includes bibliographies.
- 81841 KOCHETOVA-LOBANOVA, V. F. Using phosphorus and calcium supplements in feeding heifers. (Rus) Khim. Sel'skom Khoz. 6(4):47-49. Apr.1968. 385 K524
- 81842 KONDRAKHIN, I. P. The role of carbohydrates in cow nutrition, as related to the prophylaxis of dyspepsia in calves. (Rus) Zhivotnovodstvo 3:82-85. Mar.1968. 49 Z6
- 81843 KRASOTA, V. F. Structure and functions of digestive organs in calves as induced by raising conditions. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 2:86-92. Feb.1968. 20 V633  
English summary.  
Nutritional study of Bestuzhev breed.
- 81844 LACEY, J. The microflora of fodders associated with bovine respiratory disease. J. Gen. Microbiol. 51(2):173-177. Ref. Apr.1968. 448.3 J824  
Micropolyspora faeni and Thermoactinomyces vulgaris.
- 81845 LASSITER, J. W., and ALLIGOOD, V. Consumption of sodium bicarbonate in water by steers fed varied all-concentrate diets. J. Anim. Sci. 26(6):1459-1462. Nov.1967. 49 J82
- 81846 LESPERANCE, A. L., and MCCORMICK, J. A. Feedlot research. Nev. Ranch Home Rev. 4(3):12-13. Spring 1968. 60.18 Sci2  
Beef cattle feed formulas.
- 81847 LEV, B. Committee for cattle nutrition. (He) Agr. Israel 13(6/7):54-55. Mar./Apr.1968. 22.5 Ag825
- 81848 LITTMANN, H. Cattle feeding with silage? (Ge) Mitt. Deut. Landwirt.-Ges. 83(18):623-624. May 2, 1968. 18 N39
- 81849 LOFGREEN, G. P., and GARRETT, W. N. A system for expressing net energy requirements and feed values for growing and finishing beef cattle. J. Anim. Sci. 27(3):793-806. Ref. May 1968. 49 J82
- 81850 LOZNEV, P. A., and SAMAROV, V. V. From the experience of intercollective feedlots in the Tambov Region. (Rus) Zhivotnovodstvo 3:56-58. Mar.1968. 49 Z6  
Beef cattle and swine.
- 81851 MAJUMDAR, B. N., MOMIN, S. A., and KEHAR, N. D. Studies on tree leaves as cattle fodder. I-II. Indian J. Vet. Sci. Anim. Husb. 37(4):217-231. Ref. Dec.1967. 41.8 In22
- 81852 MCCLURE, T. J. Malnutrition and infertility of cattle in Australia and New Zealand. Australian Vet. J. 44(4):134-138. Ref. Apr.1968. 41.8 Au72
- 81853 MCCULLOUGH, M. E. Influence of hay or silage and ratio of flaked corn or beet pulp to forage on cellulose disappearance in vitro. J. Anim. Sci. 27(3):780-784. May 1968. 49 J82  
Dairy steers with rumen fistulas used; corn silage and grain forage.
- 81854 MILLER, L. G., and others. Nutritive value of hay baled at various moisture contents. J. Anim. Sci. 26(6):1369-1373. Nov.1967. 49 J82  
D. C. Clanton, L. F. Nelson, and O. E. Hoehne, joint authors.  
Trials with calves.
- 81855 MINSTER, B. SH. Improving fattening of cattle with malt wastes in feed. (Rus) Zhivotnovodstvo 2:15-17. Feb.1968. 49 Z6
- 81856 MODYANOV, A. V., TKACHENKO, E., and SHANYGHINA, N. E. Nitrogenous fractions of milk and its aminoacid composition as a result of the introduction of granular urea into cows' rations. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 2:81-85. Ref. Feb.1968. 20 V633  
English summary.
- 81857 MOORE, J. E. Intake, digestibility key to pasture value. Fla. Cattleman Livestock J. 32(9):52-53. June 1968. 43.8 F66
- 81858 MORALES HERRERA, A. Artificial raising of calves. (Sp) Veterinaria [Madrid] 23(4):199-214. Apr.1968. 41.8 V6429  
Feeding.
- 81859 NOFZIGER, J. C. Raw sugar as an energy source in beef cattle fattening rations. Feedstuffs 40(23):54,56. June 8, 1968. 286.81 F7322
- 81860 NORMAN, M. J. T. The performance of beef cattle on different sequences of Townsville lucerne [Stylosanthes humilis] and native pasture at Katherine, N.T. Australian J. Exp. Agr. Anim. Husb. 8(20):21-25. Ref. Feb.1968. 23 Au792
- 81861 OWEN, F. G. Increase forage intake for more milk. Hoard's Dairyman 113(10):641. May 25, 1968. 44.8 H65
- 81862 PAVLICEVIC, A., and ZEREMSKI, D. The effect of feeding on the growth of calves of the first back crossed generation between the Simmental and Dutch Friesian cattle breeds. (Se) Arh. Poljoprivredne Nauk. 20(68):106-114. Ref. 1967. 21.5 Y9  
English summary.
- 81863 PERRY, T. W., BEESON, W. M., and MOHLER, M. T. A comparison of high-urea supplements with natural protein supplements for growing and fattening beef cattle. J. Anim. Sci. 26(6):1434-1437. Nov.1967. 49 J82
- 81864 PRESTON, R. L. What is needed to "break through" the efficiency barrier in beef cattle. Feedstuffs 40(13):20-24,52. Mar.30, 1968. 386.81 F322  
Feeding.
- 81865 RADOJEVIC, D. The fattening of calves on Kopanik Mountain. (Se) Glasnik 12(3):48-53. 1968. 280.28 Z13
- 81866 RIZZOTTI, A. The pasturing of cattle in Italy. (It) Verona. Accad. Agr. Sci. Lett. Atti. Mem. (ser.6):18:43-46. 1966/67, pub.1968. 16 V69
- 81867 ROHR, K. With high production: summer feed concentrates. (Ge) Mitt. Deut. Landwirt.-Ges. 83(13):426-428. Mar.28, 1968. 18 N39  
Feed supplements for dairy cattle.
- 81868 SADAGOPAN, V. R., and TALAPATRA, S. K. Biological assay of guar meal (Cyamopsis psoraloides) on growth rate of Harijana calves. I. Guar meal as a substitute for groundnut cake in actively growing Harijana calves. Indian Vet. J. 44(12):1061-1068. Dec.1967. 41.8 In2
- 81869 SANTA MARIA, H. C., and AYLLON, R. Considerations on pesticides and pasturing of dairy animals. (Sp) Indus. Leche. 49(581):316,318. Dec.1967. 44.8 In26  
Milk contamination through cattle ingestion of insecticide residues on crops.
- 81870 SCARTH, R. D., and others. Effects of creep feeding and sex on the rate and composition of growth of crossbred calves. J. Anim. Sci. 27(3):596-599. Ref. May 1968. 49 J82  
R. C. Miller, P. J. Phillips, G. W. Sheritt, and J. H. Ziegler, joint authors.
- 81871 SCHMEKEL, J. The influence of additives on silage consumption. Uppsala. Lantbrukshogsk. Ann. 33(3):785-804. Ref. 1967. 104 Up6  
Cows and sheep.
- 81872 SCHNEEBERGER, H. Problems of silage feeding in cattle fattening. (Ge) Grune 96(14):468-475. Apr.5, 1968. 17 Sch9  
Switzerland.
- 81873 SINGH, G. S. Evaluation of sain grass hay (Sesbania nervosum) when fed to dry cows in Bundelkhand Division of Uttar Pradesh. Indian Vet. J. 44(11):974-977. Nov.1967. 41.8 In2
- 81874 SLEN, S. B. Beef feedlot on grass. Can. Cattlemen 31(6):9,32. June 1968. 49 C16
- 81875 SONDEREGGER, H. Feeds and feeding on the hay ventilation farm. (Ge) Grune 96(6):172-177. Feb.9, 1968. 17 Sch9  
Dairy cattle feeding in Switzerland; includes possibility of improving dried feed.
- 81876 SOUTHWELL, B. L. Good provider seen in feeding from small grains during winter, sorghum-sudan cross in spring and summer; beef gains at 12 to 15 cents per pound! Livestock Breeder J. 11(5):10. May 1968. 49 L758



- 81877 STEINACKER, G. Timely cattle fattening. (Ge) Gute Rat Futterungsfragen 7(2):5-9. Feb.1968. 389.78 G98 Austria.
- 81878 STEINACKER, G. Up-to-date cattle feeding. (Ge) Gute Rat Futterungsfragen 7(1):2-4. Jan. 1968. 389.78 G98
- 81879 STEINACKER, G. The use of urea in cattle feeding. (Ge) Forderungsdienst 16(2):48-52. Feb.1968. 19 F75 Austria.
- 81880 SYVAOJA, E. L., and VIRTANEN, A. I. Studies of enzymes in milk produced with normal feed and protein-free feed. *Milchwissenschaft* 23(4):200-204. Ref. Apr.1968. 44.8 M5933
- 81881 TAKANO, N., and others. Studies of water consumption on the pasture by dairy heifers. (Ja) Hokkaido Nat. Agr. Exp. Sta. Res. Bull. 92:73-77. Ref. Feb.1968. 107.6 H68 S. Suzuki, N. Nanea, and Y. Yamashita, joint authors. English summary.
- 81882 TASSELL, R. The effects of diet on reproduction in pigs, sheep and cattle. VI. Cattle. *Brit. Vet. J.* 123(12):550-558. Ref. Dec.1967. 41.8 V643
- 81883 TEMPLETON, J. A., and DYER, I. A. Diet and supplemental enzyme effects on volatile fatty acids of bovine rumen fluid. *J. Anim. Sci.* 26(6):1374-1378. Nov.1967. 49 J82
- 81884 TERNOUTH, J. H. A factor limiting the ruminant's voluntary consumption of silage. *Australian Inst. Agr. Sci. J.* 33(4):263-264. Dec. 1967. 23 Au74 Cattle.
- 81885 THOMAS, G. D., and others. Feed processing. III. Effects of ground, steam heated, and pelleted hay, with and without pelleted grain, on milk composition and rumen volatile fatty acid ratios. *J. Dairy Sci.* 51(6):869-875. Ref. June 1968. 44.8 J822 E. E. Bartley, H. B. Fost, and R. M. Meyer, joint authors.
- 81886 TUREK, F. Dairy cattle feeding in mountain areas and influencing of milk quality through feeding and feeds. (Ge) *Milchwirtsch.* 13:33-36. Feb.1968. 44.8 M5998
- 81887 TUREK, F. Veal production—very modern! (Ge) Gute Rat Futterungsfragen 7(2):2-5. (Cont.) Feb.1968. 389.78 G98 Calf feeding and meat production in Austria.
- 81888 URBANYI, L., POGANY, I., and TOTH, B. Feeding experiments on the effectiveness of cattle premix. (Hu) *Alattanyesztes* 17(1):37-43. Ref. Feb.1968. 49 AL57 English summary.
- 81889 VIK-MO, L. Urea as a protein basis for ruminants. 1. (No) *Norsk Landbruk* 9:10-11, 35. Mar.3,1968. 11 N8122 Dairy cattle.
- 81890 VIRTANEN, A. I. Milk production on a protein-free and protein-poor feed. *Ned. Melk- Zuivel-tijdschr.* 2(3/4):223. Dec.1967. 44.8 N283
- 81891 WADSWORTH, J. C. Fatty acid composition of lipid in the thoracic duct lymph of grazing cows. *J. Dairy Sci.* 51(6):876-881. Ref. June 1968. 44.8 J822
- 81892 WAEHRE, O. Zero grazing—an alternative to pasturing? (No) *Norsk Landbruk* 8:11,41. Apr.19,1968. 11 N8122 Dairy cattle.
- 81893 WALLIN, O. The relationship between quality of silage and quality of milk. (Sw) *Nord. Vet. Med.* 20(4):197-207. Ref. Apr.1968. 41.8 N813 English summary. During stall period.
- 81894 WARNER, R. G., and LOOSLI, J. K. The effect of corn distillers dried grains with solubles and other ingredients on milk-fat percentage. *Dis-till. Feed Res. Council. Conf. Proc.* 23:23-26. Mar.13,1968. 389.79 C765 Experiments with dairy cattle.
- 81895 WEETH, H. J., LESPERANCE, A. L., and BOHMAN, V. R. Intermittent saline watering of growing beef heifers. *J. Anim. Sci.* 27(3):739-744. Ref. May 1968. 49 J82 Study of the effects on kidney function.
- 81896 WILLIAMS, J. B., and RUST, J. W. Fish flour in calf diets. *Minn. Sci.* 24(1):10-11. Fall 1967. 100 M668
- 81897 WISE, G. H., and others. Changes in milk products sham fed to calves. II. Relation of prefeeding heat treatments and open-pail and nipple systems of feeding on lipolysis in whole and separated milks. *J. Dairy Sci.* 51(5):737-743. Ref. May 1968. 44.8 J822 P. G. Miller, G. W. Anderson, and J. C. Jones, joint authors.

# Veterinary Medicine

- 81898 AITKEN, M. M., and SANFORD, J. Experimentally induced anaphylaxis in cattle. *Vet. Rec.* 82(14):418-419. Apr.1968. 41.8 V641
- 81899 ALBERT, T. F., and RAMEY, D. B. Apparent asymptomatic left abomasal displacement in a cow. *Amer. Vet. Med. Ass. J.* 152(8):1125-1130. Ref. Apr.1968. 41.8 AM3
- 81900 ALICATA, J. E. Partial resistance of calves to *Cooperia punctata* following subcutaneous inoculation of homologous infective larvae. *J. Parasitol.* 54(2):350. Apr.1968. 44.8 J824
- 81901 ALLCROFT, R., and ROBERTS, B. A. Toxic groundnut meal: the relationship between aflatoxin B<sub>1</sub> intake by cows and excretion of aflatoxin M<sub>1</sub> in milk. *Vet. Rec.* 82(4):116-118. Ref. Jan.27,1968. 41.8 V641
- 81902 ALLEN, W. M., SABA, N., and PATTERSON, D. S. P. *Mycobacterium johnei* infection of cattle; the effect of corticotrophin and anabolic steroids. *Vet. Rec.* 82(20):562-567. Ref. May 18,1968. 41.8 V641
- 81903 ANDERSON, R. R., and others. Effectiveness of subcutaneously administered oxytocin upon removal of residual milk. *J. Dairy Sci.* 51(4):601-605. Apr.1968. 44.8 J822 G. A. Hindery, V. Parkash, and C. W. Turner, joint authors.
- 81904 ANKER, S. J. VAN DEN. Anaphylaxis in cows after vaccination with coli vaccine. (Du) *Tijdschr. Diergeneesk.* 93(10):647. May 15,1968. 41.8 T431 English summary.
- 81905 ARAKAWA, A., KOHLS, R. E., and TODD, A. C. Lincomycin therapy for experimental coccidiosis in calves, with special reference to macroscopic and microscopic observation. *Amer. J. Vet. Res.* 29(6):1195-1200. June 1968. 41.8 Am3A
- 81906 ARKHANGELSKII, I. I., and IVASHCHURA, A. I. Pathogenic bacteria in cow milk. (Rus) *Veterinariya* 12:92-94. Dec.1967. 41.8 V6426 Mastitic cows.
- 81907 ASCHBACHER, P. W., and FEIL, V. J. Metabolism of 3,5-diiodosalicylic acid in cattle and rats. *J. Dairy Sci.* 51(5):762-766. May 1968. 44.8 J822
- 81908 ASHTON, G. C., SEIFERT, G. W., and FRANCIS, J. An association between serum amylase phenotype and tick [*Boophilus microplus*] infestation in cattle. *Australian J. Biol. Sci.* 21(2):303-308. Apr.1968. 44.8 Au72
- 81909 ATANASIU, P., and others. Study of antirabic immunity in vaccinated cattle. I. (Fr) *Inst. Pasteur. Ann.* 114(3):339-348. Ref. Mar.1968. 44.8 An75 E. Fuenzalida, B. Szyfres, and P. Acha, joint authors. English summary.
- 81910 BABIK, J. The inborn anomaly of proventriculus in cattle. (Cz) *Veterinarstvi* 17(6):246-247. 1967. 41.8 V6439
- 81911 BACHRACH, H. L., and VANDE WOUDE, G. F. Amino acid composition and C-terminal sequence of foot-and-mouth disease virus protein. *Virology* 34(3):282-289. Ref. Feb.1968. 44.8 V81 Isolated from cattle.

- 81912 BAGLIONI, T., and FIORETTI, C. Immunoglobulins of colostrum serum and bovine milk examined by the immunoelectrophoretic method. (It) Arch. Vet. Ital. 18(6):419-427. Ref. Dec.1967. 41.8 Ar25  
English summary.
- 81913 BAIRD, G. D., and others. Biochemical aspects of bovine ketosis. Biochem. J. 107(5): 683-689. Ref. May 1968. 382 B52  
K. G. Hibbitt, G. D. Hunter, P. Lund, M. Stubbs, and H. A. Krebs, joint authors.
- 81914 BAKER, A. A. An intravaginal technique for ovarian examination in the cow. Australian Vet. J. 44(5):210-211. May 1968. 41.8 Au72
- 81915 BAKER, J. A. F., and others. Chrysomya bezziana Villeneuve—some observations on its occurrence and activity in the Eastern Cape Province. S. Afr. Vet. Med. Ass. J. 39(1):3-11. Ref. Mar.1968. 41.8 So8  
W. M. Hardy, J. A. Thorburn, and G. E. Thompson, joint authors.  
Chiefly cattle hosts.
- 81916 BAKER, J. R., and FAULL, W. B. Brucellosis in a large dairy herd. Vet. Rec. 81(22):560, 564. Ref. Nov.25,1967. 41.8 V641  
Includes eradication scheme.
- 81917 BAKSHI, S. N., NARIAN, P. K., and MITAL, B. K. Characters of Staphylococcus aureus responsible for generalised udder infection in a dairy herd. Indian Vet. J. 44(12):1016-1021. Dec.1967. 41.8 In2  
Mastitis in cattle and buffaloes.
- 81918 BALASCAK, J. Hematuria, a chronic occurrence of blood in the urine of beef cattle. (Cz) Veterinarstvi 17(2):84-85. 1967. 41.8 V6439
- 81919 BALBIERZ, H., and others. Appraisal of introductory results of hematological investigations of cattle from large sheds affected with lymphatic leukemia. (Pol) Medycyna Weterynaryjna 24(2):65-69. Feb.1968. 41.8 M463  
F. Cogiel, M. Nikolajczuk and A. Senze, joint authors.  
French summary.
- 81920 BANKS, C. C. Attention to cattle lice can be profitable. New Zeal. J. Agr. 114(6):24-25. June 1967. 23 N48J  
Chemical control.
- 81921 BARINOV, V. N. On visceral mycoses of young calves. (Rus) Veterinariya 2:57-59. Feb.1968. 41.8 V6426
- 81922 BARNECKI, W. The initial investigation on the test making easier the mass blood examinations in cattle leukemia direction. (Pol) Med. Weter. 24(4):196-197. Apr.1968. 41.8 M463
- 81923 BARTULIC, V., and LJUBIC, L. The spread of sarcosporidiosis in cattle and swine and its importance for the estimation of meat value. (Se) Vet. Glas. 12(3):179-183. Ref. 1968. 41.8 J93  
English summary.
- 81924 BEASLEY, B. Profit from preconditioning. Ext. Serv. Rev. 39(3/4):6-7. Mar./Apr.1968. 1 Ex892Ex  
Montana Extension; chiefly beef cattle disease and Hypoderma control.
- 81925 BECKER, W., and TIEFENBACH, B. Defungit for Trichophyton infection control of cattle. (Ge) Blauen H. Tierarzt 36:22-25. Feb.1968. 41.9 B61
- 81926 BEGOVIC, S., and PAVLIC, S. Comparative investigations of the cellulase activity, glucose fermentation and nitrate reduction in the content of the rumen and caecum of cattle. (Se) Veterinaria [Sarajevo] 16(4):493-505. 1967. 41.8 V6494  
English summary.
- 81927 BEHERA, K. P. Treatment of Balantidiosis in cattle and buffaloes with liquor arsenicalis. Indian Vet. J. 44(12):1080-1081. Dec.1967. 41.8 In2
- 81928 BERG, R. T., and BUTTERFIELD, R. M. Growth patterns of bovine muscle. J. Anim. Sci. 27(3):611-619. Ref. May 1968. 49 J82
- 81929 BERGMANN, H., and HAHNEFELD, H. Immunofluorescence studies with viruses of the infectious bovine rhinotracheitis and bovine herpes in calf-kidney cell cultures. (Ge) Arch. Exp. Veterinarmed. 21(3):801-808. Ref. 1967. 41.8 Ex7  
English summary.
- 81930 BINES, J. A., and BROWN, R. E. Incorporation of carbon from acetate and butyrate into milk components. J. Dairy Sci. 51(5):698-705. Ref. May 1968. 44.8 J822
- 81931 BINNERTS, W. T. J. Photometric cobalt determination in bovine livers, interference by copper in using nitroso-R-salt. (Du) Tijdschr. Diergeneesk. 93(9):558-563. Ref. May 1,1968. 41.8 T431  
English summary.
- 81932 BITAKARAMIRE, P. K. A new technique for the recovery of Fasciola gigantica eggs from cattle faeces. Bull. Epizoot. Dis. Afr. 15(4): 389-391. Dec.1967. 41.8 B872
- 81933 BLANDFORD, T. B., CLARK, J., and HARDY, R. Treatment of ringworm in cattle; deaths following the use of a mixture of creosote and tractor vaporising oil. Vet. Rec. 82(11):323-324. Mar.1968. 41.8 V641
- 81934 BOHM, R. Hundred years of the first legislation on cattle rinderpest. (Cz) Veterinarstvi 18(5):228-229. 1968. 41.8 V6439
- 81935 BOHSTEDT, G. Avoiding bloat on pasture. Ark. Cattle Bus. 4(6):19. June 1968. 43.8 Ar43
- 81936 BOYAZOGLU, P. A. Nutritional diseases associated with intensive production. S. Afr. Vet. Med. Ass. J. 39(1):113-116. Ref. Mar.1968. 41.8 So8  
Cattle and sheep.
- 81937 BUZINKAY, A. A statistical contribution to the occurrence of peptic ulcers in the spleen of calves. (Cz) Veterinarstvi 18(5):208-209. 1968. 41.8 V6439
- 81938 CAMPBELL, E. A., and WHITE, A. Estimation of total muscle in live cattle using ultrasonic measurements. Australian Vet. J. 44(3):97-100. Ref. Mar.1968. 41.8 Au72
- 81939 CAR, M., FILIPAN, T., and ZELENKO, F. A contribution to the study of changes in the uptake of L-triiodothyronine in erythrocytes and resin in relation to the level of milk production and the amount of daily feeding of cattle. (Se) Vet. Arh. 37(11/12):392-400. Ref. 1967. 41.8 V6416  
English summary.  
Amberlite IR-400.
- 81940 CARLQUIST, H. Test with Juvanesta Comp. for udder inflammation. (Sw) Svensk Veterinartidn. 20(3):74-75. Feb.1968. 41.9 Sv23  
An antibiotic preparation tested on cows.
- 81941 CERRUTI, C., and others. Latest information on application in field practices of avianized vaccine against shipping fever in buffaloes. (It) Clinica Vet. 91(3):71-75. Mar.1968. 41.8 C61  
A. Quesada, P. De Anseris, C. Roperti, P. Accone, and A. Vaccaro, joint authors.  
English summary.
- 81942 CHERNUKHA, Y. G., and ISAEVA, R. A. Antigenic properties of Danish pomona strains of Leptospirae: a new serotype dania. Zentralbl. Bakteriell. Parasitenk. Infektionskr. Hyg. Abt. I, Orig. 205(4):513-517. Ref. Dec.1967. 44.3 C33  
Isolated from cattle and wildlife.
- 81943 CHHABRA, R. C., and SHARMA, R. M. Trials with Neguvon in the control of Hypoderma lineatum. Indian J. Vet. Sci. Anim. Husb. 37(4): 263-268. Ref. Dec.1967. 41.8 In22  
In cattle.
- 81944 CLARK, B. L., DUFTY, J. H., and MONSBOURGH, M. J. Experimental Vibrio fetus (venerealis) infection in heifers: the immunising properties of killed organisms injected subcutaneously. Australian Vet. J. 44(3):110-114. Ref. Mar.1968. 41.8 Au72



- 81945 CLIFFORD, A. J., BOURDETTE, J. R., and TILLMAN, A. D. Studies of ruminal urease activity. *J. Anim. Sci.* 27(3):814-817. 49 J82  
Rumen fistulated steers used in the study.
- 81946 COOK, D. A., MCGILLIARD, A. D., and RICHARD, M. In vitro conversion of long-chain fatty acids to ketones by bovine rumen mucosa. *J. Dairy Sci.* 51(5):715-720. Ref. May 1968. 44.8 J822
- 81947 COOPERRIDER, D. E. Autopsies of cattle on increase. *Fla. Cattleman Livestock J.* 32(9):80-81. June 1968. 43.8 F66
- 81948 DABURON, F., and others. Certain aspects of the iodine metabolism in the ruminant. (Fr) *Rev. Med. Vet. [Toulouse]* 31(4):311-322. Apr. 1968. 41.8 R32  
A Cappelle, Y. Tricaud, P. Nizza, joint authors.  
English summary.  
Cattle.
- 81949 DALGLIESH, R. J. Field observations on Babesia argentina vaccination in Queensland. *Australian Vet. J.* 44(3):103-104. Mar. 1968. 41.8 Au72  
Of cattle.
- 81950 DAMIANO, S., and ZACCHI, A. Contribution to the knowledge of primitive tumors of the heart in domestic animals: round-celled sarcoma in a cow. (It) *Acta Med. Vet.* 13(5/6):335-347. Sept./Dec. 1967. 41.8 Ac84  
English summary.
- 81951 DAMIANO, S. A study of oesophagostomiasis found in some buffalo calves in Caserta region. (It) *Acta Med. Vet.* 13(5/6):383-411. Ref. Sept./Dec. 1967. 41.8 Ac84  
English summary.  
Oesophagostomum radiatum identified.
- 81952 DAMMIRICH, K. The relationships of the cranial bones in animals. (Ge) *Zentralbl. Veterinarmed. Reihe A*, 15(3):226-241. Ref. May 1968. 41.8 Z5  
English summary.  
Bovine fetuses and dogs studied.
- 81953 DAS, M. S. Studies on the use of caprinized rinderpest vaccine in infected and uninfected herds. *Indian Vet. J.* 44(12):1000-1008. Dec. 1967. 41.8 In2
- 81954 DAVID, A. Treatment of bovine Balantidiosis with Neoviasept (Hoechst). *Indian Vet. J.* 44(12):1077-1079. Dec. 1967. 41.8 In2
- 81955 DAWSON, P. S., FORBES, D., and STUART, P. Isolation of a paravaccinia virus from bovine milk. *Vet. Rec.* 82(18):525-526. May 4, 1968. 41.8 V641
- 81956 DEDEK, W., and SCHWARZ, H. Studies on the application to cattle of the low-toxicity <sup>32</sup>P-labeled phosphonic acid ester butonate. (Ge) *Arch. Exp. Veterinarmed.* 21(4):1023-1030. Ref. 1967. 41.8 Ex7  
English summary.  
For cattle parasite control.
- 81957 DELLACHA, J. M., SANTOME, J. A., and PALADINI, A. C. Physicochemical and structural studies on bovine growth hormone. *N. Y. Acad. Sci. Ann.* 148(2):313-327. Ref. Feb. 5, 1968. 500 N484
- 81958 DERRINGTON, P. C. Answers to some common questions on tick fevers. *Queensland Agr. J.* 94(3):178-182. Mar. 1968. 23 Q33  
In cattle.
- 81959 DIAZ-UNGRIA, C. Bovine trichomoniasis in Venezuela. (Sp) *Rev. Vet. Venezolana* 24(140):194-197. Mar. 1968. 41.8 R3226
- 81960 DOKTOR, J. Extrauterine pregnancy. (Cz) *Veterinarstvi* 17(2):85-86. 1967. 41.8 V6439  
Cattle.
- 81961 DOKTOROVA, I. N. Biochemical indices of blood in normal and dyspeptic calves. (Rus) *Veterinariya* 12:74-75. Dec. 1967. 41.8 V6426
- 81962 DU CASE, F. B. W. Infectious diseases of cattle and sheep under intensification. *S. Afr. Vet. Med. Ass. J.* 39(1):109-112. Ref. Mar. 1968. 41.8 So8
- 81963 DU TOIT, R., and SUTHERLAND, R. J. *Armillifer armillatus* (Wyman) (order: Pentastomida) from slaughter livestock. *S. Afr. Vet. Med. Ass. J.* 39(1):77-79. Mar. 1968. 41.8 So8  
Cattle.
- 81964 DUTT, S. C. Studies on *Schistosoma nasalis* Rao, 1933. I. Morphology of the adults, egg and larval stages. *Indian J. Vet. Sci. Anim. Husb.* 37(4):249-262. Ref. Dec. 1967. 41.8 In22  
Collected from buffaloes.
- 81965 EHRET, W. J., ADELAAR, T. F., and KRIEK, N. P. J. An outbreak of *Claviceps paspali* poisoning (Paspalum staggers) in beef cattle. *S. Afr. Vet. Med. Ass. J.* 39(1):103-106. Mar. 1968. 41.8 So8
- 81966 ELLIOTT, R. E. W. Where is mastitis research going? *Town Milk* 16(1):35-38. Feb. 1968. 44.8 T66
- 81967 EMERY, R. S., BELL, J. W., and THOMAS, J. W. Benefits derived from routine testing for milk ketones. *J. Dairy Sci.* 51(6):867-868. June 1968. 44.8 J822  
In diagnosis of ketosis.
- 81968 FAIRBAIRN, L. E. Chronic bloat. *Kans. Stockman* 53(8):13. June 1968. 49 K134  
In cattle.
- 81969 FEDDEMA, R. J. Symptoms of ketonuria in cattle. (Du) *Tijdschr. Diergeneesk.* 93(9):551-557. May 1, 1968. 41.8 T431  
English summary.
- 81970 FEDRIGO, M. Left displacement of abomasum in cattle and surgical treatment. (It) *Nuova Vet.* 44(1):23-38. Ref. Jan./Feb. 1968. 41.8 N922  
English summary.
- 81971 FERENCIK, M., and others. The toxicity of fly ash for cattle. (Cz) *Czech. Min. Zemedel. Lesního Hospodar. Ustav Vedeckotech. Inform. Vet. Med.* 1:37-46. Ref. Jan. 1968. 41.9 C333  
J. Kubince, A. Mraz, M. Halasa, E. Hurtik, V. Tencer, and S. Arvay, joint authors.  
English summary.
- 81972 FIESER, J. E. Raising healthy calves. *Kans. Stockman* 53(2):22-23. Dec. 1967. 49 K134  
Disease control.
- 81973 FILIPAN, T., and CAR, M. A contribution to the study of the distribution of L-triiodothyronine in blood plasma proteins and its correlation with the effect of cattle fattening. (Se) *Vet. Arh.* 37(11/12):405-412. Ref. 1967. 41.8 V6416  
English summary.
- 81974 FILIPAN, T., and CAR, M. A contribution to the study of the distribution of L-triiodothyronine in blood plasma proteins and its correlation with the milk production of the Simmental cattle breeds. (Se) *Vet. Arh.* 37(11/12):401-404. Ref. 1967. 41.8 V6416  
English summary.
- 81975 FISHER, E. W., and SELMAN, I. E. Aortic stenosis in a cow. *Vet. Rec.* 82(22):618-621. June 1, 1968. 41.8 V641
- 81976 FLEGMATOV, N. A. Prophylaxis of parturient and postpartum complications in cows. (Rus) *Veterinariya* 2:96-98. Feb. 1968. 41.8 V6426
- 81977 FOLKERS, C., and PERIE, N. M. The prevalence of *Babesia bovis* (*Babesia argentina*) in the brains of slaughter cattle in northern Nigeria. *Bull. Epizoot. Dis. Afr.* 15(4):359-361. Dec. 1967. 41.8 B872
- 81978 FONTENEAU, M. Congenital cardiopathies in cattle: series of observations. (Fr) *Rev. Med. Vet. [Toulouse]* 31(3):255-271. Ref. Mar. 1968. 41.8 R32  
English summary.
- 81979 FORBES, D., and HERBERT, C. N. Studies in the pathogenesis of staphylococcal mastitis. *Vet. Rec.* 82(3):69-73. Jan. 20, 1968. 41.8 V641  
In cattle; caused by *Staphylococcus aureus* and epidermidis.
- 81980 FOWLE, K. E., and others. Transferrin genotypes and their relationship with blood constituents, fertility and cow productivity. *J. Anim. Sci.* 26(6):1226-1231. Ref. Nov. 1967. 49 J82  
J. H. Cline, E. W. Klosterman, and C. F. Parker, joint authors.

- 81981 GAGLIARDI, G., and ZOLETTO, R. Antigenic relationship among the various types of foot-and-mouth disease virus. *Vet. Ital.* 18(11/12): 696-704. Nov./Dec.1967. 41.8 C87  
Italian text, p.687-695.  
In vaccinated calves.
- 81982 GALATI, P., DAMIANO, S., and ZACCHI, A. Allergy tests and false reactions in the prevention of bovine tuberculosis. (It) *Acta Med. Vet.* 13(5/6):425-433. Sept./Dec.1967. 41.8 Ac84  
English summary.  
Tuberculin tests on a Campania farm.
- 81983 GARDNER, W. R. A workable herd health program for beef cattle in the Southeast. *Auburn Vet.* 24(3):101-105,113-114,120. Ref. Spring 1968. 41.8 Aul
- 81984 GAUNYA, W. S., DANIELS, W. H., and HIRTH, R. S. Mammary aplasia in a fertile cow. *J. Dairy Sci.* 51(5):809. May 1968. 44.8 J822
- 81985 GAVEZ, E. Anergy of tuberculous cattle to tuberculin. (Se) *Vet. Glas.* 21(12):985-988. Dec.1967. 41.8 J93  
English summary.
- 81986 GAVEZ, E. Tuberculin reaction in regard to pathogenesis of tuberculosis. (Se) *Vet. Glas.* 22(1):51-54. Jan.1968. 41.8 J93  
English summary.  
Cattle.
- 81987 GETTY, S. M., and others. Effect of iron on hematology and growth of calves. *J. Anim. Sci.* 27(3):712-717. May 1968. 49 J82  
C. C. Beck, L. D. Brown, G. H. Connor, D. J. Ellis, and E. R. Miller, joint authors.
- 81988 GIBBONS, R. A. Injectable bound Ca for milk fever. *Vet. Rec.* 81(22,clin.sup.12):III-IV. Nov.25,1967. 41.8 V641  
In cattle.
- 81989 GIESECKE, W. H., and others. Laboratory mastitis diagnosis: the microbiological content of parallel teat and gland cistern milk samples from quarters of known status. *S. Afr. Vet. Med. Ass. J.* 39(1):33-44. Ref. Mar. 1968. 41.8 So8  
L. W. Van Den Heever, D. C. Hope, and J. J. Van Staden, joint authors.
- 81990 GILBERT, Y. Detection of antibodies neutralizing the virus of infectious bovine rhinotracheitis in the serum of French cattle. (Fr) *Rev. Vet. Med. [Toulouse]* 31(1):31-36. Jan.1968. 41.8 R32  
English summary.
- 81991 GLASER, D., JOHN, M., and SCHUETZLER, H. Effect of intravenously injected crystallized leucine aminopeptidase of bullock's eye lenses in cattle. (Ge) *Acta Biol. Med. Ger.* 18(3):315-320. 1967. QH301.A25  
English summary.
- 81992 GOGMERAC, W. L. Dairy fly control for 1968. *Hoard's Dairyman* 113(11):691,718. June 10, 1968. 44.8 H65  
Chemical control.
- 81993 GONCHAROVA, N. I. The effect of sevin on the organism of cattle. (Rus) *Veterinariya* 12:64-66. Dec.1967. 41.8 V6426
- 81994 GOURLAY, R. N., and BROCKLESBY, D. W. Preliminary experiments with antigens of *Theileria parva* (Theiler, 1904). *Brit. Vet. J.* 123(12):533-540. Dec.1967. 41.8 V643  
Cattle studies.
- 81995 GRAU, F. H., BROWNLIE, L. E., and ROBERTS, E. A. Effect of some preslaughter treatments on the *Salmonella* population in the bovine rumen and faeces. *J. Appl. Bacteriol.* 31(1):157-163. Ref. Mar.1968. 44.8 So12
- 81996 GRAVES, J. H., and others. Early response of cattle and swine to inactivated foot-and-mouth disease vaccine. *Res. Vet. Sci.* 9(1):35-40. Jan.1968. 41.8 R312  
P. D. McKercher, H. E. Farris, and K. M. Cowan, joint authors.
- 81997 GRUNERT, Z., JAMRICOVA, O., and SKODA, R. Serological detection of infectious rhinotracheitis in cattle in Slovakia. (Ge) *Arch. Exp. Veterinarmed.* 21(5):1183-1190. Ref. 1967. 41.8 Ex7  
English summary.
- 81998 HANDL, R., and KUBES, O. Infectious keratoconjunctivitis of cattle in northern Moravia. (Cz) *Veterinarstvi* 17(1):14-16. 1967. 41.8 V6439
- 81999 HANSEN, W., and SEIFART, K. H. Maintenance of luteal function in the cow. *J. Dairy Sci.* 50(12):1948-1958. Ref. Dec.1967. 44.8 J822
- 82000 HANSON, R. P. Discussion of the natural history of vesicular stomatitis. *Amer. J. Epidemiol.* 87(2):264-266. Mar.1968. 44.8 Am3  
Cattle and swine.
- 82001 HASTEIN, T., and VELLE, W. Placental aldose reductase activity and foetal blood fructose during bovine pregnancy. *J. Reprod. Fert.* 15(1):47-52. Ref. Feb.1968. 44.8 J8222
- 82002 HENTSCHEL, G., and BLOBEL, H. Studies on staphylococcal fibrinolysin. (Ge) *Zentralbl. Bakteriol. Parasitenk. Infektionskr. Hyg. Abt. I, Orig.* 206(2):193-201. Ref. Mar.1968. 44.8 C33  
English summary.  
Includes bovine and canine infections.
- 82003 HERAK, M., MITIN, V., and HERAK, M. Transaminase in the fetal fluids of bovine fetus. (Se) *Vet. Arh.* 37(11/12):368-374. Ref. 1967. 41.8 V6416  
English summary.
- 82004 HEWETSON, R. W. Resistance of cattle to... cattle tick, *Boophilus microplus*. II. The inheritance of resistance to experimental infestations. *Austral. J. Agr. Res.* 19(3):497-505. Ref. May 1968. 23 Au783
- 82005 HIBBITT, K. G. Acetonaemia. *Vet. Rec.* 81(22,clin.sup.12):IV-VI. Nov.25,1967. 41.8 V641  
In cattle.
- 82006 HOLLARD, F., and others. Hematology of the calf. (Fr) *Rev. Vet. Med. [Toulouse]* 31(1):13-29. Ref. Jan.1968. 41.8 R32  
J. Barnique, F. Rambaud, Y. Bennabid, M. Laurent, M. Suscillon, R. Cannepin, and O. Turquand, joint authors.  
English summary.
- 82007 HORMANN, S. The cattle of Western Slovakia are without tuberculosis. (Cz) *Veterinarstvi* 18(5):227. 1968. 41.8 V6439
- 82008 HUDSON, J. R. Contagious bovine pleuropneumonia; experiments on the susceptibility and protection by vaccination of different types of cattle. *Australian Vet. J.* 44(3):83-89. Mar. 1968. 41.8 Au72
- 82009 HUDSON, J. R. Contagious bovine pleuropneumonia; the keeping properties of the V5 vaccine used in Australia. *Australian Vet. J.* 44(4):123-129. Apr.1968. 41.8 Au72
- 82010 HURT, H. D., and others. Rates of formation and absorption of cerebrospinal fluid in chronic bovine hypervitaminosis A. *J. Dairy Sci.* 50(12):1941-1947. Ref. Dec.1967. 44.8 J822  
H. D. Eaton, J. E. Rousseau, and R. C. Hall, joint authors.
- 82011 HUYNH-VAN-KHANG. Pellet bomb effects on livestock and treatment method. *Joint Publ. Res. Serv. Transl. N. Vietnam* 363:50-52. May 10,1968. (JPRS 45,318) SD557.A7J6  
Chiefly injuries to cattle and buffaloes.  
Translation from Khoa Hoc Ky Thuat Nong Nghiep, Dec.1967:474.  
Issued by CFSTI.
- 82012 IBRAGIMOV, E. K. Physiological role of cervix uteri of cows after parturition. (Rus) *Veterinariya* 2:99-100. Feb.1968. 41.8 V6426
- 82013 IKEME, M. M. Kerato-conjunctivitis in the plateau area of northern Nigeria; a study of *Theleazia rhodesi* as a possible aetiological agent. *Bull. Epizoot. Dis. Afr.* 15(4):363-367. Ref. Dec.1967. 41.8 B872
- 82014 IKSANOV, R. G. Testing of blood and amniotic fluid of cattle. (Rus) *Veterinariya* 2:102-103. Feb.1968. 41.8 V6426
- 82015 IRVIN, A. D. Haematological examination of a herd for bovine lymphosarcoma. *Vet. Rec.* 81(22):565-566,567. Nov.25,1967. 41.8 V641
- 82016 IVANOV, V. P. On X-ray diagnosis of foreign bodies in cattle reticulum. (Rus) *Veterinariya* 2:88-90. Feb.1968. 41.8 V6426



- 82017** JACKSON, L. Observations on fescue toxicity in southeast Kansas. *Kans. Stockman* 53(1): 18,47-48,50. Nov.1967. 49 K134  
Causes lameness in cattle.
- 82018** JARVIS, B. D. W. Lysis of viable rumen bacteria in bovine rumen fluid. *Appl. Microbiol.* 16(5):714-723. Ref. May 1968. 448.3 Ap5  
*Streptococcus bovis* and *Butyrivibrio*.
- 82019** JAZBEC, I. Hernia diaphragmatica reticuli in cows. (Se) *Vet. Glas.* 12(3):203-207. Ref. 1968. 41.8 J93  
English summary.
- 82020** JAZBEC, I., KOHLER, W., and SCHILLING, E. Testing oral dosages of gestagen for heat and conception in cows. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 81(10):194-197. Ref. May 15,1968. 41.8 B45  
English summary.  
Chlormadinone acetate and lynestrenol.
- 82021** JENKINSON, D. M., NOBLE, R. C., and THOMPSON, G. E. Adipose tissue and heat production in the new born ox (*Bos taurus*). *J. Physiol.* 195(3):639-646. Ref. Apr.1968. 447.8 J82
- 82022** JOHNSTON, R. V. Bovine virus diarrhea vaccine. *Pract. Vet.* 6:168-176. Nov./Dec.1967. 41.8 AL5
- 82023** JONES, G. A. Influence of acetohydroxamic acid on some activities in vitro of the rumen microbiota. *Can. J. Microbiol.* 14(4):409-416. Ref. Apr.1968. 448.8 C 162  
Cattle.
- 82024** JONES-DAVIES, W. J. A Berenil-resistant strain of *Trypanosoma vivax* in cattle. *Vet. Rec.* 81(22):567-568. Nov.25,1967. 41.8 V641
- 82025** JONES-DAVIES, W. J. The protection of a small group of Nigerian trade cattle from trypanosomiasis using Samorin. *Bull. Epizoot. Dis. Afr.* 15(4):323-335, map. Dec.1967. 41.8 B872
- 82026** JOSHI, B. C., and others. Composition of skin secretions from three Indian breeds of cattle under thermal stress. *J. Dairy Sci.* 51(6):917-920. Ref. June 1968. 44.8 J822  
H. B. Joshi, R. E. McDowell, and D. P. Sadhu, joint authors.  
Haryana, Tharparkar, and Gir.
- 82027** JOSHI, B. C., MCDOWELL, R. E., and SADHU, D. P. Effects of drugs on sweating rates in Haryana cattle. *J. Dairy Sci.* 51(6):905-909. Ref. June 1968. 44.8 J822
- 82028** JOSHI, B. C., MCDOWELL, R. E., and SADHU, D. P. Surface evaporation from the normal body surface and with sweat glands inactivated in Indian cattle. *J. Dairy Sci.* 51(6):915-917. Ref. June 1968. 44.8 J822  
Haryana and Gir breeds.
- 82029** JOUBERT, L., OUDAR, J., and VAN HAVERBEKE, G. Tuberculous endocarditis in cattle; discussion for its control. (Fr) *Lyon. Soc. Sci. Vet. Bull.* 69(2):177-180. 1967. 41.9 L99
- 82030** KAMINSKI, B. A case of malignant soft fibroma in a cow. (Pol) *Med. Weter.* 24(4):240. Apr.1968. 41.8 M463
- 82031** KAPRAL, O. A rare case of ileus in cattle. (Cz) *Veterinarstvi* 17(2):86. 1967. 41.8 V6439
- 82032** KARTUZOVA, V. N. Physiological indices of cow blood serum during post-parturition period. (Rus) *Veterinariya* 12:82-83. Dec.1967. 41.8 V6426
- 82033** KISELEV, N. P. On biology of *Paramphistomum ichikawai* Fukui. (Rus) *Veterinariya* 12: 51-53. Dec.1967. 41.8 V6426  
In cattle and sheep.
- 82034** KLATT, P. Treatment of Trichophyton infections of cattle with two new antimycotics. (Ge) *Blauen H. Tierarzt* 36:18-21. Feb.1968. 41.9 B61
- 82035** KLEINSCHROTH, E., RICHTER, O., and SCHUMANN, H. The use of electronic determination of milk cell content in udder health service and in the quality inspection of milk. (Ge) *Tierarztl. Umsch.* 23(4):151-154,157-158. Apr.1, 1968. 41.8 T445  
Coulter counter.
- 82036** KOKLES, R., and others. Comparative fluorescence-immunological and cytopathological studies with various virus strains of the mucosal disease of cattle. (Ge) *Arch. Exp. Veterinarmed.* 21(5):1295-1304. Ref. 1967. 41.8 Ex7  
D. Urbaneck, H. Liebermann, and A. F. Olechnowitz, joint authors.  
English summary.
- 82037** KONDRASHEV, A. A. Weight of calf at birth as related to duration of embryonal period and the weight of its mother. (Rus) *Zhivotnovodstvo* 3: 80-82. Mar.1968. 49 Z6
- 82038** KUBICEK, A. A contribution to the description of hoofs in cattle. (Cz) *Veterinarstvi* 18(5): 219-221. 1968. 41.8 V6439  
Veterinary teaching.
- 82039** KURAKINA, T. A. Ring test with milk in the case of cattle paratyphoid. (Rus) *Veterinariya* 12:105-106. Dec.1967. 41.8 V6426  
*Salmonella* spp. identified.
- 82040** KUZMNYKH, A. A. Regeneration of nerves and nerve-endings in wounds of cattle. (Rus) *Veterinariya* 2:92-95. Feb.1968. 41.8 V6426
- 82041** LABUNSKII, V. M., and PUSTOVAR, YA. P. Anaphylactic reactions to blood transfusion in cattle. (Rus) *Veterinariya* 12:75-77. Dec. 1967. 41.8 V6426
- 82042** LAGNEAU, F. Non-parturition in the cow. (Fr) *Rev. Elevage* 23(1):65,67-68. Jan.1968. 49 B462
- 82043** LAMMERS, H. W. Grass tetany in color. (Du) *Neth. Dir. Landbouw. Landbouwvoorlichting* 25 (5):224-225. May 1968. 12 N383M  
Description of a color film on the subject.
- 82044** LANE, A. G., CAMPBELL, J. R., and KRAUSE, G. F. Blood mineral composition in ruminants. *J. Anim. Sci.* 27(3):776-770. Ref. May 1968. 49 J82  
Trichloroacetic acid in cattle.
- 82045** LANGE, W., and RASCHKE, H. Threshold studies of defense reflexes in cattle. (Ge) *Arch. Exp. Veterinarmed.* 21(5):1267-1271. 1967. 41.8 Ex7  
English summary.
- 82046** LARSEN, A. B. The effect of management on the incidence of clinical Johne's disease. *Amer. Vet. Med. Ass. J.* 152(12):1771-1773. June 15,1968. 41.8 Am3  
In cattle.
- 82047** LARUE, B. Benefit from a dairy health program. *Kans. Stockman* 53(5):36-37. Mar.1968. 49 K134
- 82048** LAX, T. The present state of longworm disease and trichostrongylosis in cattle on pasture. (Cz) *Veterinarstvi* 17(1):16-19. 1967. 41.8 V6439
- 82049** LEEK, B. F. Vagus indigestion in cattle. *Vet. Rec.* 82(17):498-499. Ref. Apr.27,1968. 41.8 V461
- 82050** LEFEVRE, M., and GIDEL, R. A propos of two cases of bacterial anthrax in domestic antelopes at Bobo-Doulasso. (Fr) *Rev. Pathol. Comp.* 67(791/792):423-429, map. Oct./Dec. 1967. 448.8 R326
- 82051** LIEBERMANN, H. Investigations into stomatitis papulosa with particular reference to differential diagnosis. (Ge) *Arch. Exp. Veterinarmed.* 21(5):1319-1336. Ref. 1967. 41.8 Ex7  
English summary.  
Cattle.
- 82052** LINDLEY, E. P. An immunity test in cattle to compare two contagious bovine pleuropneumonia vaccines. *Bull. Epizoot. Dis. Afr.* 15(4): 307-311. Ref. Dec.1967. 41.8 B872
- 82053** LINDNER, H., and GUDAT, E. Protein spectrum and cell contents of the udder lymph of cattle. (Ge) *Arch. Exp. Veterinarmed.* 21(5): 1147-1153. Ref. 1967. 41.8 Ex7  
English summary.
- 82054** LITTLE, C. O., MITCHELL, G. E., and REITNOUR, C. M. Postruminal digestion of corn starch in steers. *J. Anim. Sci.* 27(3):790-792. Ref. May 1968. 49 J82
- 82055** LITVINENKO, V. V. The diagnosis of latent infection and excretion of *Brucella* organisms through sex organs in cows. (Rus) *Veterinariya* 12:31-34. Dec.1967. 41.8 V6426

- 82056 LUPKE, H., MULLING, M., and SOHN, E. Investigations of materno-fetal correlations of cattle. II. The content of total nitrogen, urea, uric acid and creatinine of the amniotic and allantoic fluid. (Ge) Berliner Munchener Tierarztl. Wochenschr. 80(23):449-450. Dec.1, 1967. 41.8 B45  
English summary.
- 82057 MAI, V. V. The effect of diplococcal vaccine on protein composition of blood serum from pregnant cows and their offspring. (Rus) Veterinariya 2:54-57. Feb.1968. 41.8 V6426
- 82058 MALININA, T. P. Anitparatyphoid agglutinin content in colostrum and blood serum of newborn calves. (Rus) Veterinariya 2:33-35. Feb. 1968. 41.8 V6426
- 82059 MANSIKKA, E. Investigations on antibiotic-resistance of mastitis-staphylococci using the multodisc-method. (Fi) Suomen Elainlaakari-lehti 74(4):130-134. Ref. 1968. 41.8 F49  
English summary.
- 82060 MARKOVITS, P., VEKES, P., and RUZICKSKA, P. Development of permanent cell lines from calf embryonic kidney tissue. (Hu) Magyar Allatrov. Lapja 23(1):24-28. Jan.1968. 41.8 V644  
English summary.
- 82061 MATHIAS, M. M., and ELLIOT, J. M. Propionate metabolism by bovine liver homogenates with particular reference to stress of lactation. J. Dairy Sci. 50(12):1935-1940. Ref. Dec.1967. 44.8 J822
- 82062 MCDANIEL, J. W., SCALZI, H., and BLACK, D. L. Influence of ovarian hormones on histology and histochemistry of the bovine oviduct. J. Dairy Sci. 51(5):754-761. Ref. May 1968. 41.8 J822
- 82063 MCDONALD, J. S. Radiographic method for anatomic study of the teat canal: Changes with lactation age. Amer. J. Vet. Res. 29(6):1207-1210. Ref. June 1968. 41.8 Am3A  
Cows.
- 82064 MCDONALD, J. S. Radiographic method for anatomic study of the teat canal: Observations on 22 lactating dairy cows. Amer. J. Vet. Res. 29(6):1315-1319. Ref. June 1968. 41.8 Am3A
- 82065 MCFERRAN, J. B., and others. Further investigations on enterovirus-neutralising substances in human and animal sera. J. Pathol. Bacteriol. 95(1):93-99. Ref. Jan.1968. 44.8 J82  
D. S. Dane, E. M. Briggs, T. Connor, and R. Nelson, joint authors.
- 82066 MCKERCHER, D. G., and others. Complications in cattle following vaccination with a combined bovine viral diarrhea-infectious bovine rhinotracheitis vaccine. Amer. Vet. Med. Ass. J. 152(11):1621-1624. June 1, 1968. 41.8 Am3  
J. K. Saito, G. L. Crenshaw, R. B. Bushnell, joint authors.
- 82067 MGLINETTS, A., and EPIFANOV, G. Meat quality of young cattle as related to sex and age. (Rus) Myasnaya Indus. SSSR. 2:41-42. Feb. 1968. 50.8 M58
- 82068 MICHELL, A. R. Fluid therapy for dehydration in calves. Vet. Rec. 82(18):527-528. May 4, 1968. 41.8 V641
- 82069 MILJKOVIC, V., and LJESJEVIC, Z. An interesting case of dropsy of allantois in cattle. (Se) Vet. Glas. 21(1):85-87. 1967. 41.8 J93
- 82070 MILLS, J. B., and WILHELM, A. E. Effects of treatment of bovine, porcine, and human growth hormones with sulfite. N. Y. Acad. Sci. Ann. 148(2):343-351. Ref. Feb.5, 1968. 500 N484
- 82071 MINEEV, V. S. Change of rumen microflora in young cattle. (Rus) Veterinariya 2:38-39. Feb.1968. 41.8 V6426
- 82072 MISHRA, B. Role of Streptococcus bovis in rumen metabolism with special reference to bloat in cattle. Indian J. Vet. Sci. Anim. Husb. 37(4):232-248. Ref. Dec.1967. 41.8 In22
- 82073 MOL, H. The occurrence of antibiotic-residues in milk delivered at dairy-factories. (Du) Tijdschr. Diergeneesk. 93(9):579-583. May 1, 1968. 41.8 T431  
English summary.
- 82074 MOL, H., and BAKKER-DE KOFF, E. C. The occurrence of antibiotic-residues in the milk of cows after intra-mammary infusion with penicillin dihydrostreptomycin. (Du) Tijdschr. Diergeneesk. 93(9):584-587. May 1, 1968. 41.8 T431  
English summary.
- 82075 MOON, H. W., and others. Response of lymphocyte-depleted calves to fluid tetanus toxoid. Amer. J. Vet. Res. 29(6):1211-1214. Ref. June 1968. 41.8 Am3A  
R. D. Stoner, D. D. Joel, A. D. Chanana, E. P. Cronkite, joint authors.
- 82076 MORTEN, D. H., and COX, J. E. Bovine dystocia; a survey of 200 cases met with in general practice. Vet. Rec. 82(19):530-537. Ref. May 11, 1968. 41.8 V641  
In Britain.
- 82077 MOUR, K. On the occurrence of puerperal paralysis in cattle. (Cz) Veterinarstvi 17(2): 87-89. 1967. 41.8 V6439
- 82078 MOUR, K. The poisoning of cattle with phenol forte. (Cz) Veterinarstvi 18(4):179-180. 1968. 41.8 V6439
- 82079 MRVOS, G., JOVANOVIĆ, M. J., and ILIĆ, M. The complete rupture of the uterus in cattle during the calving as an absolute indication for cesarean section. (Se) Vet. Glas. 21(4):375-377. Ref. 1967. 41.8 J93
- 82080 MURTHY, G. N., ESWARAIHAH, and REDDY, J. S. A case of abomasal impaction in a cow. Indian Vet. J. 44(11):978-980. Nov.1967. 41.8 In2
- 82081 MYLREA, P. J. Functioning of the digestive tract of young fasted calves. Res. Vet. Sci. 9(1):1-4. Jan.1968. 41.8 R312
- 82082 MYLREA, P. J. Gastro-intestinal disorders and the functioning of the digestive tract of young calves. Res. Vet. Sci. 9(1):14-28. Ref. Jan.1968. 41.8 R312
- 82083 MYLREA, P. J. Passage of antibiotics through the digestive tract of normal and scouring calves and their effect upon the bacterial flora. Res. Vet. Sci. 9(1):5-13. Ref. Jan.1968. 41.8 R312  
Neomycin and dihydrostreptomycin.
- 82084 NAKONECHNIKOV, B. D. The function of enzyme secretion in calves in the case of dyspepsia. (Rus) Veterinariya 12:72-74. Dec.1967. 41.8 V6426
- 82085 NEMETH, I. Prevention of sucking each other of calves. (Hu) Magyar Mezőgazdaság 23(16): 18-19. Apr.17, 1968. 19 M27  
With restraining installation.
- 82086 NORCROSS, N. L., DODD, K., and STARK, D. M. Use of the mouse protection test to assay streptococci antibodies in bovine serum and milk. Amer. J. Vet. Res. 29(6):1201-1205. June 1968. 41.8 Am3A  
Streptococcus agalactiae.
- 82087 NORDSTROM, G. Digestive disturbances of cow caused by soot contaminated forage. (Sw) Svensk Veterinartidn. 20(7):209-210. Apr.1968. 41.9 Sv23
- 82088 OBRIEN, C. A., BLOSS, R. E., and NICKS, E. F. Effects of melengestrol acetate on the growth and reproductive physiology of fattening heifers. J. Anim. Sci. 27(3):664-667. Ref. May 1968. 49 J82
- 82089 OLECHNOWITZ, A. F. The fractionation of foot-and-mouth disease hyperimmune serum from cattle by a combination of gel filtration and column electrophoresis. (Ge) Arch. Exp. Veterinarmed. 21(4):981-987. 1967. 41.8 Ex7  
English summary.
- 82090 OLTJEN, R. R., and others. Metabolism, plasma amino acid and salivary studies with steers fed corn, wheat, barley and milo all-concentrate rations. J. Anim. Sci. 26(6):1415-1420. Nov.1967. 49 J82  
A. S. Kozak, P. A. Putnam, and R. P. Lehmann, joint authors.



- 82091 ONO, W., NISHIKAWA, N., and TOMITA, J. Influence of blood-sucking insects upon barn-housed dairy cows. (Ja) Jap. Vet. Med. Ass. J. 20(12):525-528,533. Dec.1967. 41.9 J275
- 82092 ORFEUR, N. B., and EDELSTEN, R. M. Unusual features in an anthrax outbreak. Vet. Rec. 82(22):634-635. June 1,1968. 41.8 V641 In cattle in Britain.
- 82093 OSMAN, A. H., and RIZGALLA, Y. Normal growth and development up to one year of age of Sudanese cattle with special reference to the influence of sex and sire. J. Agr. Sci. 70(2):117-121. Ref. Apr.1968. 10 J822
- 82094 PACURARU, G., and PLESCA, D. The use of denervin and adrenalin in dehorning calves. (Rum) Rev. Zooteh. Med. Vet. 17(12):67-69. Dec.1967. 49 P943 English summary.
- 82095 PARKER, W. H. Mastitis control. Great Brit. Min. Agr. Fish. Food. Agr. 75(3):119-124. Mar.1968. 10 G79J In relation to use of milking machines.
- 82096 PATTERSON, D. S., and others. Some biochemical aspects of clinical Johne's disease in cattle. Res. Vet. Sci. 9(2):117-129. Ref. Mar. 1968. 41.8 R312 W. A. Allen, S. Berrett, L. N. Ivins, D. Sweasey, joint authors.
- 82097 PAYNE, J. M. The cause and prevention of milk fever. Vet. Rec. 81(22,clin.sup.12):I-II. Nov.25,1967. 41.8 V641 In cattle.
- 82098 PAYNE, J. M. Treating milk fever. Milk Prod. [London] 15(3):74-76. Mar.1968. 280.38 M598
- 82099 POGULYAI, V. D., and SVYATKIN, M. T. Management of veterinary and sanitary work aimed at improvement of milk quality. (Rus) Veterinariya 12:89-92. Dec.1967. 41.8 V6426
- 82100 POLAKOVA, M., and LEBDUSKA, J. Therapy of diarrheal diseases in newborn calves with neomycin and its combinations with nitrofurans. (Cz) Veterinarstvi 17(11):495-499. 1967. 41.8 V6439
- 82101 PORTMAN, R. W., and CLEVELAND, G. W. 1968 fly control for Idaho dairymen. Idaho. Univ. Ext. Idaho. Curr. Inform. Ser. 70,2 p. Apr.1968. 275.29 Id13Idc
- 82102 PORTOLANI, M., BERNARDINI, A., and LA PLACA, M. On the susceptibility of bovine enteroviruses to the inhibitory action of guanidine and 2-(alpha-hydroxybenzyl)-benzimidazole. Ital. Vet. 19(1/2):82-85. Ref.,p.80-81. Jan./Feb.1968. 41.8 C87 Italian text, p.76-81.
- 82103 POSPISIL, J., and BERAN, M. The utilization of komplexone III in the conservation of blood for hematological investigation. (Cz) Veterinarstvi 18(5):217-218. 1968. 41.8 V6439 Cattle.
- 82104 PRASAD, B. M., and others. Pseudomonas pneumonia in calves. Acta Vet. [Budapest] 17(4):363-369. Ref. 1967. 41.8 Ac83 C. P. Srivastava, K. G. Narayan, and A. K. Prasad, joint authors. Pseudomonas aeruginosa.
- 82105 PRASAD, L. B. M., and NEWBOULD, F. H. S. Inoculation of the bovine teat duct with Staphylococcus aureus: The relationship of teat duct length, milk yield and milking rate to development of intramammary infection. Can. Vet. J. 9(5):107-115. Ref. May 1968. 41.8 R3224 An experiment designed to produce mastitis.
- 82106 PRINS, R. A., and SEEKLES, L. Effect of chloral hydrate on rumen metabolism. J. Dairy Sci. 51(6):882-887. Ref. June 1968. 44.8 J822
- 82107 PUGH, G. W., and HUGHES, D. E. Experimental bovine infectious keratoconjunctivitis caused by sunlamp irradiation and Moraxella bovis infection: Correlation of hemolytic ability and pathogenicity. Amer. J. Vet. Res. 29(4): 835-839. Apr.1968. 41.8 Am3A
- 82108 PUHAC, I., and others. Contribution to the knowledge of effect of different environmental technological conditions on the forming of physiological constants in blood. IV. (Se) Vet. Glas. 22(1):3-15. Ref. Jan.1968. 41.8 J93 G. Gadajski, M. Dimitrijevic, N. Hrgovic, and A. Cvetkovic, joint authors. English summary. Blood proteins of calves under different conditions of care and feeding.
- 82109 PUHAC, I., and others. Contribution to the knowledge of the effect of different environmental-technological conditions on the formation of physiological blood constants and the results of fattening. V. Weight gain, feed conversion and meat quality. (Se) Vet. Glas. 12(2):93-100. 1968. 41.8 J93 N. Sevkovic, I. Savic, N. Zotovic, B. Piscevic, and D. Kepcija, joint authors. English summary. Calves.
- 82110 PUHAC, I., and others. A contribution to the study of the effect of different environmental and technological conditions on the formation of physiological constants in the blood and on the results of the fattening of calves. III. The concentration of sodium, potassium, carotene and vitamins in blood serum and in blood glucose. (Se) Vet. Glas. 21(12):947-956. Ref. 1967. 41.8 J93 N. Hrgovic, M. J. Jovanovic, A. Cvetkovic, and G. Gadajski, joint authors. English summary.
- 82111 PUTNAM, P. A., BOND, J., and LEHMANN, R. Gestation and feed intake effects on rate of passage of chromic oxide in beef heifers. J. Anim. Sci. 26(6):1428-1433. Nov.1967. 49 J82
- 82112 RADEMACHER, R., and JIRUSKA, F. Bromothymol blue-peroxide test. (Cz) Veterinarstvi 17(2):79-83. 1967. 41.8 V6439 In the diagnosis of mastitis in cattle.
- 82113 RADOMINSKI, W., and KONDRACKI, M. The serological typing of Escherichia coli isolated from cases of calf colibacteriosis in Poland and introductory analysis of the occurrence of each particular disease form. (Pol) Med. Weter. 24(4):217-220. Ref. Apr.1968. 41.8 M463 English summary.
- 82114 RATHS, H., and SCHMIDT, F. W. Brief report on the testing of the present official hematological assessment key for diagnosis of leucosis in cattle. (Ge) Berliner Munchener Tierarztl. Wochenschr. 81(10):192-194. Ref. May 15, 1968. 41.8 B45 English summary.
- 82115 RAYNAUD, J. P. Digestive strongylosis of cattle; efficiency tests of pyrantel accomplished in France in case of larval ostertagiosis. (Fr) Rev. Med. Vet. [Toulouse] 31(3):243-253. Ref. Mar.1968. 41.8 R32 English summary.
- 82116 RENAULT, L., and others. Diagnosis of the colibacillosis of calves. (Fr) Rec. Med. Vet. 144(4):315-323. Ref. Apr.1968. 41.8 R24 A. Vallee, J. Gauthier, and C. Maire, joint authors. English summary.
- 82117 RIERA PLANAGUMA, D. S. Gastro-enteropathies of nutritional type in the suckling calf. (Sp) Col. Ofic. Vet. Prov. Barcelona. An. 24(282):665-680. Dec.1967. 41.9 C67
- 82118 ROBERTS, J. E., and BARNES, G. Dust bags for control of horn flies on beef and dairy cattle. Ark. Cattle Bus. 4(6):30. June 1968. 43.8 Ar43
- 82119 ROEDER, G. Contributions to the problem of detection and control of secretorial disturbances. (Ge) Arch. Lebensmittelhyg. 19(5): 108-112. (Cont.) May 1968. 41.8 L49 Udder diseases of cattle.
- 82120 ROGERS, P. A. M., and POOLE, D. B. R. Survey of winter tetany in suckler cows. Farm Res. News 9(1):16. Jan./Feb.1968. 10.5 F223 Ireland.

- 82121 ROINE, K. Some observations on surgical treatment of traumatic reticuloperitonitis in the bovine. (Fi) Suomen Eläinlääkärilehti 74(3): 90-94. 1968. 41.8 F49  
English summary.
- 82122 ROSE, J. H. Species of gastro-intestinal nematodes of cattle in S. E. England. Vet. Rec. 82(22):615-617. Ref. June 1, 1968. 41.8 V641
- 82123 ROSS, J. G. The life span of *Fasciola hepatica* in cattle. Vet. Rec. 82(21):587-589. Ref. May 25, 1968. 41.8 V641
- 82124 ROSSI, L. A contribution to the differential diagnosis of the infection of cattle with *Mycobacterium avium* and *Mycobacterium johnei*. (Cz) Veterinarstvi 17(1):91-2. 1967. 41.8 V6439
- 82125 ROSSOW, N. Clinical-diagnostical liver examinations in acetoneemia (ketosis) of cattle. (Ge) Arch. Exp. Veterinarmed. 21(4):1005-1013. Ref. 1967. 41.8 Ex7  
English summary.
- 82126 ROWE, L. W., ZWART, D., and KOUWENHOVEN, B. A comparison of the haemagglutination-inhibition and neutralisation test in the essay of rinderpest antibodies in cattle. Bull. Epizoot. Dis. Afr. 15(4):301-306. Ref. Dec. 1967. 41.8 B872
- 82127 SADOKOVA, A. P., and BOBROVSKAYA, N. D. Proteins and amino acids in the blood serum of hybrid cattle and under different feeding conditions. (Rus) Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina. Dokl. 1:27-30. Jan. 1968. 20 Akl
- 82128 SANDERS, D. P. Cattle-mosquito study begins in South Texas. Pest Contr. 36(4):32, 34, 46, 48. June 1968. 44.8 Ex8
- 82129 SANGALLI, G. L. Relations in certain cases of stomatitis and infectious rhinitis in cattle imported from Czechoslovakia and west Germany during the period of July 25 to August 30, 1967. (It) Vet. Ital. 19(3):175-188. Mar. 1968. 41.8 C87
- 82130 SASVARI, Z. The effect of the age of cows on the milk protein and casein content. Acta Agron. [Budapest] 17(1/2):61-69. Ref. 1968. 19 Ac8
- 82131 SATTER, L. D., and ESDALE, W. J.. In vitro lactate metabolism in ruminal ingesta. Appl. Microbiol. 16(5):680-688. Ref. May 1968. 44.8 Ap5  
In cattle.
- 82132 SCANLON, P., SREENAN, J., and GORDON, I. Hormonal induction of superovulation in cattle. J. Agr. Sci. 70(2):179-182. Ref. Apr. 1968. 10 J822
- 82133 SCHEIBNER, R. A., and KNAPP, F. W. 1968 insecticide recommendations for lactating dairy animals. Ky. Univ. Ext. Misc. 256-E, 2 p. Jan. 1968. 275.29 K415M
- 82134 SCHEIDY, S. F., and BUCY, C. B. Evaluation of a prolonged-acting oral dose form of sulfamethazine in cattle. Vet. Med./Small Anim. Clin. 62(12):1161-1164. Ref. Dec. 1967. 41.8 M69
- 82135 SCHMIDT, F. W. The latex test for serological diagnosis of bovine leukosis. (Ge) Deut. Vet. Ges. Ber. 7th Congr.:172-184. 1968. 41.9 D482  
English summary.
- 82136 SCHWARZ, H., and DEDEK, W. On the behavior of <sup>32</sup>P-labeled insecticide organophosphoric compounds after intracisternal administration in cattle. A contribution to the resorption of biologically active substances from the udder of cattle. I. Trichlorphon. (Ge) Arch. Exp. Veterinarmed. 21(4):1031-1035. Ref. 1967. 41.8 Ex7  
English summary.
- 82137 SEEBECK, R. M., and TULLOH, N. M. Developmental growth and body weight loss of cattle. II. Dissected components of the commercially dressed and jointed carcass. Austral. J. Agr. Res. 19(3):477-495. Ref. May 1968. 23 Au783
- 82138 SEILS, H. Investigations into the question of the occurrence of different types of lymphocytes in cattle with particular reference to enzootic leukosis. (Ge) Arch. Exp. Veterinarmed. 21(4):1087-1097. Ref. 1967. 41.8 Ex7  
English summary.
- 82139 SHAIKHAMANOV, M. KH. Some regularities of abomasum gland secretion in calves. (Rus) Veterinariya 12:69-71. Dec. 1967. 41.8 V6426
- 82140 SHARAI, N. L. Elimination of anaphylaxis in cattle by application of procaine. (Rus) Veterinariya 12:77. Dec. 1967. 41.8 V6426
- 82141 SHEMESH, M., AYALON, N., and LINDNER, H. R. Early effect of conceptus on plasma progesterone level in the cow. J. Reprod. Fert. 15(1):161-164. Ref. Feb. 1968. 44.8 J8222
- 82142 SHIDELER, F. J. 1968 range war; Extension launches air offensive. Ext. Serv. Rev. 39(6):6-7. June 1968. 1 Ex892Ex  
Aerial chemical control of *Haematobia irritans* and *Musca autumnalis* on South Dakota cattle.
- 82143 SHIFRINE, M., and DOMERMUTH, C. H. Contagious bovine pleuropneumonia in wildlife. Bull. Epizoot. Dis. Afr. 15(4):319-322. Dec. 1967. 41.8 B872  
Enzootic studies in Kenya.
- 82144 SHIRLEY, R. L., and others. Phosphorus fertilization of pangolagrass pastures and phosphorus, calcium, hemoglobin and hematocrit in blood of cows. J. Anim. Sci. 27(3):757-765. Ref. May 1968. 49 J82  
J. F. Easley, J. T. McCall, G. K. Davis, W. G. Kirk, and E. M. Hodges, joint authors.
- 82145 SIKTER, A. Cesarean section on cattle following uterus rupture. (Hu) Magyar Allatorv. Lapja 23(1):44-45. Jan. 1968. 41.8 V644
- 82146 SINGH, B. Immunisation may be a way to control fertility in unwanted cattle. Gosamvardhana 15(10):11-12. Jan. 1968. 43.8 G69
- 82147 SINGH, G., and GULRAJANI, T. S. A note on the application of the conglutinating complement absorption test for the detection of rinderpest antibodies. Cur. Sci. 37(7):203-204. Apr. 5, 1968. 475 Sci23
- 82148 SINGH, H., and RAO, B. V. Some observations on the histochemistry of daughter cysts from hydatids of buffaloes. Indian Vet. J. 44(11):933-938. Nov. 1967. 41.8 In2
- 82149 SINGH, R. P. "Wooden tongue" in cattle and its prevention. Gosamvardhana 15(10):31. Jan. 1968. 43.8 G69
- 82150 SLYTER, L. L., and PUTNAM, P. A. In vivo Vs. in vitro continuous culture of ruminal microbial populations. J. Anim. Sci. 26(6):1421-1427. Nov. 1967. 49 J82  
Includes studies with fistulated cattle.
- 82151 SMITH, H. J., and ARCHIBALD, R. M. Experimental helminthiasis in parasite-free calves on marshland pastures. Can. Vet. J. 9(2):46-55. Ref. Feb. 1968. 41.8 R3224
- 82152 SMYK, J., SMYK, I., and SZYMANSKI, R. Preservation of the activity of aminotransferases and phosphatases and the levels of proteins fraction in the blood of immunized oxen. (Pol) Med. Weter. 24(4):244-245. Apr. 1968. 41.8 M463
- 82153 SMYTH, P. J. An outbreak of male fern (*Dryopteris filix-mas*) poisoning. Irish Vet. J. (n.s.) 22(4):69-71. Apr. 1968. 41.8 Ir4  
In cattle.
- 82154 SNOBL, A., and SLESINGER, J. On the problem of utilization of pastures in submountain areas with respect to dictyocaulosis. (Cz) Veterinarstvi 18(4):161-163. 1968. 41.8 V6439  
Cattle.
- 82155 SOFLETEA, I., and others. The occurrence of leptospirosis in cattle and swine in Mures and Harghita districts. (Rum) Microbiol. Parazit. Epidemiol. 13(2):153-156. Mar./Apr. 1968. 44.8 M584  
D. Silvan, M. Oltean, and A. Ronea, joint authors.



- 82156 SOKOLOV, V. A. Controlled calving of beef cattle. (Rus) *Zhivotnovodstvo* 4:69-70. Apr. 1968. 49 Z6
- 82157 SRIVASTAVA, S. N. Gid in a bullock. *Indian Vet. J.* 44(11):981-982. Nov.1967. 41.8 In2 Surgical treatment.
- 82158 STAUB, O. C., and WIZIGMANN, G. Laboratory diagnosis of infectious bovine rhinotracheitis (IBR). (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 81(6):108-109. Ref. Mar.15,1968. 41.8 B45  
English summary.
- 82159 STEENKAMER, N., and LENS, G. New methods for detection of veal calves treated with diethylstilboestrol (D.E.S.) and hexoestrol. (Du) *Tijdschr. Diergeneesk.* 93(10):623-632. May 15,1968. 41.8 T431  
English summary.
- 82160 STELLMACHER, W. On the testing of milking aids. (Ge) *Arch. Exp. Veterinarmed.* 21(4): 921-929. 1967. 41.8 Ex7  
English summary.  
Bactericidal effects.
- 82161 STELLMANN, C., and others. Quantitative control of the foot-and-mouth disease vaccine; statistical analysis of the relation between the titres of neutralizing antibodies and the percentage of bovine protection. (Fr) *Rec. Med. Vet.* 144(4):325-351. Ref. Apr.1968. 41.8 R24  
P. Bornarel, R. Lang, and J. Terre, joint authors.  
English summary.
- 82162 STEPANOVA, N. I., and TIMOFEEV, B. A. The dynamics of protein metabolism and morphological characteristics of blood during the experimental toxoplasmosis in cattle. (Rus) *Vestnik Sel'skokhoz. Nauk.* [Moscow] 3:127-129. Ref. Mar.1968. 20 V633  
English summary.
- 82163 SUTMOLLER, P., MCVICAR, J. W., and CONTRAL, G. E. The epizootiological importance of foot-and-mouth disease carriers. I. Experimentally produced foot-and-mouth disease carriers in susceptible and immune cattle. *Arch. Gesamte Virusforsch.* 23(3):227-235. Ref. 1968. 44.8.3 Ar23
- 82164 SWIETLIKOWSKI, M. Studies on immunity of calves to *Dictyocaulus viviparus* reinfection. I-II. *Acta Parasitol. Polon.* 15(1/21):141-156. Ref. 1967. 436.8 Ac8
- 82165 SYSOEV, A. A., and BITYUKOV, I. P. Amino acid composition of blood serum of cows at different stages of reproductive function. (Rus) *Veterinariya* 2:100-102. Feb.1968. 41.8 V6426
- 82166 SZAJKO, L. Udder and milkability studies. (Hu) *Allattenyesztes* 17(1):11-20. Ref. Feb. 1968. 49 AL57  
English summary.  
Includes effects of oxytocin.
- 82167 SZOVATAY, GY. Reposition of torsio uteri on the standing position of the cow by means of direct turning of the uterus. (Hu) *Magyar Allatrov. Lapja* 23(1):45-46. Jan.1968. 41.8 V644
- 82168 TADDEI, G., and BENIMEO, N. On a particular infectious syndrome of unknown nature in cattle in certain districts of southern Italy. (It) *Vet. Ital.* 19(3):161-174. Mar.1968. 41.8 C87
- 82169 TAJIMA, M., GORDON, D. E., and OLSON, C. Electron microscopy of bovine papilloma and deer fibroma viruses. *Amer. J. Vet. Res.* 29(6):1185-1194. Ref. June 1968. 41.8 Am3A
- 82170 TARASOV, V. R. Medical assistance in uterine prolapse of cows. (Rus) *Veterinariya* 2:103-105. Feb.1968. 41.8 V6426
- 82171 TASIC, B. Treatment of *Coryza gangraenosa* bovis with Deltacortil. (Se) *Vet. Glas.* 21(5): 433-434. 1967. 41.8 J93
- 82172 TERBLANCE, J., and MINNE, J. A. Thiodan poisoning of cattle—a case report. *S. Afr. Vet. Med. Ass. J.* 39(1):91-92. Mar.1968. 41.8 So8
- 82173 THOMPSON, W. H., and HOUSTON, B. Mastitis costs the dairymen millions. *Dairyfarming Dig.* 15(2):33-35. Mar./Apr.1968. 44.8 D1443  
Australia.
- 82174 TODD, J. R. Grass tetany. *Vet. Rec.* 81(22,clin.sup.12):VI-VIII. Nov.25,1967. 41.8 V641  
In cattle.
- 82175 TORRENT-MOLLEVI, D. M. Chronic mastitis in the area of Urgel (Lerida). (Sp) *Notic. Neosan* 144:5-18. Jan./Feb.1968. 41.8 N84  
In cattle.
- 82176 TRIBE, G. W., KANAREK, A. D., and WHITE, G. Preliminary studies on the development of a bovine parainfluenza-3 virus vaccine. *Res. Vet. Sci.* 9(2):152-159. Ref. Mar.1968. 41.8 R312
- 82177 TRINH VAN THINH. On buffalo disease in Vietnam. *Joint Publ. Res. Serv. Transl. N. Vietnam* 296:20-29. Dec.29,1967. (JPRS 43,828) DS557.A7J6  
Translation from Khoa Hoc Ky Thuat Nong Nghiep 67:262-267. July 1967.  
Issued by CFSTI.
- 82178 TURNER, C. W. What causes high milk production: Story of the role of the thyroid gland in milk secretion. *Mo. Agr. Exp. Sta. Bull.* 871,23 p. Ref. Apr.1968. 100 M693
- 82179 TWIEHAUS, M. J. Footrot of cattle-infectious pododermatitis, foul. *Nebr. Cattleman* 24(10): 28. June 1968.
- 82180 VARIAN, N. B., HENRICKS, D. M., and ME-LAMPY, R. M. Luteinizing hormone activity in bovine plasma. *Iowa State J. Sci.* 42(4):319-324. Ref. May 1968. 470 Io9
- 82181 VISILIER, A. A., and others. The efficiency of bithional against cattle paramphistomiasis. (Rus) *Veterinariya* 12:50-51. Dec.1967. 41.8 V6426  
V. A. Matuzenko, V. V. Gorokhov, G. N. Zhy-ni, Yu. G. Artemenko, and I. Ya. Moroz, joint authors.
- 82182 VOGEL, H. J. Form and modification of the morphology of the uterine glands of the cow after maceration. (Ge) *Zentralbl. Veterinar-med. Reihe A*, 15(3):204-225. Ref. May 1968. 41.8 Z5  
English summary.  
Using maceration with acetic acid.
- 82183 VRBA, Z. Causes of perinatal and postnatal losses of calves under normal and difficult parturitions. (Cz) *Veterinarstvi* 17(2):58-62. 1967. 41.8 V6439
- 82184 VYBORNÝ, B. Some notions on the eradication of trichophytosis. (Cz) *Veterinarstvi* 17(2): 83-84. 1967 41.8 V6439  
Cattle.
- 82185 WACHSMUTH, U. Changes in length of the uterine glands of the cow as revealed by graphic reconstruction. (Ge) *Zentralbl. Veterinar-med. Reihe A*, 15(3):185-203. Ref. May 1968. 41.8 Z5  
English summary.
- 82186 WAGENBACH, H. Why grass tetany? (Ge) *Chem. Tech. Landwirt.* 19(5):172,174. May 1968. 384 C4292  
In cattle.
- 82187 WAGENSEIL, F. Die Ausscheidung verschiedener Penicillinarten in der Milch nach intramuskulärer Verabreichung beim Rind [Excretion of various penicillin species in milk following intramuscular administration by cattle]. *Munich. Univ. Tierarztl. Fak. [Inaug.-Diss.]* 4,51 p. 1967. 41.2 M9222  
English summary.  
Bibliography, p.45-51.
- 82188 WALDMAN, R. C., SUESS, G. G., and BRUN-GARDT, H. Fatty acids of certain bovine tissue and their association with growth, carcass and palatability traits. *J. Anim. Sci.* 27(3): 632-635. Ref. May 1968. 49 J82
- 82189 WALKER, D. Embryonic death in a cow. *Vet. Rec.* 82(19):543-545. Ref. May 11,1968. 41.8 V641

- 82190 WALSH, J. P., and NEAVE, F. K. Udder infection and the chemical composition of milk in eight dairy herds. *Irish J. Agr. Res.* 7(1):81-91. Ref. Apr. 1968. 10.5 Ir45
- 82191 WEGENER, K. H. Actual problems of milk hygiene. (Ge) *Wien. Tierarztl. Monatsschr.* 54(12):817-829. 1967. 41.8 T345  
English summary.  
Disease prevention in dairy herds and dairy industry sanitation.
- 82192 WEISS, E. The formal genesis of leukosis and reticulohistiocytary tumors in the cattle, dog and cat. (Ge) *Deut. Vet. Ges. Ber. 7th Congr.*: 151-155. 1968. 41.9 D482  
English summary.
- 82193 WESEN, D. P., LUEDECKE, L. O., and FORSTER, T. L. Relationship between California Mastitis Test reaction and bacteriological analyses of stripping samples. *J. Dairy Sci.* 51(5): 679-684. Ref. May 1968. 44.8 J822
- 82194 WILDE, J. K. H., and others. East Coast fever: Experiments with the tissues of infected ticks. *Brit. Vet. J.* 124(5):196-208. Ref. May 1968. 41.8 V643  
C. G. D. Brown, L. Hulliger, D. Gall, W. G. Macleod, joint authors.  
Cattle.
- 82195 WILKINSON, F. C. The control of bovine staphylococcal mastitis. *Australian Vet. J.* 44(5):246-250. May 1968. 41.8 Au72
- 82196 WINKENWERDER, W., HEESCHEN, W., and SEELIGER, H. Motile streptococci in cattle. (Ge) *Zentralbl. Bakteriell. Parasitenk. Infektionskr. Hyg. Abt. I, Orig.* 205(4):477-486. Ref. Dec. 1967. 44.8 C33  
English summary.  
*Streptococcus lactis* and *S. uberis* isolated from the brain.
- 82197 WINKENWERDER, W. The occurrence of *Listeria monocytogenes* in cattle in Lower Saxony. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 80(23):445-449. Ref. Dec. 1, 1967. 41.8 B45  
English summary.
- 82198 WOOD, P. D. P. Factors affecting persistency of lactation in cattle. *Nature* 218(5144):894. June 1, 1968. 47.2 N21
- 82199 WOODS, G. T., and others. Acute infectious bovine rhinotracheitis and salmonellosis in a dairy herd. *Amer. Vet. Med. Ass. J.* 152(10): 1530-1535. Ref. May 15, 1968. 41.8 Am3  
L. E. Hanson, G. H. Swenson, H. E. Rhoades, joint authors.
- 82200 WREFORD, D. Preconditioning: the new way to cut cattle losses. *Good Farming* 19(3):38-39. Apr. 1968. 7 G59
- 82201 YOUNG, B. J. The periodic acid-Schiff reaction as an aid in differentiating cell types in milk samples. *Vet. Rec.* 82(8):226-227. Mar. 1968. 41.8 V641  
Leucocyte count of milk for the detection of mastitis in cattle.
- 82202 YOUSEF, M. K., and others. Effect of ruminal heating on thyroid function and heat production of cattle. *J. Anim. Sci.* 27(3):677-683. Ref. May 1968. 49 J82  
W. D. Robertson, H. D. Johnson, and L. Hahn joint authors.
- 82203 ZARNOVSKI, E., and others. The importance of reflex of sulcus oesophagus in peroral administration of drugs. *Acta Parasitol. Polon.* 15(1/21):1-5. Ref. 1967. 43.6 Ac8  
S. Cakala, W. Chowaniec, J. Darski, J. A. Malczewski, C. Maranski, D. Zebrowska, and M. Janeczek, joint authors.  
Administration of anthelmintics in cattle.
- 82204 ZAYED, I., and GILS, J. H. J. VAN. Myodegeneration in Friesian beef calves. IV. Regeneration of the skeletal muscle and its capacity of restoration in calves with experimental nutritional myodegeneration after treatment with dl- $\alpha$ -tocopherol. (Du) *Tijdschr. Diergeneesk.* 93(10):633-646. Ref. May 15, 1968. 41.8 T431
- 82205 ZIEGLER, K., and others. Tests with the use of halogenated salicylanilide in the control of liver flukes of cattle during the pasturing period. (Cz) *Veterinarstvi* 18(5):199-200. 1968. 41.8 V6439  
E. Chroustova, J. Willomitzer, and J. Dostal, joint authors.

# Miscellaneous

- 82206 ABRAHAM, H. C., and others. Relationships of carcass weight, conformation and carcass measurements and their use in predicting beef carcass cutability. *J. Anim. Sci.* 27(3): 604-610. Ref. May 1968. 49 J82  
Z. L. Carpenter, G. T. King, and O. D. Butler, joint authors.
- 82207 ANDERSEN, P. E., JENSEN, K., and HANSEN, E. Loose housing with self-feeding silos. (Da) *Denmark. Statens Husdyrbrugsudvalg Landokon. Forsogslab. Beretn.* 363:17-28. 1968. 104 D41  
Chiefly dairy cattle feeding and production.
- 82208 ANDERSEN, T. Work of the milk recording societies, 1966-67. With special attention to annual yields on the bigger farms. (Da) *Tolvmandsbladet* 40(4):179-187. Apr. 1968. 11 T58
- 82209 BAKER, F. H. History and development of beef and dairy performance programs in the United States. *J. Anim. Sci.* 26(6):1261-1263. Nov. 1967. 49 J82
- 82210 BARKOVSKII, Z. I., and GERASIMOVICH, V. P. Cattle loose housing on the experiment farm Ust'e. (Rus) *Zhivotnovodstvo* 4:28-30. Apr. 1968. 49 Z6
- 82211 BENNINK, M. R., and others. Potassium content of carcass components and internal organs of cattle as determined by 40K and atomic absorption spectrometry. *J. Anim. Sci.* 27(3): 600-603. May 1968. 49 J82  
G. M. Ward, J. E. Johnson, and D. A. Cramer, joint authors.
- 82212 BERNATONIS, I. V., and MITSKENE, N. B. Dimensional changes of casein parts, as related to seasons and cow breed. (Rus) *Moloch. Prom.* 4:17-19. Ref. Apr. 1968. 44.8 M734  
Electron microscopy used.
- 82213 BHATTACHARYA, P. Planned cattle development. *Gosamvardhana* 15(10):3-8. Jan. 1968. 43.8 G68  
By proper care and management.
- 82214 BORA, L. C. Indian agriculture has been designed, not destined to rely on agriculture which is bullock drawn. *Gosamvardhana* 16(1): 11-12. Apr. 1968. 43.8 G69
- 82215 BOVERI, A. Rational marking of animals, indispensable premise for the fulfillment of hygienic measures with cattle. (It) *Veterinaria [Milano]* 17(2):119-125. Mar./Apr. 1968. 41.8 V6499
- 82216 BOYD, L. D. 4-H dairy science. *PNW (Pacific Northwest Coop. Ext.) Bull.* 91, 48 p. May 1967. 275.29 W27Pn  
Joint publication of the Extension Services of Washington, Oregon, and Idaho.
- 82217 CASH, J. G., and JOHANSSON, I. Dairy men rate their own cows? *Hoard's Dairyman* 113(11):692. June 10, 1968. 44.8 H65
- 82218 CHATAIGNER, J., LEGAL, C., and MAZENC, L. A production that adapts itself. (Fr) *Rev. Fr. Prod. Anim.*, Jan. 1968:7-8. 47.8 C64  
Production of calves for meat.
- 82219 COCKRILL, W. R. The buffaloes of Borneo. *Veterinarian [Oxford]* 5(2):93. Apr. 1968. 41.8 V6467  
Care and industry.
- 82220 COWHIG, M. J., and others. Pressure changes in teat sinus at end of machine milking. *J. Dairy Sci.* 51(6):912-914. June 1968. 44.8 J822  
J. F. Nyland, D. S. M. Phillips, and T. O'Flaherty, joint authors.
- 82221 CUNNINGHAM, E. P., and VIAL, V. E. Relative accuracy of different sampling intervals and methods of estimation for lactation milk yield. *Irish J. Agr. Res.* 7(1):49-60. Ref. Apr. 1968. 10.5 Ir45



- 82222 DENMARK. STATENS HUSDYRBRUGSUDVALG. Helarsforsog med kvaeg [Full-year trials with cattle]. VIII. Denamrk. Statens Husdyrbrugsudvalg Landokon. Forsogslab. Beretn. 363,60 p. 1968. 104 D41  
English summary.
- 82223 DICKINSON, F. N., and TOMASZEWSKI, M. A. Accuracy of milk check for obtaining milk weights and samples in Dairy Herd Improvement Association testing. *J. Dairy Sci.* 51(5): 685-692. Ref. May 1968. 44.8 J822
- 82224 DOHERTY, N. Culling and classing dairy herds in drought. *Dairyfarming Dig.* 15(2):2-4. Mar./Apr. 1968. 44.8 D1443
- 82225 EVANS, K. Successful beef production should be based on quality. *Ark. Cattle Bus.* 4(6):8-9. June 1968. 43.8 Ar43
- 82226 GLASNAK, V. Inter- and intraspecific differences in milk proteins of cattle and swine. *Compar. Biochem. Physiol.* 25(1):255-357. Apr. 1968. 44.8 C73
- 82227 JANUS, S., and ZYCHLINSKI, J. Zoohygienic evaluation of the cowsheds for the Red Danish cattle. (Pol) *Med. Weter.* 24(4):230-233. Apr. 1968. 41.8 M463  
English summary.
- 82228 KONTROLLNAMNDEN. Redogorelse, mjolk-boskapskontrollen kontrollaret 1965/66. [Milk-butterfat recording in Sweden during the operational year 1/10 1965-30/9 1966]. Sweden. Lantbruksstyrelsen. Medd. Ser. B, Lantbruks-avd. 71,57 p. 1967. 11 Sw3Me  
English summary.
- 82229 KRUGER, L., and MEYER, F. Modern calf raising methods compared with traditional ones. (Ge) *Mitt. Deut. Landwirt.-Ges.* 83(10): 315-316,318. Mar. 7, 1968. 18 N39
- 82230 KURTZ, E. U. Raising dairy calves. *S. Dak. State Univ. Ext. FS* 377,3 p. Nov. 1967. 275.29 So85Fs
- 82231 LEGE, F. M. Australia moves to modernize its dairy industry. *Foreign Agr.* 6(19):5. May 6, 1968. A281.9 F76Fo  
Farms.
- 82232 MADDOX, L. A. State extension services' stake in the record of performance program. *J. Anim. Sci.* 26(6):1267-1268. Nov. 1967. 49 J82  
For beef cattle improvement.
- 82233 MARKOVIC, P. Some economic views on the raising calves in sheds of large capacity. (Cz) *Czech. Min. Zemedel. Les. Hospodar. Us-tav Vedeckotech. Inform. Zemedel. Ekon.* 41(1): 37-46. Jan. 1968. 281.9 C332  
English summary.
- 82234 MAST, C. C. State extension services' stake in the R.O.P. programs. *J. Anim. Sci.* 26(6):1269-1270. Nov. 1967. 49 J82  
Beef cattle record of performance.
- 82235 MCDANIEL, B. T., MILLER, R. H., and CORLEY, E. L. Sources of variation in ratios of total to part yield. *J. Dairy Sci.* 50(12):1917-1924. Ref. Dec. 1967. 44.8 J822  
Dairy cattle records.
- 82236 MOODY, E. G., and others. Effect of high temperature and dietary fat on performance of lactating cows. *J. Dairy Sci.* 50(12):1909-1916. Ref. Dec. 1967. 44.8 J822  
P. J. Van Soest, R. E. McDowell, and G. L. Ford, joint authors.
- 82237 NEWBERRY, T. R. Effect of season and stage of lactation on yield and composition of milk from cows in the Northfield Research Centre herd. *Australian J. Dairy Technol.* 23(1):32-35. Ref. Mar. 1968. 44.8 Au74
- 82238 NIELSEN, S. M. Different intervals between preparation of cow and attachment of milking machine. (Da) Denmark. Statens Husdyrbrugsudvalg Landokon. Forsogslab. Beretn. 363:37-40. 1968. 104 D41
- 82239 NIELSEN, S. M., and others. Experiments with machine milking with and without hand stripping in relation to milk yield, working time and udder health. (Da) Denmark. Statens Husdyrbrugsudvalg Landokon. Forsogslab. Beretn. 363:29-37. Ref. 1968. 104 D41  
A. Neimann-Sorensen, P. S. Madsen, and N. O. Klastrup, joint authors.
- 82240 PARNERKAR, Y. M. Gosadan; some thoughts concerning its role and significance. *Gosamvardhana* 15(10):21-24. Jan. 1968. 43.8 G69  
State supported institution for the protection of cows at old age.
- 82241 PROCE, J. M. DE. Experiments for beef production in two years. (Fr) *Rev. Fr. Prod. Anim.*, Mar. 1968:26-27. 47.8 C64
- 82242 RIEBE, K. Optimal condition and combination of partial functions in loafing stall rearing and self feeding of high performing cows. (Ge) *Tierzucht* 20(5):165-168. Mar. 5, 1968. 49 T445  
Dairy cattle milk production aspects.
- 82243 RISTOW, R., and WERNER, H. Seasonal variation in hydrocarbon content of milk. (Ge) *Fette-Seifen Anstrichm.* 70(4):273-280. Apr. 1968. 384 C422  
English summary.
- 82244 SPIKE, P. W., and FREEMAN, A. E. Environmental influences on monthly variation in milk constituents. *J. Dairy Sci.* 50(12):1897-1904. Ref. Dec. 1967. 44.8 J822
- 82245 TUCKER, V. C. Composition of milk on the Atherton Tableland. *Australian J. Dairy Technol.* 23(1):36-47. Mar. 1968. 44.8 Au74  
1, Herd milk; 2, Individual cow milk; 3, Extent of daily variation.  
Dairy cattle records.
- 82246 WALSH, J. P., and HARRINGTON, D. Components of variation in the concentration of milk constituents. *Irish J. Agr. Res.* 7(1):7-13. Ref. Apr. 1968. 10.5 Ir45
- 82247 WARREN, H. B., and ARENDS, R. E. Staphylococci shed in milk of freshened heifers following the use of milking machines. *J. Milk Food Technol.* 30(12):363-365. Dec. 1967. 44.8 J824

## DOGS AND CATS

Breeds and Breeding

- 82248 FURNEAUX, R. W. Recurrent infertility and venereal transmission of infection in the dog. *Australian Vet. J.* 44(3):101-102. Mar. 1968. 41.8 Au72
- 82249 ROBINSON, F. R., and ZIEGLER, R. F. Clinical laboratory values of Beagle dogs. *Lab. Anim. Care* 18(1):39-49. Feb. 1968. 410.9 P94

Feeds and Feeding

- 82250 ICHIKI, H. Nutrition and food of dogs. (Ja) *Jap. Vet. Med. Ass. J.* 20(12):519-524. Dec. 1967. 41.9 J275

Veterinary Medicine

- 82251 ABBATE, M., and others. Considerations on the technique for utero-ovarian transplants in the dog. (It) *Zooprofilassi* 22(11/12):510-521. Ref. Nov./Dec. 1967. 41.8 Z72  
A. Calaprice, D. Mori, and G. Tuscano, joint authors.
- 82252 ABBATE, M., and others. Experimental kidney transplants; considerations on the surgical technique and on the immunosuppressive treatment. (It) *Zooprofilassi* 22(11/12):495-509. Ref. Nov./Dec. 1967. 41.8 Z72  
A. Calaprice, D. Mori, and G. Tuscano, joint authors.  
Dogs.
- 82253 ABBATE, M., and others. Our experience with mechanical vascular anastomosis realized with the Nakayama vessel suture (experimental research). (It) *Zooprofilassi* 22(11/12):522-541. Ref. Nov./Dec. 1967. 41.8 Z72  
A. Calaprice, D. Mori, and G. Tuscano, joint authors.  
Dogs.
- 82254 ADAMS, E. W., MOORE, E. G., and CARTER, L. P. Canine venereal tumor: Biologically active deoxyribonucleic acid from canine venereal tumor cells. *Amer. J. Vet. Res.* 29(6): 1241-1244. June 1968. 41.8 Am3A

- 82255 BADURA, R., and others. Investigations on the intravenous application of silicone oils. (Pol) *Med. Weter.* 24(3):151-154. Ref. Mar.1968. 41.8 M463  
A. Buczek, J. Kotz, J. Utzig, J. Wasilewski, joint authors.  
English summary.  
Experiments with dogs, using dimethicone.
- 82256 BALBO, T., and PANICHI, M. Canine filariasis—epizootology and laboratory diagnosis. (It) *Nuova Vet.* 44(2):78-92. Ref. Mar./Apr.1968. 41.8 N922  
English summary.
- 82257 BARTHOLOMEW, P. T., and GILLESPIE, J. H. Feline viruses. I. Characterization of four isolates and their effect on young kittens. *Cornell Vet.* 58(2):248-265. Ref. Apr.1968. 41.8 C81  
Belonging to picorna virus and herpes virus group.
- 82258 BAXTER, J. S. Embolism of the femoral artery. *Vet. Rec.* 81(22):569-572. Ref. Nov.25, 1967. 41.8 V641  
In the dog.
- 82259 BLAKE, J. A. Perineal urethrostomy in cats. *Amer. Vet. Med. Ass. J.* 152(10):1499-1506. Ref. May 15, 1968. 41.8 Am3
- 82260 BRIZARD, A., DORCHIES, P., and PRADALIE, H. Research on *Piroplasma canis* by fluorescence: Comparison with the Pappenheim method. (Fr) *Rev. Med. Vet. [Toulouse]* 31(4):357-360. Apr.1968. 41.8 R32  
English summary.
- 82261 BRUNK, R. Spontaneous diabetes mellitus in dogs. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 80(22):433-436. Nov.15, 1967. 41.8 B45  
English summary.  
Review of literature.
- 82262 BRUNK, R. The technic of application of capsules to dogs by means of an applicator. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 81(10):203-204. May 15, 1968. 41.8 B45  
English summary.
- 82263 BUERGELT, C. D. Mixed thyroid tumors in two dogs. *Amer. Vet. Med. Ass. J.* 152(11):1658-1663. June 1, 1968. 41.8 Am3
- 82264 BUTLER, W. F. Histological age changes in the ruptured intervertebral disc of the cat. *Res. Vet. Sci.* 9(2):130-135. Ref. Mar.1968. 41.8 R312
- 82265 BWANGAMOI, O. Clinical and pathological observation on astrocytoma in a dog. *J. Small Anim. Pract.* 9(3):99-101. Mar.1968. 41.8 J8292
- 82266 CAMPBELL, J. R. Shoulder lameness in the dog. *J. Small Anim. Pract.* 9(4):189-198. Ref. Apr.1968. 41.8 J8292  
Treatment.
- 82267 CELLA, F. A mixed malignant tumour (carcino-sarcoma) of the thyroid gland in a dog; histological features and behaviour of cell cultures in vitro. (It) *Nuova Vet.* 44(1):3-9. Jan./Feb.1968. 41.8 N922  
English summary.
- 82268 CILIGA, T. On the insula and the central part of neopallium in some mammals. (Se) *Veterinarski Arhiv* 37(9/10):315-323. Ref. 1967. 41.8 V6416  
German and French summaries.  
Includes dogs.
- 82269 CLARK, L., and SEAWRIGHT, A. A. Skeletal abnormalities in the hindlimbs of young cats as a result of hypervitaminosis A. *Nature* 217(5134):1174-1176. Ref. Mar.23, 1968. 472 N21
- 82270 CLEGG, F. G., and RORRISON, J. M. Brucella abortus infection in the dog: A case of polyarthritis. *Res. Vet. Sci.* 9(2):183-185. Ref. Mar.1968. 41.8 R312
- 82271 COLLET, P., and others. Actinomycosis of the spinal column in a cat. (Fr) *Lyon. Soc. Sci. Vet. Bull.* 69(4):357-361. Ref. 1967. 41.9 L99  
J. Coudert, J. C. Le Nihouannen, and J. Oudar, joint authors.
- 82272 COLLINS, N. The clinical importance of blood groups in dogs. *Ill. Vet.* 10(4):3-4, 6-7. 1967. 41.8 IL62  
For transfusions.
- 82273 DAMIANO, S. A case of bilateral, polycystic kidney in a cat. (It) *Acta Med. Vet.* 13(5/6):349-361. Ref. Sept./Dec.1967. 41.8 Ac84  
English summary.
- 82274 DAMIANO, S. Chronic follicular hypertrophic-hyperplastic gastritis in a dog. (It) *Acta Med. Vet.* 13(5/6):363-382. Ref. Sept./Dec.1967. 41.8 Ac84  
English summary.
- 82275 DAMIANO, S., and GALATI, P. Clarification of "intimal arteriosclerosis in the lungs of the cat" in view of other pulmonary arteriopathies described in that animal. (It) *Acta Med. Vet.* 13(5/6):435-445. Sept./Dec.1967. 41.8 Ac84  
English summary.
- 82276 DAMMIRICH, K. Alopecia in dogs. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 80(19):373-377. Ref. Oct.1, 1967. 41.8 B45  
English summary.
- 82277 DI DOMIZIO, G. The ultrastructure of the arterial renal cortex of the dog after the administration of sodium chloride. (It) *Arch. Vet. Ital.* 19(1):17-21. Ref. Feb.1968. 41.8 Ar25  
English summary.
- 82278 DORNER, R. L. Management of avascular necrosis. *Vet. Med./Small Anim. Clin.* 62(12):1149-1152. Dec.1967. 41.8 M69  
In dogs.
- 82279 EVERS, W. H. Radial nerve injury associated with a humeral fracture in a cat. *Amer. Vet. Med. Ass. J.* 152(11):1671-1672. June 1, 1968. 41.8 Am3
- 82280 EWING, G. O., and BOND, G. H. Multiple squamous cell carcinoma of the nail bed in the canine. *Calif. Vet.* 22(2):16-17. Apr.1968. 41.8 C12
- 82281 FAIRCHILD, D. G., SATZ, J., and COHEN, D. Charcoal agglutination test for the detection of antibodies to infectious canine hepatitis virus: Comparison of charcoal agglutination, complement-fixation, and serum-neutralization tests. *Amer. J. Vet. Res.* 29(6):1259-1265. Ref. June 1968. 41.8 Am3A
- 82282 FAVRE, H., TUAILLON, P., and VALLEE, J. Exchange of heteroplastid bones with regard to a new preparation. (Fr) *Lyon. Soc. Sci. Vet. Bull.* 69(2):149-161. 1967. 41.9 L99  
Includes discussion.  
Experimental studies with dogs.
- 82283 FEDRIGO, M. A papillary serous undifferentiated ovarian cystadenocarcinoma in a bitch—clinical and therapeutic aspects. (It) *Veterinaria [Milano]* 17(1):22-30. Ref. Jan./Feb. 1968. 41.8 F6499
- 82284 FRYE, F. L., and TAYLOR, D. O. N. Pericardial and diaphragmatic defects in a cat. *Amer. Vet. Med. Ass. J.* 152(10):1507-1510. May 15, 1968. 41.8 Am3
- 82285 GAGE, E. D., HOERLEIN, B. F., and BARTELS, J. E. Spinal cord compression resulting from a leptomeningeal cyst in the dog. *Amer. Vet. Med. Ass. J.* 152(11):1664-1670. Ref. June 1, 1968. 41.8 Am3
- 82286 GERNEKE, W. H., DE BOOM, H. P. A., and HEINICHEN, I. G. Two canine intersexes. *S. Afr. Vet. Med. Ass. J.* 39(1):55-59. Ref. Mar.1968. 41.8 So8
- 82287 GOMERCIC, H. The vena cardinalis cranialis sinistra persists in dogs. (Se) *Veterinarski Arhiv* 37(9/10):307-314. Ref. 1967. 41.8 V6416  
English summary.
- 82288 GOMEZ-CARDENAS, G., and JOVER, A. A case of canine lymphomatosis. *J. Small Anim. Pract.* 9(4):199-201. Apr.1968. 41.8 J8292
- 82289 GORSKA, C. The influence of the supporting medium on the titre of Rubarth's disease (infectious canine hepatitis) virus in the tissue culture of canine kidney. (Pol) *Med. Weter.* 24(4):241-242. Ref. Apr.1968. 41.8 M463  
English summary.



- 82290 HANSEN, H. J. Historical evidence of an unusual deformity in dogs ("short-spine dog"). *J. Small Anim. Pract.* 9(3):103-108. Ref. Mar. 1968. 41.8 J8292
- 82291 HARTUNG, K., and CLAUS, W. A study on radiation protection in practice with small animals (measurements of radiation protection). (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 80(21):405-408. Ref. Nov.1, 1967. 41.8 B45  
English summary.  
Dogs.
- 82292 HATTANGADI, S. R., and KOHLI, R. N. An unusual case of diaphragmatic hernia in a female dog. *Indian Vet. J.* 44(12):1076-1077. Dec.1967. 41.8 In2
- 82293 HAVERBEKE, G. VAN, MICHOUILLER, J., and VERINE, H. Notes on the spontaneous pathology of the experimental dog. 3. A spontaneous hepatectomy. (Fr) *Acad. Vet. France. Bull.* 41(1):41-46. Jan.1968. 41.9 R24
- 82294 HAYES, T. G. Development of ellipsoids in the spleen of the dog. *Amer. J. Vet. Res.* 29(6):1245-1250. Ref. June 1968. 41.8 Am3A  
Studies with dog embryos.
- 82295 HOLMES, J. R., and WILSON, M. R. Cardiac syncope in a dog associated with a haemangioma. *Vet. Rec.* 82(17):474-476. Apr.27, 1968. 41.8 V641
- 82296 JOUBERT, L., and others. The immuno-epizootiology of the canine distemper; vaccination against the canine distemper and rhino-amygdalitis. (Fr) *Lyon. Soc. Sci. Vet. Bull.* 69(4):339-344. 1967. 41.9 L99  
J. Terre, J. P. Soulebot, and J. Vossier, joint authors.
- 82297 KALLFELZ, F. A. The triiodothyronine-131I resin sponge uptake test as an indicator of thyroid function in dogs. *Amer. Vet. Med. Ass. J.* 152(11):1647-1650. June 1, 1968. 41.8 Am3
- 82298 KARPAS, A., and others. Experimental production of canine tracheobronchitis (kennel cough) with canine herpesvirus isolated from naturally infected dogs. *Amer. J. Vet. Res.* 29(6):1251-1257. Ref. June 1968. 41.8 Am3A  
F. G. Garcia, F. Calvo, R. E. Cross, joint authors.
- 82299 KASZA, L. Recovery of canine distemper virus from subcultured primary dog kidney cell culture. *Res. Vet. Sci.* 9(2):187-188. Mar.1968. 41.8 R312
- 82300 KERUR, V. K. Paraplegia in dogs. *Indian Vet. J.* 44(11):983-985. Nov.1967. 41.8 B45
- 82301 KINCH, D. A. A rapidly fatal infection caused by *Nocardia caviae* in a dog. *J. Pathol. Bacteriol.* 95(2):540-546. Ref. Apr.1968. 448.8 J82
- 82302 KLEMM, W. R. Subjective and quantitative analyses of electroencephalogram of anesthetized normal dogs: Control data for clinical diagnosis. *Amer. J. Vet. Res.* 29(6):1267-1277. June 1968. 41.8 Am3A  
For the detection of abnormalities.
- 82303 KLIMES, B. The infectious abortion of dogs. (Cz) *Veterinarstvi* 18(4):157-158. 1968. 41.8 V6439
- 82304 KRISHNAMOORTHY, M. S., and NAYAR, C. K. V. A comparative study on the effects of Pilocarpine and Physostigmine on gastrointestinal motility in dogs. *Indian Vet. J.* 44(12):1044-1051. Dec.1967. 41.8 In2
- 82305 LAWLER, D. C. A case of intestinal obstruction associated with intussusception in the cat. *Vet. Rec.* 82(19):541. May 11, 1968. 41.8 V641
- 82306 LEBEAU, A. Retention of the urine caused by a periurethral leiomyoma in the female dog. (Fr) *Acad. Vet. France. Bull.* 41(1):53-54. Jan.1968. 41.9 R24
- 82307 LEONARD, E. P. Fundamentals of small animal surgery. Philadelphia, Saunders, 1968. 269 p. Ref. SF911.L4  
Chiefly dogs and cats.
- 82308 LESCURE, F., and POIRSON, J. P. Coronary arteriography in the dog. (Fr) *Rev. Med. Vet. [Toulouse]* 31(3):217-241. Ref. Mar.1968. 41.8 R32  
English summary.
- 82309 LIU, S. K., and CARB, A. V. Erythroblastic leukemia in a dog. *Amer. Vet. Med. Ass. J.* 152(10):1511-1516. Ref. May 15, 1968. 41.8 Am3
- 82310 LUCKE, V. M., and others. Deforming cervical spondylosis in the cat associated with hypervitaminosis A. *Vet. Rec.* 82(5):141-142. Feb.3, 1968. 41.8 V641  
A. Baskerville, P. L. Bardgett, P. G. H. Mann, and S. Y. Thompson, joint authors.
- 82311 LUCKE, V. M. Renal polyarteritis nodosa in the cat. *Vet. Rec.* 82(22):622-624. Ref. June 1, 1968. 41.8 V641
- 82312 MANNINGER, R. Rabies in Hungary during the last four decades. (Hu) *Magyar Allatrov. Lapja* 23(1):5-13, map. Ref. Jan.1968. 41.8 V644  
English summary.  
Dogs and foxes.
- 82313 MARJANOVIC, D., and CIRIC, V. Activity of transaminases in cerebrospinal fluid and blood serum in dogs. (Se) *Vet. Glas.* 12(3):185-187. Ref. 1968. 41.8 J93  
English summary.
- 82314 MAWDESLEY-THOMAS, L. E., and SORTWELL, R. J. Proliferative lesions of the canine uterus associated with high dose oestrogen administration. *Vet. Rec.* 82(16):468-469. Apr.20, 1968. 41.8 V641
- 82315 MCDONALD, N. R., and LOOMIS, L. Polyarthritides in a dog. *Vet. Rec.* 82(21):593-594. May 25, 1968. 41.8 V641
- 82316 MEINCKE, E., and CLARK, R. E. Two cases of idiopathic hemothorax in the dog. *Amer. Vet. Med. Ass. J.* 152(12):1776-1777. June 15, 1968. 41.8 Am3
- 82317 MELDRUM, G. K., and MCCONNELL, J. D. The control of hydatid disease in Tasmania. *Australian Vet. J.* 44(5):212-217. May 1968. 41.8 Au72  
Chiefly in dogs.
- 82318 MICHAELI, D., and GOLDFARB, S. Clinical studies on the hyposensitisation of dogs and cats to flea bites. *Australian Vet. J.* 44(4):161-165. Ref. Apr.1968. 41.8 Au72  
Immunological reactions with the use of haptenic fractions.
- 82319 MODERN VETERINARY PRACTICE. Our panel reports: What modifications in your previous treatment regimen for otitis externa have been particularly beneficial? *Mod. Vet. Pract.* 49(4):72-74. Apr.1968. 41.8 N812  
Papers by W. P. Barchfeld, H. E. Childers, E. R. Jameson, J. L. Timmons, S. Bender, C. B. Golden, and C. E. Lanfair.  
Chiefly in the dog.
- 82320 MOVSESLIAN, M., SOKOLIC, A., and MLADENOVIC, Z. Preservation and irradiation of *Echinococcus granulosus* forms for immunological studies. *Vet. Arh.* 37(11/12):384-391. Ref. 1967. 41.8 V6416  
Includes infectivity to dogs.
- 82321 MUSSER, E., and GRAHAM, W. R. Familial occurrence of thyroiditis in purebred Beagles. *Lab. Anim. Care* 18(1):58-68. Ref. Feb.1968. 410.9 P94
- 82322 PALMER, N. C. Osteodystrophia fibrosa in cats. *Australian Vet. J.* 44(4):151-155. Ref. Apr.1968. 41.8 Au72
- 82323 PREUSS, F., and HENSCHHEL, E. Novelties on the anatomy and applied anatomy of the inguinal and pubic region of dog and cat. (Ge) *Prakt. Tierarzt.* 49(4):161-163. Apr.1, 1968. 41.8 P882
- 82324 PREUSS, F., BUDRAS, K. D., and HENSCHHEL, E. Processus vaginalis, hernia inguinalis paravaginalis and prolapsus omenti in the female cat. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 80(19):371-373. Ref. Oct.1, 1967. 41.8 B45  
English summary.
- 82325 PRYNN, R. B., and REDDING, R. W. Electroencephalogram in occult canine hydrocephalus. *Amer. Vet. Med. Ass. J.* 152(11):1651-1657. June 1, 1968. 41.8 Am3

- 82326 RAO, T. S., REDDI, B. N., and PRASAD, M. R. A note on successful treatment of Microsporium affection in dogs. *Indian Vet. J.* 44(12):1074-1076. Dec.1967. 41.8 In2
- 82327 READ, R. M., and SMITH, R. N. A comparison of spondylitis deformans in the English and Swedish cat and in the English dog. *J. Small Anim. Pract.* 9(4):159-166. Ref. Apr. 1968. 41.8 J8292
- 82328 SANTISTEBAN-GARCIA, F. A clinical note on canine lymphosarcoma. *J. Small Anim. Pract.* 9(4):202. Apr.1968. 41.8 J8292
- 82329 SCHEBITZ, H., and WILKENS, H. Atlas of radiographic anatomy of dog and horse. Berlin, Parey, 1968. 198 p. Ref. Folio SF757.8.S3 Text also in German.
- 82330 SEAWRIGHT, A. A., STEELE, D. P., and CLARK, L. Hypervitaminosis A of cats in Brisbane. *Australian Vet. J.* 44(5):203-206. May 1968. 41.8 Au72
- 82331 SILVA, R. A. DA, SOUZA, A. M. DE, and ANDRE, C. A. F. Rabies studies in Brazil. II. (Por) *Ofic. Sanit. Panamer. Bol.* 64(6):506-508. June 1968. 449.9 P192B English summary. Includes cats.
- 82332 SIMIC, V., and POPOVIC, S. Cisterna chyli and the lymph-collecting vessels in the cat. (Ge) *Tierarztl. Umsch.* 23(5):222-226. Ref. May 1, 1968. 41.8 T445
- 82333 SMITH, L. K. Surgical treatment for osteomyelitis in a cat. *Amer. Vet. Med. Ass. J.* 152(12):1774-1775. June 15, 1968. 41.8 Am3
- 82334 SOVA, Z. Dermatitis in dogs with some typical localization. (Cz) *Veterinarstvi* 18(2):78-79. 1968. 41.8 V6439
- 82335 SPINK, W. W., and STARZECKI, B. Experimental canine endotoxin shock: failure to correlate outcome with persistent endotoxemia. *Soc. Exp. Biol. Med. Proc.* 126(2):574-576. Ref. Nov.1967. 442.9 Sol
- 82336 THRASHER, J. P., and CLANTON, J. R. Epizootiologic observations of canine filariasis in Georgia. *Amer. Vet. Med. Ass. J.* 152(10):1517-1520. Ref. May 15, 1968. 41.8 Am3
- 82337 TODD, J. D., and COHEN, D. Studies of influenza in dogs. I. *Amer. J. Epidemiol.* 87(2):426-439. Ref. Mar.1968. 449.8 Am3
- 82338 TRADATI, F., FARAVELLI, G., and CALVARI, A. R. Hemoperitoneum in the course of a cardio-renal syndrome in the dog. (It) *Clin. Vet.* 90(11):475-482. Nov.1967. 41.8 C61 English summary.
- 82339 UTZIG, J. Two cases of allergy in dogs after the intramuscular injection of Turlin AD<sub>3</sub>E. (Pol) *Med. Weter.* 24(4):239-240. Apr.1968. 41.8 M463 A combination of vitamins.
- 82340 VAUGIEN, P. The lactose, and sugars of milk as a source of many enterites to the young dogs after weaning. (Fr) *Patre* 152:39. Mar./Apr. 1968. 45.8 P272
- 82341 VERINE, H., CHRZANOWSKA, M., and BOTEV, S. Notes on the spontaneous pathology of the experimental dog. 1. Leiomyosarcoma of the mesenteron in a dog. (Fr) *Acad. Vet. France. Bull.* 41(1):25-28. Jan.1968. 41.9 R24
- 82342 VERINE, H., and CHRZANOWSKA, M. Notes on the spontaneous pathology of the experimental dog. 2. Hematoma of the spleen. (Fr) *Acad. Vet. France. Bull.* 41(1):29-33. Jan.1968. 41.9 R24
- 82343 VERINE, H., GIGNOUX, M., and MURAT, J. Notes on the spontaneous pathology of the experimental dog. 4. A case of the so-called abdominal gestation. (Fr) *Acad. Vet. France. Bull.* 41(1):47-51. Jan.1968. 41.9 R24
- 82344 VERINE, H., BARBIER, M., and ROISSARD, J. P. DE. Pancreatic secretion and gestation in the bitch. (Fr) *Lyon. Soc. Sci. Vet. Bull.* 69(4):347-354. Ref. 1967. 41.9 L99 Includes discussion.
- 82345 VERMA, S., and others. Intestinal villi in the dog and the effect of *Ankylostoma caninum* infestation. *J. Pathol. Bacteriol.* 95(2):568-571. Ref. Apr.1968. 448.8 J82 A. K. Sehgal, R. N. Chakravarti, and P. N. Chhuttani, joint authors.
- 82346 VINE, L. L. Ablation of the ear canal. *Southern Vet.* 5(4):14,16. Apr.1968. 41.8 So83 Operation for the treatment of chronic otitis in the dog.
- 82347 VINE, L. L. Corrective ear surgery. *Southern Vet.* 5(4):6-8,10. Apr.1968. 41.8 So83 Of the dog.
- 82348 WADDELL, A. H. Anthelmintic treatment for *Capillaria feliscati* in the cat. *Vet. Rec.* 82(21):598. Ref. May 25, 1968. 41.8 V641 Methylridine used.
- 82349 WEBSTER, A. Distemper immunisation. *Vet. Rec.* 82(19):553-554. May 11, 1968. 41.8 V641
- 82350 WENGER, J. B. How I perform cesarean section in the dog. *Vet. Med./Small Anim. Clin.* 62(12):1153-1154. Dec.1967. 41.8 M69
- 82351 WILLIAMS, A. G. Cardiovascular tonic for geriatric patients. *Pract. Vet.* 6:184-186. Nov./Dec.1967. 41.8 AL5 Dogs and cats; use of sparteine-digitalin-strophanthin.
- 82352 WILSON, F. D., and BALASUBRAMANIAN, N. N. The lateral approach for the spaying of canines and felines. *Indian Vet. J.* 44(12):1052-1055. Dec.1967. 41.8 In2
- 82353 WYAND, D. S., and WOLKE, R. E. Granular cell myoblastoma of the canine tongue: Case reports. *Amer. J. Vet. Res.* 29(6):1309-1313. Ref. June 1968. 41.8 Am3A
- 82354 YOSHIDA, Y., OKAMOTO, K., and CHIU, J. K. *Ancylostoma ceylanicum* infections in dogs, cats, and man in Taiwan. *Amer. J. Trop. Med. Hyg.* 17(3):378-381. Ref. May 1968. 448.8 Am326

#### Miscellaneous

- 82355 U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE. Regulate the transportation, sale, and handling of dogs and cats used for research and experimentation. Hearings—Eighty-ninth Congress, second session on H.R. 9743, H.R. 13406, March 7 and 8, 1966. Washington, 1966. 229 p. PREP 1118
- 82356 U. S. CONGRESS. SENATE. COMMITTEE ON COMMERCE. Animal dealer regulation. Hearings—Eighty-ninth Congress, second session on S. 2322 a bill to authorize the Secretary of Agriculture to regulate the transportation, sale, and handling of dogs and cats intended to be used for purposes of research of experimentation, and for other purposes, S. 3059 a bill to authorize the Secretary of Agriculture to regulate the transportation, sale, and handling of dogs, cats, and other animals intended to be used for purposes of research or experimentation, and for other purposes, S. 3138 a bill to authorize the Secretary of Agriculture to regulate the transportation, purchase, sale and handling of dogs and cats in commerce, March 25, 28, and May 25, 1966. Washington, 1966. 329 p. PREP 1148

#### FUR ANIMALS—PEN RAISED

##### Breeds and Breeding

- 82357 KELLER, C., and others. The genetics of adrenal size and tameness in colorphase foxes. *J. Hered.* 59(1):82-84. Jan./Feb.1968. 442.8 Am3 S. Ridgway, L. Lipscomb, and E. Fromm, joint authors.
- 82358 KLEVEN, O. L. Before the breeding season. (No) *Norsk Pelsdyrbl.* 42(4):171-179. Feb.20, 1968. 412.628 N812 A genetic study of mink.
- 82359 LAURIDSEN, J. Basic genetics for the chin-chilla breeder. VII. *Empress Chinchilla* 24(5):10-11. May 1968. 412.628 N21



- 82360 ONSTAD, O. Control of minks in regard to their reproduction capacity. (No) Norsk Pelsdyrbl. 42(4):183-185. Feb.20,1968. 412.628 N812  
Causes of sterility.
- 82361 QVIST, A. Jet-characteristics in various mutations. (Da) Dansk Pelsdyravbl 31(1):10-12. Jan.20,1968. 412.628 D23
- 82362 ROCHMANN, R. The Blue fox in the breeding season. I. (No) Norsk Pelsdyrbl. 42(5):204-207. Mar.5,1968. 412.628 N812
- 82363 WIDDING, P. Jet-mink in breeding. (No) Norsk Pelsdyrbl. 42(4):188-189. Feb.20,1968. 412.628 N812

#### Feeds and Feeding

- 82364 BROXUP, B. Faulty nutrition of mink as a cause of a reduction in the litter size. J. Small Anim. Pract. 9(3):109-115. Ref. Mar.1968. 41.8 J8292
- 82365 LINDSTROM, J. R. Fishmeal and fur animal husbandry. (No) Norsk Pelsdyrbl. 42(7/8):256-258. Apr.20,1968. 412.628 N812
- 82366 ROCHMANN, R. Blue fox in the breeding season. II. (No) Norsk Pelsdyrbl. 42(7/8):259-261. Apr.20,1968. 412.628 N812  
Feeding and care.
- 82367 SCHAIBLE, P. J. Dry diet ingredients gain popularity in modern mink feeds. U. S. Fur Rancher 47(3):3,6. Apr.1968. 412.629 Am3M
- 82368 SCHAIBLE, P. J. Recent progress in mink nutrition. Distill. Feed Res. Council. Conf. Proc. 23:27-29. Mar.13,1968. 389.79 C765
- 82369 STREITLIEN, O. Feeding. (No) Norsk Pelsdyrbl. 42(5):199-202. Mar.5,1968. 412.628 N812  
Mink.

#### Veterinary Medicine

- 82370 DAHLE, H. K., and NORDSTOGA, K. Identification of Aeromonas in furry animals. Acta Vet. Scand. 1:65-70. 1968. Ref. 41.8 AC87
- 82371 FOX, B. Difficulties in the diagnosis of distemper in mink. J. Small Anim. Pract. 9(3):117-121. Mar.1968. 41.8 J8292
- 82372 HARTMANN, H., and EICHEL, H. Study of the bacterial flora of the gastrointestinal canal and feces of the coypus. (Ge) Zentralbl. Bakteriologie. Parasitenk. Infektionskr. Hyg. Abt. I, Orig. 206(2):238-245. Mar.1968. 448.3 C33
- 82373 HELGEBOSTAD, A. Anemia in mink. (No) Nord. Veterinaarmed. 20(3):161-172. Ref. Mar.1968. 41.8 N813  
English summary.  
Fish induced.
- 82374 PADGETT, G. A., and others. Comparative studies of susceptibility to infection in the Che-diak-Higashi syndrome. J. Pathol. Bacteriol. 95(2):509-522. Ref. Apr.1968. 448.8 J82  
C. W. Reigum, J. B. Henson, and J. R. Gorham, joint authors.  
Includes minks and cattle.
- 82375 SAISON, R. A serum post albumin system in mink. Can. J. Genet. Cytol. 10(1):196-197. Mar.1968. 443.8 C16

#### Miscellaneous

- 82376 EICHEL, H. Studies on the activity of motion of minks. (Ge) Arch. Exp. Veterinaarmed. 21(4):1113-1115. 1967. 41.8 Ex7  
English summary.

#### HORSES AND MULES

##### Breeds and Breeding

- 82377 INTERNATIONAL ARABIAN HORSE ASSOCIATION. Purebred Arabian horse yearbook, 1967. Volume XV; a picture record of ribbon winners of 54 all-Arabian shows and 38 class "A" shows in 1967. Burbank, California, 1968. 490 p. 42.8 P97
- 82378 NEW ZEALAND RACING CONFERENCE. The New Zealand Stud Book, containing pedigrees of race horses. Vol. XX, 1968. Christchurch, New Zealand, 1968. 1335 p. 42.9 N484

#### Veterinary Medicine

- 82379 ALEXANDER, F., and NICHOLSON, J. D. The blood and saliva clearances of phenobarbitone and pentobarbitone in the horse. Biochem. Pharmacol. 17(2):203-210. Ref. Feb.1968. 396.8 B52
- 82380 BARONE, R., and BIDAUD, M. The embryonal development of the arterial system of the pelvic cavity and pelvis in the horse. (Fr) Lyon. Soc. Sci. Vet. Bull. 69(2):165-175. 1967. 41.9 L99
- 82381 BIRKELAND, R., and HAAKENSTAD, L. H. Intracapsular bony fragments of the distal tibia of the horse. Amer. Vet. Med. Ass. J. 152(10):1526-1529. May 15,1968. 41.8 Am3
- 82382 BRANSCOMB, B. L. Treatment of arterial thrombosis in a horse with sodium gluconate. Amer. Vet. Med. Ass. J. 1643-1644. June 1, 1968. 41.8 Am3
- 82383 BRION, A., and others. Epidemiological control of rhinopneumonitis of horses in France by complement fixation. (Fr) Rec. Med. Vet. 144(3):197-209, map. Ref. Mar.1968. 41.8 R24  
M. P. Fontaine, M. Fontaine, A. Morailion, and R. Morailion, joint authors.  
English summary.
- 82384 CORNWELL, R. L., and JONES, R. M. Critical tests in the horse with the anthelmintic pyrantel tartrate. Vet. Rec. 82(17):483-484. Ref. Apr.27,1968. 41.8 V641  
Used against stomach worms; study of its effects on the horse.
- 82385 EMERSON, F. G., and JARVIS, A. A. Listeriosis in ponies. Amer. Vet. Med. Ass. J. 152(11):1645-1646. June 1,1968. 41.8 Am3
- 82386 GELATT, K. N. Postoperative subpalpebral medications in horses and dogs. Vet. Med./Small Anim. Clin. 62(12):1165-1172. Ref. Dec.1967. 41.8 M69
- 82387 GERBER, H. Therapy of chronic respiratory diseases of horses. (Ge) Schweiz. Arch. Tierheilk. 110(3):139-153. Ref. Mar.1968. 41.9 Sch9  
English summary.  
With Dexamethasone.
- 82388 GUFFY, M. M. Bone sequestrums and non-healing wounds in horses. Amer. Vet. Med. Ass. J. 152(11):1638-1642. June 1,1968. 41.8 Am3
- 82389 HAZRATI, A. Identification and typing of horse sickness virus strains isolated in the recent epizootic of the disease in Morocco, Tunisia, and Algeria. Inst. Razi. Arch. 19:131-143. Ref. Dec.1967. 41.9 In72
- 82390 HOPKINS, I. G., OZAWA, Y., and HAZRATI, A. Plaque assay of African horse sickness virus in African green monkey kidney cell line. Inst. Razi. Arch. 19:121-130. Dec.1967. 41.9 In72
- 82391 ISAKOV, S. Practice of helminthosis control in horses. (Rus) Veterinariya 12:49. Dec.1967. 41.8 V6426
- 82392 JENKINSON, D. M., and BLACKBURN, P. S. The distribution of nerves, monoamine oxidase and cholinesterase in the skin of the horse. Res. Vet. Sci. 9(2):165-169. Ref. Mar.1968. 41.8 R312
- 82393 JOHNSON, K. M., and others. Recovery of Venezuelan equine encephalomyelitis virus in Panama. Amer. J. Trop. Med. Hyg. 17(3):432-440. Ref. May 1968. 448.8 Am326  
A. Sheokov, P. H. Peralta, G. J. Dammin, and N. A. Young, joint authors.
- 82394 KATARIA, R. S., and VERMA, G. P. Intra-hepatic stones in horse. Indian Vet. J. 44(12):1025-1029. Ref. Dec.1967. 41.8 In2
- 82395 KAVEH, M. Participation of the Razi Institute [Iran Institut d'Etat des Serums et Vaccins Razi] in the control of new outbreaks of African horse sickness. (Fr) Inst. Razi. Arch. 19:1-3. Dec.1967. 41.9 In72
- 82396 MACKAY-SMITH, M. P., and MARKS, D. A skin grafting technique for horses. Amer. Vet. Med. Ass. J. 152(11):1633-1637. June 1,1968. 41.8 Am3

- 82397 MATOUSEK, J., FISCHER, J., and CERMAN, J. A new fluorometric method of the determination of submicrogram quantities of inhibitors of cholinesterase. (Cz) *Chem. Zvesti* 22(3):184-189. Ref. 1968. 385 C4232  
English summary.  
In horses.
- 82398 MILLER, W. C., and BARNETT, G. Twenty years of equine research; a review of the work of the Animal Health Trust's Equine Research Station from January 1st, 1947-December 31st, 1966. *Veterinarian [Oxford]* 5(2):149-157. Apr. 1968. 41.8 V6467
- 82399 RICHTER, W. On the diagnosis of equine tuberculosis. III. Tuberculin tests made on experimentally infected horses. (Ge) *Arch. Exp. Veterinarmed.* 21(5):1235-1251. 1967. 41.8 Ex7  
English summary.
- 82400 ROBINSON, R. C. The use of sclerosing agents in tendon repair of racehorses. *Australian Vet. J.* 44(4):200-202. Ref. Apr. 1968. 41.8 Au72
- 82401 ROSSDALE, P. D. Clinical studies on the newborn Thoroughbred foal. II. Heart rate, auscultation and electrocardiogram. *Brit. Vet. J.* 123(12):521-532. Ref. Dec. 1967. 41.8 V643
- 82402 RYAN, W. E. Springtime is horse health check-up time. *Ark. Cattle Bus.* 4(4):7,26-27. Apr. 1968. 43.8 Ar43
- 82403 SCHAUFFLER, A. F. Acepromazine and meperidine—new drug combination aids in equine restraint. *Mod. Vet. Pract.* 49(4):43-45. Apr. 1968. 41.8 N812
- 82404 STAVROU, D. Cerebrospinal nematodiosis in equines. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 80(24):471-474. Ref. Dec. 15, 1967. 41.8 B45  
English summary.  
Horse and donkey.
- 82405 UBERREITER, O. Primary tongue cysts developed from remains of ductus thyroglossus in horse. (Ge) *Wien. Tierarztl. Monatsschr.* 55(3):175-177. Mar. 1968. 41.8 T345
- 82406 WITZEL, D. A., and others. Electrical defibrillation of the equine heart. *Amer. J. Vet. Res.* 29(6):1279-1285. Ref. June 1968. 41.8 Am3A  
L. A. Geddes, H. E. Hoff, J. MacFarlane, joint authors.
- 82407 WOLOSZYN, S. Investigations on the nature and antigenic structure of *Histoplasma farciminosum* (*Cryptococcus farciminosus*-Rivolta). I-II. (Pol) *Med. Weter.* 24(3):134-143. Ref. Mar. 1968. 41.8 M463  
English summary.  
Investigations of pus from horses infected with lymphangitis epizootica.
- 82408 ZHUMASHEV, ZH., and SEITOV, Z. S. Amino acid content of horse and sheep gamma globulins and their peptide chains. (Rus) *Biokhimiya* 33(1):25-28. Ref. Jan./Feb. 1968. 385 B523  
English summary.
- Miscellaneous
- 82409 ANIMAL HEALTH TRUST (GREAT BRITAIN). EQUINE RESEARCH STATION, (NEWMARKET). Disinfection. *Anim. Health* 6:15-16. Nov. 1967. 41.8 An52
- 82410 BERTINI, A. Giotto (1267-1337)—detail from the Entrance of Jesus into Jerusalem in the Cappella degli Scrovegni in Padua. (It) *Veterinaria [Milano]* 17(2):71-72. Mar./Apr. 1968. 41.8 V6499  
The head of the ass.
- 82411 BERTINI, A. Giulio Romano (circa 1492-1546) detail from the decoration of the Hall of Horses, the Palazzo del Te, Mantua. (It) *Veterinaria [Milano]* 17(1):1-2. Jan./Feb. 1968. 41.8 F6499
- 82412 CLOSE, P., and BETTS, M. Teaching the side-pass. *West. Horseman* 33(6):16-17, 101. June 1968. 42.8 W522
- 82413 FREEMAN, J. Getting acquainted. *West. Horseman* 33(6):42-43, 139-140. June 1968. 42.8 W522  
With foals for future training.
- 82414 JORDAN, R. M. Selecting your horse. *Minn. Univ. Ext. Ext. Bull.* 351, 16 p. 1968. 275.29 M66S
- LABORATORY ANIMALS, SMALL
- Breeds and Breeding
- 82415 AVERY, T. L. Observations on the propagation of Chinese hamsters. *Lab. Anim. Care* 18(2, pt.1):151-159. Apr. 1968. 410.9 P94
- 82416 LES, E. P. Effect of acidified-chlorinated water on reproduction in C3H/HeJ and C57BL/6J mice. *Lab. Anim. Care* 18(2, pt.1):210-213. Apr. 1968. 410.9 P94
- Feeds and Feeding
- 82417 BELL, O. E., and STRENGTH, D. R. Biosynthesis of phosphatides of N-ethyl analogs of choline in vivo and vitro. *Arch. Biochem. Biophys.* 123(3):462-467. Ref. Mar. 11, 1968. 381 Ar2  
Choline incorporated in the diet of rats.
- 82418 BERGNER, H. Formation of Hippuric acid and detoxication of benzoic acid in growing rats in dependence upon protein nutrition. (Ge) *Arch. Tierenahr.* 18(2):83-95. Mar. 1968. 389.78 Ar22  
English summary.
- 82419 BOLT, M. G., and KASTELIC, J. Utilization by the rat of nitrogen, calcium, phosphorus, and magnesium in sterile concentrated milk stabilized with polyphosphates. *J. Dairy Sci.* 51(5):693-697. Ref. May 1968. 44.8 J822
- 82420 FERRANDO, R., and HENRY, N. Studies on the nutritive value of the proteins of flours from tallow. (Fr) *Rec. Med. Vet.* 144(4):353-356. Apr. 1968. 41.8 R24  
English summary.  
Feeding experiments with rats.
- 82421 PAWLAK, M., and PION, R. Effects of addition of wheat proteins by increasing doses of threonine on the free amino acid content of blood volume and muscle in rat during development. (Fr) *Acad. Sci. C. R. Ser. D.* 266919:1993-1995. May 6, 1968. 505 P21
- 82422 WILLIAMS, F. P., and others. A new autoclave system for sterilizing vitamin-fortified commercial rodent diet with lower nutrient loss. *Lab. Anim. Care* 18(2, pt.1):195-199. Apr. 1968. 410.9 P94  
R. J. Christie, D. J. Johnson, and R. A. Whitney, joint authors.
- Veterinary Medicine
- 82423 AHLSTROM, C. G., and HEATON, J. Combined action of Rous sarcoma virus and chemical carcinogen in rats. *Experientia* 24(4):411-413. Apr. 15, 1968. 475 Ex7
- 82424 BALDWIN, R. L., and MARTIN, R. J. Effects of hypophysectomy and several hormone replacement therapies upon patterns of nucleic acid and protein synthesis and enzyme levels in lactating rat mammary glands. *J. Dairy Sci.* 51(5):748-753. Ref. May 1968. 44.8 J822
- 82425 BARYA, M. A., and BARI, A. Some observation on pathogenesis of *Leptospira pomona* in experimentally inoculated guinea pigs. *West Pakistan J. Agr. Res.* 5(4):107-113. Ref. Dec. 1967. 22 W52
- 82426 BERTHELON, M., LABIE, C., and RAMPIN, D. Total or partial hysterectomy on female rat; consequences on ovaries. (Fr) *Rev. Vet. Med. [Toulouse]* 31(1):1-11. Jan. 1968. 41.8 R32  
English summary.
- 82427 BITTNER, J., ARDELEANU, J., and KRANZDORF, H. Active immunization in preventing intra uterine infection due to *Clostridium perfringens* in pregnant mice. (Fr) *Inst. Pasteur. Ann.* 114(4):503-510. Ref. Apr. 1968. 448.3 An75  
English summary.
- 82428 BRAIDE, V. Effects of meperidine on beme-gride-induced seizures in rats. *Res. Vet. Sci.* 9(1):76-78. Ref. Jan. 1968. 41.8 R312
- 82429 BRAUNBERG, R. C., and BECK, V. Interaction of DDT and gastrointestinal microflora of the rat. *J. Agr. Food Chem.* 16(3):451-453. Ref. May/June 1968. 381 J8223



- 82430 BRONSON, F. H., and WHITTEN, W. K. Oestrus-accelerating pheromone of mice: assay, androgen-dependency and presence in bladder urine. *J. Reprod. Fert.* 15(1):131-134. Ref. Feb.1968. 442.8 J8222
- 82431 BUTLER, W. R., JOHNSON, A. D., and GOMES, W. R. Effect of short-term vitamin A deficiency on testicular lipids in the rat. *J. Reprod. Fert.* 15(1):157-159. Feb.1968. 442.8 J8222
- 82432 CASAROSA, L., and others. Study of the effects of microascarid infections by *Ascaris suum* in guinea pigs subjected to total X-irradiation. (It) *Arch. Vet. Ital.* 18(6):455-470. Ref. Dec.1967. 41.8 Ar25  
G. Macchioni, V. Favati, A. Marconcini, joint authors.  
English summary.
- 82433 CHURY, J. Activating effects of alfalfa extracts on estradiol propionate. (Ge) *Experimentia* 23(12):1023-1024. Dec.15,1967. 475 Ex7  
Tested with rats.
- 82434 COLLINS, T. B., and LOTT, D. F. Stock and sex specificity in the response of rats to pentobarbital sodium. *Lab. Anim. Care* 18(2,pt.1): 192-194. Apr.1968. 410.9 P94
- 82435 DANEK, J. Model tests of different anthelmintics. (Cz) *Veterinarstvi* 18(4):166-168. 1968. 41.8 V6439  
Nippostrongylus braziliensis in laboratory animals.
- 82436 DANES, L. Experimental infection of irradiated white mice and guinea pigs with the western type of North American equine encephalomyelitis (WEE). *J. Hyg. Epidemiol. Microbiol. Immunol.* 12(1):37-46. Ref. 1968. 448.8 J826
- 82437 EMMENS, C. W., MILLER, B. G., and OWEN, W. H. Biological activities of U-11555A. *J. Reprod. Fert.* 15(1):33-37. Ref. Feb.1968. 442.8 J8222  
Triethylamine, an antifertility agent tested on mice.
- 82438 ENBERGS, H. Animal experimental research in the treatment of cyclic disturbances. 1. The effect of PMS (pregnant mare serum gonadotropin) antisera on vaginal epithelium of rats with permanent estrus. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 80(19):377-380. Ref. Oct.1,1967. 41.8 B45  
English summary.
- 82439 ENTA, T., LOCKEY, S. D., and REED, C. E. A rapid safe technique for repeated blood collection from small laboratory animals; The farmer's wife method. *Arch. Port. Sci. Biol.* 127(1):136-137. Jan.1968. 442.8 So1
- 82440 FESCE, A., and AGNES, F. Comparative study of the effects of bacterial endotoxin adjuvants. II. (It) *Arch. Vet. Ital.* 18(6):401-414. Ref. Dec.1967. 41.8 Ar25  
English summary.  
Experiments with mice.
- 82441 FINN, C. A., and MAYES, P. A. Investigation of the role of the placenta in carbohydrate and lipid metabolism during pregnancy. *J. Physiol.* 196(1):88P-89P. May 1968. 447.8 J82  
Tested with rats.
- 82442 FLIEGEL, H., OSLAGE, H. J., and SCHILLER, K. Construction and operation of a respiration device for rats. (Ge) *Z. Tierphysiol. Tierernahr. Futtermittelkunde* 23(5):278-284. Apr. 1968. 389.78 Z3  
English summary.
- 82443 FLODH, H., BERGRAHM, B., and ODEN, B. Vitamin B12-binding substances in the gastric mucosa of mice as studied by Sephadex gel filtration and isoelectric focussing. *Life Sci.* 7(4):155-159. Ref. Feb.15,1968. 442.8 L62
- 82444 FORD, T. M., and JOINER, G. N. Pneumonia in a rat associated with *Corynebacterium pseudotuberculosis*; a case report and literature survey. *Lab. Anim. Care* 18(2,pt.1):220-223. Ref. Apr.1968. 410.9 P94
- 82445 FRANKLIN, J., and RICHTER, C. B. The isolation of *Salmonella poona* and a nonmotile variant from laboratory mice. *Lab. Anim. Care* 18(1):92-93. Feb.1968. 410.9 P94
- 82446 FRASER, H., and DICKINSON, A. G. Distribution of experimentally induced scrapie lesions in the brain. *Nature* 216(5122):1310-1311. Dec.30,1967. 472 N21  
In mice.
- 82447 GERZYMISCH, J., HOCK, A., and STREY, J. The influence of the quality of food proteins and of DL-methionine on the formation of antibodies against *Brucellae* (Buck 19 strain) in young albino rats. (Ge) *Arch. Exp. Veterinarmed.* 21(4):881-893. Ref. 1967. 41.8 Ex7  
English summary.
- 82448 GURTOO, H. L., and others. Effect of aflatoxin and benzpyrene pretreatment upon the kinetics of benzpyrene hydroxylase. *Biochem. Biophys. Res. Commun.* 31(4):588-595. Ref. May 23,1968. 442.8 B5236  
T. C. Campbell, R. E. Webb, and K. M. Plowman, joint authors.  
Tests with rats.
- 82449 GUSTAFSSON, B. E., MIDTVEDT, T., and NORMAN, A. Metabolism of cholic acid in germfree animals after the establishment in the intestinal tract of deconjugating and 7 $\alpha$ -dehydroxylating bacteria. *Acta Pathol. Microbiol. Scand.* 72(3):433-443. Ref. 1968. 448.3 Ac8  
Laboratory animals.
- 82450 HALKETT, J. A. E., DAVIS, A. J., and NATSIOS, G. A. The effect of cold stress and *Pseudomonas aeruginosa* Gavage on the survival of three-week-old swiss mice. *Lab. Anim. Care* 18(1):94-96. Feb.1968. 410.9 P94
- 82451 HARTWIGK, H., and FRANKE, F. Demonstration of toxin of *Clostridium welchii* by the intracutaneous test on immunised guinea pigs. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 81(6):111-112. Ref. Mar.15,1968. 41.8 B45  
English summary.
- 82452 HEALY, P. J. Metabolic antagonism between the analogues inositol and pinitol. *Australian J. Sci.* 30(9):371-372. Mar.1968. 475 Au72  
Tested with mice.
- 82453 HILL, B. R., ed. The digestive tract flora of laboratory animals. *Charles River Dig. 7(2)*, 6 p. Ref. Apr.1968. 442.8 C38
- 82454 HOMMA, S. Hydrometra complex induced by cervical ligation in rats. *Tokyo. Nat. Inst. Anim. Health Quart.* 8(1):40-52. Ref. Spring 1968. 41.9 T575Q
- 82455 JACOTOT, H. Experimental results in the prevention and treatment of a malignant tumor in the rat, the ascitic sarcoma of Yoshida. (Fr) *Rec. Med. Vet.* 144(3):211-219. Mar.1968. 41.8 R24  
English summary.
- 82456 JOUBERT, L., and others. Influence on the laboratory animal of the tridimensional statistical titration of virulence and toxicity. (Fr) *Lyon. Soc. Sci. Vet. Bull.* 69(2):183-194. 1967. 41.9 L99  
L. Valette, J. Bonnod, and G. Beranger, joint authors.  
Inoculation against swine erysipelas.
- 82457 JUSTEL, W. Strontiumresorption in verschiedenen Abschnitten des Magen-Darm-Kanals und deren Beeinflussung durch Pharmaka und Gifte, als Beispiel für die pharmakologische Beeinflussbarkeit der gastro-enteralen Erdalkaliresorption [Strontium resorption in various segments of the gastrointestinal tract and the influence of drugs and poisons as exemplified for pharmacological adaptability of gastroenteric alkaline earth resorption]. *Munich Univ. Tierarztl. Fak. [Inaug.-Diss.]* 38,72 p. Ref. 1967. 41.2 M9222  
English summary.  
Rats.
- 82458 KASSAI, T., and others. Suppression of the immune response to the nematode *Nippostrongylus brasiliensis* in adult mice by heterologous anti-lymphocytic serum. *Nature* 218(5146): 1055-1056. June 15,1968. 472 N21  
G. Szepeles, L. Rethy, and G. Toth, joint authors.

- 82459 KATO, R. The chromosomes of forty-two primary Rous sarcomas of the Chinese hamster. *Hereditas* 59(1):63-119. Ref. 1968. 442.8 H42
- 82460 KRUGER, G. R. F. Necrotizing nephrosis in mice following the administration of a carcinogen suspended in glycerin. *Lab. Anim. Care* 18(1):29-33. Feb. 1968. 410.9 P94
- 82461 LEHMANN, H., and BERGNER, H. Comparison of the separation of urinary and faecal nitrogen in two different types of metabolism cages for rats. (Ge) *Arch. Tierenahr.* 18(2):115-120. Mar. 1968. 389.78 Ar22  
English summary.
- 82462 LEHMANN, H. Metabolism cage for rats to achieve quantitative separation of urine and faeces for nitrogen balance trials. (Ge) *Arch. Tierenahr.* 18(2):107-113. Ref. Mar. 1968. 389.78 Ar22  
English summary.
- 82463 MUNCHMEYER, R., KRELOWSKA-KULAS, M., and BERGNER, H. Investigations on the problem of methionine toxicity. II. (Ge) *Arch. Tierenahr.* 18(2):71-81. Mar. 1968. 389.78 Ar22  
English summary.  
To rats.
- 82464 PATRICK, H. DL-methionine and DL-Hydroxy-methionine metabolism in rats and chicks. *W. Va. Acad. Sci. Proc.* 39:174-176. Ref. 1967. 500 W52
- 82465 RICO, A. G., and LORGUE, G. A. A contribution to the study of fluorosis in rat. (Fr) *Rev. Med. Vet. [Toulouse]* 31(2):107-114. Feb. 1968. 41.8 R32  
English summary.
- 82466 SCHARRER, E., and ZUCKER, H. Amino acid concentration in the aorta and portal blood of rats after casein or amino acid meals. (Ge) *Z. Tierphysiol. Tierernahr. Futtermittelkunde* 23(6):321-330. May 1968. 389.78 Z3  
English summary.
- 82467 SHRADER, R. E., and EVERSON, G. J. Intravenous injection and blood sampling using cannulated guinea pigs. *Lab. Anim. Care* 18(2,pt.1):214-219. Ref. Apr. 1968. 410.9 P94
- 82468 SINGH, D. V., and others. Diurnal variation of plasma and pituitary thyrotropin (TSH) of rats. *Soc. Exp. Biol. Med. Proc.* 126(2):553-554. Ref. Nov. 1967. 442.9 S01  
J. N. Panda, R. R. Anderson, and C. W. Turner, joint authors.
- 82469 SMITH, P. C., and others. Intestinal obstruction and death in suckling rats due to sawdust bedding. *Lab. Anim. Care* 18(2,pt.1):224-228. Apr. 1968. 410.9 P94  
J. S. Stanton, R. D. Buchanan, and P. Tanti-charoenyos, joint authors.
- 82470 STANA, L., and others. The amino acid content of blood plasma from normal and fasted rats. *W. Va. Acad. Sci. Proc.* 39:172-173. 1967. 500 W52  
E. S. Yearick, S. Pipes, and T. Whitaker, joint authors.
- 82471 STRYSZAK, A. The role of infection by contact and through the alimentary tract in the epizootiology of *Pasteurella* infection in an experiment conducted on mice. (Pol) *Med. Weter.* 24(4):198-199. Apr. 1968. 41.8 M463  
English summary.
- 82472 TAN, B. D., and JONES, A. W. Resistance of mice to reinfection with the bile duct cestode, *Hymenolepis microstoma*. *Exp. Parasitol.* 22(2):250-255. Ref. Apr. 1968. 436.8 Ex7
- 82473 VAN DER WAALJ, D., and STURM, C. A. Antibiotic decontamination of the digestive tract of mice, technical procedures. *Lab. Anim. Care* 18(1):1-10. Ref. Feb. 1968. 410.9 P94
- 82474 WALES, R. G., and BIGGERS, J. D. The permeability of two- and eight-cell mouse embryos to L-malic acid. *J. Reprod. Fert.* 15(1):103-111. Ref. Feb. 1968. 442.8 J8222
- 82475 ZEMBRUSKI, K. Some nonspecific responses of the guinea pig to the lethal dose of eggs of *Ascaris lumbricoides* suis. *Acta Parasitol. Polon.* 15(1/21):75-80. 1967. 436.8 Ac8
- Miscellaneous
- 82476 COX, J. L., and others. Influence of ambient temperature stress on response of pregnant rats to dietary protein levels. *J. Anim. Sci.* 27(3):650-655. Ref. May 1968. 49 J82  
B. G. Harmon, D. E. Becker, H. W. Norton, and A. H. Hensen, joint authors.
- 82477 DOBBELAAR, M. J., GULDEN, W. J. I. VAN DER, and GAALEN, J. M. VAN. Research in animal experimentation. (Du) *Landbouwkundig Tijdschr.* 80(5):197-200. May 1968. 105.2 Or3  
Laboratory animal science.
- 82478 ITURRIAN, W. B., and FINK, G. B. Comparison of bedding material: habitat preference of pregnant mice and reproductive performance. *Lab. Anim. Care* 18(2,pt.1):160-164. Ref. Apr. 1968. 410.9 P94
- 82479 PRANGE, H. D., SCHMIDT-NIELSEN, K., and HACKEL, D. B. Care and breeding of the fat sandrat (*Psammomys obesus* Cretzschmar). *Lab. Anim. Care* 18(2,pt.1):170-181. Ref. Apr. 1968. 410.9 P94
- 82480 STORMONT, C. Perspectives in the development of new animals for research. *Lab. Anim. Care* 18(2,pt.2):298-304. Ref. Apr. 1968. 410.9 P94  
Chiefly rodents.
- 82481 WALLACE, M. E. A chute for the transference of hyperactive mice during cage cleaning procedures. *Lab. Anim. Care* 18(2,pt.1):200-205. Apr. 1968. 410.9 P94
- POULTRY
- Breeds and Breeding
- 82482 ALTIMIRA RAVENTOS, C. Pekin ducks. (Sp) *Cultiv. Mod.* 51(4):61. Apr. 1968. 15 C89
- 82483 BAELUM, J. Better economy in poultry husbandry through higher egg yields. (Da) *Landbouwt* 22(4):168,170-171. Apr. 1968. 11 L2322  
Effects of breeding and care.
- 82484 FISER, P., and CHURY, J. Results of the hybridization of poultry breeds Rhode Island and Sussex. (Cz) *Veterinarstvi* 18(5):212-213. 1968. 41.8 V6439
- 82485 HALL, T. Studies on the incorporation of  $P^{32}$  and formation of DNA and RNA in the testes of the rooster. *W. Va. Acad. Sci. Proc.* 39:152-158. 1967. 500 W52
- 82486 KLIMES, B. The genetic disease resistance in poultry. (Cz) *Veterinarstvi* 18(2):61-65. Ref. 1968. 41.8 V6439
- 82487 LAKE, P. E., SMITH, W., and YOUNG, D. Electron-microscopical study of the fowl spermatozoon. *J. Physiol.* 196(1):5P-7P. May 1968. 447.8 J82
- 82488 LAKE, P. E., and HATTON, M. Free amino acids in the vas deferens, semen, transparent fluid and blood plasma of the domestic rooster, *Gallus domesticus*. *J. Reprod. Fert.* 15(1):139-143. Ref. Feb. 1968. 442.8 J8222
- 82489 LANDSUDVALGET FOR FJERKRAEAVLEN. Beretning [Report of the Poultry Breeding Committee], 1966-67. Kobenhavn, 1967. 105 p. 47.9 D41
- 82490 LILL, A. Preferential mating in chickens. *Veterinarian [Oxford]* 5(2):107-110. Apr. 1968. 41.8 V6467
- 82491 LOFTS, B., MURTON, R. K., and THEARLE, R. J. P. The effects of 22,25-diazacholesterol dihydrochloride on the pigeon testis and on reproductive behaviour. *J. Reprod. Fert.* 15(1):145-148. Ref. Feb. 1968. 442.8 J8222
- 82492 MORETTI, J., and BARBIER, Y. Reciprocal intolerance between Rhode Island Red M-44 chicks and modified types of Rhode Island Red M-44. (Fr) *Acad. Sci. C. R. Ser. D*, 266(20):2117-2119. May 13, 1968. 505 P21  
Of blood.



- 82493 PAVEL, J., BABAK, A., and SVOZIL, B. The effect of stilbestrol on the mobilization of lipoproteins in the blood serum of cocks. (Ge) Arch. Exp. Veterinarmed. 21(5):1209-1215. 1967. 41.8 Ex7  
English summary.
- 82494 VRBA, K. Insemination of turkeys in the breeder flock. (Cz) Pol'nohospodarstvo 14 (1):57-61. 1968. 19.5 P752
- Feeds and Feeding
- 82495 ARNAIZ, F. M. The effect of 4-hydroxy-17-alpha-methyltestosterone on the metabolism of broilers. (It) Veterinaria [Milano] 17(2):75-96. Ref. Mar./Apr. 1968. 41.8 V6499  
English summary.  
Administered in feed.
- 82496 AVANZI, C. F. Nutritional level and value of feed in raising broilers. (It) Avicoltura 37(3):73-77. Ref. Mar. 1968. 47.8 R523  
English summary, p.61.
- 82497 BATTAGLINI, M., COSTANTINI, F., and BOSI, G. Effects of the lipid and choline content of rations on the fatty acids, carotene, cholesterol and choline of eggs and fatty acids of other organs and tissues of layers. (It) Avicoltura 37(3):127-141. Ref. Mar. 1968. 47.8 R523  
English summary, p.62.
- 82498 BATTAGLINI, M., and COSTANTINI, F. Interaction of calcium, phosphorus and manganese in broiler nutrition. (It) Avicoltura 37(3):105-113. Ref. Mar. 1968. 47.8 R523  
English summary, p.62.
- 82499 CASKEY, C. D. Feeding layers for maximum profits. Feedstuffs 40(11):34-35. Mar. 16, 1968. 286.81 F322  
Includes costs.
- 82500 COMBS, G. F., and BOSSARD, E. H. Available lysine content of corn distillers dried grains with solubles based on chick bioassay. Distill. Feed Res. Council. Conf. Proc. 23:58-63. Mar. 13, 1968. 389.79 C765
- 82501 COUCH, J. R. Corn distillers dried grains with solubles for the formulation of a low-lysine diet for rearing broiler-breeder replacement pullets. Distill. Feed Res. Council. Conf. Proc. 23:35-40. Ref. Mar. 13, 1968. 389.79 C765
- 82502 CREIXELL VENDRELL, J. Advantages and disadvantages in the use of fats in poultry nutrition. (Sp) Cultiv. Mod. 41(3):56. Mar. 1968. 15 C89
- 82503 GRUHN, K. Studies on the quality of feed protein for laying hens. 2. Literature review. (Ge) Arch. Geflügelzucht Kleintierkunde 17(1):3-23. 1968. 47.8 Ar22  
English summary.
- 82504 HARMS, R. H. Some practical considerations of the phosphorus nutrition of poultry. Feedstuffs 40(22):34. June 1, 1968. 286.81 F322
- 82505 HARTEL, H. The problem of supplying proteins to broilers. (Ge) Kraftfutter 51(2):42,44. Feb. 1968. 389.78 K85
- 82506 HERTRAMPF, J. Young hen feeding with feed antibiotics? (Ge) Mühle 105(10):127,129. Mar. 7, 1968. 298.8 M89
- 82507 JONES, F. J. S., and SUMMERS, D. D. B. Relation between DDT in diets of laying birds and viability of their eggs. Nature 217(5134):1162-1163. Mar. 23, 1968. 472 N21
- 82508 KIRKPATRICK, H. R. Pellets or mash to laying birds. Agr. Northern Ireland 42(10):341-342. Feb. 1968. 256.13 Ag82M
- 82509 LAFFOLAY, and POICHET. Small deposits, great consequences: the grit and oyster shells in poultry nutrition. (Fr) PROVIMI (Proteines, Vitamines, Mineraux) Inform. 52:9-11. Feb. 1968. 389.78 P942
- 82510 LAMBERT, M. A., and others. The feeding value of pre-ripe wheat. Feedstuffs 40(22):26, 30. June 1, 1968. 286.81 F322  
C. W. Deyoe, J. A. Shellenberger, and P. E. Sanford, joint authors.  
Trials with chicks.
- 82511 LANZA, A., and GALVANO, G. Research on the use of dry orange pulp as a partial substitute for maize and sorghum in the nutrition of broilers. (It) Avicoltura 37(3):97-101. Mar. 1968. 47.8 R523  
English summary, p.62.
- 82512 MARJANOVIC, M. Some observations on the importance of the energy and protein values in rations for poultry. (Se) Krmiva 10(1):12-15. Jan. 1968. 389.78 K89
- 82513 MASRIERA, J. Feather meal for poultry and swine. (Sp) Cultiv. Mod. 51(2):52. Feb. 1968. 15 C89
- 82514 NESTIC, P., DZINIC, M., and ARNAUTOVIC, S. On avitaminoses and the need of vitamins in the intensive fattening of chickens. (Se) Veterinaria [Sarajevo] 16(4):513-518. Ref. 1967. 41.8 V6494  
English summary.
- 82515 NUTRITION SYMPOSIUM, 32. INFORM. L. POULTRY NUTRITION CONFERENCE [Papers]. Fed. Amer. Soc. Exp. Biol. Fed. Proc. 27(3):914-931. Ref. May/June 1968. 442.9 F31P  
Vitamin E and essential fatty acids in avian reproduction, by L. S. Jensen; Influence of protein restriction during growing period on subsequent performance of chickens, by R. H. Harmus and H. R. Wilson; Protein requirement, nitrogen retention, and egg production of the laying hen, by R. Shapiro; Trace minerals and avian reproduction, by J. E. Savage.
- 82516 PANDA, N. C., and PRADHAN, S. C. Effect of vitamin K in hen's diet on hatchability. Indian Vet. J. 44(12):1056-1060. Ref. Dec. 1967. 41.8 In2
- 82517 POTTER, L. M., and KELLY, M. Nutritional value of corn and soybean meal in poultry rations. Feedstuffs 40(12):42-43. Mar. 23, 1968. 286.81 F322
- 82518 PROCTOR, J. Physiological evaluation of solvent-treated cottonseed meals in rations for laying hens. Amer. Oil Chem. Soc. J. 45(5):393-396. Ref. May 1968. 307.8 J82
- 82519 QUILICI, R. The use of feather meal for feeding growing chickens. (It) Avicoltura 37(3):79-82. Mar. 1968. 47.8 R523  
English summary, p.61.
- 82520 RUNNELS, T. D. Effective levels of distillers feeds in poultry rations. Distill. Feed Res. Council. Conf. Proc. 23:15-22. Ref. Mar. 13, 1968. 389.79 C765
- 82521 SCOTT, M. L. Rediscovery of biotin as a factor for prevention of leg weakness in turkeys. Feedstuffs 40(11):24,26. Ref. Mar. 16, 1968. 286.81 F322
- 82522 SCOTT, M. L. A review of the biotin requirements of turkeys. Distill. Feed Res. Council. Conf. Proc. 23:30-34. Ref. Mar. 13, 1968. 389.79 C765
- 82523 SELL, J. L., and others. Feed value for growing-finishing oats for turkeys. N. Dak. Farm Res. 25(4):3-5. Mar./Apr. 1968. 100 N813B  
R. L. Bryant, R. J. Rose, and W. C. Lockhart, joint authors.
- 82524 SMITH, K. J. A review of the nutritional value of sunflower meal. Feedstuffs 40(23):20,22,24, 60. June 8, 1968. 286.81 F322  
Includes research in poultry nutrition.
- 82525 SMITH, L. The protein requirements of Australian white turkeys from hatching to twelve weeks. Australian J. Exp. Agr. Anim. Husb. 8 (30):15-20. Feb. 1968. 23 Au792
- 82526 SOLOV'EV, N. F. Using keto acids in feeding of chicks. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 2:141-143. Feb. 1968. 20 V633
- 82527 STEPHENSON, E. L., YORK, J. O., and BRAGG, D. B. Comparative feeding values of brown and yellow grain sorghum. Feedstuffs 40(21):112-114. May 25, 1968. 286.81 F322  
Trials with chicks.

- 82528 STUTE, K., and VOGT, H. The effect of 3-nitro-4-hydroxyphenylarsonic acid (3-nitro-Hoethst) on egg production and food conversion of laying hens and residue analyses of muscle, organs and eggs. *Brit. Poultry Sci.* 9(2):121-128. Ref. Apr.1968. 47.8 B77  
Used in poultry rations.
- 82529 STUTTS, E. C. Four critical sectors in the nutrition of layers. (Sp) *Indus. Avicola* 15(5):26-27,29. May 1968. 47.8 In23  
English summary, p.2B.  
Problems of care and disease.
- 82530 SUMMERS, J. D., and PEPPER, W. F. Poultry feed formulas. Guelph, Ontario Agricultural College, University of Guelph, 1968. 149 p. 47.9 On83  
Ontario Department of Agriculture and Food, cooperating.
- 82531 VINCEK, C., and JURAS, V. Reciprocal action of the amino acids lysine and methionine in the feed of broilers. (Ge) *Z. Tierphysiol. Tierernähr. Futtermittelkunde* 23(6):349-354. May 1968. 389.78 Z3  
English summary.  
Yugoslavia.
- 82532 VISNJIC, C., and ZIVKOVIC, S. Antibiotics in the diet of fattening chickens. (Se) *Veterinaria [Sarajevo]* 16(4):507-512. Ref. 1967. 41.8 V6494  
English summary.
- 82533 WILDFEUER, I., and others. On influencing the yolk color of hen's eggs with the addition of carotenoids to the feed. III. (Ge) *Z. Lebensmittel-Untersuchung-Forsch.* 136(4):203-214. Ref. 1968. 384 Z39  
L. Acker, A. Mehner, and W. Rauch, joint authors.
- 82534 ZELENKA, J. Influence of the age of chicken on the metabolisable energy values of poultry diets. *Brit. Poultry Sci.* 9(2):135-142. Ref. Apr.1968. 47.8 B77
- Veterinary Medicine
- 82535 AGRIMI, P. RIF (resistance-inducing factor), a new component of the avian leukosis virus group. (It) *Zooprofilassi* 22(11/12):475-478. Nov./Dec.1967. 41.8 Z72
- 82536 ANDREWS, J. W., WAGSTAFF, R. K., and EDWARDS, H. M. Cholesterol metabolism in the laying fowl. *Amer. J. Physiol.* 214(5):1078-1083. Ref. May 1968. 447.8 Am3
- 82537 ANIMAL HEALTH TRUST (GREAT BRITAIN). POULTRY RESEARCH STATION (HOUGHTON). The infectious agent of Marek's disease. *Anim. Health* 6:16-18. Nov.1967. 41.8 An52
- 82538 ANIMAL HEALTH TRUST (GREAT BRITAIN). POULTRY RESEARCH STATION (HOUGHTON). A report for the year 1966/67; research and investigation. *Anim. Health* 7:5-11. Mar.1968. 41.8 An52  
Disease research.
- 82539 ASAJ, A. The ventilation deficit and respiratory mycoplasmosis in chickens. *Vet. Arch.* 37(11/12):380-383. Ref. 1967. 41.8 V6416
- 82540 AWADHIYA, R. P., and JAIN, S. K. Studies on the pathology of neoplasms of animals. I. Ovarian tumours in fowls. *Indian Vet. J.* 44(11):917-920. Ref. Nov.1967. 41.8 In2
- 82541 AXT, J., and IPPEN, R. The vitamin C level of the blood serum of various kinds of animals during states of stress. I. (Ge) *Arch. Exp. Veterinarmed.* 21(4):1099-1112. Ref. 1967. 41.8 Ex7  
English summary.  
Includes poultry.
- 82542 BAHARSEFAT, M. Comparison of three commonly used mediums for the isolation of Mycoplasma gallisepticum from exudate of infected turkeys. *Inst. Razi. Arch.* 19:97-98. Dec.1967. 41.9 In72
- 82543 BALDELLI, B., FRESCURA, T., and ASDRUBALI, G. Cultivation of *Eimeria tenella* in chick embryos. *Vet. Ital.* 19(3):101-107. Mar. 1968. 41.8 C87  
Text also in Italian, p.91-100.
- 82544 BALL, S. J. The stability of resistance to glycyrrylamide and 2-chloro-4-nitrobenzamide in *Eimeria tenella*. *Res. Vet. Sci.* 9(2):149-151. Mar.1968. 41.8 R312  
Experiments with chickens.
- 82545 BANKOWSKI, R. A., CONRAD, R. D., and REYNOLDS, B. Avian influenza A and paramyxoviruses complicating respiratory disease diagnosis in poultry. *Avian Dis.* 12(2):259-278. Ref. May 1968. 41.8 Av5
- 82546 BANKOWSKI, R. A., GERLACH, H., and MIKAMI, T. Histologic changes and inclusion bodies in chickens inoculated with an ornithosis agent. *Avian Dis.* 12(2):217-226. Ref. May 1968. 41.8 Av5
- 82547 BASTAR, M., KACOVSKA, D., and KRAL, J. On the influenza in ducks. (Cz) *Veterinarstvi* 17(6):243-246. 1967. 41.8 V6439
- 82548 BENGELSDORFF, H. J., BECKER, W., and TIEFENBACH, B. Bi-vaccine NCP for vaccination renewal against Newcastle disease. (Ge) *Blauen H. Tierarzt* 36:26-29. Feb.1968. 41.9 B61
- 82549 BENNEJEAN, G., and MEURIER, C. Efficacy for control and toxicity of substances destined for the treatment and prevention of avian nematodes. (Fr) *Cah. Med. Vet.* 37(2):35-59. Mar./Apr.1968. 41.8 C11
- 82550 BLAXLAND, J. D. Vaccination as a means of disease prevention. *Veterinarian [Oxford]* 5(2):125-133. Apr.1968. 41.8 V6467  
In poultry.
- 82551 BOKORI, J. Investigation on the passage of time for digestion of marked feeds in poultry. (Ge) *Acta Vet. [Budapest]* 19(1):81-94. Ref. 1968. 41.8 Ac83  
Use of X-rays.
- 82552 BOLDIZSAR, H., and KOZMA, M. Correlation between the body weight, liver weight, and hepatic ribonucleic acid level in chickens of various ages. *Acta Vet. [Budapest]* 18(1):57-62. 1968. 41.8 Ac83
- 82553 BOTTA, J. A., and CARLTON, W. W. Isoniazid toxicosis in ducklings—studies on pyridoxine, niacin, glutamic acid, and arginine supplementation. *Avian Dis.* 11(4):621-633. Ref. Nov. 1967. 41.8 Av5
- 82554 BRARD, E. Effects of X-rays on the ovary and ovulation of poultry. (Fr) *Acad. Sci. C. R. Ser. D*, 266(19):1996-1999. May 6,1968. 505 P21
- 82555 BULLIARD, H. The brush of the turkey (*Meleagris gallopavo* L.). Morphological study. 16 p. Transl. 15751  
Translation from *Bull. l'Assoc. Anat.* 21:132-145. 1926.
- 82556 BURDICK, M. L. A test of the capacity of chick embryo cells to home after vascular dissemination. *Jour. Exp. Zool.* 167(1):1-19. Ref. Jan. 1968. 410 J825
- 82557 BURTSCHER, H., KÖHLER, H., and SWOBODA, R. Immunization against avian encephalomyelitis. (Ge) *Wien. Tierarztl. Monatsschr.* 54(12):835-842. 1967. 41.8 T345  
English summary.
- 82558 CAMPBELL, F. Fine structure of the bone marrow of the chicken and pigeon. *J. Morphol.* 123(4):405-415. Ref. Dec.1967. 444.8 P826
- 82559 CARLSON, H. C., and WHENHAM, G. R. Coliform bacteria in chicken broiler house dust and their possible relationship to coli-septicemia. *Avian Dis.* 12(2):297-302. Ref. May 1968. 41.8 Av5
- 82560 CAUKA, L., and PETROVSKY, E. Study of polymorphism of esterase of chicken egg white and blood serum. *Folia Biol. [Prague]* 14(2):165-167. Ref. 1968. 442.8 F712
- 82561 CERNIK, K., and RAJTAR, V. Titration of vaccines against the Newcastle disease in chick embryos and tissue cultures. I. Roakin's vaccine. (Cz) *Veterinarstvi* 17(6):241-243. 1967. 41.8 V6439
- 82562 CHEEVERS, W. P., O'CALLAGHAN, D. J., and RANDALL, C. C. Biosynthesis of host and viral deoxyribonucleic acid during hyperplastic fowlpox infection in vivo. *J. Virol.* 2(5):421-429. Ref. May 1968. QR360.J6



- 82563 CHERBY, J. Applications of the hemagglutination-inhibition test for the diagnosis of the Newcastle disease. (Fr) *Lyon. Soc. Sci. Vet. Bull.* 69(4):309-336. Ref. 1967. 41.9 L99  
Includes discussion.
- 82564 CHERBY, J. Immunization of chicks during the first three weeks of life against the Newcastle disease with the use of live virus vaccines. (Fr) *Lyon. Soc. Sci. Vet. Bull.* 69(2):209-224. Ref. 1967. 41.9 L99  
Includes discussion.
- 82565 CHISTOVA, Z. YA, SYURIN, V. I., and GUNENKOVA, N. K. On the nature of poultry respiratory diseases. (Rus) *Veterinariya* 2:43-45. Feb. 1968. 41.8 V6426
- 82566 CHURCHILL, A. E. Studies on the serological and interfering properties of avian leucosis virus isolated from field outbreaks of disease and from three vaccines. *Res. Vet. Sci.* 9(1): 68-75. Ref. Jan. 1968. 41.8 R312
- 82567 CLARK, J. D., and FOSTER, J. W. Immuno-electrophoretic and zone electrophoretic analyses of chicken anti-Newcastle disease serum. *Amer. J. Vet. Res.* 29(6):1293-1301. Ref. June 1968. 41.8 Am3A
- 82568 COMPAGNUCCI, M., BIONDI, E., and VACCARO, A. Research on some enzymes active in the amniotic-allantoic fluid of health chick embryos and those infected with Newcastle disease virus. (It) *Acta Med. Vet.* 13(5/6):303-319. Ref. Sept./Dec. 1967. 41.8 Ac84  
English summary.  
Especially the transaminases, aldolase, and lactic dehydrogenase.
- 82569 CONNECTICUT DEPT. OF AGRICULTURE AND NATURAL RESOURCES. Official poultry directory; pullorum-typhoid clean and passed flocks and hatcheries co-operating in the National Poultry and Turkey Improvement Plan. Hartford, 1968. 24 p. 225 C769
- 82570 CROIZIER, G., and BLUM, J. C. Evidence of a protein (alpha theta) appearing in the plasma and serum of *Gallus gallus* L. after incubation at 37°. (Fr) *Acad. Sci. C. R., Ser. D*, 266(9): 948-951. Feb. 26, 1968. 505 P21
- 82571 DAMIANO, S., and COMPAGNUCCI, M. Report on a case of enterohepatitis in a partridge. (It) *Acta Med. Vet.* 13(5/6):413-424. Ref. Sept./Dec. 1967. 41.8 Ac84  
English summary.
- 82572 DANILIN, V. Controlling rats on the poultry farms. (Rus) *Ptitsevodstvo* 3:37-38. Mar. 1968. 47.8 P95  
As vectors of diseases.
- 82573 DAUGALIEVA, E. KH. The effect of norsulfazol on ascarid and *Heterakis gallinae* larvae in poultry. (Rus) *Veterinariya* 2:73-74. Feb. 1968. 41.8 V6426
- 82574 DAVIDSON, M. F., DRAPER, M. H., and LEONARD, E. M. Structure and function of the oviduct of the laying hen. *J. Physiol.* 196(1):9P-10P. May 1968. 447.8 J82
- 82575 DICKERSON, G. E. Breeding for leukosis resistance. *World's Poultry Sci. J.* 24(2):107-116. Apr./June 1968. 47.8 W89
- 82576 DINES, M. How to go PPLO-free. *Poultry Internat.* 7(6):24-26, 31. June 1968. 47.8 P8698
- 82577 DINES, M. Why go PPLO-free? *Poultry Internat.* 7(5):24-25. May 1968. 47.8 P8698
- 82578 DOMIZIO, G. DI, MINOCCHERI, F., and TOTARO, L. Behaviour of lactic dehydrogenase (LDH) and of its isoenzymes in fowls that are sound carriers of avian leukemia and in organs with anatomical lesions. (It) *Nuova Vet.* 44(2): 93-104. Ref. Mar./Apr. 1968. 41.8 N922  
English summary.
- 82579 DOROSHO, I. N., BEZRUKAYA, I. YU., and SKONSMANAS, I. On chronic form of virus hepatitis in ducklings. (Rus) *Veterinariya* 2: 63-64. Feb. 1968. 41.8 V6426
- 82580 DRAPER, M. H. Changes in mineral and protein content of skeletal muscles from growing chickens. *J. Physiol.* 196(1):85P-86P. May 1968. 447.8 J82
- 82581 DRAPER, M. H., JOHNSTON, H. S., and WYBURN, G. M. The fine structure of the oviduct of laying hen. *J. Physiol.* 196(1):7P-8P. May 1968. 447.8 J82
- 82582 DUBEN, Z. Thermoresistant *Clostridium perfringens* of the A type in poultry. (Cz) *Czech. Min. Zemedel. Lesniho Hospodar. Ustav Vedeckotech. Inform. Vet. Med.* 1:47-53. Ref. Jan. 1968. 41.9 C333  
English summary.  
Associated with diarrhea.
- 82583 ERIKSEN, S. Poultry health: predicament in medicaments. *Feed Farm Supplier* 41(11):28-29. Nov. 1967. 47.8 H28
- 82584 EUZEY, J., CAEIRO, V., and PASTUSZKO, J. Physico-pathological studies on the cecal coccidiosis of poultry. 2-3. (Fr) *Lyon. Soc. Sci. Vet. Bull.* 69(2):197-198, 201-205. 1967. 41.9 L99  
Infected by *Eimeria tenella* and immunization trials.
- 82585 FELICOLI, R. A., and GABRIELLI, F. The citrate cleavage enzyme activity in chick embryo and chicken liver during development. *Experientia* 23(12):1000-1001. Ref. Dec. 15, 1967. 47.5 Ex7
- 82586 FIRKET, J. Research on the genesis of epidermal fibrils in the chicken. 21 p. Ref. Transl. 16757  
Translation from *Anat. Anz.* 38:537-549. 1911.
- 82587 FRIED, K., JANTOSOVIC, J., and KOCIS, J. Encephalomalacia of chicks caused by insufficient nutrition. (Cz) *Veterinarstvi* 18(3):101-104. 1968. 41.8 V6439
- 82588 FÜLLER, R., and JAYNE-WILLIAMS, D. J. The origin of bacteria recovered from the peritoneum and yolk sac of healthy chickens. *Brit. Poultry Sci.* 9(2):159-163. Ref. Apr. 1968. 47.8 B77
- 82589 GASPARINI, G. Chloramphenicol spray for cannibalism of poultry. (It) *Veterinaria [Milano]* 17(1):52-56. Jan./Feb. 1968. 41.8 F6499
- 82590 GELETYUK, V. Z. Comparative study of mycobacteria isolated from peat and of *Mycobacterium avium*. (Rus) *Veterinariya* 12:106-107. Dec. 1967. 41.8 V6426
- 82591 GHIRCOIASIU, M., RUSDEA-SUTEU, D., and ERDEI, M. Variations in proteins and in transaminase activity in poultry fed with different protein ratios. (Rum) *Cluj Univ. Babes-Bolyai. Stud. Ser. Biol.* 13(1):105-113. Ref. 1968. 442.9 C62  
English summary.
- 82592 GIBLEY, C. W., and CHANG, J. Fine structure of the functional mesonephros in the eight-day chick embryo. *J. Morphol.* 123(4):441-446. Ref. Dec. 1967. 444.8 J826
- 82593 GILBERT, A. B. Innervation of the avian ovary. *J. Physiol.* 196(1):4P-5P. May 1968. 447.8 J82
- 82594 GODET, J. Evolution of hemoglobins during the development of the chick embryo. (Fr) *Acad. Sci. Compt. Rend. Ser. D*, 265(19):1401-1403. Nov. 6, 1967. 505 P21
- 82595 GOMEZ-PIQUER, D. J. Clinical characteristics and treatment of the locomotion change syndrome in poultry. (Sp) *Notic. Neosan* 144: 21-39. Jan./Feb. 1968. 41.8 N84
- 82596 GOOD, R. E., HETRICK, J. M., and HANLEY, J. E. Observations on gizzard ulcers in baby chicks. *Avian Dis.* 12(2):327-331. May 1968. 41.8 Av5
- 82597 GOODRIDGE, A. G. Lipolysis in vitro in adipose tissue from embryonic and growing chicks. *Amer. J. Physiol.* 214(4):902-907. Ref. Apr. 1968. 447.8 Am3
- 82598 GOODRIDGE, A. G. Metabolism of glucose-U-<sup>14</sup>C in vitro in adipose tissue from embryonic and growing chicks. *Amer. J. Physiol.* 214(4): 897-901. Ref. Apr. 1968. 447.8 Am3
- 82599 GOURLAY, R. N., and SHIFRINE, M. The virulence and viability of *Mycoplasma mycoides* strains in chicken embryos from normal and immunized hens. *Res. Vet. Sci.* 9(2):185-186. Mar. 1968. 41.8 R312

- S2600** GUNTHER, K., and TEKIN, C. Investigations on the skeletal development and calcification of chicks. 1-2. (Ge) Z. Tierphysiol. Tierernahr. Futtermittelkunde 23(6):355-384. Ref. May 1968. 389.78 Z3  
English summary.
- S2601** HABEDANK, W. D. Coccidiose als modell fur die trypsinaktivierung und -inhibierung [Coccidiosis as model for trypsin activation and inhibition]. Munich. Univ. Tierarztl. Fak. [Inaug.-Diss.] 12,55 p. 1967. 41.2 M9222  
Bibliography, p.47-55.  
Poultry.
- S2602** HALADEJ, S., and HRABETA, P. A contribution to the occurrence of acute Marek's disease in Czechoslovak poultry. (Cz) Veterinarstvi 18(3):113-114. 1968. 41.8 V6439  
Lymphomatosis.
- S2603** HALPIN, F. B. The generation of static electricity by an automatic feeder. Veterinarian [Oxford] 5(2):83-88. Apr.1968. 41.8 V6467  
Responsible for the death of poultry in the house.
- S2604** HANSON, B. S. Developments, diseases and diagnosis. Veterinarian [Oxford] 5(3):119-123. Apr.1968. 41.8 V6467  
In poultry.
- S2605** HEALEY, J. S. Necrotic enteritis, an important disease of broilers. New S. Wales. Dep. Agr. Poultry Notes, Jan.1968:2-4. 47.9 N472  
In Australia.
- S2606** HERZ, A., PERK, K., and HORT, I. Osmotic behavior of erythrocytes of chicken embryos during incubation. Amer. J. Vet. Res. 29(6):1303-1308. Ref. June 1968. 41.8 Am3A
- S2607** HILLEMANN, M. R. Interferon induction and utilization. J. Cell. Physiol. 71(1):43-59. Ref. Feb.1968. 444.8 J822  
Includes nucleic acids from Newcastle disease virus, tobacco mosaic virus, and Penicillium funiculosum tested on rabbits.
- S2608** HOCKER, W. Effects of prolactin on the body weight of hypophysectomized pigeon. (Ge) Naturwissenschaften 55(4):184. Apr.1968. 474 N213
- S2609** HODGES, R. D. Levels of cations in the blood of the laying hen in relation to the shell formation cycle. J. Physiol. 196(1):83P-84P. May 1968. 447.8 J82
- S2610** HODGSON, J. N. A new anti-coccidial drug (M and B 15,497): Activity studies against laboratory and field strains of Eimeria. Brit. Vet. J. 124(5):209-218. Ref. May 1968. 41.8 V643  
Ethyl 6-n-decyloxy-7-ethoxy-4-hydroxyquinoline-3-carboxylate used for the prevention of coccidiosis in poultry.
- S2611** HOWARD, B. R. The structure of the diencephalon of the fowl Gallus domesticus. J. Physiol. 196(1):8P-9P. May 1968. 447.8 J82
- S2612** HUDSON, D. A., and LEVIN, R. J. The ontogeny of electrical activity associated with absorption of solutes across the developing small intestine of the chick (Gallus domesticus). J. Physiol. 195(2):369-385. Ref. Mar. 1968. 447.8 J82  
Transfer of hexoses.
- S2613** JACKSON, C. A. W., JOHNSTON, R. E., and KEAST, J. C. Progress in pullorum disease control in Australia. Australian Vet. J. 44(4):195-199. Ref. Apr.1968. 41.8 Au72
- S2614** JAPAN. MINISTRY OF AGRICULTURE AND FORESTRY. NATIONAL INSTITUTE OF ANIMAL HEALTH. Poultry sanitation. (Ja) Jap. Vet. Med. Ass. J. 20(12):530-533. (Cont.) Dec.1967. 41.9 J275
- S2615** JAPAN. MINISTRY OF AGRICULTURE AND FORESTRY. NATIONAL INSTITUTE OF ANIMAL HEALTH. Poultry sanitation. (Ja) Jap. Vet. Med. Ass. J. 21(3):121-125. (Cont.) Mar. 1968. 41.9 J275
- S2616** JEFFREYS, R., and KUAN, S. Purification of the alkaline phosphatases of chick intestine. W. Va. Acad. Sci. Proc. 39:305-310. Ref. 1967. 500 W52
- S2617** JURAJDA, V. New knowledge on the leukosis complex of poultry. (Cz) Veterinarstvi 18(5):200-203. 1968. 41.8 V6439
- S2618** KAPP, P., and TOTH, B. On the macro- and microscopic pathology of infectious duck hepatitis. (Hu) Magyar Allatrov. Lapja 23(1):17-23. Ref. Jan.1968. 41.8 V644  
English summary.
- S2619** KARZEL, K. Changes in the resting potentials of growing chicken skeletal muscles. J. Physiol. 196(1):86P-87P. May 1968. 447.8 J82
- S2620** KAUFMANN, A. F., and FEELEY, J. C. Culture survey of Salmonella at a broiler-raising plant. Public Health Rep. 83(5):417-422. May 1968. 151.65 P69
- S2621** KAWASAKI, M., and others. Pathological changes of acute Newcastle disease in an outbreak in Miyazaki Prefecture with special reference to those of the cloaca. (Ja) Jap. Vet. Med. Ass. J. 21(3):113-118. Mar.1968. 41.9 J275  
T. Miyagi, Y. Matsukata, and S. Yanagi, joint authors.
- S2622** KINGSBURY, D. W., and DARLINGTON, R. W. Isolation and properties of Newcastle disease virus nucleocapsid. J. Virol. 2(3):248-255. Ref. Mar.1968. QR360.J6
- S2623** KOSAR, K. The elimination of cannibalism in poultry by the shortening of beaks. (Cz) Veterinarstvi 18(3):108-111. 1968. 41.8 V6439
- S2624** KOSOVAC, A., and others. Distribution of the infection with Salmonella pullorum and Salmonella gallinarum in poultry in Vojvodina region and the role of individual types in epizootiology of fowl typhoid. (Se) Vet. Glas. 21(5):411-417. 1967. 41.8 J93  
B. Nikolic, D. Stanojevic, and Z. Katanic, joint authors.
- S2625** KOTTARIDIS, S. D., LUGINBUHL, R. E., and FREDRICKSON, T. N. Marek's disease. II. Propagation of the Connecticut-A isolate in cell cultures. Avian Dis. 12(2):246-258. Ref. May 1968. 41.8 Av5
- S2626** KOWALSKI, L. M., and STEPHENS, J. F. Arizona 7:1,7,8 infection in young turkeys. Avian Dis. 12(2):317-326. Ref. May 1968. 41.8 Av5
- S2627** KRAEVSKAYA, E. Veterinary measures on the large poultry farms. (Rus) Ptitsevodstvo 3:36-37. Mar.1968. 47.8 P95  
Sanitation.
- S2628** KRISHNAN, R., and KUMAR, K. Studies on the growth of Newcastle disease virus (N.D. virus) in developing chick embryos. Indian Vet. J. 44(11):921-925. Nov.1967. 41.8 In2
- S2629** KRIZ, H., BRADNA, F., and VESTKA, O. The toxicity of furazolidone to ducks. (Cz) Veterinarstvi 18(4):178-179. 1968. 41.8 V6439
- S2630** KUAN, S., and MARTIN, W. G. Reactivation of dialyzed alkaline phosphatase from various tissues of chicks. W. Va. Acad. Sci. Proc. 39:164-169. Ref. 1967. 500 W52
- S2631** LEIBOVITZ, L., and HWANG, J. Duck plague on the American continent. Avian Dis. 12(2):361-378, map. Ref. May 1968. 41.8 Av5  
North America.
- S2632** LEVENSON, G. E., and NELSEN, O. E. Experimentally induced variations in vitelline artery development and circulatory pattern in the early chick embryo. J. Morphol. 123(4):313-321. Ref. Dec.1967. 444.8 J826
- S2633** LOCATELLI, A., and GENCHI, C. Experimental research on depancreatized chickens. (It) Arch. Vet. Ital. 19(1):3-10. Ref. Feb.1968. 41.8 Ar25  
English summary.  
On hematological constituents and especially glucose.
- S2634** LUCAS, J. M. S. M and B 15,497: Acute, subacute and chronic tolerance studies in chickens. Brit. Vet. J. 124(5):219-226. May 1968. 41.8 V643  
Used in poultry diets.
- S2635** LUND, E. E. Acquisition and liberation of Histomonas wenrichi by Heterakis gallinarum. Exp. Parasitol. 22(1):62-67. Feb.1968. 436.8 Ex7  
By chickens and turkeys.



- 82636 LYUBEZNOV, V. N. The role of inflammatory reaction in immunogenesis of chicken pasteurellosis. (Rus) *Veterinariya* 12:47-48. Dec. 1967. 41.8 V6426
- 82637 MANCINI, L. O., and YATES, V. J. Cultivation of avian encephalomyelitis virus in vitro. 2. In chick embryo fibroblastic cell culture. *Avian Dis.* 12(2):278-284. May 1968. 41.8 Av5
- 82638 MANCINI, L. O., and YATES, V. J. Growth of chicken-embryo-lethal-orphan (CELO) virus in chicken embryo neuroglial and chicken embryo fibroblastic cell cultures. *Avian Dis.* 12(2):348-353. May 1968. 41.8 Av5
- 82639 MANUEL, M. F., and SIORES, F. *Pterolichus obtusus*, Robin, 1868, a common feather-mite of chickens in the Philippines. *Indian Vet. J.* 44 (12):1032-1035. Dec. 1967. 41.8 In2
- 82640 MAREK, K., RASZEWSKA, H., and CAKALA, A. The influence of *Mycoplasma gallisepticum* infection on the chicks vaccinated against Newcastle disease. (Pol) *Med. Weter.* 24(4):214-217. Ref. Apr. 1968. 41.8 M463  
English summary.
- 82641 MARKOVIC, P., and others. Isolation of *Mycobacterium tuberculosis* type humanus from the organs of home produced poultry. (Se) *Vet. Glas.* 12(2):101-103. Ref. 1968. 41.8 J93  
S. Zakula, B. Nikolic, and Z. Ljesovic, joint authors.  
English summary.
- 82642 MATUKA, O. Investigations into the etiology of the CRD complex in poultry in Bosnia and Herzegovina. (Se) *Veterinaria [Sarajevo]* 16(4):519-532. 1967. 41.8 V6494  
English summary.  
Causes of mycoplasmosis, Newcastle disease, and infectious bronchitis.
- 82643 MAYOR, O. Y. Histopathological aids to the diagnosis of certain poultry diseases. *Vet. Bull.* 38(5):273-285. Ref. May 1968. 41.8 T752
- 82644 MAZLJA, H., and others. Congenital resistance of chicks from hens who had recovered from Newcastle disease. (Se) *Vet. Arh.* 37 (11/12):350-360. 1967. 41.8 V6416  
M. Kralj, S. Cvetnic, Z. Bombek, Z. Zupancic, and M. Herceg, joint authors.  
English summary.
- 82645 MCFERRAN, J. B., GORDON, W. A. M., and FINLAY, J. T. T. An outbreak of subclinical Newcastle disease in Northern Ireland. *Vet. Rec.* 82(21):589-592, map. May 25, 1968. 41.8 V641
- 82646 MIRAGLIA, R. J., and MARTIN, W. G. Partial purification of the sulfate activating enzymes in chick liver. *W. Va. Acad. Sci. Proc.* 39:158-163. 1967. 500 W52
- 82647 MITROPOL'SKII, A., and GOLOD, YA. Contribution to the diagnosis of some virus diseases of respiratory organs. (Rus) *Pitisevodstvo* 4:42. Apr. 1968. 47.8 P95  
Bronchitis of poultry.
- 82648 MODAK, S. P., MORRIS, G., and YAMADA, T. DNA synthesis and mitotic activity during early development of chick lens. *Develop. Biol.* 17 (5):544-561. Ref. May 1968. 442.8 D49
- 82649 MORGAN, H. R., and LUGINBUHL, R. E. Antibodies for Newcastle disease virus and *Mycoplasma gallisepticum* in sera from domestic chickens game fowl of Kenya. *Avian Dis.* 12(2):227-228. May 1968. 41.8 Av5
- 82650 MORRIS, K. M. L., and TAYLOR, T. G. Urinary excretion of hydroxyproline and acid phenyl phosphatase in the domestic hen. *J. Physiol.* 196(1):87P-88P. May 1968. 447.8 J82
- 82651 MUFTIC, M., and REDMANN, U. The promoting and inhibitory effect on the growth of *Mycoplasma gallisepticum* induced by different steroids. (Ge) *Zentralbl. Bakteriol. Parasitenk. Infektionskr. Hyg. Abt. I, Orig.* 206(2):228-237. Ref. Mar. 1968. 448.3 C33  
English summary.
- 82652 OLSON, N. O., and SOLOMON, D. P. A natural outbreak of synovitis caused by the viral arthritis agent. *Avian Dis.* 12(2):311-316. Ref. May 1968. 41.8 Av5  
Infectious synovitis poultry causes.
- 82653 OSBALDISTON, G. W. Environment and disease. *Veterinarian [Oxford]* 5(2):141-148. Apr. 1968. 41.8 V6467  
In poultry.
- 82654 PALYUSIK, M., and KARDEVAN, A. Pneumomycosis of ducklings caused by *Aspergillus fumigatus*. (Ge) *Acta Vet. [Budapest]* 17(4):337-345. Ref. 1967. 41.8 Ac83
- 82655 PANFILOVA, V. A., and MALAKHOVA, T. I. Application of native nystatin against coccidiosis of chickens. (Rus) *Veterinariya* 2:74-75. Feb. 1968. 41.8 V6426
- 82656 PANNESE, E. Temporary junctions between neuroblasts in the developing spinal ganglia of the domestic fowl. *J. Ultrastruct. Res.* 21 (3/4):233-250. Ref. Dec. 12, 1967. 440.8 J822
- 82657 PATRASCU, I., and others. Infectious laryngotracheitis in poultry. (Rum) *Rev. Zooteh. Med. Vet.* 17(12):31-56. Ref. Dec. 1967. 49 P943  
English summary.
- 82658 POLLAK, J. K., and SHOREY, C. D. The cytochemical localization of glucose-6-phosphatase within the liver of the developing chick embryo. *Develop. Biol.* 17(5):536-543. Ref. May 1968. 442.8 D49
- 82659 POPPE, S. Zinc retention from different zinc salts. (Ge) *Arch. Gefluegelzucht Kleintierkunde* 17(1):43-46. 1968. 47.8 Ar 22  
English summary.  
Poultry.
- 82660 PORA, E. A., and GIURGEA-IACOB, R. A contribution to the study of correlations between Fabricius' bursa and thymus and other glands by means of radioactive phosphorus. (Rum) *Cluj. Univ. Babes-Bolyai. Stud. Ser. Biol.* 13(1):99-104. Ref. 1968. 442.9 C62  
English summary.  
Poultry.
- 82661 QUAGLIO, G., and MORGANTI, L. On the activity of 5-nitro-8-hydroxyquinoline in some avian infections. (It) *Nuova Vet.* 44(2):111-116. Mar./Apr. 1968. 41.8 N922  
English summary.
- 82662 QUEBBEMANN, A. J., and RENNICK, B. R. Catechol transport by the renal tubule in the chicken. *Amer. J. Physiol.* 214(5):1201-1204. Ref. May 1968. 447.8 Am3
- 82663 RAJTAR, V., CERNIK, K., and ZUFFOVA, J. The titration of vaccine against the Newcastle disease in chick embryos and tissue cultures. II. Vaccine B1. (Cz) *Veterinarstvi* 18(3):114-117. 1968. 41.8 V6439
- 82664 REDMANN, U. Effects of some water soluble steroids on the growth of *Mycoplasma gallisepticum*. (Fr) *Inst. Pasteur. Ann.* 114(3):313-315. Mar. 1968. 448.3 An75  
English summary.
- 82665 REYNOLDS, H. A., WATRACH, A. M., and HANSON, L. E. Development of the nuclear inclusion bodies of infectious laryngotracheitis. *Avian Dis.* 12(2):332-347. Ref. May 1968. 41.8 Av5
- 82666 RIDDELL, C., and others. Bone pathology of birds affected with cage layer fatigue. *Avian Dis.* 12(2):285-297. Ref. May 1968. 41.8 Av5  
C. F. Helmboldt, E. P. Singsen, L. D. Matterson, joint authors.
- 82667 RIGONI, M. Fasting, follicle-stimulating hormone, estrogen and the function of the reproductive organs. (It) *Avicoltura* 37(3):117-124. Ref. Mar. 1968. 47.8 R523  
English summary, p. 62.
- 82668 ROBINSON, D. S., and KING, N. R. Mucopolysaccharides of an avian egg shell membrane. *Roy. Microscop. Soc. J.* 88(1):13-22. Ref. 1968. 440.9 R81J
- 82669 RODIN, I. A. Carbophos—an effective preparation against poultry ectoparasites. (Rus) *Veterinariya* 12:95-96. Dec. 1967. 41.8 V6426

- 82670 ROSSI, G. A., DI GIUSEPPE, F., and ACCIARDI, C. Adaptation of some strains of Newcastle virus on cell monolayers BHK21. *Vet. Ital.* 18(11/12):680-686. Ref., p.679. Nov./Dec. 1967. 41.8 C87  
Italian text, p.669-679.
- 82671 RUSINOV, A. Keratoconjunctivitis. (Rus) *Ptitsevodstvo* 4:43. Apr.1968. 47.8 P95  
Chicks.
- 82672 RUSOV, C., and PETROVIC, P. Investigation of blood picture of chickens up to sixty days old. (Se) *Vet. Glas.* 22(1):29-39. Ref. Jan. 1968. 41.8 J93  
English summary.
- 82673 RYLEY, J. F. Methyl benzoate, a new wide-spectrum coccidiostat for chickens. *Brit. Vet. J.* 123(12):513-520. Dec.1967. 41.8 V643
- 82674 SAHASHI, Y., and others. Biochemical studies on vitamin metabolisms in poultry. 6. (Ja) *Vitamins [Nagoya]* 37(2):159-164. Feb.1968. 386.3 B54  
T. Suzuki, S. Masushige, and N. Suzuki, joint authors.  
English summary.
- 82675 SANDA, A. The effect of vitamin A on the experimentally induced gout in poultry. (Cz) *Veterinarstvi* 17(6):255-256. 1967. 41.8 V6439
- 82676 SCHNEIDER, I. Cultivation in vitro of *Plasmodium gallinaceum* oocysts. *Exp. Parasitol.* 22(2):178-186. Ref. Apr.1968. 436.8 Ex7
- 82677 SCHOOP, G., STOLL, L., and SIAM, M. A. The specificity of fresh blood agglutination for the diagnosis of avian tuberculosis. II. The fresh blood agglutination in chicken after experimental infection with *Mycobacterium avium* and *Mycobacterium fortuitum*. (Ge) *Deut. Tierarztl. Wochenschr.* 74(12):297-301. Ref. June 15, 1967. 41.8 D482  
English summary.
- 82678 SENGEL, P., and KIENY, M. Production of a supplementary pteryia in the chick embryo. II. Experimental analysis. (Fr) *Develop. Biol.* 16(6):532-563. Ref. Dec.1967. 442.8 D49  
English summary.
- 82679 SEVCIK, B., KAMBA, V., and HRABETA, P. Prevention of coccidiosis in big poultry farms by medication. (Cz) *Veterinarstvi* 18(3):119-122. 1968. 41.8 V6439
- 82680 SHNEIDER, M., and MUKHAMEDSHIN, R. Erythroblastosis of chicks. (Rus) *Ptitsevodstvo* 4:43-44. Apr.1968. 47.8 P95
- 82681 SHUKLA, P. K., and RAJUA, B. S. Affections of the lower alimentary tract of domestic fowl. I. On the occurrence and morphology of ulcerated enteritis simulating "quail's disease." *Indian Vet. J.* 45(1):10-13. Jan.1968. 41.8 In2
- 82682 SIDOLI, L., and BERGOMI, S. Fowl candida infections: observations in turkey, guinea-fowl and chicken. (It) *Nuova Vet.* 44(2):105-110. Ref. Mar./Apr.1968. 41.8 N922  
English summary.
- 82683 SILIN, A. K., and ERMAKOVA, M. K. Allergic diagnosis of pullorum disease. (Rus) *Veterinariya* 2:61-63. Feb.1968. 41.8 V6426
- 82684 SIVARAM, S. Histochemical studies on the developing adrenal gland of *Gallus domesticus*. *Histochemie* 12(4):316-325. Ref. 1968. 384 H622
- 82685 SLESINGER, L., and SEVCIK, V. Effect of arsenic acid and lignin sulfonates on blood picture, bile pigments and enzyme activity in chicks. (Ge) *Arch. Tierernahr.* 18(2):97-105. Ref. Mar.1968. 389.78 Ar22  
English summary.
- 82686 SLJEPCEVIC-JOVANOVIC, R. Contribution to the knowledge of parasitic fauna in fowls within Serbia. V. Ectoparasites of fowls in the vicinity of Lazarevac. (Se) *Vet. Glas.* 12(3):199-201. 1968. 41.8 J93  
English summary.  
Includes ducks, and turkeys.
- 82687 SPRINGER, W. T., and SCHMITTLE, S. C. Avian encephalomyelitis: A chronological study of the histopathogenesis in selected tissues. *Avian Dis.* 12(2):229-239. May 1968. 41.8 Av5
- 82688 STEIN, G. S. Endocrine studies using birds. *World's Poultry Sci. J.* 24(2):128-140. Ref. Apr./June 1968. 47.8 W89
- 82689 STUART J., D. Effects of photic stimulation before hatching on the development of fear in chicks. *J. Compar. Physiol. Psychol.* 65(2):320-324. Apr.1968. 410 J822
- 82690 SYKES, A. H. The effect of lung ventilation upon submersion anuria in the duck. *J. Physiol.* 196(1):90P. May 1968. 447.8 J82
- 82691 SZYLIT, M., LECLERQ, B., and IVOREC-SZYLIT, O. Specific relationship between serum lactic dehydrogenases and liver in the goose; quantitative determination and electrophoretic characterization. (Fr) *Acad. Sci. C. R., Ser. D*, 266(9):952-955. Feb.26, 1968. 505 P21
- 82692 TAYLOR, R. L., and DUANGMANI, C. Occurrence of *Cryptococcus neoformans* in Thailand. *Amer. J. Epidemiol.* 87(2):318-322. Ref. Mar. 1968. 449.9 Am3  
Associated with pigeons.
- 82693 THOMPSON, K. D., FISCHER, R. G., and LUECKE, D. H. Determination of the viremic period of avian reticuloendotheliosis virus (strain T) in chicks and virus viability in *Triatoma infestans* (Klug) [Hemiptera: Reduviidae]. *Avian Dis.* 12(2):354-360. Ref. May 1968. 41.8 Av5
- 82694 TORRES R., R. E. The Chilean poultry industry is fighting disease. (Sp) *Indus. Avicola* 15(5):22, 24-25. May 1968. 47.8 In23  
English summary, p.2B.
- 82695 TRUSCOTT, R. B. Transmissible enteritis of turkeys—disease reproduction. *Avian Dis.* 12(2):239-245. May 1968. 41.8 Av5  
By administration of *Vibrio* spp.
- 82696 VALERANI, L. Simultaneous vaccination for poultry. (It) *Avicoltura* 37(4):99-103. Apr. 1968. 47.8 R523
- 82697 VELICHKIN, P., URUMOVA, V., and SHTUKAR, N. Effectiveness of the small dosage of anthelmintic preparations. (Rus) *Ptitsevodstvo* 3:38. Mar.1968. 47.8 P95  
Phenothiazine and piperazine used for treatment of ascariasis and heterakidiasis in poultry.
- 82698 VERMA, K. C., and MALIK, B. S. Diagnosis of spirochaetosis of poultry by slide agglutination and spirochaete immobilization tests. *Cur. Sci.* 37(6):170-171. Mar.20, 1968. 475 Sci23
- 82699 VISSCHEDIJK, A. H. J. The air space and embryonic respiration. I—II. *Brit. Poultry Sci.* 9(2):173-210. Ref. Apr.1968. 47.8 B77
- 82700 VRTIAK, J. O., and VODRAZKA, J. Current veterinary problems in poultry raising. (Cz) *Veterinarstvi* 17(4):164-165. 1967. 41.8 V6439
- 82701 WALTER, J. E., and COFFEE, E. G. Control of *Cryptococcus neoformans* in pigeon coops by alkalization. *Amer. J. Epidemiol.* 87(1):173-178. Ref. Jan.1968. 449.8 Am3
- 82702 WATSON, A. R. A. The economic significance of respiratory diseases in the Victorian chicken meat industry. *Australian Vet. J.* 44(5):251-253. May 1968. 41.8 Au72
- 82703 WHITAKER, T., and PATRICK, H. Production and composition of apatite crystals formed in chick connective tissue. *W. Va. Acad. Sci. Proc.* 39:170-171. 1967. 500 W52
- 82704 WIGHT, P. A. L. The induction of experimental uveitis by means of adjuvant and ocular antigens in the domestic fowl. *J. Pathol. Bacteriol.* 95(2):383-390. Ref. Apr.1968. 448.8 J82
- 82705 ZANNELLI, C. The level of citric acid in the blood of the layer. (It) *Arch. Vet. Ital.* 18(6):416-418. Ref. Dec.1967. 41.8 Ar25  
English summary.
- 82706 ZEMLA, J., ANDERLEOVA, A., and GRESIKOVA, M. A study on the nature of nucleic acid of arbovirus Tribec. *Acta Virol.* 12(2):120-127. Ref. Mar.1968. 448.3 Ac85  
Pathogenic to chick embryos.



- 82707 ZUPANCIC, Z., and others. Study of the immunogenic properties of the F strain of virus of Newcastle disease cultured on the F1 cells. (Se) Vet. Arh. 37(11/12):361-367. Ref. 1967. 41.8 V6416  
S. Cvetic, M. Kralj, H. Mazija, M. Herceg, and K. Ziger, joint authors.  
English summary.  
--

#### Miscellaneous

- 82708 ARNOLD, E. L. Poultry house heat loss. Vt. Farm Home Sci. 10(3):9,11. Spring 1968. 100 V593
- 82709 ASCEROV, A. Petroleum wastes—disinfectants. (Rus) Ptitsevodstvo 3:39. Mar.1968 47.8 P95  
Used for poultry sanitation.
- 82710 BERNER, H., and SCHOLTYSEK, S. Possibilities of improving the slaughtering sanitation of poultry. (Ge) Fleischwirtschaft 48(4):422-428. Ref. Apr.1968. 280,38 F62  
English summary.
- 82711 CASTELLO, F. The Saint Thomas Fair in Barcelona is dying of inanition. (Sp) Avicult. Tec. 19(1):3-7. Jan.1968. 47.8 Av57  
Especially its contribution to showing poultry.
- 82712 DOUGLAS, G. W. Profits on the wing. Egg Poultry Prod. 19(4):11,25,29,32. Apr.1968. 47.8 Eg34  
Poultry predators control in Australia.
- 82713 GRAVES, H. B., and SIEGEL, P. B. Chick's response to an imprinting stimulus; heterosis and evolution. Science 160(3825):329-330. Apr.19,1968. 470 Sci2
- 82714 GUILLAUME, J. Artificial incubation. (Sp) Cultiv. Mod. 51(2):41. Feb.1968. 15 C89
- 82715 HOLROYD, P. H. Quail—a review. Poultry Rev. 8(1):13-17. Apr.1968. 47.8 P8699  
Review of the literature.
- 82716 IRVING, M. R. New rules for chicken sexers. S. Australia J. Agr. 71(9):337-338. Apr.1968. 23 So84
- 82717 JUHOS, L. New cage type laying house at Tabbajd. (Hu) Magyar Mezogazdasag 23(52):18-19. Dec.27,1967. 19 M27
- 82718 MASOERO, P. Scientific research in poultry industry. (It) Avicoltura 37(3):69-71. Mar. 1968. 47.8 R523  
English summary, p.61.
- 82719 NORRIS, T. R. The light requirements of chickens of all ages. Veterinarian [Oxford] 5(2):135-140. Apr.1968. 41.8 V6467
- 82720 NOWLAND, W. J. Control of foxes, rats and birds. New S. Wales. Dep. Agr. Poultry Notes, Apr.1968:13-16. 47.9 N472  
Poultry predators.
- 82721 PHELPS, A. Expect fewer eggs from very dim lights. Poultry Internat. 7(6):46,48. June 1968. 47.8 P8698
- 82722 SLENNETT, G. D. Artificial lighting for poultry. I. Lighting for pullets and layers. New S. Wales. Dep. Agr. Poultry Notes, Apr.1968: 2-8. 47.9 N472
- 82723 SYKES, A. H. Controlled egg production in poultry. Outlook Agr. 5(5):223-227. 1968. 10 Ou8  
Great Britain.
- 82724 TSCHIDERER, K. Comparison between battery and ground raising of laying hens. (Ge) Gute Rat Futterungsfragen 7(1):8-10. Jan.1968. 389.78 G98
- 82725 WASMUND, S. Factors which are likely to influence production of hens kept in cages. (Ge) Landarb. Tech. 35:327-337. 1968. 18 L2354
- 82726 WILSON, H. R. How to reduce effects of hot weather on layers. Poultry Internat. 7(6):52-54. June 1968. 47.8 P8698

#### RABBITS

##### Breeds and Breeding

- 82727 AYALA MARTIN, E. The Belgian hare. (Sp) Cultiv. Mod. 51(4):43. Apr.1968. 15 C89

- 82728 BURFENING, P. J., and ULBERG, L. C. Embryonic survival subsequent to culture of rabbit spermatozoa at 38° and 40°C. J. Reprod. Fert. 15(1):87-92. Ref. Feb.1968. 442.8 J8222
- 82729 DESJARDINS, C., KIRTON, K. T., and HAFS, H. D. Sperm output of rabbits at various ejaculation frequencies and their use in the design of experiments. J. Reprod. Fert. 15(1):27-32. Feb.1968. 442.8 J8222
- 82730 MAURER, R. R., HUNT, W. L., and FOOTE, R. H. Repeated superovulation following administration of exogenous gonadotrophins in Dutch-Belted rabbits. J. Reprod. Fert. 15(1): 93-102. Ref. Feb.1968. 442.8 J8222
- 82731 ORGBIN-CRIST, M. C. Gonadal and epididymal sperm reserves in the rabbit: estimation of the daily sperm production. J. Reprod. Fert. 15(1):15-25. Ref. Feb.1968. 442.8 J8222
- 82732 ROIG MIRO, J. Selection of rabbits. (Sp) Avicult. Tec. 19(1):22-24. Jan.1968. 47.8 Av57

##### Feeds and Feeding

- 82733 AYALA MARTIN, E. Hormones and vitamins in rabbit raising. (Sp) Cultiv. Mod. 41(3):37-38. Mar.1968. 15 C89
- 82734 FOX, R. R., and GUTHRIE, D. The value of creep feed for laboratory rabbits. Lab. Anim. Care 18(1):34-38. Feb.1968. 410.9 P94
- 82735 GARCIA LUCH, V. Considerations on rabbit nutrition. (Sp) Vida Agr. [Lima] 45(522):85,87-90. 1968. 9.3 V66  
Peru.
- 82736 NIEHAUS, H. Nutrition physiology of the rabbit. (Ge) Arch. Gefluegelzucht Kleintierkunde 17(1):25-42. Ref. 1968. 47.8 Ar22  
English summary.
- 82737 PARIGI-BINI, R. High energy diets for meat rabbits. (It) Riv. Zootec. 41(3):145-159. Ref. Mar.1968. 49 R52  
English summary.
- 82738 SHORT, R. E., PETERS, J. B., and CASIDA, L. E. Effect of two levels of feeding on ovarian activity, embryo survival and ovarian compensatory hypertrophy in the rabbit. J. Anim. Sci. 27(3):701-704. May 1968. 49 J82
- 82739 SUKEGAWA, K., KIKUCHI, T., and HANDA, H. Studies on the physiological action of lysozyme. 1. Effects of lysozyme administration on animals. (Ja) Jap. Soc. Food Nutr. J. 20(1):45-51. Ref. 1967. 389.9 J27  
English summary.  
Feeding of rabbits and rats.
- 82740 YASUI, T., and NAGATA, Y. A feeding trial on non-protein diet with domestic rabbits. (Ja) Jap. J. Zootec. Sci. 39(4):188-190. Ref. Apr. 1968. 49 N62

##### Veterinary Medicine

- 82741 ARESTOV, I. G. Effect of chlorophos on phagocytic activity of leucocytes and glycogenic function of liver. (Rus) Khim. Sel'skom Khoz. 6(2): 49-51. Ref. 1968. 385 K524  
Rabbits.
- 82742 BORGMAN, R. F., and HASELDEN, F. H. Cholelithiasis in rabbits: Effects of diet upon formation and dissolution of gallstones. Amer. J. Vet. Res. 29(6):1287-1292. Ref. June 1968. 41.8 Am3A
- 82743 BROMONT, P. Rearing technique of gnotobiotic rabbits. (Fr) Rec. Med. Vet. 144(3):221-227. Mar.1968. 41.8 R24  
English summary.
- 82744 CHANG, L. M. S., and HODES, M. E. Partial separation of the DNA nucleotidyltransferases of the Shope rabbit fibroma. Biochem. Biophys. Res. Commun. 31(4):545-552. May 23, 1968. 442.8 B5236
- 82745 FLEEGER, J. L., and others. Testicular lipids. I-II. J. Reprod. Fert. 15(1):1-14. Ref. Feb.1968. 442.8 J8222  
J. P. Bishop, W. R. Gomes, and N. L. VanDe-mark, joint authors.  
I, Effect of unilateral cryptorchidism on lipid classes. II, Effect of unilateral cryptorchidism on fatty acids of testicular phospholipids and triglycerides.  
Rabbits.

- 82746 GRAMENZI, F., and CAPORALE, V. Hog cholera virus strain 'C' (Chinese) in rabbits. I. Thermic reactions. *Vet. Ital.* 19(3):120-127. Mar.1968. 41.8 C87  
Text also in Italian, p.108-119.  
Tested as a vaccine.
- 82747 HAFEZ, E. S. E., and SUGAWARA, S. Maternal effects on some biochemical characteristics of the blastocyst in the domestic rabbit. *J. Morphol.* 124(2):133-142. Ref. Feb.1968. 444.8 J826
- 82748 HRUSOVSKY, J., and NERUD, F. The determination of Endrin 20 in biological material. (*Cz*) *Veterinarstvi* 18(4):177-178. 1968. 41.8 V6439  
Toxicity to rabbits.
- 82749 LAMMLER, G., and DURR, U. On the therapy of intestinal coccidiosis of the rabbit with formosulfathiazole. (*Ge*) *Berliner Munchener Tierarztl. Wochenschr.* 80(23):455-458. Ref. Dec.1,1967. 41.8 B45  
English summary.
- 82750 LEDERIS, K., and LIVINGSTON, A. Subcellular localization of acetylcholine in the posterior pituitary of the rabbit. *J. Physiol.* 196(1):34P-36P. May 1968. 447.8 J82
- 82751 MALIK, S. S., and NAIR, P. G. Studies on serological detection of cow-milk added to buffalo-milk. *Indian J. Vet. Sci. Anim. Husb.* 37(4):207-216. Ref. Dec.1967. 41.8 In22  
Used for the preparation of sera and results of immunizing rabbits.
- 82752 MAURER, R. R., and others. Developmental potential of superovulated rabbit ova. *J. Reprod. Fert.* 15(1):171-175. Feb.1968. 442.8 J8222  
W. L. Hunt, L. D. Van Vleck, and R. H. Foote, joint authors.
- 82753 SIOU, G. Ultrastructural study of the experimental degeneration of optic fibers in the tectum opticum of rabbits. (*Fr*) *Paris. Soc. Biol. Compt. Rend.* 161(10):1857-1860. Ref. 1967, pub.Mar.18,1968. 442.9 P21

#### Miscellaneous

- 82754 PEYRE, R. The rabbit at home. (*Fr*) *PROVIMI* (Proteines, Vitamines, Mineraux) Inform. 52:4-6. Feb.1968. 389.78 P942  
Chiefly housing and feeding.

#### SHEEP AND GOATS

##### Breeds and Breeding

- 82755 AMBLE, V. N., KHANDEKAR, N. C., and GARG, J. N. Statistical studies on breeding data of Deccani and crossbred sheep. *Indian J. Vet. Sci. Anim. Husb.* 37(4):305-326. Ref. Dec. 1967. 41.8 In22
- 82756 AUSTRALIAN SOCIETY OF BREEDERS OF BRITISH SHEEP. Flock book for British breeds of sheep in Australia, volume 60, sect. 2. Melbourne, 1968. 491 p. 45.9 Au72
- 82757 BHASIN, N. R., and DESAI, R. N. Studies on factors affecting birth-weight in Bikaneri sheep; effect of dam and month of lambing. *Indian J. Vet. Sci. Anim. Husb.* 37(4):339-346. Ref. Dec.1967. 41.8 In22
- 82758 BLACK, D. L., and others. Oviduct secretion in the ewe and the effect of oviduct fluid on oxygen uptake by ram spermatozoa in vitro. *J. Reprod. Fert.* 15(1):127-129. Ref. Feb.1968. 442.8 J8222  
L. V. Crowley, R. T. Duxy and C. H. Spilman, joint authors.
- 82759 BROOKER, M. G., and DOLLING, C. H. S. Some observations on the use of "sire-sine" harness and crayons under field conditions. *Australian Inst. Agr. Sci. J.* 34(1):35-37. Mar. 1968. 23 Au74  
Sheep identification in mating.
- 82760 CERANIC, V. A contribution to the study of the effect of lambing twins on the lactation of Yugoslav Merino sheep breed. (*Se*) *Arh. Poljoprivredne Nauk.* 20(68):137-148. Ref. 1967. 21.5 Y9  
French summary.
- 82761 CUCU, N., and BAUER, E. Finding explanation and solution for the stagnation in wool production by the verification of the progeny of rams. (*Rum*) *Rev. Zootech. Med. Vet.* 17(12):20-23. Dec.1967. 49 P943
- 82762 DORSET DOWN SHEEP BREEDERS' ASSOCIATION. The Dorset Down Flock Book. Volume LX, 1968. Dorchester, 1968. 72 p. 45.9 D733
- 82763 FREGEAT, J. On the contest of the Lacaune breed of sheep. (*Fr*) *Revue de l'Elevage* 23(3):131-132,135,137-138,141. Mar.1968. 49 B462
- 82764 GODLEE, A., and SCARLETT, E. C. Promising results from ewe lamb mating trials. *Agr. Gaz. New S. Wales* 79(3):180. Mar.1968. 23 N472
- 82765 GRIGORYAN, S. B. Development of Semi-Fine woolled sheep in Armenian SSR. (*Rus*) *Zhivotnovodstvo* 4:65-66. Apr.1968. 49 Z6  
A response to the article of N. A. Vasil'ev.
- 82766 HALBERT, I. Breeding for wool production. *Farmer's Sci. Joint Conf. [Proc.], 7th Conf.* 41-43. 1967. 27 F22  
Includes discussion.
- 82767 HULET, C. V., PRICE, D. A., FOOTE, W. C. Effects of variation in light, month of year and nutrient intake on reproductive phenomena in ewes during the breeding season. *J. Anim. Sci.* 27(3):684-690. Ref. May 1968. 49 J82
- 82768 HULET, C. V. Factors affecting frequency and rate of lambing. *Wool Technol. Sheep Breeding* 14(11):79-83. Ref. Dec.1967. 304.8 W888
- 82769 ILANCIC, D. The Finnish native sheep. (*Se*) *Vet. Glas.* 22(1):55-59. Jan.1968. 41.8 J93
- 82770 JONES, R. C. The fertility of ewes injected with synthetic oxytocin following artificial insemination. *Australian J. Exp. Agr. Anim. Husb.* 8(30):13-14. Ref. Feb.1968. 23 Au792
- 82771 JONES, R. C. The occurrence of oestrus in ewes and the duration and detection of pregnancy in artificially inseminated ewes. *Australian J. Exp. Agr. Anim. Husb.* 8(30):9-12. Ref. Feb. 1968. 23 Au792
- 82772 KARA, S., and ONEN, M. I. A research on the fattening of Merino lambs with grass and grass with feed supplement. (*Tu*) *Ankara. Lalahan Zootek. Arastirma Enstitusu. Dergisi* 7(4):120-130. Ref. Dec.1967. 49.9 An6  
French summary.
- 82773 KULNICH, I. A. Effect of artificial insemination on productivity of sheep. (*Rus*) *Zhivotnovodstvo* 4:80-81. Apr.1968. 49 Z6
- 82774 LAX, J., and BROWN, G. H. The influence of maternal handicap, inbreeding, and ewe's body weight at 15-16 months of age on reproduction rate in Australian Merinos. *Austral. J. Agr. Res.* 19(3):433-442. Ref. May 1968. 23 Au783
- 82775 LINZELL, J. L., and SETCHELL, B. P. The output of spermatozoa and fluid by, and the metabolism of, the isolated perfused testis of the ram. *J. Physiol.* 195(2):25P-26P. Mar. 1968. 447.8 J82
- 82776 MCGUIRK, B. J. Breeding for lamb production. *Wool Technol. Sheep Breeding* 14(11):73-75. Dec.1967. 304.8 W888  
Border Leicester X Australian Merino.
- 82777 MITIC, N., BESLIN, R., and KOSTIC, V. The effect of pregnant mare's serum on the increase of reproductive capacity in sheep. (*Se*) *Vet. Glas.* 22(5):503-505. 1968. 41.8 J93  
English summary.
- 82778 NAY, T., and JOHNSON, H. Follicle curvature and crimp size in some selected Australian Merino groups. *Australian J. Agr. Res.* 18(5): 833-840. Ref. Sept.1967. 23 Au783
- 82779 NEMETH, J. Grozny Merino breeding. (*Hu*) *Magyar Mezogazdasag* 23(52):20-21. Dec.27, 1967. 19 M27  
Wool production.



- 82790 OZCAN, H. A study on progeny testing of Karakul rams at Cifteler Stud Farm [Cifteler Harasi Ineklerinde]. (Tu) Ankara. Lalahan Zooteh. Arastirma Enstitusu. Dergisi 7(4):137-147. Dec.1967. 49.9 An6  
English summary.
- 82791 OZKOCA, A. Studies about dilution and storage of ram semen. VII. (Tu) Ankara. Lalahan Zooteh. Arastirma Enstitusu. Dergisi 7(4):131-136. Ref. Dec.1967. 49.9 An6  
English summary.
- 82792 PAVLOVIC, Z., and VARADIN, M. Considerations on most appropriate dilutants for the semen of sheep. (Se) Vet. Glas. 22(5):497-502. 1968. 41.8 J93  
English summary.
- 82793 POZDNYAKOV, P. M. Artificial insemination of sheep and beef cattle in Kazakhstan. (Rus) Zhivotnovodstvo 4:74-79. Apr.1968. 49 Z6
- 82794 REDFERN, R. A. The ancient sheep of the peaks. Country Life [London] 143(3706):601. Mar.14,1968. 80 C83  
Whiteface Woodlands in Great Britain.
- 82795 REMPEL, W. E. Breeding better sheep. Minn. Sci. 24(8):8-9. Fall 1967. 100 M668
- 82796 SAHNI, K. L., and ROY, A. A note on summer sterility in Romney Marsh rams under tropical conditions. Indian J. Vet. Sci. Anim. Husb. 37(4):335-338. Dec.1967. 41.8 In22  
New Zealand type imported in India.
- 82797 SAHNI, K. L., and ROY, A. A study on the sexual activity of Bikaneri sheep (Ovis aries L.) and conception rate through artificial insemination. Indian J. Vet. Sci. Anim. Husb. 37(4):327-334. Dec.1967. 41.8 In22
- 82798 SAHNI, K. L., and ROY, A. A study on the sexual activity of the Barbari goat (Capra hircus L.) and conception rate through artificial insemination. Indian J. Vet. Sci. Anim. Husb. 37(4):269-276. Dec.1967. 41.8 In22
- 82799 SCOTT, T. W., and SETCHELL, B. P. Lipid metabolism in the testis of the ram. Biochem. J. 107(2):271-278. Ref. Mar.1968. 382 B52
- 82790 SETH, O. N., and ROY, A. A comparative study on the milk-secreting capacity in Indian breeds of ewes by the use of "lamb-suckling" and "oxytocin" techniques. Indian J. Vet. Sci. Anim. Husb. 37(4):347-350. Dec.1967. 41.8 In22  
Bikaneri and Mandya breeds.
- 82791 SETH, O. N., and ROY, A. Physiological reactions of Romney Marsh, Corriedale and Bikaneri (Magra) rams under identical climatic conditions. Indian J. Vet. Sci. Anim. Husb. 37(4):360-364. Ref. Dec.1967. 41.8 In22
- 82792 SEXTON, H. G. C. The future of the halfbreeds: a sheep breeder's problems. Country Life [London] 143(3707):699-700. Mar.21,1968. 80 C83
- 82793 SEYMOUR, R. W. Breeding for fat lamb production. Farmer's Sci. Joint Conf. [Proc.], 7th conf.:38-40. 1967. 27 F22  
Includes discussion.
- 82794 SHEPHERD, R. R. Which prime lamb sire will bring highest returns? Tasmanian J. Agr. 39(1):59-64. Feb.1968. 23 T182T
- 82795 SIDWELL, G. M. Implementing performance testing in range sheep. Nat. Wool Grower 58(6):17-18. June 1968. 45.8 N21N  
In identifying genetically superior rams and ewes.
- 82796 SKJERVOLD, H. Future of sheep breeding. (No) Norsk Landbruk 8:15-17,27. Apr.19,1968. 11 N8122
- 82797 SKJERVOLD, H. We must make sheep breeding more efficient. 2. (No) Norsk Landbruk 7:9-11,34-35. Apr.5,1968. 11 N8122
- 82798 TURNER, H., BROWN, G. H., and FORD, G. H. The influence of age structure on total productivity in breeding flocks of Merino sheep. I. Austral. J. Agr. Res. 19(3):443-475. Ref. May 1968. 23 Au783
- 82799 VOGT, D. W., CARTER, R. C., and MCCLURE, W. H. Genetic and phenotypic parameter estimates involving economically important traits in sheep. J. Anim. Sci. 26(6):1232-1238. Nov. 1967. 49 J82
- 82800 WAGNER, A. M., and GRAY, R. S. Plasma levels of creatine phosphokinase activity in the Merino sheep. S. Afr. Vet. Med. Ass. J. 39(1):45-46. Mar.1968. 41.8 So8
- Feeds and Feeding
- 82801 ADEMOSUM, A. A., BAUMGARDT, B. R., and SCHOLL, J. M. Evaluation of a sorghum-sudangrass hybrid at varying stages of maturity on the basis of intake, digestibility and chemical composition. J. Anim. Sci. 27(3):818-823. Ref. May 1968. 49 J82  
Trials with goats.
- 82802 BOYAZOGLU, P. A., JORDAN, R. M., and MEADE, R. J. Sulfur-selenium-vitamin E interrelations in ovine nutrition. J. Anim. Sci. 26(6):1390-1396. Nov.1967. 49 J82  
Fed during pregnancy.
- 82803 DUTTON, J. E., and FONTENOT, J. P. Effect of dietary organic phosphorus on magnesium metabolism in sheep. J. Anim. Sci. 26(6):1409-1414. Nov.1967. 49 J82
- 82804 HARTER, G. D., and VETTER, R. L. Feeder lamb response to cortisone acetate and diethylstilbestrol. J. Anim. Sci. 26(6):1397-1403. Nov.1967. 49 J82
- 82805 ISMAILOV, I. S. Effect of synthetic amino acids as feed supplements on content of free amino acids in filtrated sheep blood without proteins. (Rus) Vestnik Sel'skokhoz. Nauk. 3:148-149. Mar.1968. 20 V633  
Lysine, methionine and cystine.
- 82806 JONES, L. T. Confinement sheep production. Can. Wool Grower Sheep Breeder 39(1):8,12. Spring 1968. 280.28 C16  
Feeding and housing.
- 82807 JORDAN, R. M. Feeding and management of ewes in confinement. J. Anim. Sci. 26(6):1271-1275. Nov.1967. 49 J82  
Drylot feeding.
- 82808 KROMANN, R. P., and RAY, E. E. Energy metabolism in sheep as influenced by interactions among nutritional and genetic factors. J. Anim. Sci. 26(6):1379-1384. Nov.1967. 49 J82
- 82809 LASSITER, J. W., and MORTON, J. D. Effects of a low manganese diet on certain ovine characteristics. J. Anim. Sci. 27(3):776-779. May 1968. 49 J82
- 82810 LOGGINS, P. E., and others. Effect of feeding long hay or sodium bicarbonate with ground or pelleted diets high in citrus pulp on lamb performance. J. Anim. Sci. 27(3):745-750. Ref. May 1968. 49 J82  
C. B. Ammerman, J. E. Moore, and C. F. Simpson, joint authors.
- 82811 LON, O. Sheep's milk. (Da) Danske Dyrslaegerfor. Medlemsbl. 51(8):294-296. Apr.15,1968. 41.9 D23  
Correlation between milk quality and lamb growth.
- 82812 MCDONALD, I. W. Nutrition and wool growth: some new developments from research. Wool Technol. Sheep Breeding 14(11):53-56. Ref. Dec.1967. 304.8 W888  
In Australia.
- 82813 NOVIKOVA, M. V. Utilization of nitrogen by sheep, fed with urea-phosphoric acid. (Rus) Khim. Sel'skom Khoz. 6(3):55-57. Mar.1968. 385 K524
- 82814 OSMAN, A. H., and BRADFORD, G. E. Genotype-environment interaction and compensatory growth in sheep. J. Anim. Sci. 26(6):1239-1243. Nov.1967. 49 J82  
Lamb feeding trial for meat production.
- 82815 PRICE, D. A., FREDERIKSEN, K. R., and HUMPHREY, R. D. Response of ewe lambs to hay quality and feeding method. Idaho. Agr. Exp. Sta. Bull. 495,15 p. Ref. Mar.1968. 100 Id14  
U. S. Department of Agriculture, cooperating. Meat and wool production.

- 82816 ROBERTS, B. C. The effect of delaying feeding of sheep. *Agr. Gaz. New S. Wales* 79(4): 202-203. Apr. 1968. 23 N472
- 82817 ROSALES DE LA MORA, C. The lamb in the ejido economy. VII. Fattening of sheep with silage. (Sp) *Panagra* 7(88):38-39. Feb. 1968. 8 P196  
Mexico.
- 82818 SCHMEKEL, J. The influence of different silage additives on rumen digestion. Uppsala. *Lantbrukshogsk. Ann.* 33(3):805-821. Ref. 1967. 104 Up6  
Sheep.
- 82819 SCHMEKEL, J. Rumen digestion as affected by varying levels of nitrogen fertilized herbage conserved as silage or artificially dried. Uppsala. *Lantbrukshogsk. Ann.* 33(3):767-783. Ref. 1967. 104 Up6  
Sheep fed Phleum.
- 82820 STAROVOITENKO, N. I. Using ammonium phosphate in feeding sheep. (Rus) *Khim. Sel'skom Khoz.* 6(3):53-55. Mar. 1968. 385 K524  
As supplement in corn silage.
- 82821 TARTTELIN, M. F. Cyclical variations in food and water intakes in ewes. *J. Physiol.* 195(2): 29P-31P. Mar. 1968. 447.8 J82
- 82822 VAN SCHALKWYK, W. R. Good rotational grazing promotes weight increases in Merinos. *Farming S. Afr.* 43(10):13,15. Jan. 1968. 24 So842
- 82823 WESTON, R. H., and HOGAN, J. P. The digestion of pasture plants by sheep. I. Ruminant production of volatile fatty acids by sheep offered diets of rye grass and forage oats. *Austral. J. Agr. Res.* 19(3):419-432. Ref. May 1968. 23 Au783
- Veterinary Medicine
- 82824 ABDULLA, A. E. D., and LINDLEY, E. P. A study of contagious caprine pleuropneumonia. *Bull. Epizoot. Dis. Afr.* 15(4):313-317. Dec. 1967. 41.8 B872  
In Sudan.
- 82825 ALEXANDER, D. P., and others. Insulin in the foetal sheep. *J. Physiol.* 196(1):27P-28P. May 1968. 447.8 J82  
H. G. Britton, N. M. Cohen, and D. A. Nixon, joint authors.
- 82826 ALI-ZADE, T. A. Pathomorphological changes in sheep with chronic pasteurellosis. (Rus) *Veterinariya* 2:59-60. Feb. 1968. 41.8 V6426
- 82827 ANDERSON, P. J. S. The anthelmintic efficacy of pyrantel tartrate. *S. Afr. Vet. Med. Ass. J.* 39(1):47-54. Ref. Mar. 1968. 41.8 So8  
Against gastrointestinal worms of sheep.
- 82828 ANGHEL, C. GH. Observations on the control of enzootic foot rot in sheep. (Rum) *Rev. Zoot. Med. Vet.* 17(12):57-63. Ref. Dec. 1967. 49 P943  
English summary.
- 82829 BAKER, J. R., and FAULL, W. B. Dog's mercury (*Mercurialis perennis* L.) poisoning in sheep. *Vet. Rec.* 82(17):485-489. Ref. Apr. 27, 1968. 41.8 V641
- 82830 BAZANOVA, N. U., KOZHEBEKOV, Z. K., and KRASYUKOVA, N. A. Development of regulation of cardiac activity in postnatal ontogenesis of lambs. (Rus) *Fiziol. Zh. SSSR. I. M. Sechenova* 54(5):577-582. Ref. May 1968. 444.8 F58  
English summary.
- 82831 BENNETT, D., and others. Bioassay responses of ewes to legume swards. I-II. *Australian J. Agr. Res.* 18(3):485-504. Ref. May 1967. 23 Au783  
I, Uterine weight response: variability, calibration, and prediction, by D. Bennett, and M. L. Dudzinski; II, Uterine weight results from swards, by D. Bennett, F. H. W. Morley, and A. Axelsen.
- 82832 BHALLA, R. C., and SHARMA, G. L. Pathogenesis of foot-and-mouth disease in endocrine glands of experimentally infected goats. *Indian J. Vet. Sci. Anim. Husb.* 37(4):287-297. Dec. 1967. 41.8 In22
- 82833 BHATTACHARYA, A. N., and WARNER, R. G. Inhibitory effect of amphetamine on feed and water intake in sheep. *J. Anim. Sci.* 26(6):1445-1449. Nov. 1967. 49 J82
- 82834 BIRKELAND, R. Comparative investigations on glucose concentration in peripheral blood and peritoneal fluid in clinical healthy sheep and pigs. (No) *Nord. Veterinaarmed.* 20(3): 146-154. Mar. 1968. 41.8 N813  
English summary.
- 82835 BOSHIER, D. P. Histological examination of serosal membranes in studies of early embryonic mortality in the ewe. *J. Reprod. Fert.* 15(1):81-86. Ref. Feb. 1968. 442.8 J8222
- 82836 BOUCHE, A., SENAMAUD, J. M., and BOUQUET, J. P. Is the systematic anthelmintic treatment of lambs profitable? (Fr) *Patre* 152:25,27,29,31,33. Mar./Apr. 1968. 45.8 P272
- 82837 BROWN, J. M. M., and WAGNER, A. M. A note on the distribution of creatine phosphokinase (CPK) activity in sheep. *S. Afr. Vet. Med. Ass. J.* 39(1):13-16. Ref. Mar. 1968. 41.8 So8  
Useful in the diagnosis of ovine myopathy.
- 82838 BRUNSKILL, A. Birthcoat and lamb survival. *Agr. Gaz. New S. Wales* 79(4):229-234. Apr. 1968. 23 N472
- 82839 BRUNSKILL, A. Defective udders and lamb survival. *Agr. Gaz. New S. Wales* 79(3):152-153. Mar. 1968. 23 N472
- 82840 CALDER, P. A., and DOLLING, C. H. S. Castration of adult rams with rubber rings as an aid to flock management. *Australian Inst. Agr. Sci. J.* 33(4):267-268,345. Dec. 1967. 23 Au74
- 82841 CAMPBELL, A., and others. A new compound effective against acute fascioliasis in sheep. *Experimentia* 23(12):992-993. Dec. 15, 1967. 475 Ex7  
M. K. Martin, K. J. Farrington, A. Erdelyi, R. Johnston, P. Sorby, H. V. Whitlock, I. G. Pearson, R. C. Jones, J. A. Haigh, and C. P. DeGoosh, joint authors.  
2-acetoxy-4'-chloro-3,5-di-iodobenzanilide, SYD-230.
- 82842 CHEVSKII, S. N., and others. The problem of clinical and anatomical manifestation of foot-and-mouth disease in new-born lambs. 10 p. *Transl.* 16785  
Z. F. Sominskii, P. U. Magnitskii, V. I. Fadin, N. S. Strotanov, V. Ya. Konopatin, and B. S. Gonchav, joint authors.  
Translation from *Ul'yanovskii Sel'skokhozyaistvennyi Institut. Trudy* 10(3):51-56. 1964.
- 82843 COLEGRAVE, A. J. Fascioliasis: Field trials of nitrosynil in sheep. *Vet. Rec.* 82(11):343-348. Mar. 1968. 41.8 V641  
4-cyano-2-iodo-6-nitrophenol.
- 82844 CROKER, K. P. Lamb mortality on agricultural research stations. *West. Australia. Dep. Agr. J. (ser. 4)* 9(2):51-55. Feb. 1968. 23 W52J
- 82845 CVETKOVIC, L. Acute (intestinal) paramphistomosis in sheep. (Se) *Vet. Glas.* 22(1):41-49. Ref. Jan. 1968. 41.8 J93  
English summary.  
In Yugoslavia.
- 82846 CYSEWSKI, S. J., and PIER, A. C. Mycotic abortion in ewes produced by *Aspergillus fumigatus*: Pathologic changes. *Amer. J. Vet. Res.* 29(6):1135-1151. Ref. June 1968. 41.8 Am3A
- 82847 CZIPRI, D. A., NUNNS, V. J., and SHEARER, G. C. Bunamidine hydroxynaphthoate; activity against *Moniezia expansa* in sheep. *Vet. Rec.* 82(18):505-506,521. Ref. May 4, 1968. 41.8 V641
- 82848 DEGTYAREV, V. P. Method of isolating horn of the uterus in ruminants. (Rus) *Akad. Nauk Kaz. SSR. Izv. Ser. Biol. Nauk* 6:81-84. Nov./Dec. 1967. 442.8 AL6  
Sheep.
- 82849 DENAMUR, R., and GAYE, P. Identification of the UDP-D-xylose in the colostrum, milk, and mammary gland of the sheep. (Fr) *Soc. Chim. Biol. Bull.* 49(12):1793-1805. Ref. 1967. 383 So1  
English summary.



- 82850 DEO, P. G., and others. Studies on the effects of feeds deficient in trace elements, vitamin A, protein, calcium and phosphorus on the natural resistance of sheep to common liverfluke, *Fasciola gigantica* Cobbold, 1885. *Indian J. Vet. Sci. Anim. Husb.* 37(4):351-359. Ref. Dec. 1967. 41.8 In22  
K. C. Tandon, V. Kumar, H. D. Srivastava, joint authors.
- 82851 DEWHURST, J. K., HARRISON, F. A., and KEYNES, R. D. Renal excretion of potassium in the sheep. *J. Physiol.* 195(3):609-621. Ref. Apr. 1968. 447.8 J82
- 82852 DONALD, A. D. Ecology of the free-living stages of nematode parasites of sheep. *Australian Vet. J.* 139-144. Ref. Apr. 1968. 41.8 Au72
- 82853 DRAPER, S. A., FALCONER, I. R., and LAMMING, G. E. The relationship between thyroid function and growth rate. *J. Physiol.* 196(1): 91P-92P. May 1968. 447.8 J82  
Tested with sheep.
- 82854 DUC, F. Verminous bronchitis. (Fr) *Patre* 151:39-40. Feb. 1968. 45.8 P272  
In sheep and goats.
- 82855 ELLIS, W. C., and HUSTON, M. E. Caution concerning the stained particle technique for determining gastrointestinal retention time of dietary residues. *J. Dairy Sci.* 50(12):1996-1999. Dec. 1967. 44.8 J822  
Sheep.
- 82856 FARLIN, S. D., GARRIGUS, U. S., and HATFIELD, E. E. Changes in metabolism of biuret during adjustment to a biuret-supplemented diet. *J. Anim. Sci.* 27(3):785-789. Ref. May 1968. 49 J82  
In sheep.
- 82857 FARLIN, S. D., BROWN, R. E., and GARRIGUS, U. S. In vivo metabolism of biuret and urea by sheep. *J. Anim. Sci.* 27(3):771-775. Ref. May 1968. 49 J82
- 82858 FLANAGAN, S. P. High litter size suitable for fat lamb production. *Farm Res. News* 9(1):17. Jan./Feb. 1968. 10.5 F223  
Ireland.
- 82859 FORSYTH, B. A. Parenteral chemotherapy of helminthosis of sheep and cattle. *Australian Vet. J.* 44(4):185-190. Ref. Apr. 1968. 41.8 Au72
- 82860 FURMAGA, S., and GUNDLACH, J. L. Studies on the serum proteins in experimental fascioliasis of sheep. *Acta Parasitol. Polon.* 15(1/21): 93-102. Ref. 1967. 436.8 Ac8
- 82861 GANS, J. H., and BIGGS, D. L. Metabolic effects of long-acting epine phrine in sheep. *Amer. J. Vet. Res.* 29(6):1167-1172. Ref. June 1968. 41.8 Am3A
- 82862 GARDINER, M. R. Bluetongue of sheep. *West. Australia. Dep. Agr. J. (ser.4)9(2):60-63.* Feb. 1968. 23 W52J
- 82863 GILLET, T. A., and others. Potassium and sodium content of muscle from sheep with high and low blood potassium. *J. Anim. Sci.* 27(3): 645-649. Ref. May 1968. 49 J82  
A. M. Pearson, R. A. Merkel, and W. T. Magee, joint authors.
- 82864 GOLOSIN, R. Species of gastro-intestinal nematodes in sheep within the district of southern Backa and northern Banat. I. Intensity and dynamics of occurrence. (Se) *Vet. Glas.* 12(3): 193-198. 1968. 41.8 J93  
English summary.
- 82865 GOLOVAN, V. T. Effect of prolactin, tyroxine and insulin on lactation. (Rus) *Fiziol. Zh. SSSR. I. M. Sechenova* 54(5):638-646. May 1968. 444.8 F58  
Goats.
- 82866 GRAHAM, N. P. H., and EGERTON, J. R. Pathogenesis of ovine foot-rot; the role of some environmental factors. *Australian Vet. J.* 44(5):235-240. May 1968. 41.8 Au72
- 82867 GUILHON, J. Effects on sheep by iodo-3 hydroxy-4 nitro-5 benzonitrile administered through the parenteral duct. (Fr) *Acad. Vet. France. Bull.* 41(1):37-40. Jan. 1968. 41.9 R24  
Synonymous to nitroxylin.
- 82868 HANSARD, S. L., and MOHAMMED, A. S. Maternal-fetal utilization of zinc by sheep. *J. Anim. Sci.* 27(3):807-813. Ref. May 1968. 49 J82
- 82869 HARMEYER, J., and HEKIMOGLU, H. Incorporation of acetate by species of protozoa isolated from the rumen. (Ge) *Zentralbl. Veterinarmed. Reihe A*, 15(3):242-254. Ref. May 1968. 41.8 Z5  
English summary.  
-Goats.
- 82870 HARRISON, F. A., and HEAP, R. B. Progesterone secretion by the autotransplanted adrenal and ovary in a pregnant sheep. *J. Physiol.* 196(1):43P-45P. May 1968. 447.8 J82
- 82871 HARTLEY, W. J., and MOYLE, G. Observations on an outbreak of ovine congenital toxoplasmosis. *Australian Vet. J.* 44(3):105-107. Mar. 1968. 41.8 Au72
- 82872 HEATH, T. Origin and distribution of portal blood in the sheep. *Amer. J. Anat.* 122(1):95-105. Ref. Jan. 1968. 447.8 Am32
- 82873 HEDNER, S. Control of the big liver fluke with Zanil. (Sw) *Svensk Veterinartidn.* 20(2):34-36. Jan. 1968. 41.9 Sv23  
Tested on sheep and cattle.
- 82874 HULL, M. W., and REILLY, M. G. Effect of repeated halothane anesthesia on sheep. *Amer. J. Vet. Res.* 29(6):1161-1165. Ref. June 1968. 41.8 Am3A
- 82875 ILIC, M., and others. *Vibrio* and *Salmonella* abortions in sheep in Montenegro. (Se) *Vet. Glas.* 22(5):507-511. Ref. 1968. 41.8 J93  
M. Olujic, B. Markovic, and B. Popovic, joint authors.  
English summary.
- 82876 JACK, E. J. *Salmonella abortus ovis*: an atypical *Salmonella*. *Vet. Rec.* 82(20):558-561. Ref. May 18, 1968. 41.8 V641
- 82877 JAMES, L. F., and others. Oxalate metabolism in sheep. I. Effect of low level Halogeton glomeratus intake on nutrient balance. *J. Anim. Sci.* 27(3):718-723. Ref. May 1968. 49 J82  
J. C. Street, J. E. Butcher, and W. Binns, joint authors.
- 82878 JAMES, L. F., and others. Oxalate metabolism in sheep. II. Effect of low level of Halogeton glomeratus intake on electrolyte metabolism. *J. Anim. Sci.* 27(3):724-729. Ref. May 1968. 49 J82  
J. C. Street, J. E. Butcher, and J. L. Shupe, joint authors.
- 82879 JAMES, L. F., STREET, J. C., and BUTCHER, J. E. In vitro degradation of oxalate and of cellulose by rumen ingesta from sheep fed Halogeton glomeratus. *J. Anim. Sci.* 26(6):1438-1444. Nov. 1967. 49 J82
- 82880 KALUGIN, V. V. Acute radiation sickness of sheep after their total gamma radiation. (Rus) *Veterinariya* 2:80-82. Feb. 1968. 41.8 V6426
- 82881 KUNWAR, G. S., and DEO, P. G. Studies on the acquired resistance of sheep to *Dicytocaclus filaria* (Rudolphi, 1809) Railliet and Henry, 1907. *Indian J. Vet. Sci. Anim. Husb.* 37(4):298-304. Ref. Dec. 1967. 41.8 In22
- 82882 KURIHARA, Y., and others. Relationship between bacteria and ciliate protozoa in the sheep rumen. *J. Gen. Microbiol.* 51(2):267-288. Ref. Apr. 1968. 448.3 J824  
J. M. Eadie, P. N. Hobson, and S. O. Mann, joint authors.
- 82883 LAZAREV, P. S., and GERSHUN, V. I. Some data on epizootiology of sheep listeriosis. (Rus) *Veterinariya* 2:52-53. Feb. 1968. 41.8 V6426  
In USSR.
- 82884 MACADAM, J. F., and DIPLOCK, P. T. Enterotoxemia in sheep on dry feed. *Agr. Gaz. New S. Wales* 78(12):733-734. Dec. 1967. 23 N472
- 82885 MATHUR, T. N. Isolation of *Brucella abortus* from goats and sheep in Punjab. *Indian J. Vet. Sci. Anim. Husb.* 37(4):277-286. Dec. 1967. 41.8 In22

- 82886 MCBARRON, E. J., and MCINNES, P. Observations on urea toxicity in sheep. *Australian Vet. J.* 44(3):90-96. Mar.1968. 41.8 Au72
- 82887 MCCAULEY, E. H., and TIEKEN, E. L. Psittacosis-lymphogranuloma venereum agent isolated during an abortion epizootic in goats. *Amer. Vet. Med. Ass. J.* 152(12):1758-1765. Ref. June 15,1968. 41.8 Am3
- 82888 MCCULLOCH, B., and KASIMBALA, S. The incidence of gastro-intestinal nematodes of sheep and goats in Sukumaland, Tanzania. *Brit. Vet. J.* 124(5):177-195, map. Ref. May 1968. 41.8 V643
- 82889 MIERT, A. S. J. P. A. M. VAN. Inhibition of rumen contractions during experimental fever. *Vet. Rec.* 82(22):632-634. June 1,1968. 41.8 V641  
Effects of lipopolysaccharides on goats.
- 82890 MILJKOVIC, V., and others. The synchronization of estrus in sheep and swine; preliminary report. (Se) *Vet. Glas.* 22(5):487-490. 1968. 41.8 J93  
B. Markovic, R. Jovanovic, V. Jovanovic, G. Mrvos, M. Ilic, and M. Olujic, joint authors. English summary.
- 82891 MORROW, D. A. Acute selenite toxicosis in lambs. *Amer. Vet. Med. Ass. J.* 152(11):1625-1629. Ref. June 1,1968. 41.8 Am3  
Sodium selenite.
- 82892 MUGERA, G. M., and BITAKARAMIRE, P. Gastroenteritis in Kenya goats caused by *Globovirium gilvuthi*. *Vet. Rec.* 82(21):595-597. Ref. May 25,1968. 41.8 V641
- 82893 MUGERA, G. M., and CHEMA, S. Nairobi sheep disease: A study of its pathogenesis in sheep, goats and suckling mice. *Bull. Epizoot. Dis. Afr.* 15(4):337-354. Ref. Dec.1967. 41.8 B872
- 82894 MURRAY, M. Pulmonary diseases in Kenya sheep. *Bull. Epizoot. Dis. Afr.* 15(4):355-357. Dec.1967. 41.8 B872  
Types of pneumonia.
- 82895 MYERS, L. L., JACKSON, H. D., and PAC-KETT, L. V. Absorption of volatile fatty acids from the cecum of sheep. *J. Anim. Sci.* 26(6):1450-1458. Ref. Nov.1967. 49 J82
- 82896 NEETHLING, L. P., BROWN, J. M. M., and DE WET, P. J. Comparative study on the life-span of erythrocytes and other hematological data in recovered cases of geeldikkop and clinically normal sheep. *S. Afr. Vet. Med. Ass. J.* 39(1):73-75. Mar.1968. 41.8 So8
- 82897 NEETHLING, L. P., BROWN, J. M. M., and DE WET, P. J. Natural occurrence of selenium in sheep blood and tissues and its possible biological effects. *S. Afr. Vet. Med. Ass. J.* 39(1):93-97. Ref. Mar.1968. 41.8 So8
- 82898 NEETHLING, L. P., and others. A note on abnormal hemoglobin in cases of the geeldikkop-enzootic icterus disease complex. *S. Afr. Vet. Med. Ass. J.* 39(1):89. Mar.1968. 41.8 So8  
J. M. M. Brown, D. R. Osterhoff, P. J. De Wet, and I. S. Ward-Cox, joint authors. In sheep.
- 82899 NELSON, W. A., WEINTRAUB, J., and HIRO-NAKA, R. Effects of vitamin A deficiency and ked *Melophagus ovinus* resistance on the feeding of *Dermacentor andersoni* on sheep. *Exp. Parasitol.* 22(2):240-244. Ref. Apr.1968. 436.8 Ex7
- 82900 NELSON, W. A., and SLEN, S. B. Weight gains and wool growth in sheep infested with the sheep ked *Melophagus ovinus*. *Exp. Parasitol.* 22(2):223-226. Apr.1968. 436.8 Ex7
- 82901 OGANDZHANOV, V. B., and PADUCHEVA, A. L. Stimulation of weight of castrated rams with synthetic anabolic preparations. (Rus) *Khim. Sel'skom Khoz.* 6(4):49-51. Apr.1968. Stilbestrol and methandriol.
- 82902 ORBANYI, I., and FESUS, L. Haemoglobin types and production traits in sheep. (Hu) *Al-laitenyesztes* 17(1):81-87. Feb.1968. 49 AL57  
English summary.  
Wool production.
- 82903 PETKOV, K., and MADZIROV, Z. Concentration of iron and copper in the blood serum of lambs of three months of age. (Se) *Vet. Glas.* 12(3):189-192. Ref. 1968. 41.8 J93  
English summary.
- 82904 PETRISSANT, G. Study of the soluble ribonucleic acid of the mammary gland of the ewe. I. (Fr) *Soc. Chim. Biol. Bull.* 50(1):47-61. 1968. 383 So1  
English summary.
- 82905 PHILIP, R. N., and others. Lambing performance of Idaho sheep vaccinated against naturally occurring enzootic abortion in ewes. *Amer. J. Vet. Res.* 29(6):1153-1159. Ref. June 1968. 41.8 Am3A  
F. W. Frank, D. B. Lackman, D. A. Price, E. A. Casper, W. A. Meinershagen, joint authors.
- 82906 PLOTKA, E. D., and ERB, R. E. Levels of progesterone in peripheral blood plasma during the estrous cycle of the ewe. *J. Anim. Sci.* 26(6):1363-1365. Nov.1967. 49 J82
- 82907 PROTASOV, B. I. Effect of adrenalin and chlorpromazine on milk secretion. (Rus) *Fiziol. Zh. SSSR, I. M. Sechenova* 54(5):631-637. Ref. May 1968. 444.8 F58  
English summary.  
Goats.
- 82908 RAYNAUD, J. P. Digestive strongylosis of sheep; efficacy results of pyrantel used in France. (Fr) *Rev. Med. Vet. [Toulouse]* 31(2):115-127. Feb.1968. 41.8 R32  
English summary.
- 82909 REINECKE, R. K. Worm remedies for sheep. *Wolboer* 21(9):iii-iv. Apr.1968. 45.8 W83
- 82910 ROCHE, J. F. Effect of the interval between withdrawal of progestagen pessaries and time of PMS administration on oestrus and ovulation in cyclic ewes. *Irish J. Agr. Res.* 7(1):1-6. Apr.1968. 10.5 Ir45
- 82911 ROSS, J. G. An approach to the treatment of outbreaks of fascioliasis in sheep. *Irish Vet. J. (n.s.)* 22(4):62-68. Apr.1968. 41.8 Ir4
- 82912 ROSS, J. G., and TAYLOR, S. M. Molluscicidal control of fascioliasis. *Vet. Rec.* 82(20):581-582. May 18,1968. 41.8 V641  
N-tritylmorpholine used for the control of snails in relation to sheep infection.
- 82913 SHERGIN, YU. K. Hypodermatosis of goats. (Rus) *Veterinariya* 2:70-73. Feb.1968. 41.8 V6426
- 82914 SMEAL, M. G., and others. The occurrence of strains of *Haemonchus contortus* resistant to thiabendazole. *Australian Vet. J.* 44(3):108-109. Mar.1968. 41.8 Au72  
P. A. Gough, A. R. Jackson, and I. K. Hotson, joint authors.  
In sheep.
- 82915 SMITH, I. D. The effects of worm infestation and fly-strike upon oestrous activity in Merino ewes. *Australian Vet. J.* 44(5):207-209. Ref. May 1968. 41.8 Au72
- 82916 SPRADBROW, P. B. The bacterial flora of the ovine conjunctival sac. *Australian Vet. J.* 44(3):117-118. Mar.1968. 41.8 Au72
- 82917 STAMPA, S., LINHART, H., and SACHS, R. A comparison on the rate of reinfestation of sheep with gastro-intestinal parasites after the use of two different anthelmintics. *S. Afr. Vet. Med. Ass. J.* 39(1):61-67. Ref. Mar.1968. 41.8 So8  
Thiabendazole, and Neguvon A.
- 82918 STEVEN, D. H. Structural differences between exchange units in the sheep and horse placenta. *J. Physiol.* 196(1):24P-26P. May 1968. 447.8 J82
- 82919 TARTTELIN, M. F. A method of accurately locating deep seated structures in the brain stem of sheep. *J. Physiol.* 196(1):22P-23P. May 1968. 447.8 J82
- 82920 TAYLOR, J. A., and JACKSON, H. D. Formation of ketone bodies from (<sup>14</sup>C) palmitate and (<sup>14</sup>C) glycerol by tissues from ketotic sheep. *Biochem. J.* 106(1):289-292. Ref. Jan.1968. 382 B52



- 82921 THOMAS, R. J. The epizootiology of nematode parasites of sheep in the highveld. I. Worm egg counts in lambs. S. Afr. Vet. Med. Ass. J. 39(1):27-31. Ref. Mar.1968. 41.8 S08
- 82922 THORPE, E. Comparative enzyme histochemistry of immature and mature stages of *Fasciola hepatica*. Exp. Parasitol. 22(2):150-159. Ref. Apr.1968. 436.8 Ex7
- 82923 TILTON, J., and LIGHT, M. Ewe estrual control; are vaginal pessaries the answer? N. Dak. Farm Res. 25(4):14-15. Mar./Apr. 1968. 100 N813B
- 82924 TOROPKIN, A. A. Intermediate hosts of microcoeliosis causative agents in Ulyanovsk region. (Rus) Veterinariya 12:55-56. Dec.1967. 41.8 V6426  
Snails and ants as vectors; lambs as hosts.
- 82925 TOSTESON, D. C., and others. The effects of macrocyclic compounds on cation transport in sheep red cells and thin and thick lipid membranes. J. Gen. Physiol. 51(5,pt.2):373-384. Ref. May 1968. 447.8 J822  
Includes antibiotics.
- 82926 TUCKER, R. E., MITCHELL, G. E., and LITTLE, C. O. Ruminant and post-ruminal starch digestion in sheep. J. Anim. Sci. 27(3):824-826. May 1968. 49 J82
- 82927 VIBE, P. P., and NIKITENKO, G. I. Avitellina centripunctata in sheep in the south of Kazakhstan. (Rus) Veterinariya 2:68-70. Feb.1968. 41.8 V6426  
Tapeworm.
- 82928 VUJOVIC, R., VUJIC, B., and CALIC, Z. Practical regulation of estrus and ovulation in sheep with the syncro-mate method. (Se) Vet. Glas. 22(5):491-496. 1968. 41.8 J93  
English summary.
- 82929 WALKER, N. J., PATTON, S., and DIMICK, P. S. Incorporation of [ $I^{14}$ ] acetate into the aliphatic  $\alpha$ -lactones of ruminant milk fat. Biochim. Biophys. Acta 152(3):445-453. May 1, 1968. 381 B552  
Goat's milk.
- 82930 WANDERA, J. G. Pneumonia of sheep in Kenya. II. Pathology of chronic progressive pneumonia. Bull. Epizoot. Dis. Afr. 15(4):393-407. Ref. Dec.1967. 41.8 B872
- Miscellaneous
- 82931 BENNETT, N. W. When to shear—before mating or before lambing? Agr. Gaz. New S. Wales 79(3):134-136. Mar.1968. 23 N472
- 82932 BENNETT, P. M. Tender meat. New Zeal. J. Agr. 114(1):30-31. Jan.1967. 23 N48J  
Care of sheep and proper freezing of meat.
- 82933 BEREK, MRS. G. Study on uniformity of wool evenness on three body regions. (Hu) Allattenyesztes 17(1):71-80. Ref. Feb.1968. 49 AL57  
English summary.  
Sheep.
- 82934 BIVETTI, C. The Swiss trek in summer. Wolboer 21(9):15-17. Apr.1968. 45.8 W83
- 82935 BONHOMME, D., and FEIGE, Y. The sheep stock and its productions. (Fr) Rev. Med. Vet. [Toulouse] 31(4):361-396, map. Apr.1968. 41.8 R32  
English summary.  
Meat, wool, and milk.
- 82936 CALLE, R. Intensive raising of sheep by the stabling system. (Sp) Vida Agr. [Lima] 45(522):65,67,69,71,73. 1968. 9.8 V66
- 82937 COLE, K. J. New technique for culling ewes. Beef Sheep Farming 5(5):14-15. May 1968. 43.8 B392
- 82938 EASTOE, R. D. Many shearing losses can be prevented. Agr. Gaz. New S. Wales 78(12):715-720. Dec.1967. 23 N472  
By sheltering sheep from the cold.
- 82939 JONES, A. L. Preparations for shearing. Tasmanina J. Agr. 39(1):67-69. Feb.1968. 23 T182T
- 82940 LAURANS, R. The Paschal lamb. (Fr) Patre 152:21-24. Mar./Apr.1968. 45.8 P272
- 82941 MATLEY, I. M. Transhumance in Bosnia and Herzegovina. Geogr. Rev. 58(2):231-261, map. Apr.1958. 500 Am35G  
Sheep.
- 82942 MCLEAN, A. Hooded crow control. Agr. Northern Ireland 42(10):327-328. Feb.1968. 256.13 Ag82M  
Pest of lambs and wildlife.
- 82943 MOSHER, W. Taking a leaf from New Zealand's book can aid U. S. sheep producers. Nat. Wool Grower 58(4):18-20. Apr.1968. 45.8 N21N  
Care.
- 82944 MOULE, G. R. Wool production research in Australia. Wool Technol. Sheep Breeding 14(11):45-46. Dec.1967. 304.8 W888
- 82945 OSTROWSKI, H. Ammonia and carbon dioxide content in the surrounding air in dependence to the kind of the diet of sheep. (Pol) Med. Weter. 24(4):233-237. Apr.1968. 41.8 M463  
English summary.
- 82946 PETER, F., and OLAH, MRS. K. K. The production and use of weather resistant and washable marking dyestuff for sheep. I. (Hu) Magyar Textiltech. 20(1):10-12. Jan.1968. 304.8 M27  
English summary, p.4 of content.
- 82947 STOECKEL, R. Evolution of intensive sheep raising. (Fr) PROVIMI (Proteines, Vitamines, Mineraux) Inform. 52:8-9. Feb.1968. 389.78 P942
- 82948 TAIROV, I. M., and GADZHIKHANOV, R. Outlook for development of sheep husbandry in the mountain areas of Dagestan. (Rus) Zhivotnovodstvo 3:38-39. Mar.1968. 49 Z6  
Range type.
- 82949 WILLIS, F. J. Restocking. Beef Sheep Farming 5(3):27,29,32. Mar.1968. 43.8 B392  
With sheep and beef cattle.
- 82950 WYOMING WOOL GROWERS ASSOCIATION. Resolutions 1967. n.p., 1967. 5 p. 45.9 W992P
- SWINE
- Breeds and Breeding
- 82951 AVILES ALGARRA, J. Meat yields of some crosses of the Pietrain breed. (Sp) Cultiv. Mod. 51(4):39. Apr.1968. 15 C89
- 82952 BAIRD, D. Swine testing—present and future. Hog. Prod. 4(5):6-10. May 1968. 46.8 H675  
For breeding selection.
- 82953 BALASHOV, N. T., and BYKHUN, N. V. Economic effectiveness of swine artificial insemination. (Rus) Zhivotnovodstvo 4:71-74. Apr. 1968. 49 Z6
- 82954 BORJANOVIC, S. Tests with the artificial insemination of swine. (Se) Vet. Glas. 22(5):435-440. Ref. 1968. 41.8 J93  
English summary.
- 82955 CERNE, F. Determination of the optimal date for the artificial insemination of swine and cattle by measuring electrical resistance of vaginal mucous membrane. (Se) Vet. Glas. 22(5):447-453. 1968. 41.8 J93  
English summary.
- 82956 CLAUSEN, H. From wild swine to bacon and conservation pig. (Da) Tidsskr. Landokon. 155(4):143-153. 1968. 11 T43  
Selective breeding.
- 82957 COX, D. F., and SMITH, C. Herd differences and genetic trends in Iowa pigs. J. Anim. Sci. 27(3):577-583. May 1968. 49 J82  
Includes evaluation of policies used for boar selection.
- 82958 CZECH, J. Association of swine producers as a factor in breeding progress. (Pol) Gosp. Miesna 20(4):23-25. Apr.1968. 50.8 G69
- 82959 DENNISS, R. Boar weigh and probe program. Hog Prod. 4(5):10-11. May 1968. 46.8 H675
- 82960 DEYOE, B. L. Histopathologic changes in male swine with experimental brucellosis. Amer. J. Vet. Res. 29(6):1215-1220. Ref. June 1968. 41.8 Am3A

- 82961 FERENCZ, G., and CSIRE, L. Estimation of number of sows to be mated to the boar intended for progeny testing. (Hu) Allattenyesztes 17(1):45-54. Feb.1968. 49 AL57  
English summary.
- 82962 GABRIS, J., and STANIK, J. Inheritance of the number of teats in the Czechoslovak Improved White, Landrace and Cornwall swine breeds and in the crosses of the Czechoslovak Improved White with the Landrace swine breed. (Cz) Czech. Min. Zemed. Les. Hospodar. Ustav Vedeckotech. Inform. Zivocisna Vyroba 41(1):29-38. Ref. Jan.1968. 49.9 C33  
English summary.
- 82963 HETZER, H. O., and HARVEY, W. R. Selection for high and low fatness in swine. J. Anim. Sci. 26(6):1244-1251. Nov.1967. 49 J82  
From a line of Duroc and Yorkshire breeds.
- 82964 IVANOV, D. P. Kak poluchit' i vyrastit zdorovykh porosyat [How to obtain and raise healthy baby pigs]. Minsk, Urozhai, 1967. 63 p. SF396.W519
- 82965 JENSEN, P., CRAIG, H. B., and ROBISON, O. W. Phenotypic and genetic associations among carcass traits of swine. J. Anim. Sci. 26(6):1252-1260. Nov.1967. 49 J82
- 82966 KAPLAN, F. The effect of different period of sexual inactivity of boars on daily quantity of ejaculated semen. (Cz) Czech. Min. Zemed. Les. Hospodar. Ustav Vedeckotech. Inform. Zivocisna Vyroba 41(1):57-62. Ref. Jan.1968. 49.9 C33  
English summary.
- 82967 LADAN, P., and others. Evaluation of meat productive qualities of swine. (Rus) Myasnaya Indus. SSSR. 4:38-39. Apr.1968. 50.8 M58  
N. Belkina, N. Pod'yachev, and V. Stepanov, joint authors.  
Different breeds.
- 82968 LANDSUDVALGET FOR SVINEAVLENS LEDELSE. 29. register over orner af Dansk Landrace, [29th register of boars of Danish Landrace], 1968. Roskilde, 1968. 55 p. 46.9 L23
- 82969 LONGENECKER, D. E., and DAY, B. N. Fertility level of sows superovulated at post-weaning estrus. J. Anim. Sci. 27(3):709-711. May 1968. 49 J82
- 82970 NATIONAL PIG BREEDERS' ASSOCIATION. Herd book, 1967 containing entries of Large White pigs. Volume 83. Watford, Herts, 1967. 547 p. 46.9 N21H
- 82971 NORRIS, J. G., and others. Swine breeding in Ontario. Ontario. Dep. Agr. Publ. 500,35 p. Apr.1968. 7 On8P  
G. R. Barr, R. H. Denniss, and R. H. Ingram, joint authors.
- 82972 PAVLIK, J., FIEDLER, J., and SILER, R. The production and structure of swine population of the Cornwall swine breed in Bohemia in 1954-1964. (Cz) Czech. Min. Zemed. Les. Hospodar. Ustav Vedeckotech. Inform. Zivocisna Vyroba 41(1):49-56. Ref. Jan.1968. 49.9 C33  
English summary.
- 82973 PEASE, A. Herd index-how it works. Pig Farming 16(6):33. June 1968. 46.8 P623  
For boar selection.
- 82974 PELLERZI, A. Artificial insemination of swine. (It) Veterinaria [Milano] 17(2):112-118. Mar./Apr.1968. 41.8 V6499
- 82975 PLIMPTON, R. F., and others. Periodic measurement of growth and carcass development following diethylstilbestrol implantation of boars. J. Anim. Sci. 26(6):1319-1324. Nov. 1967. 49 J82  
V. R. Cahill, H. S. Teague, A. P. Grifo, and L. E. Kunkle, joint authors.
- 82976 SCHON, L., and SCHEPER, J. Investigations into breeding in the German Federal Republic. 3. Meat characteristics. (Ge) Fleischwirtschaft 48(4):460-463. Apr.1968. 280.38 F62  
English summary.  
Swine.
- 82977 SENEGACNIK, J. The effect of various environmental factors on viability of semen of boars. (Se) Vet. Glas. 22(5):441-445. Ref. 1968. 41.8 J93  
English summary.  
Diluents.
- 82978 SERRA FABREGAS, J. A wild boar in Barcelona. (Sp) Avicult. Tec. 19(1):29-30. Jan. 1968. 47.8 Av57  
Includes wild swine in folklore.
- 82979 SIMUNIC, B., and ABRAM, K. Artificial insemination of swine in Yugoslavia. (Se) Vet. Glas. 22(5):429-433. 1968. 41.8 J93  
English summary.
- 82980 WADDILL, D. G., CHANEY, C. H., and DUTT, R. H. Ovulation rate in gilts after short-time exposure to continuous light. J. Reprod. Fert. 15(1):123-125. Ref. Feb.1968. 442.8 J8222
- 82981 WILLERS, H. Swine breeds in Schleswig-Holstein. (Ge) Betriebswirtsch. Mitt. Wirtschaftsberater 159:25-28. Feb.15,1968. 281.8 B462
- 82982 WOLFF, H. No trust in form. (Ge) Übersicht 19(5):370-372. May 11,1968. 18 Ub3  
Swine breeding.

#### Feeds and Feeding

- 82983 ANASTASJEVIC, V. Sunflower meal and factors influencing its nutritive value in the feeding of young swine. (Se) Krmiva 10(1):1-6. Ref. Jan.1968. 389.78 K89
- 82984 ANDRZEJEWSKI, R. Dried potatoes used for swine fattening. (Pol) Gosp. Miesna 20(4):21-23. Apr.1968. 50.8 G69
- 82985 BEKAERT, H., ECKKHOUT, W., and BUYSSE, F. The influence of CuSO<sub>4</sub> and CuO, as well as the granulometric degree of the CuSO<sub>4</sub> and a zinc substitute, on the fattening results and copper content of liver in fattening swine. (Fr) Rev. Agr. [Brussels] 20(11/12):1571-1586. Ref., p.1584-1586. Dec.1967. 13 R322  
English summary.
- 82986 BEREK, G. Using corn instead of barley in feeding of pregnant sows. (Hu) Allattenyesztes 17(1):61-70. Feb.1968. 49 AL57  
English summary.
- 82987 BOWDEN, W. E. Facts about skim. Pig Farming 16(6):30-31. June 1968. 46.8 P623  
Skim milk in swine nutrition.
- 82988 CERNOSEK, A., and HELCLOVA, M. Study of some factors of the quality of meat of slaughtered swine. (Cz) Veterinarstvi 18(4):149-151. 1968. 41.8 V6439  
Effect of different feeds.
- 82989 COSTA, P. M. A., CONRAD, J., and CAMPOS, J. Comparative study of three rations in the fattening of swine of the Duroc and Piau breeds. (Por) Rev. Ceres 14(81):239-264. Ref. Jan./Feb.1968. 9.2 C332  
English summary.
- 82990 CROMWELL, G. L., PICKETT, R. A., and BEESON, W. M. Nutritional value of opaque-2 corn for swine. J. Anim. Sci. 26(6):1325-1331. Nov.1967. 49 J82
- 82991 CUNNINGHAM, H. M. Effect of fasting on the oxidation of C<sup>14</sup>-labeled glucose palmitate and valine in growing pigs. J. Anim. Sci. 26(6):1332-1341. Nov.1967. 49 J82
- 82992 ELLIOTT, R. J., and WALKER, N. Effect of dietary zinc on the growth rate and on the zinc and pigment contents of blood and muscle in the pig. Irish J. Agr. Res. 7(1):131-133. Apr.1968. 10.5 Ir45
- 82993 FARRIES, E., ANGELOWA, L., and SCHRODER, J. On the digestibility of raw nutrients and nitrogen retention by Pietrain swine in the course of fattening. 1-2. (Ge) Z. Tierphysiol. Tierernähr. Futtermittelkunde 23(6):331-349. Ref. May 1968. 389.78 Z3  
English summary.
- 82994 FOGRMANN, H. P. Skim milk is cheap. (Da) Landbonyt 22(5):217-219. May 1968. 11 L2322  
Feeding of swine and cattle.
- 82995 FRENZ, K. Thoughts on feeding potato flakes. (Ge) Starke Kartoffel 13(1):4. In Kartoffelbau 19(2). Feb.1968. 75.8 K145  
Baby pigs.



- 82996 GRAF, E., and STRUNC, M. The application of novosolan and aminovitan in feed rations for swine. (Cz) *Agrochemia* [Bratislava] 8(2):61-63. 1968. 385 Ag88  
English summary.
- 82997 GUNIN, A. Z. Fermentative preparations in rations of baby pigs. (Rus) *Zhivotnovodstvo* 3: 85-86. Mar. 1968. 49 Z6
- 82998 HAYS, V. W. Calcium and phosphorus needs of swine as related to performance, skeletal development and rhinitis. *Distill. Feed Res. Counc. Conf. Proc.* 23:48-57. Ref. Mar. 13, 1968. 389.79 C765
- 82999 HOEKSTRA, W. G., and others. Zinc deficiency in reproducing gilts fed a diet high in calcium and its effect on tissue zinc and blood serum alkaline phosphatase. *J. Anim. Sci.* 26(6):1348-1357. Nov. 1967. 49 J82  
E. C. Faltin, C. W. Lin, H. F. Roberts, and R. H. Grummer, joint authors
- 83000 HUDSON, H. E., and PEARSON, B. The determination of trace amounts of methallibure in pig meals. *Analyst* 93(1106):319-322. May 1968. 382 An1
- 83001 ISAKOV, D., and ISAKOV, V. The effect of antibiotics and sulfates in rations of pregnant swine on their live weight and reproductive performance. (Se) *Krmiva* 10(1):6-11. Jan. 1968. 389.78 K89
- 83002 JARQUIN, R., and others. Studies on the use of cottonseed protein concentrate for growing and fattening swine. (Sp) *Arch. Latinoamer. Nutr.* 18(1):39-63. Ref. Mar. 1968. 389.8 Ar22  
M. Gonzalez, R. Oliva, L. A. Lamm, L. G. Elias, and R. Bressani, joint authors.  
English summary.
- 83003 JOHNSON, J. N., and others. Water; can it affect swine performance? *N. Dak. Farm Res.* 25(4):11. Mar./Apr. 1968. 100 N813B  
C. N. Haugse, W. E. Dinusson, M. White, and D. T. Jensen, joint authors.  
Includes analysis of water.
- 83004 LISTER, D., and MCCANCE, R. A. Severe undernutrition in growing and adult animals. 17. The ultimate results of rehabilitation: pigs. *Brit. J. Nutr.* 21(4):787-799. Ref. 1967. 389.8 B773
- 83005 MASON, J. V., and SEWELL, R. F. Influence of diet on the fatty acid composition of swine tissues. *J. Anim. Sci.* 26(6):1342-1347. Nov. 1967. 49 J82
- 83006 MAXWELL, C. V., and others. Effect of oat hulls and other oat fractions on the development of gastric ulcers in swine. *J. Anim. Sci.* 26(6): 1312-1318. Nov. 1967. 49 J82  
N. A. Reese, B. A. Muggenburg, E. M. Reimann, T. Kowalczyk, R. H. Grummer, and W. G. Hoekstra, joint authors.
- 83007 MYSIK, A. T. Vitamin containing supplements for baby pigs. (Rus) *Zhivotnovodstvo* 4:43-45. Apr. 1968. 49 Z6
- 83008 PENZES, L., and MENTLER, L. Effect of alternated feeding of restricted and abundant dietary protein ratios on weight gain and blood protein fractions in growing pigs. *Acta Agron. [Budapest]* 17(1/2):195-204. Ref. 1968. 19 Ac8
- 83009 PETRUKHIN, I. V. Baby pig requirement for macroelements as related to growth. (Rus) *Khim. Sel'skom Khoz.* 6(3):49-53. Ref. Mar. 1968. 385 K524
- 83010 RAJCAN, N. Oxytetracycline in the nutrition of baby pigs. (Se) *Krmiva* 10(1):16-19. Jan. 1968. 389.78 K89
- 83011 RAYNAUD, J. P., JOUANDET, C., and TAIL-LANT, J. Antibiotic additions to the diet of the pork butcher's swine. (Fr) *Indus. Aliment. Anim.* 190:21,23,25,27,29,31,33,35. Feb. 1968. 389.78 In2
- 83012 RIEMANN, U. Technique and work management in ensilage and preparation of fodder potatoes. (Ge) *Kartoffelbau* 19(2):36-37. Feb. 1968. 75.8 K145  
For swine.
- 83013 SCHREINER, H. Feeding technique—profits and slaughter value of swine. (Ge) *Gute Rat Futterungsfragen* 7(1):5-7. (Cont.) Jan. 1968. 389.78 G98  
Installment deals with weight gains during feeding.
- 83014 SPEER, V. C. Advantages of liquid feeding. *Grain Feed J.* 125(10):26. May 22, 1968. 298.8 G762  
Swine.
- 83015 SRECKOVIC, A., GAJIC, Z., and BOKOROV, T. The effect of the level of feeding during the lactation on the weight and reproductive capability of sows. (Se) *Arh. Poljoprivredne Nauk.* 20 (68):115-126. 1967. 21.5 Y9  
English summary.
- 83016 STREUTER, A. Where to with all the potatoes? (Ge) *Kartoffelbau* 19(1):14-15. Jan. 1968. 75.8 K145  
Use the surplus as feed for swine.
- 83017 SZECSENYI, A. Comparative fattening experiments on "young pig vitamin premix" suitable for using at performance test stations. (Hu) *Allattenyesztes* 17(1):55-60. Feb. 1968. 49 AL57  
English summary.
- 83018 TELLERUP, J. Visit to a swine demonstration farm. (Da) *Landbonyt* 22(5):233,235-238,240, 242. May 1968. 11 L2322  
Chiefly feeding.
- 83019 THOMKE, S. Influence of the moisture content and cutting degree on the digestibility of ensiled cereals in pig-feeding. (Ge) *Wirtschafts-eigene Futter* 14(2):93-101. Ref. Apr. 1968. 389.79 F98  
English summary.
- 83020 TRUSHKEVICH, Z. YU., and MYNDRU, N. G. Effect of cobalt and bromides on the weight of baby pigs. (Rus) *Zhivotnovodstvo* 4:40-41. Apr. 1968. 49 Z6
- 83021 WALKER, N. Iron injections at 1 day or 3 days? *Agr. Northern Ireland* 42(10):333-334. Feb. 1968. 256,13 Ag82M  
For baby pigs.
- 83022 YAROV, I., and others. Effect of proteins and vitamins in swine rations on the quality of pork. (Rus) *Myasnaya Indus. SSSR.* 12:35-38. Dec. 1967. 50.8 M58  
N. Vasyutenkova, E. Kalinnikova, E. Mel'nikova, and M. Komarov, joint authors.
- 83023 YOUNG, L. G., and INGRAM, R. H. Dried brewers' grains in rations for market hogs. *Can. J. Anim. Sci.* 48(1):83-88. Ref. Apr. 1968. 41.8 C163  
Veterinary Medicine
- 83024 ACHMETZYZANOV, F. KH. Intestinal microflora of swine with gastroenteritis and hog cholera. (Rus) *Veterinariya* 2:39-41. Feb. 1968. 41.8 V6426
- 83025 AIRAPETYAN, V. G., KHACHATRYAN, A. B., and POGOSYAN, A. A. Hog cholera virus attenuation in tissue culture. (Rus) *Veterinariya* 12:27-29. Dec. 1967. 41.8 V6426
- 83026 ALTERAUGE, E. Botulism following pork consumption in Dortmund. (Ge) *Arch. Lebensmittelhyg.* 19(5):113-114. May 1968. 41.8 L49
- 83027 AYNAUD, J. M. Certain aspects of a study of the properties of live vaccines used against hog cholera. (Fr) *Cah. Med. Vet.* 37(1):19-25. Ref. Jan./Feb. 1968. 41.8 C11
- 83028 BAIER, W. Disorders and diseases of sow during parturition. (Ge) *Prakt. Tierarzt* 49(5): 211-212. May 1, 1968. 41.8 P882
- 83029 BAKER, D. H., DILLER, E. R., JORDAN, C. E. Effect of a combination of diethylstilbestrol and methyltestosterone, sex and dietary protein level on some serum lipids of finishing swine. *J. Anim. Sci.* 27(3):660-663. Ref. May 1968. 49 J82
- 83030 BARNES, D. M., and BERGELAND, M. E. *Salmonella typhimurium* infection in Minnesota swine. *Amer. Vet. Med. Ass. J.* 152(12):1766-1770. June 15, 1968. 41.8 Am3

- 83031 BERNER, H., and MARX, D. Inflammation of lactating milk glands in pigs, with special reference to coli infection. (Ge) Berliner Munchener Tierarztl. Wochenschr. 80(22):428-433. Ref. Nov.15,1967. 41.8 B45  
English summary.
- 83032 BESEDA, M. Histological picture of the virulent gastroenteritis of swine. (Cz) Veterinarstvi 18(5):196-198. 1968. 41.8 V6439
- 83033 BIRKELAND, R. Immobilisation of pig for paracentesis of the abdominal cavity. (No) Nord. Veterinarmed. 20(3):143-145. Mar. 1968. 41.8 N813  
English summary.
- 83034 BORREGO, D. Diarrhea of baby pigs. (Por) Gaz. Agr. Angola 13(2):117,119. Feb.1968. 24 G252
- 83035 BUREAU DE LA NUTRITION ANIMALE ET DE L'ELEVAGE. Les causes d'ulceres gastriques chez le porc [The causes of gastric ulcers in swine]. Bur. Nutr. Anim. Elevage. Rapp. 589,3 p. Feb.1968. 389.79 B89
- 83036 CEDERVALL, A. On death of slaughter swine during transport. (Sw) Svensk Veterinartidn. 20(7):190-193. Apr.1968. 41.9 Sv23
- 83037 COMPAGNUCCI, M., and MARTONE, F. Biochemical research on hog cholera; behavior of some enzymes in the serum. (It) Acta Med. Vet. 13(5/6):267-302. Ref. Sept./Dec.1967. 41.8 Ac84  
English summary.
- 83038 CRUTCHFIELD, W. O., and LIBKE, K. G. Microsporidium nanum infection in Virginia swine. Vet. Med./Small Anim. Clin. 62(12):1173-1175. Dec.1967. 41.8 M69
- 83039 CSEPURA, GY. On edema disease of pigs. (Hu) Magyar Allatrov. Lapja 23(1):14-15. Jan. 1968. 41.8 V644  
English summary.
- 83040 CUNHA, T. J. Spraddled hind legs may be a result of a choline deficiency. Feedstuffs 40(10):25. Mar.9,1968. 286.81 F322  
In swine.
- 83041 CUNNINGHAM, H. M. A simple respiration chamber for carbon-14 studies with pigs. Can. J. Anim. Sci. 47(2):139-141. Aug.1967. 41.8 C163
- 83042 DASTOLI, F. R., LOPIEKES, D. V., and DOIG, A. R. Bitter-sensitive protein from porcine taste buds. Nature 218(5144):884-885. June 1, 1968. 472 N21
- 83043 DHINDSA, D. S., and DZIUK, P. J. Influence of varying the proportion of uterus occupied by embryos on maintenance of pregnancy in the pig. J. Anim. Sci. 27(3):668-672. May 1968. 49 J82
- 83044 DJURISIC, S. Mycoplasmosis in swine. II. On some properties of isolated strains of Mycoplasma. (Se) Vet. Glas. 21(4):343-349. Ref. 1967. 41.8 J93  
English summary.
- 83045 DONE, J. T., and HEBERT, C. N. The growth of the cerebellum in the foetal pig. Res. Vet. Sci. 9(2):143-148. Ref. Mar.1968. 41.8 R312
- 83046 DONGES, J. The modifying effect of the final host on the development of the intestinal fluke Isthmiophora melis (Schrunk, 1788). II. Euparyphium suinum Ciurea, 1921, a synonym of Isthmiophora melis. (Ge) Z. Parasitenk. 30(3):179-184. May 9,1968. 442.8 Z33F  
English summary.  
In swine.
- 83047 DOORNENBAL, H. Value of subcutaneous fat and backfat measurements on the live animal and the carcass as predictors of external, internal and total carcass fat in market weight pigs. J. Anim. Sci. 26(6):1288-1295. Ref. Nov. 1967. 49 J82
- 83048 DUKHNENKO, G. S. Effect of copper sulfate on indicators of erythrocytes in blood of early weaned baby pigs. (Rus) Khim. Sel'skom Khoz. 6(2):46-48. Ref. 1968. 385 K524
- 83049 DZIUK, P. J. Effect of number of embryos and uterine space on embryo survival in the pig. J. Anim. Sci. 27(3):673-676. Ref. May 1968. 49 J82
- 83050 ERCEGAN, M., and POPOVIC, M. Swine dysentery, a hemorrhagic diarrhea. (Se) Vet. Glas. 21(12):957-962. Dec.1967. 41.8 J93  
English summary.
- 83051 FORSEK, Z., RUKAVINA, L., and NEVJESTIC, A. On etiology and spread of atrophic rhinitis in swine at farms in Bosnia and Herzegovina. (Se) Vet. Glas. 12(3):165-170. Ref. 1968. 41.8 J93  
English summary.
- 83052 GAMCIK, P. A contribution to the study of prenatal losses in sows. (Se) Vet. Glas. 22(5):475-482. 1968. 41.8 J93  
English summary.
- 83053 GDOVIN, T. Agalactia of swine. (Cz) Veterinarstvi 17(6):254-255. 1967. 41.8 V6439
- 83054 GOIS, M., and VEZNIKOVA, D. Causes of the infectious inflammation of lungs in swine in Czechoslovakia and the current state of etiology of this syndrome. (Cz) Veterinarstvi 17(5):219-223. 1967. 41.8 V6439
- 83055 GOIS, M., and others. Isolation and characterization of three Picorna virus strains isolated from the lungs of pigs. (Ge) Arch. Exp. Veterinarmed. 21(3):821-833. Ref. 1967. 41.8 Ex7  
V. Pleva, D. Veznikova, and J. Mensik, joint authors.  
English summary.
- 83056 HALIK, J. African swine fever. (Cz) Veterinarstvi 18(2):65-69. 1968. 41.8 V6439
- 83057 HILL, C. H. Fecal transmission of Trichinella spiralis in penned hogs. Amer. J. Vet. Res. 29(6):1229-1234. Ref. June 1968. 41.8 Am3A
- 83058 HOGBERG, K. G., and others. Studies on a new intramuscular haematinic for piglet anaemia. Acta Vet. Scand. 1:10-32. Ref. 1968. 41.8 Ac87  
S. Londvall, K. Orth, B. Trafvelin, and K. Uthne, joint authors.  
An iron compound.
- 83059 IGRITAN, A. Opisthorchiasis in swine. (Rum) Rev. Zooteh. Med. Vet. 17(12):64-66. Dec. 1967. 49 P943
- 83060 IOWA VETERINARY MEDICAL ASSOCIATION. HOG CHOLERA ERADICATION COMMITTEE. The circle complete. Iowa Vet. 39(3):16-17. May/June 1968. 41.8 Io9
- 83061 IOWA VETERINARY MEDICAL ASSOCIATION. HOG CHOLERA ERADICATION COMMITTEE. Hog cholera eradication. Iowa Vet. 39(3):7-15, 17. Ref. May/June 1968. 41.8 Io9
- 83062 JERICHO, K. W. F. Pathogenesis of pneumonia in pigs. Vet. Rec. 82(18):507-520. Ref. May 4,1968. 41.8 V641  
Includes discussion.
- 83063 KAADEN, O. R., and WITTMANN, E. Critical considerations on the diagnostic usefulness of the END method for the in vitro detection of the hog cholera virus. (Ge) Arch. Exp. Veterinarmed. 21(5):1199-1208. Ref. 1967. 41.8 Ex7  
English summary.
- 83064 KAST, A., and HANICHEN, T. Rhabdomyoma in pig heart. (Ge) Deut. Vet. Ges. Ber. 7th Congr.:140-150. Ref. 1968. 41.9 D482  
English summary.
- 83065 KELLER, H., and BERTSCHINGER, H. U. Identification of pleomorphic organisms (PO) in the diagnosis of enzootic pneumonia in pigs. (Ge) Berliner Munchener Tierarztl. Wochenschr. 81(6):101-107. Ref. Mar.15,1968. 41.8 B45  
English summary.  
Includes some bacteria.
- 83066 KING, S. J. Porcine polyserositis and arthritis—with particular reference to mycoplasmosis and Glasser's disease. Australian Vet. J. 44(5):227-230. Ref. May 1968. 41.8 Au72
- 83067 KONYAEV, M. T., and KARASIK, E. M. The effect of antibiotics on development of immunity against erysipelas in weanling pigs. (Rus) Veterinariya 2:41-43. Feb.1968. 41.8 V6426



- 83068 KOVACS, F. The role of some environmental factors as agents of gastroenteritis in swine. (Cz) *Veterinarstvi* 18(3):97-101. 1968. 41.8 V6439
- 83069 KUCERA, K., SLESINGR, L., and KADLEC, A. Pneumocystosis in pigs. *Folia Parasitol.* 15 (1):75-78. 1968. 436.8 C33
- 83070 LABECKA, W., and KOBUSIEWICZ, T. The susceptibility of swine to artificial infection with the virus of foot-and-mouth disease. (Pol) *Med. Weter.* 24(4):202-204. Apr. 1968. 41.8 M463  
English summary.
- 83071 LELAND, S. E., NEAL, F. G., and PLUMMER, C. B. Treatment of *Strongyloides ransomi* infection of pigs with thiabendazole and dichlorvos. *Amer. J. Vet. Res.* 29(6):1235-1240. June 1968. 41.8 Am3A
- 83072 LEWIS, P. K., BROWN, C. J., and HECK, M. C. Effect of ante-mortem stress and freezing immediately after slaughter on certain organoleptic and chemical characteristics of pork. *J. Anim. Sci.* 26(6):1276-1282. Nov. 1967. 49 J82
- 83073 LOJDA, L. A contribution to the explanation of heritability of spastic paresis in swine. (Cz) *Veterinarstvi* 17(6):256-260. 1967. 41.8 V6439
- 83074 LOVEDAY, R. K. Swine health under intensification. *S. Afr. Vet. Med. Ass. J.* 39(1):117-118. Mar. 1968. 41.8 So8
- 83075 MAHNEL, H., and SIEGL, G. Ultrahistological studies on the replications of porcine adenovirus in cell cultures. (Ge) *Zentralbl. Bakteriol. Parasitenk. Infektionskr. Hyg. Abt. I, Orig.* 206 (2):149-159. Ref. Mar. 1968. 448.3 C33  
English summary.
- 83076 MARTIN, C. E., and others. A clinical and pathologic study of the mastitis-metritis-agalactia syndrome of the sows. *Amer. Vet. Med. Ass. J.* 151(12):1629-1634. Ref. Dec. 15, 1967. 41.8 Am3  
B. E. Hooper, C. H. Armstrong, and H. E. Amstutz, joint authors.
- 83077 MILIC, D., and others. A contribution to the treatment of vibronic dysentery in swine with Diarson K. (Se) *Vet. Glas.* 21(6):487-492. Ref. 1967. 41.8 J93  
J. Kostic, A. Loncarevic, and A. Pavlovic, joint authors.  
English summary.  
Given in feed
- 83078 MILOSAVLJEVIC, S., and others. The effect of the weight of sows on the number and weight of alive and the percentage of stillborn baby pigs. (Se) *Vet. Glas.* 22(5):455-460. Ref. 1968. 41.8 J93  
M. Nikolic, B. Sovljanski, and T. Bokorov, joint authors.  
English summary.
- 83079 MILOSAVLJEVIC, S., and others. The effect of weight of sows of first and second parturition on the number and weight of alive and the percentage of stillborn baby pigs. (Se) *Vet. Glas.* 22(5):461-468. 1968. 41.8 J93  
T. Bokorov, B. Sovljanski, and M. Nikolic, joint authors.  
English summary.
- 83080 MISCH, K. A., and FORREST, H. Testicular heterotopia in a pig. *J. Pathol. Bacteriol.* 95 (2):555-556. Apr. 1968. 448.8 J82
- 83081 MOGI, K., and others. Studies on the hemolytic disease of newborn pigs. IV. Distribution of blood group antibodies in the serum of pig, and analysis of the cause of antibody production. (Ja) *Jap. J. Zootech. Sci.* 39(4):175-179. Apr. 1968. 49 N62  
T. Oishi, T. Abe, K. Himeno, and T. Hosoda, joint authors.  
English summary.
- 83082 MONCOL, D. J. The swine threadworm. *Merck Agr. Memo* 41:3-4. Spring 1968. 41.8 M53  
*Strongyloides ransomi*.
- 83083 MORAN, B. L., and KOSIK, C. V. Poisoning of swine by Wedelia [i.e. Allionia] glauca (Ortega). (Sp) *Asoc. Argent. Criadores Cerdos. Rev.* 47(545):27, 29-31. Jan. 1968. 46.9 As5
- 83084 MORTIMER, D. T. Scours in piglets; observations on the control of neonatal *Escherichia coli* scours in piglets with sodium aminarsonate. *Vet. Rec.* 82(19):539-540. May 11, 1968. 41.8 V641
- 83085 MUCCIOLO, P., GISSONI, R. H., and SPITZ, W. B. Brain inspection for pork cysticercosis diagnosis. 3. (Sp) *Ofic. Sanit. Panamer. Bol.* 64(3):219-223. Ref. Mar. 1968. 449.9 P192B  
English summary.
- 83086 NESOVSKI, P., and ILKOVSKI, R. Some correlations between the morphologic characteristics of the thigh and quantities of meat in swine. (Se) *Veterinaria [Sarajevo]* 16(4):453-462. 1967. 41.8 V6494  
English summary.
- 83087 NEUMANN, H. J., HYPÄ, R., and VIETZKE, G. Distribution of swine diseases in Schleswig-Holstein (Statistics 1950-1966). (Ge) *Tierärztl. Umsch.* 23(5):212, 215-218. Ref. May 1, 1968. 41.8 T445
- 83088 NORRISH, J. G., and BURGESS, T. D. Estrus control in swine through management and by the oral administration of megestrol acetate. *Can. Vet. J.* 9(5):116-119. Ref. May 1968. 41.8 R3224
- 83089 O'BRIEN, J. D. P. Salt poisoning in pigs; deaths on a normal diet. *Vet. Rec.* 82(20):570-571. May 18, 1968. 41.8 V641
- 83090 OSBORNE, J. C., and DAVIS, J. W. Increased susceptibility to bacterial endotoxin of pigs with iron-deficiency anemia. *Amer. Vet. Med. Ass. J.* 152(11):1630-1632. Ref. June 1, 1968. 41.8 Am3
- 83091 PERELLO OLIVELLA, B. Practical aspects of the application of iron dextran. (Sp) *Notic. Neosan* 145:69-83. Mar./Apr. 1968. 41.8 N84  
Treatment of anemia of piglets.
- 83092 PLISEK, K. The collection of blood from veins of swine. (Cz) *Veterinarstvi* 18(5):223-224. 1968. 41.8 V6439
- 83093 POPOVIC, M., and others. *Escherichia coli* gastroenteritis in weaned piglets and attempts at the application of immunoprophylaxis. (Se) *Vet. Glas.* 22(1):17-21. Jan. 1968. 41.8 J93  
S. Zakula, N. Nikolin, and M. Ercegan, joint authors.  
English summary.
- 83094 POPOVIC, M., and ZAKULA, S. The role and importance of mold in the occurrence of alimentary intoxications in swine. I. Experimental toxication of piglets with mold feed. (Se) *Vet. Glas.* 12(2):111-117. Ref. 1968. 41.8 J93  
English summary.
- 83095 POPOVIC, M., and ZAKULA, S. Study of susceptibility to antibiotics of microorganisms isolated from intestinal tract of swine perished from enteritis. (Se) *Vet. Glas.* 21(1):73-78. Ref. 1967. 41.8 J93  
English summary.
- 83096 PRITULIN, P. I., and KARELIN, A. I. The role of *Pasteurella* and *Bordetella* organisms in etiology of infectious atrophic rhinitis of swine. (Rus) *Veterinariya* 12:29-31. Dec. 1967. 41.8 V6423
- 83097 PUFE, M., and SEIDEL, H. Investigations into the behavior of sodium, potassium, calcium, magnesium, and phosphorus concentrations in serum with particular reference to the relationships between the calcium-serum level and the electrical systole of clinically healthy sows before, during, and after birth. (Ge) *Arch. Exp. Veterinarmed.* 21(5):1225-1234. Ref. 1967. 41.8 Ex7  
English summary.
- 83098 RADEKE, U. Electron microscopical examinations of the livers of healthy and swine fever affected pigs with particular reference to nuclear inclusion bodies. (Ge) *Arch. Exp. Veterinarmed.* 21(5):1155-1182. Ref. 1967. 41.8 Ex7  
English summary.

- 83099 RATHMACHER, R. P., and ANDERSON, L. L. Blood flow and progesterone levels in the ovary of cycling and pregnant pigs. *Amer. J. Physiol.* 214(5):1014-1018. Ref. May 1968. 447.8 Am3
- 83100 RISTIC, M. Transmissible gastroenteritis of swine; a pig-origin purified virus vaccine helps to control this serious malady of baby pigs. *Ill. Res.* 10(2):12-13. Spring 1968. 100 IL64
- 83101 ROCKBORN, G., and HYLLSETH, B. The second outbreak of pseudorabies in Sweden. *Nord. Vet. Med.* 20(4):193-196. Ref. Apr. 1968. 41.8 N813 Swine.
- 83102 ROESEL, O. F., and NEHER, G. M. Experimental hypopituitarism in swine: Observations on clinical signs, growth, and weights of organs. *Amer. J. Vet. Res.* 29(6):1221-1227. Ref. June 1968. 41.8 Am3A
- 83103 SABEC, D. Separation of tuber ischiadicum (apophysiolysis) in swine. (Se) *Vet. Glas.* 21(4):361-364. Ref. 1967. 41.8 J93 English summary.
- 83104 SCHEER, M., and others. The importance of Mycoplasma in pigs. II. Attempts at transmission by means of a Swedish Mycoplasma strain ("SEP-Agents") to experimental piglets. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 80(21):408-410. Nov. 1, 1967. 41.8 B45 J. Hartwich, J. Von Sandersleben, and A. Hahndorf, joint authors. English summary.
- 83105 SCHULKE, B., and TEGELER, G. On the elimination of free (nonconjugate) corticosteroids in the urine of pigs. (Ge) *Arch. Exp. Veterinarmed.* 21(5):1253-1256. 1967. 41.8 Ex7 English summary.
- 83106 SCHULZE, P. Electron-microscopical examinations of eosinophil and neutrophil leucocytes in the lymph nodes of pigs. (Ge) *Arch. Exp. Veterinarmed.* 21(5):1305-1317. Ref. 1967. 41.8 Ex7 English summary.
- 83107 SHORT, R. E., and others. Effect of exogenous progesterone and unilateral ovariectomy on ovarian and pituitary gland activity. *J. Anim. Sci.* 27(3):705-708. Ref. May 1968. 49 J82 J. B. Peters, N. L. First, and L. E. Casida, joint authors. Trials with gilts.
- 83108 SHORT, R. E., and others. Effect of unilateral ovariectomy at three stages of the estrous cycle on the activity of the remaining ovary and pituitary gland. *J. Anim. Sci.* 27(3):691-696. Ref. May 1968. 49 J82 J. B. Peters, N. L. First, and L. E. Casida, joint authors. Trials with gilts.
- 83109 SKACHKOVA, M. I. Veterinary medicine in control of swine diseases. (Rus) *Svinovodstvo* 11:20-22. Nov. 1967. 46.8 Sv33
- 83110 SNOWDON, W. A., and FRENCH, E. L. The bovine mucosal disease-swine fever virus complex in pigs. *Australian Vet. J.* 44(4):179-184. Ref. Apr. 1968. 41.8 Au72
- 83111 SOVLJANSKI, B., and MILOSAVLJEVIC, S. The effect of age of gilts at the first parturition on the number and weight of alive and the percentage of stillborn baby pigs. (Se) *Vet. Glas.* 22(5):469-474. Ref. 1968. 41.8 J93 English summary.
- 83112 STAUN, H. Should we continue to castrate barrows? (Da) *Landbonyt* 22(4):155-159. Apr. 1968. 11 L2322 Chiefly effects on slaughter quality.
- 83113 STEINHARDT, M., and others. Blood volume changes in domestic pigs in case of exogenous hyperthermia. (Ge) *Arch. Exp. Veterinarmed.* 21(5):1257-1265. Ref. 1967. 41.8 Ex7 T. Studzinski, L. Lyhs, and R. Glowatzki, joint authors. English summary.
- 83114 STRAFUSS, A. C., and others. Cutaneous melanoma in miniature swine. *Lab. Anim. Care* 18(2,pt.1):165-169. Apr. 1968. 410.9 P94 A. R. Dommert, M. E. Tumbleson, and C. C. Middleton, joint authors.
- 83115 SUVAKOV, D. Prolapsus uteri in sows after cesarean section. (Se) *Veterinaria [Sarajevo]* 16(4):555-556. 1967. 41.8 V6494 English summary.
- 83116 TADIC, M., and others. Modern aspects of the study of diseases of locomotive apparatus of swine. (Se) *Vet. Glas.* 22(5):483-486. Ref. 1968. 41.8 J93 Z. Gligorijevic, B. Misic, B. Draganovic, and B. Petrovic, joint authors. English summary.
- 83117 TAMAS, L., RATZ, F., and SZAILER, E. Intraosseal infusion in pigs and calves. (Hu) *Magyar Allatrov. Lapja* 23(1):29-31. Ref. Jan. 1968. 41.8 V644 English summary.
- 83118 TASSELLI, E., TASSI, P., and PEZZA, F. African swine fever in the Province of Siena. (It) *Zooprofilassi* 22(11/12):461-472. Nov./Dec. 1967. 31.8 Z72 English summary, p. 551.
- 83119 TEGELER, G., and SCHULKE, B. On the occurrence of C<sub>21</sub> steroids in hog urine. (Ge) *Arch. Exp. Veterinarmed.* 21(3):777-788. Ref. 1967. 41.8 Ex7 English summary.
- 83120 TILLSON, S. A., and ERB, R. E. Progesterone concentration in peripheral blood plasma of the domestic sow prior to and during early pregnancy. *J. Anim. Sci.* 26(6):1366-1368. Nov. 1967. 49 J82
- 83121 TITOLI, F. Fluorescent antibodies in the diagnosis of swine pest. (It) *Nuova Vet.* 44(1):44-53. Ref. Jan./Feb. 1968. 41.8 N922
- 83122 TOLONE, V., and others. Notes on the use of fluorescent antibodies in the diagnosis of hog cholera. *Vet. Ital.* 18(11/12):634-646. Nov./Dec. 1967. 41.8 C87 E. Di Antonio, F. Titoli, L. Gialletti, and F. L. Castro Portugal, joint authors. Italian text, p. 619-633.
- 83123 TOWLERTON, R. G. Oral ferrous fumarate in the prevention of piglet anemia. *Vet. Rec.* 82(17):497-498. Apr. 27, 1968. 41.8 V641
- 83124 TRUIJEN, W. T. Some zootechnical aspects of enzootic pneumonia in swine. (Du) *Tijdschr. Diergeneesk.* 93(9):564-572. May 1, 1968. 41.8 T431 English summary.
- 83125 ULBRICH, F., and SCHEER, M. Mycoplasma in pigs and its pathogenous importance. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 81(7):121-124. Ref. Apr. 1, 1968. 41.8 B45 English summary.
- 83126 USBORNE, W. R., KEMP, J. D., and MOODY, W. G. Effect of liveweight on quality, proximate composition, certain protein components and free amino acids of porcine muscle. *J. Anim. Sci.* 27(3):584-589. Ref. May 1968. 49 J82
- 83127 VAIMAN, M., and others. Hematological data of the pig used in radiobiology; blood cytology. (Fr) *Rev. Med. Vet. [Toulouse]* 31(2):129-138. Ref. Feb. 1968. 41.8 R32 R. Dubiez, X. Colson, and P. Nizza, joint authors. English summary.
- 83128 VEZNIK, Z. Histological diagnosis of the early pregnancy in swine by means of vaginal biopsy. (Cz) *Veterinarstvi* 18(4):170-173. 1968. 41.8 V6439
- 83129 VITOVEC, J. On the problem of leukoses (hemoblastoses) of the reticular order in animals for slaughter. (Cz) *Czech. Min. Zemedel. Lesního Hospodar. Ustav Vedeckotech. Inform. Vet. Med.* 41(2):91-96. Ref. Feb. 1968. 41.9 C333 English summary. Cases of reticulosis in swine and cattle and cases of retiotheliosarcoma in swine.



- 83130 VOHRADSKY, F. Causes of the death of pigs during transport and after placing in pens in the Prague slaughterhouses. (Ge) Fleischwirtschaft 48(3):308-311. Mar.1968. 208.38 F62  
English summary.
- 83131 VRCHLABSKY, J. The losses in live weight, tissue shrinkage and carcass yields of swine for slaughtering caused by transportation. (Cz) Czech. Min. Zemed. Les. Hospodar. Ustav Vedeckotech. Inform. Zivocisna Vyroba 41(1):39-48. Jan.1968. 49.9 C33  
English summary.
- 83132 WIKERHAUSER, T., and ZUKOVIC, M. On the effect of roentgen radiation upon the development and immunogenic properties of the infective larvae of pig lungworms. Vet. Arh. 37 (11/12):413-416. 1967. 41.8 V6416
- 83133 WITTIG, W. Investigations into the etiology of the enzootic cardiac arrest of pigs. (Ge) Arch. Exp. Veterinarmed. 21(4):989-1003. Ref. 1967. 41.8 Ex7  
English summary.  
Bacillus subtilis suspected.
- 83134 YAMONTAS, A., KOTSIN, S., and RUDAITIS, V. Installation for continuous supply of samples for test of trichinosis. (Rus) Myasnaya Indus. SSSR. 2:33-34. Feb.1968. 50.8 M58  
While slaughtering swine.
- 83135 ZIKAN, J., BLAZEK, J., and REJNEK, J. A component of the fraction of porcine light chains structurally related to heavy chain Folia Microbiol. 13(2):114-117. Ref. 1968. 448.3 C332  
Antigens.
- 83136 ZUBAK, M. Comparative histological investigations of the small intestine in swine. (Se) Veterinaria [Sarajevo] 16(4):473-478. 1967. 41.8 V6494  
English summary.  
Of several breeds.
- Miscellaneous
- 83137 BILDERBACK, W. The question of sow tie ups continues. Hog Prod. 4(5):3-5. May 1968. 46.8 H675
- 83138 BRITISH VETERINARY ASSOCIATION. TECHNICAL DEVELOPMENT COMMITTEE. The husbandry and diseases of pigs. Ed. 4. London, British Veterinary Association, 1967. 128 p. SF971.B7 1967
- 83139 BUSTAD, L. K., and MCCLELLAN, R. O. Miniature swine: development, and utilization. Lab. Anim. Care 18(2,pt.2):280-287. Ref. Apr. 1968. 410.9 P94
- 83140 DANN, J. Cover over communal nurseries. Pig Farming 16(6):50,51. June 1968. 46.8 P623  
A system of housing sows and baby pigs together.
- 83141 HO-VAN. Hog raising in Quang Oai. Joint Publ. Res. Serv. Transl. N. Vietnam 369:55-59. May 17,1968. (JPRS 45,419) DS557.A7J6  
Translation from Nhan Dan, Apr.7,1968:2.  
Issued by CFSTI.
- 83142 IRELAND.DEPT. OF AGRICULTURE AND FISHERIES. Accredited Pig Herd Scheme; report for year ended 30th September, 1967, vol. 7. Dublin, 1968. 81 p. 46.9 Ir2A
- 83143 MELVILLE, E. L. Thinking of raising pigs on deep litter? Queensland Agr. J. 94(4):212-217. Apr.1968. 23 Q33
- 83144 ORBAN, R. Possibilities for increasing swine meat production. (Hu) Magyar Mezogazdasag 23(4):18-19. Jan.24,1968. 19 M27
- 83145 SCHNEIDER, F. The swine raisers' and breeders' course. (Ge) Grune 96(14):475-481. Apr.5,1968. 17 Sch9  
Includes statistics of swine raising and pork consumption for Switzerland.
- 83146 STANT, E. G., and others. Physical separation and chemical analysis of the porcine carcass at 23, 46, 68 and 91 kilograms liveweight. J. Anim. Sci. 27(3):636-644. Ref. May 1968. 49 J82  
T. G. Martin, M. D. Judge, and R. B. Harrington, joint authors.
- 83147 SVECHIN, YU. K. Response of swine with different constitutional characteristics to environmental raising conditions. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 2:93-97. Feb.1968. 20 V633  
English summary.
- 83148 TERAKAWA, T. Gendai yoton [Modern swine raising]. Tokyo, Nogyo Tosho, 1967. 202 p. SF396.J3T4





## ENGINEERING

References on bee-keeping equipment and malaria control equipment are classified with Entomology; references on forestry equipment with Forestry; references on industrial equipment with Agricultural Products; and references on irrigation equipment and drainage equipment with Soils.

## GENERAL AND MISCELLANEOUS

- 83149 BURAS, N. The Faculty of Agricultural Engineering at the Technion. *Israel Econ.* 24(3):84. Mar.1968. 280.8 Is722
- 83150 CAMPBELL, S. Watch that child. *Agr. Northern Ireland* 42(10):331-332. Feb.1968. 256.13 Ag82M  
Accident prevention.
- 83151 DIANI, G. The making of a hill pond impermeable. (It) *Genio Rurale* 31(1):29-36. Jan.1968. 281.8 R522  
Use of bentonite.
- 83152 DITYATKIN, G. I. Protect livestock installations against fire. (Rus) *Zhivotnovodstvo* 4: 87-88. Apr.1968. 49 Z6
- 83153 FRIDLENDER, B. I. Methods of calculating the most proper road system for agricultural enterprises. (Rus) *Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl.* 128:201-206. 1967. 20 M857
- 83154 NELSON, G. L. Career guidance opportunities in JETS [Junior Engineering Technical Society]. *Agr. Eng.* 49(5):297-298. May 1968. 58.8 Ag83  
Under the Engineer's Council for Professional Development.
- 83155 RIZZO, S. Conferences on rural engineering. (It) *Agricoltura* 17(1):103-112. Jan.1968. 16 Ag8226  
English summary, p.9.
- 83156 ROSSI, M. Again on materials used for the salvage of ponds. (Fr) *Revue de l'Elevage* 23 (3):78,81. Mar.1968. 49 B462
- 83157 RUHNKE, F. On the work of the Chamber of Technic-Management Section of the Agricultural Engineering School [Kammer der Technik-Betriebssection, Ingenieurschule für Landtechnik] "M. I. Kalinin" in Friesack. (Ge) *Deut. Agrartech.* 17(12):541-543. Dec.1967. 58.8 D482

## FARM MACHINES AND EQUIPMENT

- 83158 ALLEN, E. P. Chance to sell tractors, combines, agricultural implements in Pakistan. *Int. Com.* 74(16):11-13. Apr.15,1968. 157.54 F763
- 83159 BAKOS, I. General problems of fruit mechanization. (Hu) *Agrartud. Kozlem.* 27(1/2):115-126. 1968. 19 B855
- 83160 BEAN, K. Modern tools for the small farmer. *Kenya Farmer* 139:32-33. Feb.1968. 24 R812
- 83161 BEMMEL, P. M. VAN. Maintenance of farm machinery. (Du) *Landbouwmecanisatie* 19(1): 33-36. Jan.1968. 58.8 L2352
- 83162 BINDER, M. The development of services in flax production. (Cz) *Uroda* 16(3):110-111. Mar.1968. 64.8 Z12  
Mechanization.
- 83163 BINKERT, K. Machine rings in new form. (Ge) *Mitt. Deut. Landwirt.-Ges.* 83(8):205-206, 208. Feb.22,1968. 18 N39
- 83164 BONDALE, K. V. Mechanised farming is uneconomic. *Gosamvardhana* 16(1):20-21. Apr. 1968. 43.8 G69
- 83165 BORRMANN, K. D. Rational service of machinery. (Ge) *Deut. Agrartech.* 18(4):179-183. Apr.1968. 58.8 D482
- 83166 BRETH, F. E. Automation changes the look of dairy farms in California. (Fr) *Revue de l'Elevage* 23(3):37-38,41,43-44,47-48. Mar. 1968. 49 B462
- 83167 BRZOZOWSKI, Z. Collective use of agricultural machines under conditions of concentration. (Pol) *Wies Wspolczesna, Pismo Ruchu Ludowego* 12(2):112-117. Feb.1968. HN536.W5  
English summary, p.15 of supplement.

- 83168 BULOCHNIKOVA, L. A. Laws for the application of machine technology and their use in agriculture. *U. S. Joint Publ. Res. Serv. Transl. USSR Labor* 236:11-25. Mar.14,1968. (JPRS 44,679) 173 J663Tou  
Translation from *Vestnik Moskovskogo Universita, Seriya VII, Ekonomika*, 1:46-56. Jan./Feb.1968.  
Issued by CFSTI.
- 83169 BUTZ, R. H. First year depreciation on equipment is—something extra. *Livestock Breeder J.* 11(5):12,14. May 1968. 49 L758
- 83170 BUYANOV, A. I. Remarkable results and the inspiring future. (Rus) *Traktory Sel'khoz-mashiny* 11:3-6. Nov.1967. 58.8 T68  
Mechanization in the USSR.
- 83171 BUZENKOV, G. M. All-Union Research Institute of Agricultural Mechanization [Vsesoyuznyi Nauchno-Issledovatel'skii Institut Mekhanizatsii Sel'skogo Khozyaistva]. (Rus) *Mekh. Elek. Sots. Sel. Khoz.* 10:11-13. 1967. 58.8 M46  
Research programs.
- 83172 CATE, H. R. TEN. Weighing equipment in agriculture and horticulture. (Du) *Landbouwmecanisatie* 19(4):377-380. Apr.1968. 58.8 L2352
- 83173 CHAND, P., and GHOSH, D. P. Critical analysis of pressure drop under pneumatic conveyance of solids. *J. Agr. Eng. Res.* 13(1):36-43. Ref. Mar.1968. 58.8 J82
- 83174 CHAND, P., and GHOSH, D. P. Dynamics of particles under pneumatic conveyance. *J. Agr. Eng. Res.* 13(1):27-35. Ref. Mar.1968. 58.8 J82
- 83175 CHEREPANOV, S. S. All-Union Research Technological Institute for Repair and Usage of Machine and Tractor Fleet [Gosudarstvennyi Vsesoyuznyi Nauchno-Issledovatel'skii Tekhnologicheskii Institut Remonta i Eksploatatsii Mashinno-Traktornogo Parka]. (Rus) *Mekh. Elek. Sots. Sel. Khoz.* 10:13-14. 1967. 58.8 M46
- 83176 CHERITA, C. Principal directions regarding the improvement of production and work organization in machine and tractor stations. *U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus.* 628:1-22. Feb.21, 1968. (JPRS 44,467) 173 J663Ste  
In Romania.  
Translation from *Mecanizarea si Electrificarea Agriculturii* 12:3-17. Dec.1967.  
Issued by CFSTI.
- 83177 CHU VIET THANG. Farm tools made in Lang Son Province. *Joint Publ. Res. Serv. Transl. N. Vietnam* 297:15-17. Dec.28,1967. (JPRS 43,844) DS557.A7J6  
Translation from *Nhan Dan*, Nov.18,1967:2. Issued by CFSTI.
- 83178 COWAN, T. E. Changing terrace styles adapt to modern equipment. *Soil Conserv.* 33(11): 248-249. June 1968. 1.6 So3S  
Texas.
- 83179 CRAFTURD, R. Q., and CARPENTER, A. J. Partial mechanisation of rice in Sierra Leone. *World Crops* 20(1):72-77. Mar.1968. 281.8 W892
- 83180 DAVIDEANU, N., and FLOARES, A. Aspects of the reduction of indirect and unproductive costs in machine tractor stations of Iasi and Vaslui areas. (Rum) *Mec. Elec. Agr.* 13(3):12-20. Mar.1968. 58.8 M4623
- 83181 DIMOV, S. Friendship and cooperation are speeding the technical progress. (Rus) *Mekh. Elek. Sots. Sel. Khoz.* 10:31-33. 1967. 58.8 M46  
Mechanization policies and cooperation with USSR in Bulgaria.
- 83182 EISENREICH, L. Dairy equipment for the farm under the microscope of the DLG; 75 years ago, the DLG traveling show was started in Munich. (Ge) *Molk.-Kaserei-Zeitung* 19(20):715-716. May 15,1968. 44.8 M736
- 83183 ENGEL, R. Developments and limits in agricultural mechanization. (Ge) *Landarb. Tech.* 35:279-301. 1968. 18 L2354  
Costs and relation to farm size.

- 83184 ENGELHARDT, H. Supply of agricultural spare parts improves. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 630:1-6. Mar. 4, 1968. (JPRS 44,573) 173 J663Ste  
In East Germany.  
Translation from Deutsche Agrartechnik 18 (2):49-50. Feb. 1968.  
Issued by CFSTI.
- 83185 EZHEVSKII, A. A. Engineering and technical services on the collective and state farms. (Rus) Mekh. Elek. Sots. Sel. Khoz. 10:29-30. 1967. 58.8 M46
- 83186 FATEEV, A. In auls and villages of Kazakhstan. (Rus) Tekh. Sel'skom Khoz. 11:19-24. 1967. 58.8 M11  
Mechanization and electrification.
- 83187 FIORELLI, V. E. Equipment for the South; technical panorama by crops. (It) G. Agr. 78 (17):219. Apr. 28, 1968. 16 It1G
- 83188 FISCHER, K. The mounted loader on tractor. (Ge) Traktor Landmasch. 30(5):274-275. Mar. 2, 1968. 58.8 T678Ag
- 83189 FOLTINEK, H. Mechanization and crop rotation in agriculture. (Ge) Forderungsdienst 16 (1):1-6. Jan. 1968. 19 F75  
Austria.
- 83190 FONFARA, R. Creative cooperation of Polish and Soviet engineers. (Rus) Mekh. Elek. Sots. Sel. Khoz. 10:33-35. 1967. 58.8 M46  
In agricultural mechanization.
- 83191 FRANCIS, C. J. Fitting conservation to today's farming equipment. Soil Conserv. 33(11):243-245. June 1968. 1.6 So3S  
Conservation farming.
- 83192 FUNK, H. The farm equipment marketing before difficult times. (Ge) Landmasch.-Markt 47(7):20,22. Apr. 3, 1968. 58.8 L239
- 83193 GANRY, J. Mechanization and agricultural structure. (Fr) Agriculture [Paris] 31(310):123-124. Apr. 1968. 14 Ag823
- 83194 GERMAISKII, A. Collective mechanization on the large-scale. (Rus) Tekh. Sel'skom Khoz. 11:9-14. 1967. 58.8 M11
- 83195 GOOSSENS, A. Mechanization of vegetable culture. (Fl) Tuinbouwberichten 32(3):112-114. Mar. 1968. 80 T817  
Equipment.
- 83196 GORDEZIANI, G. M., and MAKVELIDZE, V. F. Creation and development of equipment in the tea growing. (Rus) Traktory Sel'khoz-mashiny 11:18-19. Nov. 1967. 58.8 T68
- 83197 GREWAL, T. S. Scope and potentialities of mechanical farming in India. Gosamvardhana 16(1):9-10,13. Apr. 1968. 43.8 G69
- 83198 GRONE, L. Horticultural equipment. (Sw) Jord-Groda-Djur 24:151-171. 1968. 11 J763
- 83199 GRZHIBOVSKII, S. On the Latvian soil. (Rus) Tekh. Sel'skom Khoz. 11:27-29. 1967. 58.8 M11  
Mechanization of agriculture.
- 83200 HAAS, F. Selection and care of good rope. Arborist's News 33(1):1,3-4. Jan. 1968. 99.8 Ar14
- 83201 INTODIA, S. L., and BAPNA, S. L. Mechanisation in stages or partial mechanisation. Gosamvardhana 16(1):21-23. Apr. 1968. 43.8 G69
- 83202 ISKENDEROV, G. A. Methods of lowering costs of cotton growing in the Mugan-Salyany zone. (Rus) Kholpkovodstvo 3:8-9. Mar. 1968. 72.8 K522  
Mechanization.
- 83203 JAMES, C. K. Mechanisation for intensive agriculture. Gosamvardhana 16(1):27. Apr. 1968. 43.8 G69
- 83204 JAPAN, NOCHIKYOKU. Hojo seibi no susume kata [How to develop field equipment]. Tokyo, Chikyu Shuppan, 1967. 299 p. S562.J3A5  
All aspects of mechanized farming.
- 83205 JIANU, E. The influence of increased mechanization on the profitability of state farms. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 628:23-33. Feb. 21, 1968. (JPRS 44,467) 173 J663Ste  
In Romania.  
Translation from Mecanizarea si Electrificarea Agriculturii 12:18-24. Dec. 1967.  
Issued by CFSTI.
- 83206 KALATOZISHVILI, M. G., and TATISHVILI, Z. D. Equipment for the complete mechanization of tea growing. (Rus) Mekh. Elek. Sots. Sel. Khoz. 12:47-50. 1967. 58.8 M46
- 83207 KAMMERLOHR, K. Machine rings in Bavaria. (Ge) Mitt. Deut. Landwirt.-Ges. 83(19):676, 678-679, map. May 9, 1968. 18 N39
- 83208 KHOKHLOV, I. Problems of mechanization in the mountain areas. (Rus) Tekh. Sel'skom Khoz. 11:38-42. 1967. 58.8 M11
- 83209 KILLIAN, A., and others. How materials handling equipment replaces scarce farm labor. Feed Farm Supplier 42(5):18-19. May 1968. 47.8 H28  
C. D. Palmer, R. P. Olson, and J. Sudenga, joint authors.
- 83210 KIM, K. Y. Speedy rural technical revolution urged. Joint Publ. Res. Serv. Transl. N. Korea 80:1-10. Apr. 17, 1968. (JPRS 45,083) DS901.T7  
Mechanization and technology.  
Translation from Nodong Sinmun, Feb. 21, 1968:2-3.  
Issued by CFSTI.
- 83211 KIRTBAYA, YU. K. Development of scientific investigation in the field of equipment and tractor usage. (Rus) Mekh. Elek. Sots. Sel. Khoz. 10:45-52. 1967. 58.8 M46  
Review of the literature.
- 83212 KITCHING, H. W. Cultural practices and environmental conditions affecting machine selection in less-developed areas. Can. Agr. Eng. 10(1):4-7. May 1968. 58.8 C164
- 83213 KOZYREV, N. On the fields of Ukraine. (Rus) Tekh. Sel'skom Khoz. 11:15-19. 1967. 58.8 M11  
Mechanization and electrification.
- 83214 KRAMAROV, V. S. Ukrainian Research Institute of Agricultural Mechanization and Electrification [Ukrainskii Nauchno-Issledovatel'skii Institut Mekhanizatsii i Elektrifikatsii Sel'skogo Khozayaivstva]. (Rus) Mekh. Elek. Sots. Sel. Khoz. 10:14-15. 1967. 58.8 M46
- 83215 KRASNOSHCHIEKOV, N. V. Contribution of constructors of the Siberian Research Institute for Agriculture [Sibirskii Nauchno-Issledovatel'skii Institut Sel'skogo Khozayaivstva] to seed breeders. (Rus) Selekt. Semenovodstvo 2:12-17. Mar./Apr. 1968. 61.9 Se5  
Equipment used in small experimental plots.
- 83216 KUTLEMBETOV, A. A. American made, silage loading equipment for horizontal storage. (Rus) Mekh. Elek. Sots. Sel. Khoz. 12:51-54. 1967. 58.8 M46
- 83217 LACOMBE, R. Twenty years experiences in mechanized viticulture in France. (Hu) Agrartud. Kozlem. 27(1/2):127-136. 1968. 19 B855
- 83218 LAMMEL, K. Results of vegetable mechanization in Hungary. (Hu) Agrartud. Kozlem. 27(1/2):163-168. 1968. 19 B855
- 83219 LEE, L. G. How to sell components to agricultural OEM companies. Foreign Trade 129(9):2-5. Apr. 27, 1968. 286.8 C162  
Equipment manufacturers.
- 83220 LISTOV, P. N. Successful cooperation of science and production. (Rus) Mekh. Elek. Sots. Sel. Khoz. 10:6-10. 1967. 58.8 M46  
Mechanization policies in the USSR.
- 83221 LOVAS, M. Some pros and cons of the present system of agricultural machine commerce. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 651:1-4. May 24, 1968. (JPRS 45,486) 173 J663Ste  
In Hungary.  
Translation from Figyelo, May 1, 1968:8.  
Issued by CFSTI.



- 83222 MAKHOV, I. M., and MOZHAROV, B. P. Flax growing equipment. (Rus) Traktory Sel'khoz-mashiny 11:20-21. Nov.1967. 58.8 T68 Mechanization.
- 83223 MARKVARTDE, V. M. Possibilities of developing hydraulic drive in agricultural equipment. (Rus) Traktory Sel'khoz-mashiny 11:39-42. Nov.1967. 58.8 T68
- 83224 MEL'NIK, S. Progress in farm mechanization during the 50 years of the Soviet power. (Rus) Tekh. Sel'skom Khoz. 11:1-8. 1967. 58.8 M11
- 83225 MESZAROS, I. Experiences with mechanized viticulture in Hungary. (Hu) Agrartud. Kozlem. 27(1/2):137-155. 1968. 19 B855
- 83226 MEYER, F. The Bavarian agricultural equipment industry. (Ge) Mitt. Deut. Landwirt.-Ges. 83(19):682,684. May 9,1968. 18 N39
- 83227 MILLAN PEREZ DE LEON, E. Mechanization in agriculture. (Sp) Panagra 7(88):40-41. Feb. 1968. 8 P196 Mexico.
- 83228 MOSER, D. W. How does one find out the economic usefulness of agricultural equipment? (Ge) Mitt. Deut. Landwirt.-Ges. 83(10):308-310. Mar.7,1968. 18 N39
- 83229 MOUSTAFA, S. M. A., STOUT, B. A., and BRADLEY, W. A. Elastic and inelastic stability of a biological structure. J. Agr. Eng. Res. 13(1):64-82. Mar.1968. 58.8 J82 Wheat plant in relation to equipment design and operation.
- 83230 NAM VAN. Building a material and technical base for agricultural cooperatives. Joint Publ. Res. Serv. Transl. N. Vietnam 280:46-54. Nov.13,1967. DS557.A7J6 Equipment. Translation from Thoi-su Pho-thong 14:1-9. July 1967. Issued by CFSTI.
- 83231 NEW TRENDS and principal machines at the thirty-ninth Salon international de la Machine Agricole, Paris, March, 1968. (Fr) France. Centre Nat. Etud. Exp. Mach. Agr. Bull. Inform. 122:123:69-172. Mar./Apr.1968. 58.9 F843B
- 83232 NGUYEN CHINH. Mai Chau solves problem of farm implements. Joint Publ. Res. Serv. Transl. N. Vietnam 366:65-70. May 16,1968. (JPRS 45,399) DS557.A7J6 Translation from Nhan Dan, Apr.10,1968:2. Issued by CFSTI.
- 83233 NIKOLAEV, G. A. The industry of agricultural equipment in the member countries of the Council for Mutual Economic Assistance. (Rus) Traktory Sel'khoz-mashiny 11:12-15. Nov.1967. 58.8 T68
- 83234 NOVIKOV, K. P. Calculation of costs for the maintenance of equipment. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 5:36. May 1967. 30.69 Uc4
- 83235 OSIPOV, V. Loading aeroplanes, with fertilizers. (Rus) Zemledelie 3:20-24. Mar.1968. 20 Z44
- 83236 OZAKI, S. Some characteristics of the technical reform movement in Communist China. 8 p. Transl. 16540 Includes agricultural mechanization. Translation from Ajia Keizai Jumbo 434:1-8. June 10,1960.
- 83237 PASCOTTO, P. The point on cattle mechanization at the 1961 SIMA [International Salon of Agricultural Equipment, Salon International de la Machine Agricole]. (Fr) Agriculture [Paris] 31(310):129,131,133,135,137-139. Apr.1968. 14 Ag823
- 83238 PAVLOVIC, U. The mechanization of field-crop production in Yugoslavia. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 620:28-38. Jan.22,1968. (JPRS 44,096) 173 J663Ste Translation from Ekonomika Poljoprivrede 12:971-979. Dec.1967. Issued by CFSTI.
- 83239 PEREININGER, M. Complex mechanization—a basis for development of the collective farming. (Rus) Mekh. Elek. Sots. Sel. Khoz. 10:35-37. 1967. 58.8 M46
- 83240 PETERSEN, H. Small tools for the garden. (Da) Haven 68(3):68-69. Mar.1968. 80 H29
- 83241 PETKOV, TS. Mechanization of horticulture in Bulgaria. (Hu) Agrartud. Kozlem. 27(1/2):157-162. 1968. 19 B855
- 83242 RAZUMOV, G., and TYURIN, S. Mechanization increases yields. (Rus) Kartofel' Ovoshchi 3:3-4. Mar.1968. 75.8 K147 Potatoes.
- 83243 RICCI, C. Mechanization of the farm center. (It) Genio Rurale 31(2):111-126. Feb.1968. 281.8 R522
- 83244 ROOSMALEN, H. G. A. VAN. Mechanization in Brabant. (Du) Groenten Fruit 23(26):1191. Jan.10,1968. 80 G89
- 83245 SAGI, R. A milk production system. Israel Econ. 24(3):81-82. Mar.1968. 280.8 Is722 Farm equipment in Israel.
- 83246 SCHMIDT, N. E. Machinery and equipment; "keep it clean." Farm Technol. 24(4):23,34. Summer 1968. 275.28 N213
- 83247 SCHRODER, E. The tasks of engineers in farm installation construction. (Ge) Deut. Agrartech. 17(2):543-545. Dec.1967. 58.8 D482 Livestock mechanization, chiefly.
- 83248 SCHUTZE, H. Planning of preventive maintenance work. I. (Ge) Deut. Agrartech. 17(2):581-583. Dec.1967. 58.8 D482
- 83249 SELIVANOV, A. Development of the repair in agriculture. (Rus) Tekh. Sel'skom Khoz. 11:76-83. 1967. 58.8 M11 Equipment.
- 83250 SERDECHNYI, A. N., and GRINCHUK, I. M. Operational regime and constructional parameters of the rotary silage loading equipment. (Rus) Mekh. Elek. Sots. Sel. Khoz. 2:17-19. 1968. 58.8 M46
- 83251 SHIFRIN, M. Prosperity in Tadzhikistan. (Rus) Tekh. Sel'skom Khoz. 11:25-26. 1967. 58.8 M11 As result of the mechanization.
- 83252 SIDEL'NIKOV, M. S. New equipment in 1938. (Rus) Trakt. Sel'khoz-mash. 2:1-3. Feb.1968. 58.8 T68 Policies.
- 83253 SIDEL'NIKOV, M. S. Role of the branch institutes in the technical progress. (Rus) Traktory Sel'khoz-mashiny 11:1-3. Nov.1967. 58.8 T68 Policies and research programs in mechanization.
- 83254 SINGH, S. Improved agricultural machinery for increased production. Gosamvardhana 16(1):15-17. Apr.1968. 43.8 G69
- 83255 SINITSYN, I. F. More equipment for state and collective farms. (Rus) Mekh. Elek. Sots. Sel. Khoz. 10:23-24. 1967. 58.8 M46 Mechanization policies.
- 83256 SMOLYANINOV, V. I. Mechanized accounting of work performed by machine and tractor fleets. (Rus) Uchet. Finansy Kolkhoz. Sovkhoz. 3:11-13. 1968. 30.69 Uc4 On the farms.
- 83257 SOUCEK, Z. The rational development of new agricultural machines. (Cz) Czech. Min. Zemedel. Les. Hospodar. Ustav Vedeckotech. Inform. Zemedel. Tech. 40(12):711-720. Dec. 1967. 58.9 C333 English summary.
- 83258 SPARROW, T. D. The mechanisation of agricultural production in Scotland. Scot. Dep. Agr. Fish. Scot. Agr. Econ. 18:140-145. 1968. 281.9 Sco3S
- 83259 STEVENS, G. N. Handling groundnuts with an auger conveyor. J. Agr. Eng. Res. 13(1):44-48. Mar.1968. 58.8 J82
- 83260 STOPALOV, S. G., and KORMAKOV, L. F. Determining losses caused by idling of agricultural equipment. (Rus) Mekh. Elek. Sots. Sel. Khoz. 12:10-11. 1967. 58.8 M46
- 83261 STRICKLER, P. E., and SMITH, H. V. Farm machinery and equipment; number and value of shipments for domestic use 1935-39 to 1966. U. S. D. A. Statist. Bull. 419,26 p. Mar.1968. 1 Ag84St

- 83262 SYMPOSIUM ON MECHANICAL FARMING VS. BULLOCK FARMING. [Papers.]. Gosamvardhana 16(1), 32 p. Apr. 1968. 43.8 G69
- 83263 TENENBAUM, M. M. Selection of durable materials for parts of agricultural equipment. (Rus) Traktory Sel'khoz mashiny 12:29-32. Dec. 1967. 58.8 T68
- 83264 THURM, R. The development of agricultural production methods. (Ge) Deut. Agrartech. 18 (4):149-151. Apr. 1968. 58.8 D482  
Mechanization.
- 83265 TOMA, D. Contribution of research to the production in the sector of mechanization of agriculture. (Rum) Mec. Elec. Agr. 13(3):3-11. Mar. 1968. 58.8 M4623
- 83266 TOMER, P. S. Both sides of the coin. Gosamvardhana 16(1):12-13. Apr. 1968. 43.8 G69  
Farm mechanization in India.
- 83267 VIGNIER, D. The mechanization of forage beet culture in Mayenne. (Fr) France. Centre Nat. Etud. Exp. Mach. Agr. Bull. Inform. 122/123:33-52. Ref. Mar./Apr. 1968. 58.9 F843B
- 83268 WASYLKOWSKI, J. Import and export of farm machinery. U. S. Joint Publ. Res. Serv. Transl. East Europe. Foreign Trade 377:9-15. Dec. 21, 1967. (JPRS 43,784) 173 J663Tree  
Poland.  
Translation from Zycie Gospodarcze 48:8. Nov. 1967.  
Issued by CFSTI.
- 83269 WEPFER, K. Feed gathering on sloping lands. (Ge) Grune 96(5):137-145. Feb. 2, 1968. 17 Sch9  
Loading and transportation equipment in Switzerland.
- 83270 WEST, W. J. Developments in farm machinery and farm mechanisation. Roy. Highland Agr. Soc. Scot. Trans. 9:1-14. 1968. 10 H536
- 83271 WILKE, E. Kosten senken durch uberbetrieblichen Einsatz von Maschinen [Cost lowering through inter-farm use of machines]. Germany. Land- Hauswirtsch. Auswertungs- Informationsdienst [Veroffentlichungen] 260, 15 p. 1967. 18 G312V
- 83272 WRIGHT, H. Safety in machinery operation. Ontario. Dep. Agr. Publ. 220, 8 p. Mar. 1968. 7 On8P
- 83273 YANBUKHTIN, G. I. Mechanization and the effectiveness of flax growing. (Rus) Len Konoptya 3:17-18. 1968. 73.8 L542  
Effect on costs and returns of flax.
- 83274 YARDENI, D. Agricultural machinery & equipment—the export challenge. Israel Econ. 24(3):69-70. Mar. 1968. 280.8 Is722
- Animal Husbandry Equipment
- 83275 BENDULL, K. Early test results of mechanized feeding of calves. (Ge) Deut. Agrartech. 17(2):554-557. Dec. 1967. 58.8 D482
- 83276 CLEGG, L. F. L., and BACIC, B. A comparison of different methods of chemical disinfection of farm dairy utensils. Soc. Dairy Technol. J. 21(2):72-77. Apr. 1968. 44.8 So12  
Milking machines.
- 83277 COUSINS, C. M., CLOUGH, P. A., and THIEL, C. C. A comparison of cold nitric acid and sodium hypochlorite for the disinfection of pipeline milking machines. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:441-444. 1966. SF223.15 1966 v.5
- 83278 COUSINS, C. M., CLOUGH, P. A., and THIEL, C. C. The effect of synthetic rubber and natural rubber components on the bacteriological condition of pipeline milking machines. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:437-440. 1966. SF223.15 1966 v.5
- 83279 FELL, L. R. A further look at modern milking machines. New Zeal. J. Agr. 116(5):20-23. May 1968. 23 N48J
- 83280 FINN, H. Equipment and buildings in the poultry industry. Israel Econ. 24(3):77-78. Mar. 1968. 280.8 Is722
- 83281 FUNKE, H. Directions for the construction, mounting and control of machine milking systems. (Sw) Svensk Veterinartidn. 20(7):215. Apr. 1968. 41.9 Sv23
- 83282 GEL'SHTEIN, Z. The system of electromagnetic pulsators in milking apparatus. (Rus) Tekh. Sel'skom Khoz. 11:56-59. 1967. 58.8 M11  
Refers to pipeline.
- 83283 GLERUM, J. C., and BOSMA, A. H. Hay storage and mechanization of feeding in Germany. (Du) Landbouwmechanisatie 19(4):367-373. Apr. 1968. 58.8 L2352  
Dairy cattle.
- 83284 KERKHOF, J. A. Automatic equipment for the cleaning of milk tanks at "The Agricultural Equipment Show." (Du) Landbouwmechanisatie 19(4):391-393. Apr. 1968. 58.8 L2352
- 83285 KOSTYUKOV, P., and RIMAREV, V. Pumping skim milk into calf house. (Rus) Tekh. Sel'skom Khoz. 11:59-50. 1967. 58.8 M11
- 83286 MCDONALD, J. S., and WITZEL, D. A. Vacuum fluctuation at the teat end during mechanical milking. J. Dairy Sci. 51(4):543-548. Apr. 1968. 44.8 J822
- 83287 PHELPS, A. Watering system reduces feed waste in cages. Poultry Internat. 7(3):28-30, 32. Mar. 1968. 47.8 P8698
- 83288 PICKHAVER, G. S. Checking the efficiency of milking. S. Australia J. Agr. 71(9):319-323. Apr. 1968. 23 So84  
Milking machine operation.
- 83289 POELMA, H. R. Dosage of concentrated fodder in a milking parlour. (Du) Landbouwmechanisatie 19(3):225-228. Mar. 1968. 58.8 L2352  
English summary.  
Feeding equipment.
- 83290 RICHARD, J., and AUCLAIR, J. Problems arising from cleaning and sanitizing teat-cup liners. (Fr) Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:445-451. 1966. SF223.15 1966 v.5  
English summary, p.873.
- 83291 RYAN, D. M. Feed bunks for automatic conveyors. Minn. Univ. Ext. M-142, rev., 4 p. Apr. 1968. 275.29 M66Ps  
Cattle.
- 83292 SEMERNIN, A. Double-sided feeder for cattle. (Rus) Tekh. Sel'skom Khoz. 11:53-55. 1967. 58.8 M11
- 83293 STEFFEN, R. Horse equipment of the middle ages. West. Horseman 33(6):30-32, 116-117. June 1968. 42.8 W522
- 83294 TSVETANOV, TS. I. Economic effectiveness of mechanization of milking processes in cattle farms. (Bu) Ikonomicheska Mis'l 12(9):30-40. 1967. 280.8 Ik7  
French summary, p.120.
- 83295 WASMUND, S. Supplying of feed to laying hens in batteries. (Ge) Landarbeit 19(3):19-21. Mar. 1968. 18 L2355  
Equipment.
- 83296 WEHowsKY, G., and KOHLSCHMIDT, D. Milking properties of neoprene teat rubber. (Ge) Deut. Agrartech. 17(2):563-565. Dec. 1967. 58.8 D482
- Cultivation and Tillage Equipment
- 83297 ALF, W. Development of the modern plow. (Ge) Mitt. Deut. Landwirt.-Ges. 83(7):168-171. Feb. 15, 1968. 18 N39
- 83298 BATHE, R. D. Bolivia: Arable farming with wooden plow, hoe, and mattock. (Ge) Mitt. Deut. Landwirt.-Ges. 83(8):230, 232-233. Feb. 22, 1968. 18 N39
- 83299 BOER, J. Influence of the plow on the skidding of the tractor. (Ge) Landbouwmechanisatie 19(2):183-184. Feb. 1968. 58.8 L2352
- 83300 BRIA, N., and others. Mechanization of tillage and planting operations in the culture of sugar beets. (Rum) Mec. Elec. Agr. 13(3):40-50. Mar. 1968. 58.8 M4623  
J. Buzatu, F. Moteanu, T. Popescu, and I. Popovici, joint authors.
- 83301 CALDERINI, G. Equipment carriers on gliders. (It) Genio Rurale 31(3):223-226. Mar. 1968. 281.8 R522  
Tillage equipment.



- 83302 CHIRKOV, P. F. The study of anisotropy of soils and solidity of their structural particles to choose the optimal form of a blade. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 1:49-54. Ref. 1968. 20 V633  
English summary.  
On cultivators.
- 83303 DOGANOVSKII, M. G., and VAINRUB, V. I. Universal plow structure with exchangeable moldboard. (Rus) Mekh. Elek. Sots. Sel. Khoz. 2:12-14. 1968. 58.8 M46
- 83304 DVORTSOV, E. F. Setting up cotton cultivators. (Rus) Khlopkovodstvo 4:24-28. Apr. 1968. 72.8 K522
- 83305 GALL, H., BOHMIG, H. J., and DINGLER, O. Row width and working width in potato culture. (Ge) Feldwirtschaft 9(4):171-173. Apr. 1968. 18 W763  
For use of equipment.
- 83306 GIL'SHTEIN, P. M., and BLOSHTEIN, E. V. Chassis with extensible chisels, used for plowing of the rock soils. (Rus) Traktory Sel'khoz-mashiny 11:36. Nov. 1967. 58.8 T68
- 83307 HARTMANS, D. Power driven harrows. (Du) Landbouwmecanisaatie 19(1):41-47. Jan. 1968. 58.8 L2352  
English summary.
- 83308 HOTH, E. Calculation of the tractive power required for tractor plows. (Ge) Deut. Agrar- tech. 18(4):172-175. Ref. Apr. 1968. 58.8 D482
- 83309 LISYUTIN, V. P. Directing traction of the disk type cultivator working parts. (Rus) Trakt. Sel'khoz mash. 2:25-26. Feb. 1968. 58.8 T68
- 83310 LORDKIPANIDZE, T. G. Testing chain-type tea trimming equipment. (Rus) Traktory Sel'khoz mashiny 12:26-27. Dec. 1967. 58.8 T68
- 83311 MILKE, S. Experiences of the Schenkenberg cooperation community in comprehensive effort in spring tillage. (Ge) Feldwirtschaft 9(3):104-105. Mar. 1968. 18 W763  
Equipment and labor in field work.
- 83312 MIRZOV, I. M. Technological indicators of attached two and three-staged plow, operated at the increased speeds. (Rus) Mekh. Elek. Sots. Sel. Khoz. 2:10-12. 1968. 58.8 M46
- 83313 ORLOVSKII, I. F. The influence of the type of moldboard, angles  $\epsilon$  and  $\gamma$  and speed on the quality of plowing. 3 p. Transl. 16773  
Translation from Mekhanizatsiya i Elektrifikatsiya Sotsialisticheskogo Sel'skogo Khozyaistva 3:22-23. 1967.
- 83314 OSADCHIL, A. P. Loosening soil below the plow layer. 3 p. Transl. 16772  
Operation of plow.  
Translation from Zemledelie 8:30-32. 1966.
- 83315 PETE, J. On what angle shall we install the end supports. (Hu) Kertesz. Szolesz. 17(2):40-41. Jan. 1968. 80 K474  
Stakes for grapes.
- 83316 RABINOVICH, A. SH., and KHRAMTSOV, L. D. Increased period of service of chisel pointed self-sharpening plow shares, surfaced with "Sormite 1." 4 p. Transl. 16767  
Translation from Traktory i Sel'khoz mashiny 4:41-42. 1967.
- 83317 SCHAFER, R. L., and PRATHER, O. C. Track and hold for electronic zeroing. (Condensed.) Agr. Eng. 49(5):292-293. May 1968. 58.8 Ag83  
To obtain penetrometer measurements for tillage equipment.
- 83318 SCHERER, F. New clamps for fastening twine in a wire trellis; foreign and domestic patent applied for. (Ge) Schweiz. Z. Obst- Weinbau 104(7):160-162. Mar. 16, 1968. 80 Sch9  
For grapes and climbing plants.
- 83319 SIEG, R. The relation between adjustable hydraulic and plow. (Ge) Traktor Landmasch. 30(5):257-262. Mar. 2, 1968. 58.8 T63Ag
- 83320 STARODINSKII, D. Z. Method of reducing the energy requirements of rotary tilling soil machines. 6 p. Transl. 16769  
Translation from Traktory i Sel'khoz mashiny 4:32-34. 1967.
- 83321 SURIKOV, V. V. Cutting ground with thin cutters. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 3:120-126. Mar. 1968. 20 V633  
English summary.  
Reclamation equipment.
- 83322 VOGT, C. Broader or faster in soil tillage? (Ge) Mitt. Deut. Landwirt.-Ges. 83(7):165-166. 168. Feb. 15, 1968. 18 N39  
Tillage equipment.
- Fertilizing and Planting Equipment
- 83323 ABRAMOV, L. M., LEVITIN, M. A., and SHOKUROV, YU. S. Plastic hoses on fertilizer application equipment. (Rus) Traktory Sel'khoz mashiny 11:46. Nov. 1967. 58.8 T68
- 83324 BELYAVSKAYA, N. Mechanized planting of seed onions. (Rus) Kartofel' Ovoshchi 2:25-26. Feb. 1968. 75.8 K147
- 83325 BENGTSOON, G. Spreading-figure and working-breadth of spinner distributors. (Sw) Vaxt-Naring-Vytt 1:9-11. 1968. 57.8 V47  
English summary, p. 2-3.  
Fertilizer application.
- 83326 BOTHE, W. DLG-certified machines and tools for the cultivation of grain, corn, sugar beets, and potatoes. (Ge) Mitt. Deut. Landwirt.-Ges. 83(16):554,556,558-561. Apr. 18, 1968. 18 N39  
Chiefly planting and fertilizing equipment; includes labor requirements.
- 83327 BOUMA, J. Injection of liquid ammonia. (Du) Landbouwmecanisaatie 19(3):215-220. Mar. 1968. 58.8 L2352  
English summary.  
Equipment.
- 83328 BUITINK, W. J. Technical data of automatic potato planters. (Du) Landbouwmecanisaatie 19(3):245-249. Mar. 1968. 58.8 L2352  
English summary.
- 83329 BUZEA, I., and SPITZER, M. Study of machines for the application of ammonia liquor fertilizers. (Rum) Mec. Elec. Agr. 13(2):37-47. Feb. 1968. 58.8 M4623
- 83330 BUZENKOV, G. M., and REKUBRATSKII, G. M. Trends and constructional characteristics of grain planters in the foreign countries. (Rus) Mekh. Elek. Sots. Sel. Khoz. 2:51-55. 1968. 58.8 M46
- 83331 DOGANOVSKII, M. G., and KOZLOVSKII, E. V. Mekhanizatsiya vneseniya udobrenii [Mechanized application of fertilizers]. Kolos, Leningrad, 1967. 239 p. S683.D6
- 83332 FRIESSLEBEN, G., and LINDNER, K. Better potato planting with pallets and container attachments. (Ge) Feldwirtschaft 9(4):173-175. Apr. 1968. 18 T763
- 83333 GENZMER, W. The centrifugal fertilizer distributor. (Ge) Mitt. Deut. Landwirt.-Ges. 83(14):466,468. Apr. 4, 1968. 18 N39
- 83334 HENZE, R. A word about a lime spreader chain. (Ge) Kartoffelbau 19(1):8. Jan. 1968. 75.8 K145  
Silos for storage, weighing, and direct delivery to trucks for spreading.
- 83335 JARVIS, R. H. Planting seed potatoes by machine. Great Brit. Min. Agr. Fish. Food. Agr. 75(3):131-133. Mar. 1968. 10 G79J
- 83336 KOUWENHOVEN, J. K. Application of shovels for loose soil during planting of potatoes. (Du) Landbouwmecanisaatie 19(3):275-281. Mar. 1968. 58.8 L2352  
English summary.
- 83337 KULESHOV, I. Universal seed distributor. (Rus) Kartofel' Ovoshchi 2:25-26. Feb. 1968. 75.8 K147  
Vegetable planting equipment.
- 83338 LELLEY, J., and PARADI, L. New machines for wheat breeding. (Hu) Magyar Mezogazdasag 23(52):9. Dec. 27, 1967. 19 M27  
Chiefly planting equipment.
- 83339 LIBERMAN, K. E., and VARLAMOV, G. P. Some constructional characteristics of fertilizer distributors in the USA. (Rus) Traktory Sel'khoz mashiny 12:42-44. Dec. 1967. 58.8 T68

- 83340 MATHES, A. Fertilizer spreader today! (Ge) Mitt. Deut. Landwirt.-Ges. 83(7):174,176,178. Feb.15,1968. 18 N39
- 83341 MOSIN, M. A., and others. Mechanization on the experiment plots. (Rus) Selekt. Semenovodstvo 2:17-19. Mar./Apr.1968. 61.9 Se5  
A. I. Zamotaev, O. G. Khilkova, and B. O. Kuz'min, joint authors.  
Potato planting equipment.
- 83342 MOTEANU, F. Attachment equipment for modeling soil. (Rum) Mec. Elec. Agr. 13(2):7-13. Feb.1968. 58.8 M4623  
Chiefly seed planting equipment.
- 83343 OELLRING, J. How much of a future does seed drilling have? (Ge) Mitt. Deut. Landwirt.-Ges. 83(7):178-180. Feb.15,1968. 18 N39
- 83344 RYADNYKH, V. V. Mineral fertilizer distributor, rotary type. (Rus) Traktory Sel'khoz-mashiny 12:33-35. Dec.1967. 58.8 T68
- 83345 SASSE, H. What should one expect of a barn manure spreader? (Ge) Mitt. Deut. Landwirt.-Ges. 83(7):180,182-184. Feb.15,1968. 18 N39
- 83346 SENDRYAKOV, I. F. Mechanized transportation and distribution of mineral fertilizers. (Rus) Khim. Sel'skom Khoz. 6(3):66-69. Mar. 1968. 385 K524
- 83347 SEVERNEV, M., DUBOV, A., and NAZAROV, S. Progress in mechanized preparation and application of manure. (Rus) Tekh. Sel'skom Khoz. 11:42-46. 1967. 58.8 M11
- 83348 SEVERNEV, M. M., and PODLEKAREV, N. N. Deterioration of polymers and steel, caused by mineral fertilizers. (Rus) Trakt. Sel'khoz-mash. 2:34-36. Feb.1968. 58.8 T68  
Fertilizer application equipment.
- 83349 SHAROV, N. M. Electronic instrument for control of seed sowing equipment. (Rus) Trakt. Sel'khoz-mash. 2:46-47. Feb.1968. 58.8 T68
- 83350 SZABO, S. S., and LIMPEL, L. E. A seeder for greenhouse use. Boyce Thompson Inst. Contrib. 24(1):11-14. Oct./Dec.1967. 451 B69
- 83351 THOMPSON, J. L., CASE, V. W., and BIGSBY, F. W. A precision plot seeder and fertilizer applicator. Can. Agr. Eng. 10(1):38-39,46. May 1968. 58.8 C164
- 83352 VELDA, K. The use of motion pictures in the registration of the precision of working of planting equipment. (Cz) Czech. Min. Zemedel. Les. Hospodar. Ustav Vedeckotech. Inform. Zemedel. Tech. 41(1):19-28. Jan.1968. 58.9 C333  
English summary.  
Sugar beets.
- 83353 YAKIMOV, YU. I., and VOLOSNIKOV, S. I. Experimental investigation of fertilizer distribution by centrifugal apparatus. (Rus) Traktory Sel'khoz-mashiny 12:27-28. Dec.1967. 58.8 T68
- Harvesting Equipment**
- 83354 ALEKSEICHIK, N. A. Potochaya tekhnologiya uborki zernovykh [Continuous line technology in grain harvesting]. Minsk, Urozhai, 1967. 155 p. Ref. SB190.A7
- 83355 AVILES ALGARRA, J. Forage equipment. (Sp) Cultiv. Mod. 41(3):57-58. Mar.1968. 15 C89  
For harvesting and handling.
- 83356 BARANOV, A. A. Selection of the most suitable correlation between circulation and forwarding speed of grain roller pickers. (Rus) Traktory Sel'khoz-mashiny 12:23-24. Dec.1967. 58.8 T68  
Combines.
- 83357 BERGE, O. J. Keep your forage harvester running smoothly. Hord's Dairyman 113(11):696,707. June 10,1968. 44.8 H65
- 83358 BERGMANN, F. Experiences with modern tractor mowing operations. (Ge) Grune 96 (5):145-150. Feb.2,1968. 17 Sch9  
Switzerland.
- 83359 BOGDANOVA, L. I., and BUROMSKII, V. I. The outlook for automatic control of the technical processes of grain combines. (Rus) Mekh. Elek. Sots. Sel. Khoz. 12:27-29. 1967. 58.8 M46
- 83360 CAIN, J. C. Some horticultural aspects of mechanical harvesting of apples. Farm Res. [N. Y. Sta.] 32(4):2-3. Jan./Mar.1967. 100 N48A
- 83361 CERA, M. Equipment for the harvesting of potatoes. (It) Agricoltura 17(3):101-112. Ref. Mar.1968. 16 Ag8226
- 83362 CHUMACHENKO, I. YA. To the problem of determining crushing and losses of grain while testing combines. (Rus) Mekh. Elek. Sots. Sel. Khoz. 2:46-48. 1968. 58.8 M46
- 83363 COLZANI, G. Equipment for harvesting grain corn. (It) Agricoltura 17(3):59-75. Ref. Mar. 1968. 16 Ag8226
- 83364 CROON, F. Mechanical lifting of witloof. (Fl) Tuinbouwberichten 32(2):61-64. Feb.1968. 80 T817  
Equipment.
- 83365 DALLARI, F. A. Equipment for the harvesting of tomatoes. (It) Agricoltura 17(3):113-117. Mar.1968. 16 Ag8226
- 83366 DED, J. High production equipment for harvesting clover varieties. (Cz) Uroda 16(5):186-186. May 1968. 64.8 Z12
- 83367 DIEMEL, H. Hay and green forage harvesting with DLG [Deutsche Landwirtschafts-Gesellschaft] certified machines. (Ge) Landmasch.-Markt 47(7):23-24. Apr.3,1968. 58.8 L239
- 83368 DODDS, M. E., and BIGSBY, F. W. The break-up of wheat straw by combine cylinders. Can. Agr. Eng. 10(1):43-44. May 1968. 58.8 C164  
Straw of different varieties.
- 83369 EZAKI, H. Research and theoretical studies of fundamental elements for the design of small harvester. 124 p. Ref. Transl. 16760  
Translation from Kanto-Tosan Agricultural Experiment Station, Journal, No. 12. 1959.
- 83370 FILIPPOV, A. I. The development of technology and machine systems for a streamlined chopper harvesting of the grain in USSR. (Ge) Czech. Min. Zemedel. Les. Hospodar. Ustav Vedeckotech. Inform. Zemedel. Tech. 40(12):745-750. Dec.1967. 58.9 C333  
English summary.
- 83371 GUTKOV, A. N., DUSHKO, V. S., and LEZEBNYI, N. A. Experimental investigation of the operational smoothness of the grain combine. (Rus) Trakt. Sel'khoz-mash. 2:20-22. Feb.1968. 58.8 T68
- 83372 KIRTBAYA, YU. K., and ORMANDZHI, K. S. Comparative investigation of harvesting equipment. (Rus) Traktory Sel'khoz-mashiny 11:36-39. Nov.1967. 58.8 T68  
Grain.
- 83373 KONING, K. DE. Mixing of seeds as result of combining. (Du) Loonbedrijf Land- Tuinbouw 21(4):241,243,245,247,249,251. Apr.1968. 283.8 L87
- 83374 KUBLANOV, V. L. A new technology of preparing cutting segments of harvesting equipment. (Rus) Traktory Sel'khoz-mashiny 12:40-41. Dec.1967. 58.8 T68
- 83375 LESIK, B. V., KORSACK, S. I., and GIRENKO, I. A. Effectiveness of the new flax harvesting equipment under conditions of the Ukrainian SSR. (Rus) Mekh. Elek. Sots. Sel. Khoz. 2:49-50. 1968. 58.8 M46
- 83376 LOO, L. VAN. Rotary haymaker. (Du) Landbouwmecanisatie 19(4):349-353. Apr.1968. 58.8 L2352
- 83377 LOO, L. VAN. Technical data on rotary mowers. (Du) Landbouwmecanisatie 19(2):109-115. Feb.1968. 58.8 L2352
- 83378 MANFREDI, E. Equipment for the harvesting of forage plants. (It) Agricoltura 17(3):76-87. Mar.1968. 16 Ag8226
- 83379 MANFREDI, E. Equipment for harvesting of sugar beets. (It) Agricoltura 17(3):88-100. Mar.1968. 16 Ag8226



- 83380 MANFREDI, E. Equipment for wheat harvesting. (It) *Agricoltura* 17(3):31-48. Mar.1968. 16 Ag8226
- 83381 MANFREDI, E. A great agricultural inquiry on: The mechanical harvesting of agricultural products; introductory considerations. (It) *Agricoltura* 17(3):22-30. Mar.1968. 16 Ag8226
- 83382 MELIYA, A. L. Determining resistance of the aggregates, attached to tractors. (Rus) *Mekh. Elek. Sots. Sel. Khoz.* 12:42-44. 1967. 58.8 M46
- 83383 NASTENKO, P. Increasing productional performance of combines. (Rus) *Kartofel' Ovoshchi* 2:9-10. Feb.1968. 75.8 K147  
Potato harvesting equipment.
- 83384 ODOUX, J. From grass to hay. (Fr) *France. Centre Nat. Etud. Exp. Mach. Agr. Bull. Inform.* 122/123:53-67. Mar./Apr.1968. 58.9 F843B  
Harvesting and drying techniques and losses.
- 83385 OEHRING, J. Turning—windrowing—spreading—raking. (Ge) *Landmasch.-Markt* 47(7):14-16. Apr.3,1968. 58.8 L239  
Hay.
- 83386 OPANASENKO, N. F. Improving the rice harvesting equipment in the Central Asia. (Rus) *Mekh. Elek. Sots. Sel. Khoz.* 12:15-17. 1967. 58.8 M46
- 83387 PELIZZI, G. Equipment for rice harvesting. (It) *Agricoltura* 17(3):49-58. Mar.1968. 16 Ag8226
- 83388 PETROV, G. D. Development of the potato harvesting equipment in 50 years. (Rus) *Traktory Sel'khoz mashiny* 11:15-17. Nov.1967. 58.8 T68
- 83389 POLLER, K. Newer application area for field hay balers. (Ge) *Landmasch.-Markt* 47(7):9-10. Apr.3,1968. 58.8 L239
- 83390 PROCHAZKA, B., PEVNY, S., and MALIK, V. Evaluation of quality of work with the divided harvest of winter rape. (Cz) *Pol'nohospodárstvo* 14(1):49-56. 1968. 19.5 P752  
English summary.  
Losses with use of combines.
- 83391 PUSTYGIN, M. A. Development of the combine industry. (Rus) *Traktory Sel'khoz mashiny* 11:10-12. Nov.1967. 58.8 T68
- 83392 RICE, B. Tests bring us up-to-date on mowers. *Farm Res. News* 9(1):13-15. Jan./Feb. 1968. 10.5 F223  
Haymaking machinery in Ireland.
- 83393 RULKE, L. Lessons of the "Bobritzschtal" cooperation community for 1968 spring tillage. (Ge) *Feldwirtschaft* 9(3):103-104. Mar.1968. 18 W763  
Grain and tobacco harvesting equipment.
- 83394 RUSANOV, A. I., RADISH, YU. P., and MESHCHERYAKOV, I. Studying the mechanized rice harvesting in Kuban. (Rus) *Mekh. Elek. Sots. Sel. Khoz.* 12:12-14. 1967. 58.8 M46
- 83395 SANGIORGI, F. Forage harvesters. (It) *Trattorista* 14(5/6):99-103,105,107,109,111,113,115,117,119,125,127,129. Mar.15/31,1968. 58.8 T69
- 83396 SCHAAFSTAL, H. A. What did the potato harvester demonstration at Apel teach us? (Ge) *Landbouwmecanisatie* 19(2):187-191. Feb. 1968. 58.8 L2352
- 83397 SHKARUPA, V. T. Outlook for developing equipment of economic plants, vegetables and orchards. (Rus) *Traktory Sel'khoz mashiny* 12:19-21. Dec.1967. 58.8 T68  
Chiefly harvesting equipment.
- 83398 SPLINTER, W. E., and SUGGS, C. W. A mechanical harvesting and handling system for tobacco. (Condensed.) *Agr. Eng.* 49(5):284-285. May 1968. 58.8 Ag83
- 83399 SPOELSTRA, S. Hay making. (Du) *Landbouwmecanisatie* 19(4):385-387. Apr.1968. 58.8 L2352  
Equipment.
- 83400 TANIS, T., and O Ving, R. K. Attuning of harvest and transport. I. (Du) *Landbouwmecanisatie* 19(1):71-74. Jan.1968. 58.8 L2352  
English summary.  
Potato equipment.
- 83401 TANIS, T., and O Ving, R. K. Attuning of harvest and transport. II. (Du) *Landbouwmecanisatie* 19(2):151-154. Feb.1968. 58.8 L2352  
English summary.  
Potato equipment.
- 83402 TREIVAS, A. Decreasing injuries of potato tubers. (Rus) *Kartofel' Ovoshchi* 2:11-12. Feb. 1968. 75.8 K147  
Caused by potato harvesting equipment.
- 83403 USMANKHODZHAEV, KH. KH., INOGAMOV, K. M., and FAIZIEV, I. KH. Experimental investigation of the serial and spiral spindles of the cotton harvesting equipment. (Rus) *Akad. Nauk Uzb. SSR. Dokl.* 8:13-14. 1967. 511 Uz1
- 83404 VENTURI, G. Equipment for the harvesting of hemp. (It) *Agricoltura* 17(3):118-128. Ref. Mar.1968. 16 Ag8226
- 83405 WIJK, A. VAN. Working with new mowing systems. (Du) *Landbouwmecanisatie* 19(4):319-326. Apr.1968. 58.8 L2352  
English summary.

#### Processing Equipment Used on the Farm

- 83406 AGRICULTURAL MACHINERY JOURNAL. An AMJ review—grain handling and seed cleaning. *AMJ (Agr. Mach. J.)* 22(5):39,41,43,45,49,53. May 1968. 58.8 Ag86
- 83407 BAREISS, G. Modern haymaking with slight nutrient loss. (Ge) *'Chem. Tech. Landwirt.* 19(5):159-160,162,164,166. May 1968. 384 C4292
- 83408 BASOV, A. M., and ERMOLOV, M. YA. Effectiveness of electrical grain cleaners and electric production lines. (Rus) *Mekh. Elek. Sots. Sel. Khoz.* 2:20-24. 1968. 58.8 M46
- 83409 CHERNIKOV, V. G. Friction coefficient of flax straw and flax fibers. (Rus) *Traktory Sel'khoz mashiny* 12:21-22. Dec.1967. 58.8 T68  
Mechanical processing.
- 83410 CHUMA, Y., and others. Studies on the better handing of citrus fruit. Effect of brush of sorting machine on the citrus damage. (Ja) *Soc. Agr. Mach. Jap. J.* 29(4):214-220. Mar.1968. 58.9 S01  
S. Murata, T. Takeda, H. Kato, and K. Watanabe, joint authors.  
English summary.
- 83411 CHUMA, Y., and MURATA, S. Theoretical half-cooling time of mass-average temperature of fruits and vegetable. I. In the case of spherical products under the forced air cooling. (Ja) *Soc. Agr. Mach. Jap. J.* 29(4):221-224. Mar.1968. 58.9 S01  
English summary.  
In relation to equipment.
- 83412 CLARK, R. G., and LAMOND, W. J. Forced air drying of herbage; effect of drying air conditions. *J. Agr. Eng. Res.* 13(1):19-26. Ref. Mar.1968. 58.8 J82
- 83413 FORSTER, H. Easy way to handle loose hay. *Can. Cattleman* 31(5):10,43-44. May 1968. 49 C16  
Includes equipment.
- 83414 KLUG, A., and ZILLIG, R. Increased output of steaming equipment by short-time steaming of feed potatoes. (Ge) *Deut. Agrartech.* 17(2):579-581. Dec.1967. 58.8 D482
- 83415 KULPE, E. Importance and possibilities of silage pressing in high and flat silos. (Ge) *Deut. Agrartech.* 17(2):557-559. Dec.1967. 58.8 D482
- 83416 MALER, J. On the problem of chopped grain separation from the mass. (Cz) *Czech. Min. Zemedel. Les. Hospodar. Ustav Vedeckotech. Inform. Zemedel. Tech.* 40(12):721-730. Dec. 1967. 58.9 C333  
English summary.  
A part of threshing operation.
- 83417 OLEINIKOV, V., and ZENISCHE, V. Novelty in grain processing after harvesting. (Rus) *Tekh. Sel'skom Khoz.* 4:43-46. 1968. 58.8 M11  
Cleaning and drying equipment.
- 83418 PHILIPSEN, P. J., and HAK, P. S. The practice of hay making. (Du) *Neth. Dir. Landbouw. Landbouvoorlichting* 25(4):161-177. Apr.1968. 12 N383M

- 83419 PROCE, J. M. DE. The dehydration of lucerne in the United States of America. (Fr) Revue de l'Elevage 23(3):73-74,77. Mar.1968. 49 B462
- 83420 ROI, A. A. Contribution to the theory of fresh-ing castorbean seeds. (Rus) Trakt. Sel'khoz-mash. 2:26-28. Feb.1968. 58.8 T68
- 83421 SCHMID, W. Experiences with hay ventilation. (Ge) Grune 96(6):177-182. Feb.9,1968. 17 Sch9  
Drying in Switzerland.
- 83422 SCHRODL, J. DLG-tested segmenting machines. (Ge) Mit. Deut. Landwirt.-Ges. 83 (10):302,304,306-307. Mar.7,1968. 18 N39  
For sugar beets.
- 83423 SCHWARZ, W., and GOLZ, E. Aeration drying of hay bales. (Ge) Deut. Agrartech. 17(2):565-568. Dec.1967. 58.8 D482
- 83424 STEINMETZ, H. Drum or disk chopper? (Ge) Traktor Landmasch. 30(5):272-723. Mar.2, 1968. 58.8 T878Ag
- 83425 TAKEUCHI, R. Hydrodynamic study of pneu-matic grain separation. (Ja) Soc. Agr. Mach. Jap. J. 29(4):203-208. Mar.1968. 58.9 So1  
English summary.
- 83426 TANG, H., VAMOSI, J., and KUNFFY, Z. Ar-tificial procedures for making lucerne hay in Hungary. (Ge) Arch. Tierenahr. 18(2):153-169. Ref. Mar.1968. 389.78 Ar22  
English summary.
- 83427 TODEV, T. Mechanized drying and stringing of tobacco. (Bu) Bulg. Tyutyun 6:14-16. 1967. 69.8 B872
- 83428 TOJO, M., and OKAMURA, T. A study of dry-ing of soybean; some experiments of hot air drying. (Ja) Soc. Agr. Mach. Jap. J. 29(4):209-213. Mar.1968. 58.9 So1  
English summary.
- 83429 VELICH, S. Study methods of processing machines of freshly consumed fruit. (Hu) Agrar-tud. Kozlem. 27(1/2):169-181. 1968. 19 B855
- 83430 VOLANTI, U. Rapid haymaking in two cases of farms with and without silo. (It) G. Agr. 78 (17):227. Apr.28,1968. 16 It1G
- 83431 ZIHLMANN, F. Hay ventilation today. (Ge) Grune 96(9):298-303. Mar.1,1968. 17 Sch9  
Drying in Switzerland.
- 83441 PRATT, G. L., and others. Lagoons for farm wastes. N. Dak. Farmers Res. 25(4):8-10. Mar./Apr.1968. 100 N813B  
J. C. Converse, R. L. Witz, R. G. Butler, and J. L. Parsons, joint authors.

### Spraying and Dusting Equipment

- 83442 BOYADZHIEV, V., and PRISADASHKI, TS. Comparative tests of knapsack dusters. (Bu) Rast. Zasht. 16(1):37-40. 1968. 423.92 So2
- 83443 DAUM, D. R. Are you using your sprayer properly? Hoard's Dairyman 113(11):694-695,714. June 10,1968. 44.8 H65
- 83444 DOUGLAS, G. A comparison of the 'Vibrajel' nozzle and a fan jet for overall application of bipyrindyl herbicides. Weed Res. 8(1):14-27. Mar.1968. 79.8 W412
- 83445 FRUIT spraying machines. Ed. 6. Great Brit. Min. Agr. Fish. Food Bull. 5,47 p. 1967. 10 G794B
- 83446 GOFFRE, P., and MUSILLAMI, S. Use of com-pression sprayers in the control of weeds. (Fr) France. Centre Nat. Etud. Exp. Mach. Agr. Bull. Inform. 122/123:17-22A. Mar./Apr.1968. 58.9 F843B
- 83447 HILL, H. P. Calibrate sprayers often. Weeds Trees Turf 7(3):7-10,44. Mar.1968. 79.8 W413
- 83448 KAWAMURA, N., NAMIKAWA, K., and IKEDA, Y. Activation analysis for quantitative evaluation of spray deposits and diffusion. (Ja) Soc. Agr. Mach. Jap. J. 29(4):199-202. Mar.1968. 58.9 So1  
English summary.
- 83449 KUDRYA, I. P. To obtain more even spraying. (Rus) Zashch. Rast. 5:23-24. 1968. 421 Z1  
Tobacco.
- 83450 NELSON, G. S., and LINCOLN, C. Perform-ance of airplane sprayers for insecticide appli-cations. Ark. Agr. Exp. Sta. Bull. 730,27 p. Apr.1968. 100 Ar42
- 83451 PRISADASHKI, TS., BOYADZHIEV, V., and NACHEV, N. Results of tests of some pneu-matic sprayers in Bulgaria. (Bu) Rast. Zasht. 16(4):35-38. 1968. 423.92 So2
- 83452 SUDIT, ZH. M. To the problem of choosing and calculating the distribution installations on the contemporary sprayers. (Rus) Trakt. Sel'khoz-mash. 2:31-33. Feb.1968. 58.8 T68
- 83453 TARNOVITCH, N. Plant protection equipment and its technique. (Rus) Tekh. Sel'skom Khoz. 11:35-38. 1967. 58.8 M11
- 83454 UMEDA, S., and MORI, K. Studies on the pumping performance of power sprayer. II. Static characteristics of valve in high pres-sure. (Ja) Soc. Agr. Mach. Jap. J. 29(4):194-198. Mar.1968. 58.9 So1  
English summary.

### Vehicles

### Repair, Maintenance, and Construction Equipment

- 83432 APAVALOAE, C. Welding table with automatic ventilation. (Rum) Mec. Elec. Agr. 13(2):55-59. Feb.1968. 58.8 M4623
- 83433 DAY, D. L., CONVERSE, J. C., and JONES, D. D. Rotor aeration of swine wastes. III. Res. 10(2):16-17. Spring 1968. 100 IL64  
Manure in swine buildings.
- 83434 FORSTER, A. G. Recent findings on liquid manure procedures. (Ge) Mitt. Deut. Land-wirt.-Ges. 83(16):562-566. Apr.18,1968. 18 N39  
Handling equipment in barns.
- 83435 JENSEN, O. Welding transformer. (Da) Landbonyt 22(4):172,174-178. Apr.1968. 11 L2322
- 83436 JENSEN, O. Welding with transformer. (Da) Landbonyt 22(5):225-226,228-231. (Cont.) May 1968. 11 L2322
- 83437 KUHN, G., and GUTJAHR, I. Experiences with the complex application of manure tank trucks in cooperation. (Ge) Feldwirtschaft 9(2):66-67. Feb.1968. 18 W763  
On manure handling equipment.
- 83438 LEHMANN, R. Tank trucks for removal of bulky manure. (Ge) Feldwirtschaft 9(2):67-70. Feb.1968. 18 W763
- 83439 MCLEAN, R. D., and SPEERS, G. C. All under cover. Agr. Northern Ireland 42(10):319-322. Feb.1968. 256.13 Ag82M  
Manure handling in cattle barns.
- 83440 PORTYANKO, A. Modern methods of protect-ing against corrosion. (Rus) Tekh. Sel'skom Khoz. 11:74-75. 1967. 58.8 M11  
Farm equipment.
- 83455 ALTADONNA, G. Recent development of three-point hitches. (It) Trattorista 14(4):75-77. Feb.29,1968. 58.8 T69
- 83456 BEMMEL, P. M. VAN. Hydraulic operated machines. (Du) Landbouwmecanisatie 19(2):165-168. Feb.1968. 58.8 L2352  
English summary.
- 83457 BULDINI, F. Some trailers for the modern farm. (It) Macch. Motori Agr. 26(4):91-95. Apr.1968. 58.8 M13
- 83458 CREIXELL VENDRELL, J. Treat your tractor adequately. (Sp) Cultiv. Mod. 51(4):56. Apr. 1968. 15 C89
- 83459 DERDACK, W. The underload gearbox change for tractors. (Ge) Deut. Agrartech. 18(4):161-164. Apr.1968. 58.8 D482
- 83460 ELEMA, H. M. Technical data of agricultural tractors in the Netherlands. (Du) Landbouwmecanisatie 19(1):19-28. Jan.1968. 58.8 L2352  
English summary.



- 83461 FRANCE CENTRE NATIONAL D'ETUDES ET D'EXPERIMENTATION DE MACHINSME AGRICOLE. Technical-economic problems posed by wheel-type high-powered, tractors. (Fr) France. Centre Nat. Etud. Exp. Mach. Agr. Bull. Inform. 122/123:23-31. Mar./Apr. 1968. 58.9 F843B  
Power versus first cost and operating cost.
- 83462 FRIDIN, S. G., and TOVBIN, K. N. How to take inventory of the petroleum products? (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 11:45-46. 1967. 30.69 Uc4  
Motor fuel on the farm.
- 83463 FRUMKIS, I. V. Performance of tractors with modern transmissions. (Rus) Mekh. Elek. Sots. Sel. Khoz. 2:1-4. 1968. 58.8 M46  
Tests.
- 83464 GEL'FENBEIN, S. P., and others. Tractor aggregate, as object of automation. (Rus) Mekh. Elek. Sots. Sel. Khoz. 12:22-26. 1967. 58.8 M46  
K. G. Chulkov, V. G. Chernyshov, and M. A. Sharov, joint authors.
- 83465 GRECHENKO, A. Predicting the performance of wheel tractors in combination with implements. J. Agr. Eng. Res. 13(1):49-63. Mar. 1968. 58.8 J82
- 83466 HAASE, G. Handbooks for maintenance of tractors. (Ge) Deut. Agrartech. 18(4):177-178. Apr. 1968. 58.8 D482
- 83467 IGAKI, C. On the ground contact pressure of the 4 wheel tractor. II. Effect of the idle wheel's pressure for the other wheels. (Ja) Soc. Agr. Mach. Jap. J. 29(4):183-185. Mar. 1968. 58.9 Sol  
English summary.
- 83468 KOMANDI, G. Relationships between the drawbar and engine power of tractors. (Ge) Deut. Agrartech. 18(4):169-172. Apr. 1968. 58.8 D482
- 83469 KOMIER, K. W., and PERSSON, S. P. E. Comparison of predicted and measured drawbar performance of tractors on agricultural soils. Can. Agr. Eng. 10(1):29-32. May 1968. 58.8 C164  
Includes tire specifications.
- 83470 KOTLYAR, E. I., and CHERNYAK, A. YA. Tractor prices, as related to their usable qualities. (Rus) Trakt. Sel'khoz mash. 2:40-43. Feb. 1968. 58.8 T68
- 83471 KOZLOV, V., and KOTLIKOV, N. Improving starting of automobile and tractor engines. (Rus) Tekh. Sel'skom Kkoz. 11:71-74. 1967. 58.8 M11
- 83472 KOZLOV, V. N., and ULITSKII, E. YA. Ergonomic basis of parameters for the seating place of tractor operators. (Rus) Mekh. Elek. Sots. Sel. Khoz. 12:7-9. 1967. 58.8 M46
- 83473 LONG, M. E. Progress report on remote hydraulic motors. Hoard's Dairyman 113(11):698. June 10, 1968. 44.8 H65  
For tractors.
- 83474 MASUDA, S., TANAKA, T., and YAMAZAKI, M. Studies on measurement of transmitting torque and dynamic weight distribution of a tractor under several transitional conditions. (Ja) Soc. Agr. Mach. Jap. J. 29(4):175-182. Ref. Mar. 1968. 58.9 Sol  
English summary.
- 83475 MILLER, E. C. University of Minnesota Technical Institute offers two-year ag aviation program. Aerial Appl. 6(2):4-5. Feb. 1968. 333.8 Ae8
- 83476 MOLNA, B. Is Norwegian tractor driver safety equipment too expensive. (No) Norsk Landbruk 7:8. Apr. 5, 1968. 11 N8122
- 83477 OBRYADIN, V. G., and KHANUKOV, A. A. Indicators of dependability of fuel apparatus in the diesel engine. (Rus) Traktory Sel'khoz mashiny 12:5-7. Dec. 1967. 58.8 T68
- 83478 PETERSEN, H. J. New tractor models. (Da) Landbonytt 22(4):197-200. Apr. 1968. 11 L2322
- 83479 RAYNER, A. J. Price-quality relationships in a durable asset; estimation of a constant quality price index for new farm tractors, 1948-1965. J. Agr. Econ. [Reading] 19(2):231-249. Ref. May 1968. 281.9 Ag8
- 83490 SANDRU, A. Some aspects of variations of the radius of tires in function of their tasks. (Rum) Mec. Elec. Agr. 13(2):28-37. Feb. 1968. 58.8 M4623
- 83491 SCHULZ, H. Economic utilization of tractor engines. (Ge) Deut. Agrartech. 18(4):155-158. Ref. Apr. 1968. 58.8 D482
- 83492 SCHULZ, H. Efficiency of pendulum limitations. (Ge) Deut. Agrartech. 18(4):175-177. Apr. 1968. 58.8 D482  
On tractors.
- 83493 SCHWEIZERISCHER TRAKTORVERBAND. Activity report for the period July 1, 1966 to June 30, 1967 [of the Swiss Tractor Association]. (Ge) Traktor Landmasch. 30(5):296-299. (Cont.) Mar. 2, 1968. 58.8 T678Ag
- 83494 SCHWEIZERISCHER TRAKTORVERBAND. Activity report for the period July 1, 1966 to June 30, 1967 [of the Swiss Tractor Association]. (Ge) Traktor Landmasch. 30(6):373-375. (Cont.) Apr. 1968. 58.8 T678Ag
- 83495 SEIFFERT, C. The "Kombi"—the car for agriculture. (Ge) Ubersicht 19(5):362-368. May 11, 1968. 18 Ub3  
Station wagon.
- 83496 SHPODARENKO, I. P., and others. Comparative laboratory—and field tests of plowing type tractors. (Rus) Traktory Sel'khoz mashiny 12:3-5. Dec. 1967. 58.8 T68  
P. L. Shchupak, E. P. Ivanov, and V. G. Kolesnikov, joint authors.
- 83497 SKUNDIN, G. I., and UTKIN-LYUBOVTSSEV, O. L. Methods of increasing duration of shafts and bearings of tractor transmissions. (Rus) Traktory Sel'khoz mashiny 12:7-10. Dec. 1967. 58.8 T68  
Construction.
- 83498 SMIRNOV, G. A., SITNIKOVA, T. A., and FIR-SANOVA, E. N. Investigating effect of centrifugal diesel oil cleaning on separation of admixtures. (Rus) Traktory Sel'khoz mashiny 12:17-18. Dec. 1967. 58.8 T68
- 83499 SOUTHWELL, P. H. An analysis of tractor purchase costs and efficiencies. Can. Agr. Eng. 10(1):58.8 C164
- 83490 STEPHANSON, B. T. Tractor operator roll over protection. Can. Agr. Eng. 10(1):23-28. May 1968. 58.8 C164  
Safety cabs.
- 83491 TAMOZHNIKOV, N. D. Costs of tractor operations and the methods of their decreasing on the state farms in the Karaganda Region. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 128:227-231. 1967. 20 M857
- 83492 TANABE, H., and NAKAO, S. Studies on the running resistance of wheel having the angle for the travelling direction. Effect of the weight difference on the wheels. (Ja) Soc. Agr. Mach. Jap. J. 29(4):186-193. Mar. 1968. 58.9 Sol  
English summary.
- 83493 UNALA, N. Determination of performance requirements of power-take-off operated tractor mounted machines. (Ge) Traktor Landmasch. 30(5):267-271. Mar. 2, 1968. 58.8 T678Ag
- 83494 UNALA, N. New regulations for OECD [Organization for Economic Co-operation and Development] tractor tests. (Ge) Traktor Landmasch. 30(4):195-197. (Cont.) Mar. 1, 1968. 58.8 T678Ag
- 83495 VZOROV, B. A., and others. Investigating deformation of sockets by assembling tractor engines. (Rus) Traktory Sel'khoz mashiny 12:13-17. Dec. 1967. 58.8 T68  
E. V. Isaev, V. A. Korzhakov, V. A. Osokin, and A. I. Ponin, joint authors.
- 83496 WATSON, E. M. Tractor safety. Canterbury Chamber Com. Agr. Bull. 458, 3 p. Jan./Feb. 1968. 23 C162

- 83497 ZAV'YALOV, K. I., KAV'YAROV, I. S., and KHAZANSKII, S. A. Adjustment of tractor construction to the operational conditions in the Far North. (Rus) Traktory Sel'khoz mashiny 11:27-29. Nov.1967. 58.8 T68
- 83498 ZHIZHKO, KH. V. Evaluation of agrotechnical properties of wheel and caterpillar tractors of the three-ton class. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 3:113-114. Mar.1968. 20 V633
- 83499 ZIMMERMAN, M. Farm tractors—the newest for 1968. Impl. Tractor 82(26):19-23. Dec.21, 1967. 58.8 W41
- 83500 ZOTOVA, L. V. Calculating the most suitable distribution of available tractors, according to work types, by means of the mathematical methods. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 128:221-226. 1967. 20 M857
- FARM STRUCTURES AND RURAL HOUSING**
- 83501 BOCHAROV, V. I., and OSTAPKOVICH, I. G. Industrial'nye metody sel'skogo stroitel'stva [Industrial methods in agricultural building]. Moskva, Moskovskii Rabochii, 1967. 94 p. TH4911.B6
- 83502 CARDINALI, M. A farm center that can be constructed in eight weeks. (It) Genio Rurale 31(2):131-135. Feb.1968. 281.8 R522  
Prefabrication for the farmhouse and out-buildings from a German example.
- 83503 DALE, A. C. When your farmers build. Farm Technol. 24(4):24,32. Summer 1968. 275.28 N213
- 83504 FRENGUELLI, G. Fireproofing of rural buildings of straw. (It) Genio Rurale 31(4):303-307. Apr.1968. 281.8 R522
- 83505 FRITZ, R. Prefabricated lumber parts for farm buildings. (Ge) Mitt. Deut. Landwirt.-Ges. 83(5):116,118-119. Feb.1,1968. 18 N39
- 83506 HOLDER, F. W. The building regulations 1965. Great Brit. Min. Agr. Fish. Food. Agr. 75(3):144-146. Mar.1968. 10 G79J
- 83507 JOHNSON, D. W., PRATT, G. L., and BUTCHBAKER, A. F. Building failures from wind and snow loads. (Condensed.) Agr. Eng. 49(5):290-291. May 1968. 58.8 Ag83  
In relation to designs.
- 83508 MELLOW, C. W. New designs and materials for farm buildings. Agway Coop. 4(3):22-23. Apr.1968. 280.28 Ag9
- 83509 NAGRESKI, L. D., and CURTIS, J. O. Allowable loads for anchor bolts in concrete. Ill. Res. 10(2):5. Spring 1968. 100 IL64  
Building construction.
- 83510 POTENZA, I. Prefabrication in agriculture. (It) Genio Rurale 31(2):137-146. Feb.1968. 281.8 R522
- 83511 ROHKST, P. A. Who builds, beholds: building with wood. (Ge) Mitt. Deut. Landwirt.-Ges. 83(6):144-146. Feb.8,1968. 18 N39
- 83512 WHITE, J. N. Farm buildings design and the landscape. Roy. Soc. Arts. J. 116(5138):98-113. Jan.1968. 501 L847J
- 83513 WIEDIJK, J. Welfare supervision and agricultural building. (Du) Neth. Dir. Landbouw. Landbouwvoorlichting 25(5):203-207. May 1968. 12 N383M
- Animal Shelters and Animal Service Buildings**
- 83514 ANDREEV, I. E. Dairy barn—a important factor of milk production. (Rus) Zhivotnovodstvo 4:34-35. Apr.1968. 49 Z6  
Design.
- 83515 AREHART, L. A., LEWIS, J. M., and CATE, H. A. Slotted floors are practical for lambs. Ill. Res. 10(2):10-11. Spring 1968. 100 IL64
- 83516 BEREND, I. Influence of design of stalls on economy. (Ge) Deut. Agrartech. 17(2):552-554. Dec.1967. 58.8 D482
- 83517 BERTONCELJ, M., KERVINA, F., and BERTONCELJ, M. Modern housing for cattle industry. (Se) Glasnik 12(3):54-60. 1968. 280.28 Z13  
Designs.
- 83518 BREUNIG, R. Healthy barn ventilation increases the production potentialities of livestock. (Ge) Mitt. Deut. Landwirt.-Ges. 83(3):56,58. Jan.18,1968. 18 N39
- 83519 BRYSON, J. W. Good farrowing pens cut piglet losses. S. Australia J. Agr. 71(9):300-305. Apr.1968. 23 So84
- 83520 DOMANSKY, L. Study of the production and technical design problems of the box housing of cattle. (Cz) Czech. Min. Zemedel. Les. Hospodar. Ustav Vedeckotech. Inform. Zemedel. Tech. 40(12):731-744. Dec.1967. 58.9 C333  
English summary.
- 83521 GEUS, P. A. DE. Protection of piglets by electrically heated tiles. (Du) Landbouwmecanisation 19(2):171-180. Feb.1968. 58.8 L2352  
English summary.
- 83522 HAHN, B. Stallklimatische Untersuchungen in alten und neuen Rinder- und Schweineställen des Landkreises Königshofen [Investigation on stall climate in old and new cattle and swine stalls of the agricultural district Königshofen]. Munich. Univ. Tierarztl. Fak. [Inaug.-Diss.] 34,121 p. 1967. 41.2 M9222  
Bibliography, p.113-121.
- 83523 HAUPTMAN, J. Dairy barns of large capacity in Czechoslovakia. (Fr) Revue de l'Elevage 23(3):51-52,55-56,59-60. Mar.1968. 49 B462
- 83524 HELLMANN, C. Barn pressure ventilation with turbo-ventilators. (Ge) Mitt. Deut. Landwirt.-Ges. 83(18):636,638. May 2,1968. 18 N39
- 83525 HEUERMAN, E. Wood and cattle barn. (Ge) Mitt. Deut. Landwirt.-Ges. 83(4):86,88-89. Jan.25,1968. 18 N39
- 83526 KLAUER, D. Does the farmer need another farm building. (Ge) Landarbeit 19(4):28-29. Apr.1968. 18 L2355  
Costs included.
- 83527 MANAETHON, P. The utilization of gratings in sheep housing. (Fr) Patre 151:41-43. Feb.1968. 45.8 P272
- 83528 MARCSINAK, A. Development of large-scale installations for cattle rearing in Hungary. (Ge) Deut. Agrartech. 17(2):546-548. Dec.1967. 58.8 D482
- 83529 NOWLAND, W. J. Controlled environment housing of broilers. New S. Wales. Dep. Agr. Poultry Notes, Jan.1968:5-14. 47.9 N472
- 83530 OBER, J. Grating bridges on the short stand with liquid manure equipment. (Ge) Mitt. Deut. Landwirt.-Ges. 83(3):33-69. Jan.18, 1968. 18 N39
- 83531 OBER, J. Warmth through construction and healthy swine climate. (Ge) Mitt. Deut. Landwirt.-Ges. 83(10):299-301. Mar.7,1968. 18 N39
- 83532 OBER, J. Wood pavements for standing and lying areas. (Ge) Mitt. Deut. Landwirt.-Ges. 83(2):37-38. Jan.11,1968. 18 N39  
For cattle.
- 83533 SLADOVNIK, K. Litterless housing of cattle. (Cz) Czech. Min. Zemedel. Les. Hospodar. Ustav Vedeckotech. Inform. Zivocisna Vyroba 41(1):1-8. Ref. Jan.1968. 49.9 C33  
English summary.
- 83534 SOMMERLADE, K. Possibilities of maintaining loafing barns on the family farm. (Ge) Mitt. Deut. Landwirt.-Ges. 83(5):107-109. Feb.1,1968. 18 N39  
For dairy cattle.
- 83535 TEETZ, W. Wood in swine barn construction. (Ge) Mitt. Deut. Landwirt.-Ges. 83(4):90,92, 94. Jan.25,1968. 18 N39
- 83536 TOMORY, L. Economy of complex installations for livestock rearing. (Ge) Deut. Agrartech. 17(2):549-552. Dec.1967. 58.8 D482  
Relation between housing and technology.
- 83537 TURNBULL, J. E. Profitability from cattle barns with controlled environment in Canada. (Fr) Rev. Fr. Prod. Anim., Mar.1968:22-23. 47.8 C64
- 83538 VAN ARSDALL, R. N. How to evaluate those farm service buildings. Farm Technol. 24(4):26,32. Summer 1968. 275.28 N213



Farmhouses and Farmsteads

- 83539 HODGELL, M. R. Housing and the environment. Nat. Seminar Workshop Home Econ. Res. Admin. Proc. 1967:51-53. TX5.N3 Research.
- 83540 LUCCHINI, M. Farm houses; new tendencies and actual situation. (Fr) Tech. Lait. 585:51, 53,55,57-59. Mar.2,1968. 44.8 Of2 Includes designs.
- 83541 SUDDARTH, S. K. A generalized stiffness analysis of space frames. Ind. Agr. Exp. Stāf Res. Progr. Rep. 321,21 p. Oct.1967. 100 In2Res Wood.
- 83542 U. S. AGRICULTURAL RESEARCH SERV. Pole-frame cabin; cooperative farm building plan No. 6002. U. S. D. A. Misc. Publ. 1079, 2 p. Apr.1968. 1 Ag84M
- 83543 WIEDIJK, J. Welfare supervision, development and principles. (Du) Neth. Dir. Landbouw. Landbouwwoorlichting 25(4):155-157. Apr.1968. 12 N393M Housing legislation.
- 83544 WIGHTMORE, E. From the ALS; agricultural dwellings. Great Brit. Min. Agr. Fish. Food. Agr. 72(2):90-92. Feb.1968. 10 G79J

Greenhouses and Plant Service Buildings

- 83545 DUBETZ, S., THURSTON, W. E., and BERGEN, H. J. Automatic rain shelter for small outdoor plots. Can. Agr. Eng. 10(1):40-41. May 1968. 58.8 C164 In studies of greenhouse planning.
- 83546 FORTSCH, C., and HEINEKEN, R. The effect of meteorological elements and the technological measures on the rate of temperature change in greenhouses with the controlled temperature and their influence on the automated regulation of temperature. (Ge) Arch. Gartenbau 16(1): 17-35. Ref. 1968. 80 Ar2 English summary.
- 83547 GEMEREN, P. VAN. Greenhouse mechanization. (Du) Groenten Fruit 23(26):1161-1162. Jan.10,1968. 80 G89
- 83548 GOOSSENS, A. Climate control in greenhouses. (Fl) Tuinbouwbericht 32(4):141-142. Apr. 1968. 80 T817
- 83549 GRAY, H. E. Climate control. Florists' Rev. 142(3682):20,59-62. June 20,1968. 80 W41 Greenhouse equipment.
- 83550 GRAY, H. E. A theory for practitioners: modern greenhouse construction. Florists' Rev. 142(3675):51-53,136-137. May 2,1968. 80 W41
- 83551 HEISSNER, A., and KRASPER, P. Study of variable temperature control in greenhouses. II. (Ge) Deut. Agrartech. 17(2):577-579. Dec. 1967. 58.8 D482
- 83552 LANDGREN, B. Greenhouse construction—tradition and renovation. (Sw) Jord—Groda—Djur 24:172-190. 1968. 11 J763
- 83553 PCHELKIN, YU., and LOPATCHENKO, A. Plastic greenhouse with electric heating. (Rus) Kartoffel' Ovoshchi 3:22-23. Mar.1968. 75.8 K147
- 83554 RODWAY, M. Japan's portable greenhouses. World Crops 19(6):28. Dec.1967. 281.8 W892
- 83555 STENE, J. Construction of hobby greenhouse. (No) Norsk Hagetid. 88,i.e.84(3):98-100. Mar.1968. 80 N81
- 83556 ZAMIR, N. Hothouses in Israel. Israel Econ. 24(3):80. Mar.1968. 280.8 Is722

Materials and Methods

- 83557 KEDZIORKOWA, F. Construction materials on the rural market. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 619:63-73. Jan.17,1968. (JPRS 44,034) 173 J663Ste In Poland. Translation from Wies Wspolczesna 12:53-61. Dec.1967. Issued by CFSTI.

- 83558 POPHAM, J. H. Report on a timber framed plywood truss. Farm Buildings Ass. J. 11:110. Dec.1967. 296.9 F22

Storage Structures

- 83559 ARTNER, X. A new method of ventilating warehouses for large cases. (Ge) Kartoffelbau 19(2):40. Feb.1968. 75.8 K145 Potato storage.
- 83560 BARTHA, A. Climatic requirements of fruit and vegetable storage. (Hu) Magyar Mezogazdasag 23(52):10-11. Dec.27,1967. 19 M27 Temperature and humidity in structures.
- 83561 BULDINI, F. Progress in farm fixed installations. (It) Genio Rurale 31(2):127-130. Feb. 1968. 281.8 R522 Storage equipment.
- 83562 GEORGIEV, KH. Improving of material base in tobacco drying. (Bu) Bulg. Tyutyun 7:9-14. 1967. 69.8 B872 Structures.
- 83563 JAENECKE, W. Prefabrication of wooden feed silos make the shortest building time possible. (Ge) Chem. Tech. Landwirt. 19(5):167-168. May 1968. 384 C4929 Includes portable silos.
- 83564 POTKE, E. Construction of conditioning and storage plants for seed and table potatoes. (Ge) Deut. Agrartech. 17(2):570-574. Dec. 1967. 58.8 D482
- 83565 SIMEK, J. New type of storage structure for potatoes. (Cz) Uroda 16(4):149-150. Apr.1968. 64.8 Z12
- 83566 SMIRNOV, B. Collective storage structures. (Rus) Sadovodstvo 12:32-33. Dec.1967. 80 Sa13 Apples.
- 83567 TVAROZEK, V. Storage structures for long-term storage of fruit and vegetables. (Cz) Zahradnicke Listy 61(4):99-100. 1968. 80 Z12
- 83568 ZELLNER, R. Machine sheds—suitable and worth the price. (Ge) Mitt. Deut. Landwirt.-Ges. 83(17):600,602. Apr.25,1968. 18 N39 Construction and costs.
- 83569 ZENTGRAF, R. Silos of wood. (Ge) Mitt. Deut. Landwirt.-Ges. 83(6):146,148,150. Feb.8,1968. 18 N39

Walls and Fences

- 83570 ARSENE, R. Electric generators with semi-conductors for electric fences. (Cz) Mec. Elec. Agr. 13(3):59-61. Mar.1968. 58.8 M4623
- 83571 MAWSON, W. F. Suspension fence proves a winner. Queensland Agr. J. 94(4):224-230. Apr.1968. 23 Q33
- 83572 MCCALLUM, P. Some farm calculations made easy. Queensland Agr. J. 94(3):168-170. Mar. 1968. 23 Q33 Fences for cattle enclosures.
- 83573 PARKER, B. W. New low cost fence a feature on Taranaki hills. New Zeal. J. Agr. 116(5):24-25,27. May 1968. 23 N48J
- 83574 TRETHERWIE, R. J. Cheaper subdivision with permanent electric fencing. Dairyfarming Dig. 15(2):15-16. Mar./Apr.1968. 44.8 D1443 Includes costs.

FARM UTILITIESElectricity and Electrification

- 83575 ANTONOV, A. K. Electrification of villages. (Rus) Mekh. Elek. Sots. Sel. Khoz. 10:25-26. 1967. 58.8 M46 Policies.
- 83576 BANTZER, A. Don't neglect electric installations! (Ge) Mitt. Deut. Landwirt.-Ges. 83(2): 34-37. 1968. 18 N39
- 83577 BUDZKO, I. A. Elektrieskie seti [Electric networks]. Ed. 3, rev. and enl. Moskva, Kolos, 1967. 327 p. TK3226.B8 1967 Rural electrification.

- 83578 DAVIS, E. H. Will you be ready for the next power failure? *Big Farmer* 40(4):72-73,76. Summer 1968. 58.8 B46
- 83579 FATTAKHOV, I. Visiting Tashkent electrification specialists. (Rus) *Tekh. Sel'skom Khoz.* 11:61-62. 1967. 58.8 M11
- 83590 NAZAROV, G. I. Basic trends in developing automatic electricity on the farms. (Rus) *Mekh. Elek. Sots. Sel. Khoz.* 12:30-32. 1967. 58.8 M46
- 83581 NEPOROZHNI, P. S. Realization of the Party directions. (Rus) *Mekh. Elek. Sots. Sel. Khoz.* 10:27-28. 1967. 58.8 M46  
Electrification policies.
- 83582 STEYN, F. G. Economic aspects of the use of electricity on farms. *Agrekon* 7(1):19-24. Jan. 1968. 281.8 Ag835  
Includes consumption and costs.
- 83583 STRAW, R. J. Yesterday and tomorrow: growth of rural electric cooperatives and privately-owned electric utilities compared. *Rural Elec.* 26(3):18-20. Dec.1967. 335.8 N21
- 83584 U. S. RURAL ELECTRIFICATION ADMIN. Report of the Administrator 1967. Washington, 1968. 50 p. 173.2 R88A
- Heating, Lighting, and Radiation
- 83585 CURTIN, P. J. Outdoor lighting on the farm. (Condensed.) *Agr. Eng.* 49(5):294-295. May 1968. 58.8 Ag83
- Power Plants, Motors and Engines on the Farm
- 83586 ANDERT, A. Study of the development and concept of energetic basis for Czechoslovak agriculture up to 1980. (Cz) *Czech. Min. Zemedel. Les. Hospodar. Ustav Vedeckotech. Inform. Zemedel. Tech.* 41(1):1-18. Ref. Jan.1968. 58.9 C333  
English summary.  
Electric power and motors, engines and fuels.
- 83587 BYSTRITSKII, D. N., PAVLOV, A. V., and EGIAZAROV, A. G. Selecting electric motor for ventilation system with equal air distribution. (Rus) *Mekh. Elek. Sots. Sel. Khoz.* 12:36-39. 1967. 58.8 M46  
In livestock housing.
- 83588 MUSIN, A. M. Mechanical characteristics and resistance of asynchronous motors, supplied by farm electric power. (Rus) *Mekh. Elek. Sots. Sel. Khoz.* 12:33-36. 1967. 58.8 M46
- 83589 SHAPOVALOV, A. T. Characteristic of the power-driven working motors. (Rus) *Mekh. Elek. Sots. Sel. Khoz.* 12:40-41. 1967. 58.8 M46  
Electric.
- 83590 SOUTHWELL, P. H., and JACKSON, D. J. Diesel injection systems. *Ontario. Dep. Agr. Publ.* 89,12 p. Feb.1968. 7 On8P
- Sewage and Waste Disposal
- 83591 ZUNDEL, R. Landscape care problems of sewage utilization. (Ge) *Forst- Holzwirt* 23(4): 64-65. Feb.23,1968. 99.8 F7724  
Includes disposal.
- Water Supply
- 83592 COX, D. A. Water quality counts. *Dairyfarming Dig.* 15(2):29-31. Mar./Apr.1968. 44.8 D1443
- 83593 GAVRILKO, V. M., and others. Highspeed boring with rotary drilling rigs. (Rus) *Gidrotekh. Melior.* 11:104-117. Nov.1967. 290.8 G362  
N. D. Bessonov, V. M. Kavatsyuk, and D. I. Solyanik, joint authors.  
Wells.
- 83594 GUL'VANTS, G. M. Methods of lowering polyethylene pipes into wells. (Rus) *Gidrotekh. Melior.* 3:94-97. Mar.1968. 290.8 G362
- 83595 LAING, I. A. F. Water supplies in the West Midlands. *West. Australia. Dep. Agr. J. (ser.4)* 9(1):18-21. Jan.1968. 23 W52J  
For the farms in Australia.
- 83596 LUDWIG, H. F., and JORGENSEN, A. W. Package approach to the development of rural water supplies. (Sp) *Ofic. Sanit. Panamer. Bol.* 64 (6):509-518. June 1968. 449.9 P192B  
English summary.
- 83597 MAREEV, A. N., and USAKOVSKII, V. M. Mechanization of well cleaning on the distant pastures. (Rus) *Gidrotekh. Melior.* 12:77-80. Dec.1967. 290.8 G362
- 83598 OROSZLANY, I. Relation of the level of production and water management in agriculture. (Hu) *Agrartud. Kozlem.* 27(1/2):227-234. 1968. 19 B855



## ENTOMOLOGY

Contains references chiefly on general entomology, and taxonomic and geographic entomology. Some references on pests of crops and products are included in the Bibliography, but for more detailed coverage of the literature on pests and their control, consult the Pesticides Documentation Bulletin, a biweekly publication of the National Agricultural Library.

GENERAL ENTOMOLOGY  
(EXCEPT TAXONOMIC AND GEOGRAPHIC)

- 83599 BARYSHNIKOVA, Z. P. Comparative susceptibility to injuries of different plants in herbarium. (Rus) Bot. Zhur. [Moscow] 53(3):380-382. 1968. 451 R923  
Caused by insects.
- 83600 BIGELOW, R. S. Population genetics and ecology. New Entomol. 4(1):7-12. Dec.1967, pub.Mar.1968. 421 N48
- 83601 BURGMANS, J. Embedding entomological specimens in an improved polyester resin. New Entomol. 4(1):61-66. Dec.1967, pub.Mar. 1968. 421 N48
- 83602 CAITHNESS, T. A. Insects and birds on two New Zealand airfields. New Entomol. 4(1):19-23. Dec.1967, pub.Mar.1968. 421 N48  
Problem of eliminating insect species favored by the birds which are a hazard to aircraft.
- 83603 CANADA, DEPT OF AGRICULTURE. ENTOMOLOGY LABORATORY, CHATHAM. Research report, 1962-1964. Ottawa, 1967. 20 p. S155.E2
- 83604 CHINO, H. Energy metabolism in insects. (Ja) Zool. Soc. Jap. Zool. Mag. 77(1):1-11. Ref. Jan.1968. 410.9 T57
- 83605 CURTIS, C. F. Possible use of translocations to fix desirable genes in insect pest populations. Nature 218(5139):368-369. Apr.27,1968. 472 N21
- 83606 DAHM, K. H., ROLLER, H., and TROST, B. M. The juvenile hormone. IV. Stereochemistry of juvenile hormone and biological activity of some of its isomers and related compounds. Life Sci. 7(4):129-137. Feb.15,1968. 442.8 L62  
Insects.
- 83607 FRYE, R. D. In the laboratory; bacterial disease effective against several insects. N. Dak. Farm Res. 25(4):12-13. Mar/Apr.1968. 100 N813B  
Bacillus thuringiensis.
- 83608 GURDON, J. B., and WOODLAND, H. R. The cytoplasmic control of nuclear activity in animal development. Cambridge Phil. Soc. Biol. Rev. 43(2):233-267. May 1968. 442.9 C14  
Review of the literature.  
Includes insects.
- 83609 HARRISON, R. A. Training ecologists in the University. New Entomol. 4(1):3-7. Dec.1967, pub.Mar.1968. 421 N48
- 83610 HIDAKA, T. Endocrine control of coloration in insects. (Ja) Zool. Soc. Jap. Zool. Mag. 76(6): 175-180. Ref. June 1967. 410.9 T57
- 83611 HIGHNAM, K. C. An insect for all seasons. New Sci. 38(597):353-355. May 16,1968. 472 N42  
Study of the neurosecretory system.
- 83612 HOFFMAN, G. L. Parasites of North American freshwater fishes. Berkeley, University of California Press, 1967. 486 p. SH175.H6  
Bibliography, p.407-467.  
Includes insect predators.
- 83613 IONESCU, M. Some of the most important pests of crops of lucerne. (Rum) Probl. Agr. [Bucharest] 20(2):70-75. 1968. 21 R862
- 83614 KELSEY, J. M. Sampling pasture insects. New Entomol. 4(1):12-19. Dec.1967, pub.Mar. 1968. 421 N48
- 83615 KENTUCKY, UNIVERSITY. AGRICULTURAL EXTENSION SERV. 1968 insecticide recommendations for tobacco beds. Ky. Univ. Ext. Misc. 251-F, rev., 1 p. Jan.1968. 275.29 K415M
- 83616 LEFKOVITCH, L. P. A theoretical evaluation of population growth after removing individuals from some age groups. Bull. Entomol. Res. 57(3):437-445. Ref. Nov.1967. 421 B87  
Insect populations.
- 83617 LINLEY, J. R., and EVANS, F. D. S. A simple device to aid time-lapse studies with insects. Entomol. Soc. Amer. Ann. 61(3):775-777. May 1968. 420 En82
- 83618 LOWE, A. D. A suggested norm for procedure in quantitative ecology studies. New Entomol. 4(1):24-26. Dec.1967, pub.Mar.1968. 421 N48
- 83619 MITSUHASHI, J. Present state of insect tissue culture. 32 p. Ref. Transl. 16704.  
Translation from Plant Protection 18(9/10): 359-366, 419-422. Sept./Oct.1964.
- 83620 MOUNTIER, N. S. Why bring in statistics? New Entomol. 4(1):28-30. Dec.1967, pub.Mar. 1968. 421 N48
- 83621 PANTELLOURIS, E. M. Introduction to animal physiology and physiological genetics. Oxford, Pergamon Press, 1967. 497 p. (International Series of Monographs on Pure and Applied Biology. Division: Zoology, v. 32) QP31.P3  
Bibliography, p.485-491.  
Includes insects and livestock.
- 83622 RODENDORF, B. B. Trends in phylogenetic development of pterygote insects. (Rus) Zhur. Obshch. Biol. 29(1):57-67. Jan./Feb.1968. 442.8 Z6  
English summary.
- 83623 ROSS, K. F. A. Phase contrast and interference microscopy for cell biologists. New York, St. Martin's Press, 1967. 238 p. Ref. QH212.J5R6  
Includes some insects.
- 83624 SALT, G. The resistance of insect parasitoids to the defence reactions of their hosts. Cambridge Phil. Soc. Biol. Rev. 43(2):200-232. May 1968. 442.9 C14  
Review of the literature.
- 83625 SCHEIBNER, R. A., and PASS, B. 1968 insecticide recommendations for field corn, small grains, grain sorghum, and bluegrass. Ky. Univ. Ext. Misc. 278-E, rev., 2 p. Mar.1968. 275.29 K415M
- 83626 SOCIETE ROYALE D'ENTOMOLOGIE DE BELGIQUE. List of members, February 1967. (Fr) Soc. Roy. Entomol. Belg. Bull. Ann. 103: 5-18. 1967. 420 B41
- 83627 STRAUS, A. Petrified paradise. (Ge) Kosmos 64(2):78-81. Feb.1968. 474 K842  
Includes insects and plants.
- 83628 STUBBS, A. E. The future of field meeting localities in Surrey. S. London Entomol. Natur. Hist. Soc. Proc. Trans. 1967(4):95-97. Dec. 1967. 420 So8  
Nature preserves for maintaining insect habitats; includes multiple land use.
- 83629 SYMPOSIUM: THE PRINCIPLES OF QUANTITATIVE ECOLOGY AND THEIR APPLICATION IN ENTOMOLOGY, 1967, LINCOLN, NEW ZEALAND. [Papers.] New Zeal. Entomol. 4 (1):1-26. Dec.1967, pub.Mar.1968. 421 N48
- 83630 TRAVIS, B. V. Glyptal—a useful slide ringing compound. J. Med. Entomol. 5(1):24. Feb. 1968. 421 J828
- 83631 VOLK, S., and BOMBOSCH, S. Orientating investigation of the influence of crop rotation on the multiplication of pea pests. (Ge) Anz. Schadlingskunde 41(4):57-63. Apr.1968. 421 An9  
Sitona lineata, Thysanoptera, and Contarinia pisi.

- 83632 VSESOYUZNOE ENTOMOLOGICHESKOE OB-SHCHESTVO. Report on the activities of the All-Union Entomological Society of the Academy of Sciences of the USSR for 1965. 10 p. (JPRS 39,350; TT 67-30001) Transl. 16547  
Translation from Entomologicheskoe Obozrenie 45(2):461-464. 1966.  
Issued by CFSTL.
- 83633 WASHINO, R. K., and HOKAMA, Y. Quantitative sampling of aquatic insects in a shallow water habitat. Entomol. Soc. Amer. Ann. 61(3):785-786. May 1968. 420 En82
- 83634 WILSON, E. O. The ergonomics of caste in the social insects. Amer. Natur. 102(923):41-66. Ref. Jan./Feb.1968. 470 Am36
- 83635 WIRTH, W. W., and MARSTON, N. A method for mounting small insects on microscope slides in Canada balsam. Entomol. Soc. Amer. Ann. 61(3):783-784. May 1968. 420 En82
- 83636 YANG, R. S. H., and KARE, M. R. Taste response of a bird to constituents of arthropod defensive secretions. Entomol. Soc. Amer. Ann. 61(3):781-782. May 1968. 420 En82
- 83637 ZWOLFER, H., and PSCHORN-WALCHER, H. How do insect parasites behave toward introduced hosts, foreign to the fauna? (Ge) Anz. Schadlingskunde 41(4):51-55. Apr.1968. 421 An9  
English summary.
- General Entomology  
Arachnida, Myriapoda, etc.
- 83638 ABUSHAMA, F. T. E. On the detection of prey by scorpions. Entomol. Mon. Mag. 103 (1241/1243):237-238. Oct./Dec.1967, pub. Mar.30,1968. 421 En86  
Behavior of *Leiurus quinquestriatus*.
- 83639 AVERY, D. J., and BRIGGS, J. B. The aetiology and development of damage in young fruit trees infested with fruit tree spider mite, *Panonychus ulmi* (Koch). Ann. Appl. Biol. 61(2):277-288. Ref. Apr.1968. 442.8 An72  
Feeding habits on plums and apples.
- 83640 BAILEY, C. L., and CHADA, H. L. Spider populations in grain sorghums. Entomol. Soc. Amer. Ann. 61(3):567-571. May 1968. 420 En82  
Includes their role in insect control.
- 83641 BARTH, R. Histological study of the poison glands of the *Scolopendra viridicornis* Newp. (Ge) Acad. Brasil. Cienc. An. 39(1):179-193. Ref. 1967. 516 R473A
- 83642 BRIGGS, J. B., and AVERY, D. J. Effects of infestation with fruit tree spider mite, *Panonychus ulmi* (Koch), on the growth and cropping of young fruit trees. Ann. Appl. Biol. 61(2):269-276. Apr.1968. 442.8 An72  
Includes effects on yield and fruit-set of apple and plum trees.
- 83643 CLOUDSLEY-THOMPSON, J. L. The water-relations of scorpions and tarantulas from the Sonoran Desert. Entomol. Mon. Mag. 103 (1241/1243):217-220. Oct./Dec.1967, pub. Mar.30,1968. 421 En86  
*Hadrurus hirsutus* and *Eurypelma* sp. (Theraphosidae) compared with some African arachnids.
- 83644 DAS, G. M., and DAS, S. C. Effect of temperature and humidity on the development of tea red spider mite, *Oligonychus coffeae* (Nietner). Bull. Entomol. Res. 57(3):433-436. Nov.1967. 421 B87
- 83645 DI JESO, F., LAUDANI, U., and UGAZIO, A. Identification and quantity determination of phosphagens in *Tegeneria domestica*. (Fr) Paris. Soc. Biol. Compt. Rend. 161(6):1312-1313. 1967. 442.9 P21
- 83646 HAGSTRUM, D. W. The molting behavior of the black widow spider, *Latrodectus mactans*. Entomol. Soc. Amer. Ann. 61(3):591-593. May 1968. 420 En82
- 83647 HERNE, D. H. Some responses of the European red mite *Panonychus ulmi*, to immersion in water. Can. Entomol. 100(5):540-541. May 1968. 421 C16  
Mortality study.
- 83648 HORNER, N. V., and STEWART, K. W. Life history of the brown spider, *Loxosceles reclusa* Gertsch and Mulaik. Tex. J. Sci. 19(4):333-347. Ref. Dec.31,1967. 470 T31
- 83649 JUBERTHIE, C. Experimental teratology in a harvestman [*Odiellus gallicus*] (Arachnida). (Fr) J. Embryol. 19(1):49-82. Ref. Feb.1968. 442.8 J829  
English summary.
- 83650 KLEE, G. E., and BUTCHER, J. W. Laboratory rearing of *Phalangium opilio* (Arachnida: Opiliones). Mich. Entomol. 1(8):275-278. June 1968. QL461.M5
- 83651 MACHAN, L. Studies on structure and electrophysiology of scorpion eyes. S. Afr. J. Sci. 63 (12):512-520. Dec.1967. 515 So84
- 83652 MATIC, Z., and DARABANTU, C. A contribution to the study of genera *Strigamia*, *Pachymerium* and *Dicelloglyphus* (Chilopoda) of Romania's fauna. (Rum) Cluj. Univ. Babes-Bolyai. Stud. Ser. Biol. 13(1):91-94. 1968. 442.9 C62  
English summary.
- 83653 MCCLANAHAN, R. J. Influence of temperature on the reproductive potential of two mite predators of the two-spotted spider mite. Can. Entomol. 100(5):549-556. Ref. May 1968. 421 C16  
*Phytoseiulus persimilis* and *Typhlodromus fallacis*.
- 83654 MIKULSKA, I., and JACUNSKI, L. Fecundity and reproduction activity of the spider *Tegeneria atrica* C. L. Koch. Zool. Pol. 18(1):97-106. 1968. 410 Z712
- 83655 MITCHELL, C. J. Biological studies on *Laelaps myonyssognathus* G. & N. (Acarina: Laelapidae). J. Med. Entomol. 5(1):99-107. Ref. Feb.1968. 421 J878
- 83656 MITCHELL, C. J., and SPILLETT, J. J. Ecological notes on *Rhipicephalus turanicus* Pomerantzev in West Bengal, India (Acarina: Ixodidae). J. Med. Entomol. 5(1):5-8. Feb.1968. 421 J828
- 83657 MONTGOMERY, G. G. Rate of tick [*Dermacentor variabilis*] attachment to a white-tailed fawn. Amer. Midland Natur. 79(2):528-530. Apr.1968. 410 M58
- 83658 MOSKACHEVA, E. A. Depth of soil inhabited by oribatids (Acariformes, Oribatei). (Rus) Zool. Zh. 46(9):1400-1405. Ref. Sept.1967. 410 R92  
English summary.
- 83659 OLIVER, J. H. Cytogenetics of ticks. 4. Chromosomes of *Argas (Persicargas) zumpti*. Entomol. Soc. Amer. Ann. 61(3):787-788. May 1968. 420 En82
- 83660 POZO, E. C. DEL. Pharmacological properties of venoms of Mexican Centruroides. (Sp) Rev. Invest. Salud. Publ. 28(1):51-66. Ref. Jan./Mar.1968. 449.9 M572  
English summary.
- 83661 SHALDYBINA, E. S. A contribution to the biology of *Sphaerzetes orbicularis* (Koch.) (Oribatei, Ceratozetidae). (Rus) Zool. Kh. 47(4):541-547. Apr.1968. 410 R92  
English summary.
- 83662 SONENSHINE, D. E., and STOUT, J. Tick burdens in relation to spacing and range of hosts in *Dermacentor variabilis*. J. Med. Entomol. 5(1):49-52. Ref. Feb.1968. 421 J828  
White-footed mice in Virginia.
- 83663 SONENSHINE, D. E., and STOUT, I. J. Use of old-field habitats by the American dog tick, *Dermacentor variabilis*. Entomol. Soc. Amer. Ann. 61(3):679-690, map. Ref. May 1968. 420 En82  
Distribution of populations in Virginia.



- 83664 STACHURSKI, A., and ZIMKA, J. Food preference of frogs and the sex ratio in populations of some saprophages (Diplopoda, Isopoda). Acad. Polon. Sci. Bull. Ser. Sci. Biol. 16(2):101-105. 1968. 512 W262  
Ligidium hypnorum, Polydesmus complanatus, and Glomeris connexa.
- 83665 TORRES, F., and HEATWOLE, H. Orientation of some scorpions and tailless whip-scorpions [Pedipalpid]. Z. Tierpsychol. 24(5):546-557. Ref. Nov.1967. 410 Z35
- 83666 TRAVE, J. On the existence of unpigmented lateral eyes in Eobrachychthonius Jacot (Oribatel). (Fr) Acarologia 10(1):151-158. Ref. Jan.1968. 434.8 Ac1  
English summary.
- 83667 TSKITISHVILI, M. K. Tetranychus fauna on the woody plants in Tiflis (Acari, Tetranychidae). (Rus) Akad. Nauk Gruz. SSR. Soobshch. 48(3): 699-704. Ref. Dec.1967. 511 AK146  
Includes Cenopalpus n. sp.
- General Entomology  
Coleoptera
- 83668 AMOS, T. G. Some observations on locomotory activity of Carpophilus hemipterus L. and C. dimidiatus F. (Col., Nitidulidae). Entomol. Mon. Mag. 103(1241/1243):241-244. Ref. Oct./Dec.1967, pub. Mar. 30, 1968. 421 En86
- 83669 BAKKE, A. Ecological studies on bark beetles (Coleoptera: Scolytidae) associated with Scots pine (Pinus sylvestris L.) in Norway with particular reference to the influence of temperature. (No) Norway. Skogforsoksv. Medd. 83: 441-602, map. Ref. 1968. 99.9 N833
- 83670 BECKER, H. The distribution of Hylotrupes bajulus (L.) Serville (Col., Cermabicydae). (Ge) Z. Angew. Entomol. 61(3):253-281, map. Apr.1968. 421 Z36  
English summary.  
Bibliography, p.275-281.
- 83671 BUROV, V. N. The role of population density in the dynamics of the pea beetle Bruchus pisorum L. (Coleoptera, Bruchidae) abundance. (Rus) Zool. Zh. 46(9):1357-1361. Ref. Sept.1967. 410 R92  
English summary.
- 83672 CARLSON, A. D. Effects of adrenergic drugs on the lantern of the larval Photuris firefly. J. Exp. Biol. 48(2):381-387. Apr.1968. 442.8 B77
- 83673 CARVALHO, E. L. DE. African paussid beetles in the collection of the California Academy of Sciences (Coleoptera: Carabidae, Paussinae). Calif. Acad. Sci. Proc. (ser.4)35(15):321-336. Feb.21,1968. 500 C12P
- 83674 CAUSSANEL, C., and DAJOZ, R. Morphology and biology of a Coleoptera from sandy beaches; Callicnemis latreillei Cast. (Scarabaeidae) Dynastinae. (Fr) Cah. Natur. (n.s.)23(2):25-37. Ref. 1967. 410 F432
- 83675 COHEN, E., and LEVINSON, H. Z. Disrupted fertility of the hidebeetle Dermestes maculatus (Deg) due to the dietary overdosage of biotin. Experientia 24(4):367-368. Apr.15,1968. 475 Ex7
- 83676 DAJOZ, R. Notes on Elateridae (Coleoptera). I-III. (Fr) Cah. Natur. (n.s.)23(2):49-50. 1967. 410 F432  
Zoroehrus alysidotus, Drasterius bimaculatus and Compsolacon crenicollis, their distribution.
- 83677 DAWSON, P. S. Xenocide, suicide, and cannibalism in flour beetles. Amer. Natur. 102 (924):97-105. Ref. Mar./Apr.1968. 470 Am36  
Tribolium castaneum and T. confusum.
- 83678 DICKASON, E. A. Observations on the biology of Gymnaetron pascuorum (Gyll.) (Coleoptera: Curculionidae). Coleopt. Bull. 22(1):11-15. Mar.1968. 421 C674  
In Oregon on its host plant Plantago lanceolata.
- 83679 DOLIN, V. G., and NADVORNYI, V. G. The larva of Orithales serraticornis Payk. (Coleoptera, Elateridae). (Rus) Zool. Zh. 46(9):1409-1411. Sept.1967. 410 R92  
English summary.
- 83690 DUNKEL, F. V., and BOUSH, G. M. Studies on the internal anatomy of the black carpet beetle, Attagenus megatoma. Entomol. Soc. Amer. Ann. 61(3):755-765. May 1968. 420 En82  
Histology and anatomy of the digestive tract.
- 83691 EISNER, T., and others. Defense mechanisms of Arthropods. XXI. Formic acid and n-Nonyl acetate in the defensive spray of two species of Heliomorphoides. Entomol. Soc. Amer. Ann. 61(3):610-613. Ref. May 1968. 420 En82  
Y. C. Meinwald, D. W. Alsop, and J. E. Carrel, joint authors.  
Heliomorphoides ferrugineus and H. latitarsis.
- 83692 FENDER, K. M., and MCCARLEY, L. J. The internal sac of the aedeagus of Podabrus (Coleoptera: Cantharidae). Coleopt. Bull. 22 (1):20-27. Mar.1968. 421 C674
- 83693 FRANK, J. H. Notes on the biology of Philonthus decorus (Grav.) (Col., Staphylinidae). Entomol. Mon. Mag. 103(1241/1243):273-277. Ref. Oct./Dec.1967, pub. Mar. 30, 1968. 421 En86
- 83694 GERBER, G. H. A possible mechanism for the regulation of the female reproductive cycle in Tenebrio molitor (Coleoptera: Tenebrionidae). Can. Entomol. 99(12):1298-1303. Ref. Dec. 1967. 421 C16  
In the neurosecretory system.
- 83695 GURCHIAN, P. P. Study of distribution and the negative meaning of striped ambrosia beetle (Trypodendron lineatum Ol.) in the upper Svanetia. (Geo) Akad. Nauk Gruz. SSR. Soobshch. 49(3):683-688. Mar.1968. 511 Ak146
- 83696 HANSEN, W. On some toxic elements in Coleoptera, their effect and application. (Fr) Soc. Roy. Entomol. Belg. Bull. Ann. 103:33-52. Ref. 1967. 420 B41
- 83697 HORRIDGE, G. A. Pigment movement and the crystalline threads of the firefly [Photuris versicolor] eye. Nature 218(5143):778-779. May 25,1968. 472 N21
- 83698 KALYANAM, N. P., and SHANMUGHAM, K. Histo-morphology of the ovariole in Pheropsophus hylaris, Fabr. (Carabidae: Coleoptera). Cur. Sci. 37(4):105-106. Feb.20,1968. 475 Sci23
- 83699 KOLONITS, J. Preparation for the expected swarming of Melolontha melolontha L. in 1968. (Hu) Erdo 17(2):81-83. Feb.1968. 99.8 Er22  
German summary.
- 83690 KOPLIN, J. R. Predatory and energetic relations of woodpeckers to the Engelmann spruce beetle [Dendroctonus obesus]. Fort Collins, Colorado, 1967. 187 p. SB996.W6K6  
Thesis—Colorado State University.  
Bibliography, leaves 179-187.  
In Colorado forests.
- 83691 LANIER, G. N. Ips plastographus (Coleoptera: Scolytidae) tunnelling in sapwood of lodgepole pine [Pinus contorta] in California. Can. Entomol. 99(12):1334-1335. Dec.1967. 421 C16
- 83692 MAILLARD, Y. P. Demonstration of modified ovarian region in the silk gland of Hydrophilidae; comparative anatomical data. (Fr) Acad. Sci. C. R., Ser. D, 266(5):500-502. Jan.29,1968. 505 P21
- 83693 MCDANIEL, B., and BALSBAUGH, E. U. Bovine manure as an overwintering medium for Coleoptera in South Dakota. Entomol. Soc. Amer. Ann. 61(3):765-768. Ref. May 1968. 420 En82
- 83694 NEBOISS, A. Larva and pupa of Cupes varians Lea, and some observations on its biology (Coleoptera; Cupedidae). Melbourne. Nat. Mus. Victoria. Mem. 28:17-20. 1968. 514 M484

- 83695 NORDLANDER, R. H., and EDWARDS, J. S. Morphological cell death in the post-embryonic development of the insect optic lobes. *Nature* 218(5143):780-781. May 25, 1968. 472 N21  
Tenebrio, Miastor, and Danaus plexippus.
- 83696 PAVOUR-SMITH, K. A "summer" development time for *Cis bilamellatus* Wood (Col., Ciidae). *Entomol. Mon. Mag.* 103(1241/1243):247-249. Oct./Dec. 1967, pub. Mar. 30, 1968. 421 En86  
In tree-inhabiting fungus *Polyporus betulinus*.
- 83697 PLANT, P. J., WHITE, E. H., and MCELROY, W. D. The decarboxylation of luciferin in firefly [*Photinus pyralis*] bioluminescence. *Biochem. Biophys. Res. Commun.* 31(1):98-103. Ref. Apr. 5, 1968. 442.8 B5236
- 83698 PYE, A. E., and YENDOL, W. G. Bacteria in the digestive tract of alfalfa weevil [*Hypera postica*] larvae. *Entomol. Soc. Amer. Ann.* 61(3):791-792. May 1968. 420 En82
- 83699 RAO, B. R. S., MATHUR, S. B., and SRIVASTAVA, R. P. The susceptibility of *Hypera postica* (Gyll.) to *Beauveria denisa* (Link) Picard. *Acta Phytopathol.* 3(1):51-57. Ref. 1968. SB731.A3
- 83700 ROBERTS, C. W., and JURILOFF, D. Evidence for gene homology of two pearl-eyed genes in *Tribolium castaneum* and *Tribolium confusum*. *Can. J. Genet. Cytol.* 10(1):139-142. Ref. Mar. 1968. 443.8 C16
- 83701 ROZHKOVA, A. A. May beetles. (Rus) *Zashch. Rast.* 5:49. 1968. 421 Z1  
Dissemination of *Melolontha melolontha*.
- 83702 SANKARAN, T., and KRISHNA, K. The biology of *Nanophyes* sp. (Col., Curculionidae) infesting *Jussiaea repens* in India. *Bull. Entomol. Res.* 57(3):337-342. Nov. 1967. 421 B87  
Potential agent for biological control.
- 83703 SAUNDERS, J. L., and KNOKE, J. K. Circadian emergence rhythm of a tropical scolytid, *Xyleborus ferrugineus*. *Entomol. Soc. Amer. Ann.* 61(3):587-590. May 1968. 420 En82
- 83704 SCHILDKNECHT, H., MASCHWITZ, U., and WINKLER, H. The evolution of scent secretion in Carabidae. XXXII. (Ge) *Naturwissenschaften* 55(3):112-117. Ref. Mar. 1968. 474 N213
- 83705 SHAW, D. D. Selection for supernumerary Y-chromosomes in *Dermestes maculatus* (Coleoptera: Dermestidae). *Can. J. Genet. Cytol.* 10(1):54-62. Ref. Mar. 1968. 443.8 C16
- 83706 SOANS, A. B., and SOANS, J. S. Observation on the rate of heart-beat in the various stages of the tiger beetle, *Cicindela cancellata* Dej. *Cur. Sci.* 37(4):108. Feb. 20, 1968. 475 Sci23
- 83707 VAGO, C., and others. Electron microscope study of the inclusion of spindle virus in Coleoptera. (Fr) *Acad. Sci. C. R. Ser. D.* 266(20):2126-2128. Ref. May 13, 1968. 505 P21  
M. Bergoin, G. Devauchelle, and J. L. Duthoit, joint authors.  
In *Melolontha melolontha*.
- 83708 VILLACIS SANTOS, J. Some biological and ethological characters of *Alurnus humeralis* Rosenberg. (Sp) *Oleagineux* 23(3):159-164. Mar. 1968. 77.8 OL2  
English summary.
- 83709 WEISER, J. *Plistophora scolyti* n. sp. (Protozoa, Microsporidia), a new parasite of *Scolytus scolytus* F. (Col., Scolytidae). *Folia Parasitol.* 15(1):11-14. 1968. 436.8 C33
- 83710 WHITE, C. E. A brood of *Callidium texanum* Schaeffer (Cerambycidae). *Coleopt. Bull.* 22(1):31-32. Mar. 1968. 421 C674  
137 individuals from a branch of *Juniperus virginiana*.
- 83711 WHITE, R. E. *Micromalthus debilis* LeConte (Micromalthidae). *Coleopt. Bull.* 22(1):32. Mar. 1968. 421 C674  
May be found in moist, red, rotten oak.
- 83712 WICKMAN, B. E. The biology of the fir tree borer, *Semanotus litigiosus* (Coleoptera: Cerambycidae), in California. *Can. Entomol.* 100(2):208-220, map. Feb. 1968. 421 C16
- 83713 WILLIAMS, E. C., and REICHLE, D. E. Radio-active tracers in the study of energy turnover by a grazing insect (*Chrysochus auratus* Fab.; Coleoptera, Chrysomelidae). *Oikos* 19(1):10-18. Ref. 1968. 410 Oi4
- 83714 WOODROFFE, G. E. *Pissodes castaneus* (Deg.) (Col., Curculionidae) transported by helicopter. *Entomol. Mon. Mag.* 103(1241/1243):244. Oct./Dec. 1967, pub. Mar. 30, 1968. 421 En86  
To Scilly Islands.
- 83715 YINON, U., and SHULOV, A. The humidity responses of *Trogoderma granarium* Everts (Col., Dermestidae). *Bull. Entomol. Res.* 57(3):451-458. Ref. Nov. 1967. 421 B87

# General Entomology Diptera

- 83716 BALAZS, I., and AGOSIN, M. The effect of 1,1,1-Trichloro-2,2-bis(p-chlorophenyl)ethane on ribonucleic acid metabolism in *Musca domestica* L. *Biochim. Biophys. Acta* 157(1):1-7. Ref. Mar. 18, 1968. 381 B522
- 83717 BRAUN, V., FORMANEK, H., and BRAUNITZER, G. On hemoglobins. XIV. Isolation and crystallization of an insect hemoglobin from *Chironomus thummi*. (Ge) *Hoppe-Seyler's Z. Physiol. Chem.* 349(1):45-53. 1968. 384 Z38  
English summary.
- 83718 CHIANG, H. C. Ecology of insect swarms. V. Movement of individual midges *Anarete pritchardi*, within a swarm. *Entomol. Soc. Amer. Ann.* 61(3):584-587. May 1968. 420 En82
- 83719 COUNCE, S. J. Development of composite eggs in *Miastor* (Diptera: Cecidomyiidae). *Nature* 218(5143):781-782. Ref. May 25, 1968. 472 N21
- 83720 DONAHUE, J. P. *Geron calvus* (Diptera: Bombyliidae), a parasite of *Solenobia walshella* (Lepidoptera: Psychidae) in Michigan. *Mich. Entomol.* 1(8):284. June 1968. QL461.M5
- 83721 DUSA, L. A contribution to the study of mouth parts of Bombyliidae. (Rum) *Cluj. Univ. Babes-Bolyai. Stud. Ser. Biol.* 13(1):79-83. 1968. 442.9 C62  
English summary.
- 83722 GREENBERG, B. Model for destruction of bacteria in the midgut of blow fly [*Calliphora vicina*] maggots. *J. Med. Entomol.* 5(1):31-38. Ref. Feb. 1968. 421 J828
- 83723 GRUZDEV, A. D., and BELAYA, A. N. Effect of hydrogen ion concentration, tonicity and ionic strength of solutions on the size of polytene chromosomes. (Rus) *Tsitologiya* 10(3):297-305. Ref. Mar. 1968. 442.8 T78  
English summary.  
Sodium chloride solutions, effects on *Chironomus dorsalis*.
- 83724 HANSFORD, R. D., and CHAPPELL, J. B. The energy-dependent accumulation of phosphate by blowfly [*Calliphora vomitoria*] mitochondria and its effect on the rate of pyruvate oxidation. *Biochem. Biophys. Res. Commun.* 30(6):643-648. Mar. 27, 1968. 442.8 B5236
- 83725 HORBER, E. The yellow gout fly (*Chlorops pumilionis* Bjerk.), a pest of wheat and barley. (Ge) *Mitt. Schweiz. Landwirt.* 16(4):76-80. Apr. 1968. 17 M69
- 83726 HOUSE, H. L. The role of nutritional factors in food selection and preference as related to larval nutrition of an insect, *Pseudosarcophaga affinis* (Diptera, Sarcophagidae), on synthetic diets. *Can. Entomol.* 99(12):1310-1321. Ref. Dec. 1967. 421 C16.
- 83727 KONSTANTINOV, A. S. Rearing chironomids [*Chironomus dorsalis*] in the laboratory. (Rus) *Zool. Zh.* 47(4):626-627. Apr. 1968. 410 R92  
English summary.
- 83728 LANGLEY, P. A. Digestion in the tsetse fly *Glossina morsitans* Westw.: the effect of feeding field-caught flies on guinea pigs in the laboratory. *Bull. Entomol. Res.* 57(3):447-450. Nov. 1967. 421 B87



- 83729 LITVINOVA, N. F. Materials on biology and ecology of *Caliphora lata* Coq. (Family Calliphoridae, Diptera) in the Blagoveshchensk and its suburbs. (Rus) Med. Parazitol. Parazitarn. Bolezni 37(2):223-226. Mar./Apr.1968. 448.8 M469
- 83730 LEE, V. H. Parthenogenesis and autogeny in *Culicoides bambusicola* Lutz (Ceratopogonidae, Diptera). J. Med. Entomol. 5(1):91-93. Feb. 1968. 421 J828
- 83731 LINLEY, J. R. Autogeny and polymorphism for wing length in *Leptoconops bequaerti* (Kieff.) (Diptera: Ceratopogonidae). J. Med. Entomol. 5(1):53-66. Ref. Feb.1968. 421 J828
- 83732 MATSUMOTO, Y., and THORSTEINSON, A. J. Effect of organic sulfur compounds on oviposition in onion maggot, *Hylemya antiqua* Meigen (Diptera: Anthomyiidae). Appl. Entomol. Zool. 3(1):5-12. Mar.1968. SB599.A6
- 83733 MELAMED, J., and TRUJILLO-CENOZ, O. The fine structure of the central cells in the ommatidia of dipterans. J. Ultrastruct. Res. 21(3/4):313-334. Ref. Dec.12,1967. 440.8 J822
- 83734 MILLER, T. A., and TREECE, R. E. Gonadotropic cycles in the face fly, *Musca autumnalis*. Entomol. Soc. Amer. Ann. 61(3):690-696. May 1968. 420 En82
- 83735 MIYAZAKI, S., BOUSH, G. M., and BAERWALD, R. J. Amino acid synthesis by *Pseudomonas melophthora*, bacterial symbiote of *Rhagoletis pomonella* (Diptera). J. Insect. Physiol. 14(4):513-518. Ref. Apr.1968. 421 J825
- 83736 NASH, T. A. M., JORDAN, A. M., and BOYLE, J. A. A method of maintaining *Glossina austeni* Newst. singly, and a study of the feeding habits of the female in relation to larviposition. Bull. Entomol. Res. 57(3):327-336. Nov.1967. 421 B87
- 83737 NESTEROVA, S. I. The investigation of giant chromosomes in some species of Chironomidae (Diptera). (Rus) Tsitologiya 9(5):524-529. Ref. May 1967. 442.8 T78  
English summary.
- 83738 PLATZER-SCHULTZ, I. On the problems of haemoglobin function for respiration of the tropical chironomid larva *Chironomus strenzkei* Fittkau (Diptera). (Ge) Z. Vergleichende Physiol. 58(2):229-240. Ref., p.237-240. 1968. 444.8 Z3
- 83739 POINAR, G. O. *Hydromeris conopophaga*, n. sp., parasitizing midges (Chironomidae) in California. Entomol. Soc. Amer. Ann. 61(3):593-598. Ref. May 1968. 420 En82  
Tanytarsus.
- 83740 RADU, V. GH., and DAN, F. The larvae of Diptera in soils treated with organic and mineral fertilizers. Asilidae (Diptera, Brachycera). (Rum) Cluj. Univ. Babes-Bolyai. Stud. Ser. Biol. 13(1):69-74. Ref. 1968. 442.9 C62  
French summary.
- 83741 REZABOVA, B., and others. On steroids. CXIII. Sterilizing effect of some 6-ketosteroids on housefly (*Musca domestica*). Steroids 11(4):475-495. Ref. Apr.1968. 381 St4  
J. Hora, V. Landa, V. Cerny, and F. Sorm, joint authors.
- 83742 RISTOW, H., and ARENDS, S. A system in vitro for the synthesis of RNA and protein by isolated salivary glands and by nuclei from *Chironomus* larvae. Biochim. Biophys. Acta 157(1):178-186. Ref. Mar.18,1968. 381 B522
- 83743 RUBTSOV, I. A. A new species of Isomermis [rossica] (Nematoda, Mermithidae)—parasite of blackflies—and its variability. (Rus) Zool. Zh. 47(4):510-524. Apr.1968. 410 R92  
English summary.
- 83744 SMITH, T. A. Comparison of known age with physiological aging in the adult female house fly, *Musca domestica* L. J. Med. Entomol. 5(1):1-4. Ref. Feb.1968. 421 J828
- 83745 STEGMAIER, C. E. Notes on the biology of *Trupanea actinobola* (Diptera, Tephritidae). Fla. Entomol. 51(2):95-99. June 1968. 420 F662
- 83746 TAKANO, S., and NAKAMURA, Y. A new host earthworm, *Allolobophora japonica* Michaelson, (Oligochaeta: Lumbricidae), of the calyptrate muscoid fly, *Onesia subalpina* Kurahashi (Diptera: Calliphoridae). Appl. Entomol. Zool. 3(1):51-52. Mar.1968. SB599.A6
- 83747 WALDBILLIG, R. C. Color vision of the female stable fly, *Stomoxys calcitrans*. Entomol. Soc. Amer. Ann. 61(3):789-791. May 1968. 420 En82
- 83748 YANG, Y. J., and DAVIES, D. M. Amylase activity in black-flies and mosquitoes (Diptera). J. Med. Entomol. 5(1):9-13. Feb.1968. 421 J828
- 83749 ZAHAVI, M., TAHORI, A. S., and MAGER, J. Studies on the biochemical basis of susceptibility and resistance of the housefly to fluoracetate. Biochim. Biophys. Acta 153(4):787-798. Ref. May 28,1968. 381 B522

General Entomology  
Culicidae

- 83750 ALGER, N. E. In vitro development of *Plasmodium berghei* ookinetes. Nature 218(5143):774. May 25,1968. 472 N21  
In mosquitoes.
- 83751 AMIRKHANIAN, J. D. A combined HC1-acetic-alcohol fixation and hydrolysis followed by cresyl violet staining for mosquito chromosome spreads. Stain Technol. 43(3):167-170. May 1968. 442.8 St1
- 83752 ANDERSON, J. F. Day length governs seasonal cycle of mosquitoes. Frontiers Plant Sci. [Conn. Sta.] 20(2):6-7. May 1968. 100 F92  
*Aedes atropalpus*.
- 83753 BEHIN, R. The influence of chicken serum proteins on the infection of *Aedes aegypti* with *Plasmodium gallinaceum*. Amer. J. Trop. Med. Hyg. 17(3):457-460. May 1968. 448.8 Am326
- 83754 BELLAMY, R. E., REEVES, W. C., and SERRI-VANI, R. P. Experimental cyclic transmission of St. Louis encephalitis virus in chickens and *Culex* mosquitoes through a year. Amer. J. Epidemiol. 87(2):484-495. Ref. Mar.1968. 449.8 Am3  
*Culex tarsalis* and *C. quinquefasciatus*.
- 83755 BUFFINGTON, J. D., and ZAR, J. H. Changes in fatty acid composition of *Culex pipiens pipiens* during hibernation. Entomol. Soc. Amer. Ann. 61(3):774-775. May 1968. 420 En82
- 83756 CHIN, W., and others. Experimental mosquito-transmission of *Plasmodium knowlesi* to man and monkey. Amer. J. Trop. Med. Hyg. 17(3):355-358. Ref. May 1968. 448.8 Am326  
P. G. Contacos, W. E. Collins, M. H. Jeter, and E. Alpert, joint authors.  
*Anopheles balabacensis* *balabacensis*.
- 83757 DANIELOVA, V. Penetration of the *Tahyna* virus to various organs of *Aedes vexans* mosquito. Folia Parasitol. 15(1):87-91. 1968. 436.8 C33
- 83758 EDMAN, J. D., EVANS, F. D. S., and WILLIAMS, J. A. Development of a diurnal resting box to collect *Culiseta melanura* (Coq.). Amer. J. Trop. Med. Hyg. 17(3):451-456. May 1968. 448.8 Am326
- 83759 GUBLER, D. J. A method for the in vitro cultivation of ovarian and midgut cells from the adult mosquito. Amer. J. Epidemiol. 87(2):502-508. Ref. Mar.1968. 449.8 Am3  
*Culex pipiens molestus*.
- 83760 HITCHCOCK, J. C. Age composition of a natural population of *Anopheles quadrimaculatus* say (Diptera: Culicidae) in Maryland, U. S. A. J. Med. Entomol. 5(1):125-134. Ref. Feb.1968. 421 J828
- 83761 HITCHCOCK, J. C. Egg retention in *Anopheles quadrimaculatus* Say in relation to the physiological age of the mosquito. J. Med. Entomol. 5(1):8. Feb.1968. 421 J828

- 83762 JONES, J. C. The sexual life of a mosquito [*Aedes aegypti*]. *Sci. Amer.* 218(4):108-114, 116. Apr.1968. 470 Sci25
- 83763 JUDSON, C. L. Physiology of feeding and oviposition behavior in *Aedes aegypti* (L.). *J. Med. Entomol.* 5(1):21-23. Feb.1968. 421 J828
- 83764 KIKNADZE, I. I. Chromosomes of Diptera. I. Culicidae (evolutionary and practical importance of studying the karyotypes). (Rus) *Genetika* 11:145-165. Ref. Nov.1967. QH431.A1G4 English summary.
- 83765 NAYAR, J. K. Biology of *Culex nigripalpus* Theobald (Diptera: Culicidae). 1. Effects of rearing conditions on growth and the diurnal rhythm of pupation and emergence. *J. Med. Entomol.* 5(1):39-46. Ref. Feb.1968. 421 J828
- 83766 OWEN, W. B., and REINHOLZ, S. Intake of nucleotides by the mosquito *Culiseta inornata* in comparison with water, sucrose, and blood. *Exp. Parasitol.* 22(1):43-49. Ref. Feb.1968. 436.8 Ex7
- 83767 PATTERSON, R. S., LOFGREN, C. S., and BOSTON, M. D. The sterile-male techniques for control of mosquitoes; a field cage study with *Anopheles quadrimaculatus*. *Fla. Entomol.* 51(2):77-82. June 1968. 420 F662
- 83768 PILLAI, M. K. K., MADHUKAR, B. V. R., and GROVER, K. K. A report on the breeding sites and incidence of *Aedes* in Delhi. *Cur. Sci.* 37(1):4-5. Jan.5,1968. 475 Sci23  
*Aedes aegypti*, *A. albopictus* and *A. vittatus*.
- 83769 ROBERTS, R. S. Notes on the mosquitoes of Cache County, Utah. *Utah. State Univ. Ext. Entomol. Newslett.* 33,4 p. Sept.1966. SB933.A1U8
- 83770 ROBERTS, R. S. Notes on the mosquitoes of Rich County. *Utah. State Univ. Ext. Entomol. Newslett.* 31,2 p. Sept.1966. SB933.A1U8
- 83771 ROBERTS, R. S. Notes on the mosquitoes of Rich County, Utah. *Utah. State Univ. Ext. Entomol. Newslett.* 32,3 p. Sept.1966. SB933.A1U8
- 83772 SINGH, K. R. P., and SHARDA DEVI PAUL. Multiplication of arboviruses in cell lines from *Aedes albopictus* and *Aedes aegypti*. *Cur. Sci.* 37(3):65-67. Feb.5,1968. 475 Sci23
- 83773 SOKOLOVA, E. I. Main foci of blood-sucking mosquitoes (Culicidae) under conditions of the northern taiga. (Rus) *Zool. Zh.* 47(4):640-643. Ref. Apr.1968. 410 R92 English summary.
- 83774 STRAUSS, W. G., MAIBACH, H. I., and KHAN, A. A. The role of skin in attracting mosquitoes. *J. Med. Entomol.* 5(1):47-48. Feb.1968. 421 J828  
Effects of odor on *Aedes aegypti*.
- 83775 TRUMAN, J. W. Acetone treatment for preservation of adult and larval mosquitoes. *Entomol. Soc. Amer. Ann.* 61(3):779-780. May 1968. 420 En82
- 83776 WOOD, P. W., and WRIGHT, R. H. Some responses of flying *Aedes aegypti* to visual stimuli. *Can. Entomol.* 100(5):504-513. May 1968. 421 C16
- 83777 WRIGHT, R. H. Tunes to which mosquitoes dance. *New Sci.* 37(590):694-697. Mar.28,1968. 472 N42
- 83778 YANG, K. H., and WANG, C. L. Phonotaxis in swarming *Culex* mosquitoes. *U. S. Joint Publ. Res. Serv. Transl. Communist China's Sci. Technol.* 400:1-9. Feb.19,1968. (JPRS 44,408) 173 J663Tcco  
Translation from *Jen Min Pao Chien* 2(6):296-298,340. June 1960.  
Issued by CFSTI.
- 83779 ZHOGOLEV, D. T., and YUSUPOV, K. YU. Using light traps for collecting of malaria type mosquitoes. (Rus) *Zool. Zh.* 47(4):628-629. Apr.1968. 410 R92 English summary.
- General Entomology  
*Drosophila*
- 83780 BONI, P., and PARISI, G. Abnormalities of the eye pigments (pteridins and ommochromes) induced in *Drosophila melanogaster* by the inhibitor of xanthine dehydrogenase 4-hydroxypyrazolo (3,4 d) pyrimidine. *Experimentia* 23(12):1020-1021. Dec.15,1967. 475 Ex7
- 83781 CROZIER, R. H. An acetic acid dissociation, air-drying technique for insect chromosomes, with aceto-lactic orcein staining. *Stain Technol.* 43(3):171-173. May 1968. 442.8 St1  
*Drosophila melanogaster* and *Dorymyrmex*.
- 83782 CSUKAS-SZATLOCZKY, I., and others. Fluctuation of radiosensitivity during the ontogenesis of *Drosophila melanogaster* larvae. *Acta Biol. [Budapest]* 19(1):57-64. Ref. 1968. 475 Ac85  
E. Duda, E. Paradi, and B. Faludi, joint authors.  
The effects of radioactive phosphorus.
- 83783 EFREMOVA, G. I. Crossing over in *Drosophila melanogaster* males induced by N-nitrosoethyl urea. (Rus) *Genetika* 11:37-46. Ref. Nov. 1967. QH431.A1G4 English summary.
- 83784 FOWLER, G. L., EROSEVICH, K. E., and ZIMMERING, S. Distribution of sperm in the storage organs of the *Drosophila melanogaster* female at various levels of insemination. *Z. Vererbungslehre* 101(2):120-122. Apr.2,1968. 442.8 Z34
- 83785 GERDES, R. A., and SMITH, J. D. A population cage for *Drosophila melanogaster*. *Tex. J. Sci.* 19(4):394-396. Dec.31,1967. 470 T31
- 83786 GRELL, R. F. The relation between inversion heterozygosity and dominant lethality in *Drosophila pseudoobscura*. *Amer. Natur.* 102(923):87-89. Jan./Feb.1968. 470 Am36
- 83787 GRIMES, W. T., and MARTIN, J. C. A survey of the wild species of *Drosophilidae* within Monongalia County, West Virginia. *W. Va. Acad. Sci. Proc.* 39:272-278. Ref. 1967. 500 W52
- 83788 HACKMAN, R., and LAKOVAARA, S. The temperature-sensitive period in the development of rolled hemizygotes of *Drosophila melanogaster*. *Helsingfors. Suomalainen Tiedekatemia Tormituksia. Ser. A, IV. Biol.* 118,13 p. Ref. 1967. 442.9 H36
- 83789 HOSGOOD, S. M. W., and PARSONS, P. A. The exploitation of genetic heterogeneity among the founders of laboratory populations of *Drosophila* prior to directional selection. *Experimentia* 23(12):1066-1067. Dec.15,1967. 475 Ex7
- 83790 KAMBYSELLIS, M. P. Interspecific transplantation as a tool for indicating phylogenetic relationships. *Nat. Acad. Sci. Proc.* 59(4):1166-1172. Ref. Apr.1968. 500 N21P  
Ovaries implanted in *Drosophila virilis*.
- 83791 KING, R. C., AGGARWAL, S. K., and AGGARWAL, U. The development of the female *Drosophila* [melanogaster] reproductive system. *J. Morphol.* 124(2):143-165. Ref. Feb.1968. 444.8 J826  
Cytology of adult ovaries.
- 83792 LEE, B. T. O., and PARSONS, P. A. Selection, prediction and response. *Cambridge Phil. Soc. Biol. Rev.* 43(2):139-174. May 1968. 442.9 C14  
Review of the literature.  
The biometric approach applied to *Drosophila* and plants chiefly.
- 83793 LEFEVRE, G., and MOORE, L. B. Recombination in regions adjacent to deletions in the X chromosome of *Drosophila melanogaster*. *Genetics* 58(4):557-571. Ref. Apr.1968. 442.8 G28
- 83794 MARTIN, J. C., and STEVENSON, R. Fluctuations in natural populations of *Drosophila* with special attention to sex ratio. *W. Va. Acad. Sci. Proc.* 39:279-286. Ref. 1967. 500 W52



- 83795 NASH, D., and BELL, J. Larval age and the pattern of DNA synthesis in polytene chromosomes. *Can. J. Genet. Cytol.* 10(1):82-90. Ref. Mar.1968. 443.8 C16  
*Drosophila melanogaster*.
- 83796 PARSONS, P. A. Genetic heterogeneity among the founders of laboratory populations of *Drosophila melanogaster*. III. Sternopleural chaetae. *Australian J. Biol. Sci.* 21(2):297-302. Apr.1968. 442.8 Au72
- 83797 PERRY, M. M. Further studies on the development of the eye of *Drosophila melanogaster*. I-II. *J. Morphol.* 124(2):227-260. Ref. Feb. 1968. 444.8 J826  
I, The ommatidia; II, The interommatidial bristles.
- 83798 RAMEL, C. The effect of the curly inversions on meiosis in *Drosophila melanogaster*. I. Intrachromosomal effects on recombination. *Hereditas* 59(2/3):189-196. Ref. 1968. 442.8 H42
- 83799 REMENSBERGER, P. Cytological and histological investigations of permanent cell lines of *Drosophila melanogaster* cultured in vivo. (Ge) *Chromosoma* 23(4):386-417. Ref. Mar.12, 1968. 442.8 C46  
English summary.
- 83800 SCHUBIGER, G., and HARDON, E. Auto- and allotype differentiations in blastema of the first leg of *Drosophila melanogaster* grown in vitro. (Ge) *Develop. Biol.* 17(5):584-602. Ref. May 1968. 442.8 D49  
English summary.
- 83801 SEDEROFF, R. Rare pseudoallelic crossover between two phenotypically identical alleles at a restricted sublocus of dumpy in *Drosophila melanogaster*. *Nature* 216(5122):1348-1349. Dec.30,1967. 472 N21
- 83802 SONDHI, K. C. Studies in aging. VI. Genes, developmental environment, and the expression of aging processes in *Drosophila melanogaster*. *Nat. Acad. Sci. Proc.* 59(3):785-791. Ref. Mar. 1968. 500 N21P
- 83803 SVETLOV, P. G., and KORSKOVA, G. F. Effect of certain chemical agents introduced in the food of the forked mutation of *Drosophila melanogaster* larvae on the development of sternum-macrochaetae in imago. (Rus) *Akad. Nauk SSSR. Dokl.* 178(5):1190-1193. 1968. 511 P444A
- 83804 TENINGES, D. Demonstration of Sigma viruses in the germinal cells of male *Drosophila*. (Fr) *Arch. Gesamte Virusforsch* 23(4):378-387. Ref. 1968. 448.3 Ar23  
English summary.
- 83805 WALLACE, B. On the dispersal of *Drosophila*. *Amer. Natur.* 102(923):85-87. Jan./Feb.1968. 470 Am36
- 83806 WELCH, R. M., and DEBAULT, L. E. Quantitative microspectrophotometry and microinterferometry of nucleic acids and protein in salivary gland, proventriculus, and ring gland of the lethal mutant translucida of *Drosophila melanogaster*. *Roy. Microscop. Soc. J.* 88(1):85-118. Ref. 1968. 440.9 R81J
- 83807 WRIGHT, S. Dispersion of *Drosophila pseudoobscura*. *Amer. Natur.* 102(923):81-84. Jan./Feb.1968. 470 Am36
- 83808 YTTTERBORN, K. H. Salivary gland analysis and localization of second chromosome recessive lethals obtained after irradiation of spermatogonia and spermatozoa in *Drosophila melanogaster*. *Hereditas* 59(1):49-62. Ref. 1968. 442.8 H42
- General Entomology  
Hemiptera (Heteroptera and Homoptera)
- 83809 AIDLEY, D. J., and WHITE, D. C. S. Oscillatory power output in a neurogenic insect [*Fidicina rana*] muscle. *J. Physiol.* 196(1):65P-66P. May 1968. 447.8 J82
- 83810 BAHADUR, J. Observations on oviposition and life history of an aquatic bug, *Sphaerodema rusticum* Fabr. (Hemiptera). *Zool. Pol.* 18(1):107-115. 1968. 410 Z712
- 83811 BUSCHINGER, A. Emission of sex attractants by mating ready ergatoid female of *Harpagoxenus sublaevis* NYL. (Hymenoptera, Formicidae). (Ge) *Experientia* 24(3):297. Mar.15, 1968. 475 Ex7  
English summary.
- 83812 CARLISLE, D. B., and ELLIS, P. E. Abnormalities of growth and metamorphosis in some pyrrhocorid bugs: the paper factor. *Bull. Entomol. Res.* 57(3):405-417. Ref. Nov.1967. 421 B87  
*Pyrrhocoris apterus* and *Dysdercus intermedius*.
- 83813 CARROW, J. R., and GRAHAM, K. Nitrogen fertilization of the host tree [*Abies amabilis*] population growth of the balsam wooly aphid, *Adelges piceae* (Homoptera, Adelgidae). *Can. Entomol.* 100(5):478-485. Ref. May 1968. 421 C16
- 83814 CARTIER, J. J. The pea aphid [*Acyrtosiphon pisum*]. *Can. Dep. Agr. Publ.* 1146,3 p. 1968. 7 C16Pu  
Pest of various field crops.
- 83815 CLANCY, D. W. Distribution and parasitization of some *Lygus* spp. in Western United States and central Mexico. *J. Econ. Entomol.* 61(2):443-445. Apr.15,1968. 421 J822  
Miridae.
- 83816 COURANTON, J. Secretion of a mucocomplex by the Malpighian tubes of Cercopidae larvae (Homoptera), its role in the formation of foamy cover. (Fr) *Ann. Sci. Natur. Zool. Biol. Anim.* (ser.12)10(1):117-126. Ref. Jan./Mar.1968. 410 An7  
English summary.
- 83817 DANILOV, V. N. The effect of blood meal taken in the nymphal stage on molting into imago of triatomid bugs, *Rhodnius prolixus* and *Triatoma infestans*. (Rus) *Med. Parazitol. Parazitarn. Bolezni* 37(2):218-223. Ref. Mar./Apr.1968. 44.8 M469  
English summary.
- 83818 DEMPSTER, J. P. Bird predation and aggregation by some Miridae. *Entomol. Mon. Mag.* 103(1241/1243):280-283. Oct./Dec.1967, pub. Mar.30,1968. 421 En86
- 83819 DINGLE, H. Life history and population consequences of density, photo-period, and temperature in a migrant insect, the milkweed bug *Oncopeltus*. *Amer. Natur.* 102(924):149-163. Ref. Mar./Apr.1968. 470 Am36
- 83820 DZIEDZICKA, A. Studies on the morphology and biology of *Lecanium fletcheri* Ckll. (Homoptera, Coccoidea) and related species. *Zool. Pol.* 18(1):125-165. Ref. 1968. 410 Z712
- 83821 EHRHARDT, P. The effect of some trace elements on growth, reproduction, and symbionts of artificially fed *Neomyzus circumflexus* Buckt. (Aphidae, Homoptera, Insecta). (Ge) *Z. Vergleichende Physiol.* 58(1):47-75. Ref. 1968. 444.8 Z3  
English summary.
- 83822 EVERS, C. Host plants of sixteen aphids from banana plantations in Honduras. *Fla. Entomol.* 51(2):113-118. June 1968. 420 F662
- 83823 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. COMMITTEE ON THE CONTROL OF THE SUNN PEST OF CEREALS. Report of the second session held in Teheran, Iran, 18-25 April 1966. Rome, 1966. 21 p. Ref. (Meeting Report No. PL/1966/M/4) SB608.G6F6  
Chemical and biological control of *Eurygaster* and *Aelia*, spp.
- 83824 GEGECHKORI, A. M. Contribution to the study of psyllid fauna (Homoptera, Psylloidea) in Georgia and their zoogeography. (Geo) *Akad. Nauk Gruz. SSR. Soobshch.* 48(3):693-698. Ref. Dec.1967. 511 AK146

- 83825 GOURANTON, J. Ultrastructure of the cryptonephridial system in *Cicadella viridis* L. (Homoptera, Jassidae). (Fr) Acad. Sci. C. R., Ser. D, 266(13):1403-1406. Ref. Mar.23,1968. 505 P21
- 83826 GRANADOS, R. R., WARD, L. S., and MARA-MOROSCH, K. Insect viremia caused by a plant pathogenic virus: electron microscopy of vector hemocytes. *Virology* 34(4):790-796. Ref. Apr. 1968. 448.8 V81  
Wound tumor virus infecting *Agallia constricta*.
- 83827 GRIVANOV, K. P. Grain aphids. (Rus) *Zashch. Rast.* 5:25-26. 1968. 421 Z1  
Biology chiefly.
- 83828 HAINE, E., and EASTOP, B. E. Systematic study of insect flight in West-, North, and South Germany. II. Aphid catches from North Germany. (Ge) *Z. Angew. Entomol.* 61(3):247-252. Ref. Apr.1968. 421 Z36  
English summary.
- 83829 HAINE, E., and EASTOP, B. E. Systematic investigations on insect flight in western, northern and southern Germany. II. Aphid captures in northern Germany. (Ge) *Z. Angew. Entomol.* 60(4):412-416. Ref. Nov.1967. 421 Z36
- 83830 HASHIMOTO, A., and MUKAI, K. Chromatographic separation of the lipids from first instar larvae of *Ceroplastes pseudoceriferus*. (Ja) *Agr. Chem. Soc. Jap. J.* 41(4):159-164. Ref. 1967. 385 Ag8  
English summary.
- 83831 HASHIMOTO, A., YAMADA, K., and MUKAI, K. Studies on the lipids of coccids. XI. Lipid composition of the insect body of *Ceroplastes rubens* (Maskell) and *Ceroplastes japonicus* (Green). (Ja) *Agr. Chem. Soc. Jap. J.* 42(3):158-164. Mar.1968. 385 Ag8  
English summary.
- 83832 HASHIMOTO, A., YAMADA, K., and MUKAI, K. Studies on the lipids of coccids. XII. The triglyceride composition of *Ceroplastes pseudoceriferus* Green. (Ja) *Agr. Chem. Soc. Jap. J.* 42(4):197-206. Ref. Apr.1968. 285 Ag8  
English summary.
- 83833 HORI, K. Feeding behavior of the cabbage bug, *Eurydema rugosa* Motschulsky (Hemiptera: Pentatomidae) on the cruciferous plants. *Appl. Entomol. Zool.* 3(1):26-36. Ref. Mar.1968. SB599.A6
- 83834 HOSNY, M. M., and EL-DESSOUKI, S. A. Ecological and biological studies on *Empoasca* spp. (Jassidae) in the Cairo area, U.A.R. *Z. Angew. Entomol.* 60(4):397-411. Ref. Nov.1967. 421 Z36
- 83835 ISRAEL, P., and MISRA, B. C. Occurrence of blue leaf-hopper, *Typhlocyba maculifrons* Motsch on rice. *Cur. Sci.* 37(4):113-114. Feb.20,1968. 475 Sci23
- 83836 ITTYCHERIAH, P. I., and NAYAR, K. K. Ovarian response to *Corpus allatum* in *Iphita limbata* Stal. *Cur. Sci.* 36(22):608-609. Nov.20, 1967. 475 Sci23
- 83837 KHIDIR, E. EL. Ecological studies on *Aleyrodes brassicae* Walk. (Homoptera: Aleyrodidae). I. The development of *Aleyrodes brassicae* in relation to temperature. *Indian J. Entomol.* 29(2):189-196. June 1967. 420 In23
- 83838 KISHIMOTO, R. Ecology and control of small brown planthopper (*Laodelphax striatellus* Fallen). 12 p. Ref. *Transl.* 16695  
Rice pest.  
Translation from *Plant Protection* 20(3):126-130. Mar.1966.
- 83839 KISHIMOTO, R. Yellow pan water trap for sampling the small brown planthopper, *Laodelphax striatellus* (Fallen), a vector of the rice stripe virus. *Appl. Entomol. Zool.* 3(1):37-48. Mar.1968. SB599.A6  
Delphacidae.
- 83840 LAI-FOOK, J. The fine structure of wound repair in an insect (*Rhodnius prolixus*). *J. Morphol.* 124(1):37-77. Ref. Jan.1968. 444.8 J826  
To the integument.
- 83841 LAKE, P., and FRIEND, W. G. The use of artificial diets to determine some of the effects of *Nocardia rhodni* on the development of *Rhodnius prolixus*. *J. Insect Physiol.* 14(4):543-562. Ref. Apr.1968. 421 J825
- 83842 MARTEL, P., and SHARMA, M. L. Some data on the biology and ecology of the scale *Phenacaspis pinifoliae* (Fitch) (Homoptera: Diaspididae) in Quebec Province. (Fr) *Phytoprotection* 49(1):19-25, map. Feb.1968. 464.8 P566  
English summary.
- 83843 MCLEAN, D. L., and KINSEY, M. G. Probing behavior of the pea aphid, *Acyrtosiphon pisum*. II. Comparisons of salivation and ingestion in host and non-host plant leaves. *Entomol. Soc. Amer. Ann.* 61(3):730-739. Ref. May 1968. 420 En82
- 83844 MICHIELI, S., and ZENER, B. The oxygen consumption of different color stages in the bug *Nezara viridula* (L.). (Ge) *Z. Vergleichende Physiol.* 58(2):223-224. 1968. 444.8 Z3  
English summary.
- 83845 MITYAEV, I. D. Hop leafhopper [*Erythroneura heptapotamica*]. (Rus) *Zashch. Rast.* 5:40. 1968. 421 Z1  
Includes biology.
- 83846 MORGAN, C. V. G., and ANGLE, B. J. Notes on the habits of the San Jose scale [*Aspidiotus perniciosus*] and the European fruit scale [*A. ostreaformis*] (Homoptera, Diaspididae) on harvested apples in British Columbia. *Can. Entomol.* 100(5):499-503. Ref. May 1968. 421 C16
- 83847 NIELSON, M. W. Biology of the geminate leafhopper, *Colladonus geminatus*, in Oregon. *Entomol. Soc. Amer. Ann.* 61(3):598-610, map. Ref. May 1968. 420 En82  
Includes ecology and life history.
- 83848 ORLANDO, E. Autoradiographic study on the activity of the nurse cells in aphids. (It) *Caryologia* 20(3):217-227. Ref. July/Sept.1967, pub. Feb.28,1968. 442.8 C25  
English summary.  
*Aphis fabae* and *Megoura viciae*.
- 83849 PARSONS, M. C. The cephalic and prothoracic skeletomusculature and nervous system in *Lethocerus* (Heteroptera, Belostomatidae). *Linn. Soc. London. J. Zool.* 47(312):349-406. Ref. Apr.1968. 410.9 L64
- 83850 PAYNE, J. A., MEAD, F. W., and KING, E. W. Hemiptera associated with pig carrion. *Entomol. Soc. Amer. Ann.* 61(3):565-567. Ref. May 1968. 420 En82
- 83851 RAMAMURTY, P. S., and KRISHNANANDAM, Y. Presence of positive paraldehyde fuchsin granules in the ovary pedicels of *Pyrilla perpusilla* Walker (Insecta, Homoptera, Fulgoroidea). *Acad. Sci. C. R., Ser. D*, 266(5):519-521. Ref. Jan.29,1968. 505 P21
- 83852 SHAGOV, E. M. Effect of temperature upon the predatory bug *Perillus bioculatus* Fabr. (Heteroptera, Pentatomidae). (Rus) *Zool. Zh.* 47(4):563-570. Ref. Apr.1968. 410 R92  
English summary.
- 83853 SOGAWA, K. Studies on the salivary glands of rice plant leafhoppers. III. Salivary phenolase. *Appl. Entomol. Zool.* 3(1):13-25. Mar.1968. SB599.A6  
Deltocephalidae and Delphacidae.
- 83854 TAMAKI, G., and WEEKS, R. E. *Anthocoris melanocerus* as a predator of the green peach aphid [*Myzus persicae*] on sugar beets and broccoli. *Entomol. Soc. Amer. Ann.* 61(3):579-584. May 1968. 420 En82
- 83855 THERON, J. G. Studies on the morphology and relationships of male *Apiomorpha* and *Opisthoscelis* (Hemiptera, Coccoidea). *Australian J. Zool.* 16(1):87-99. Ref. Feb.1968. 410 Au73



- 83856 WEARING, C. H. Responses of aphids to pressure applied to liquid diet behind parafilm membrane longevity and larviposition of *Myzus persicae* (Sulz.) and *Brevicoryne brassicae* (L.) (Homoptera; Aphididae) feeding on sucrose and sinigrin solutions. New Zeal. J. Sci. 11(1):105-151. Ref. Mar.1968. 514 N482
- 83857 WHITCOMB, R. F., and JENSEN, D. D. Proliferative symptoms in leafhoppers [Colladonus montanus] infected with Western X-disease virus. Virology 35(1):174-177. May 1968. 448.8 V81
- 83858 WILSON, D. M., and HOY, R. R. Optomotor reaction, locomotory bias, and reactive inhibition in the milkweed bug *Oncopeltus [fasciatus]* and the beetle *Zophobas [rugipes]*. (Ge) Z. Vergleichende Physiol. 58(1):136-151. Ref. 1968. 444.8 Z3
- 83859 ZDAREK, J., and SLAMA, K. Mating activity in adultoids or supernumerary larvae induced by agents with high juvenile hormone activity. J. Insect. Physiol. 14(4):563-567. Apr.1968. 421 J825  
Pyrrhocoris apterus.
- General Entomology  
Hymenoptera
- SEE ALSO Apiculture and Apis mellifera.
- 83860 BENEDEK, P. The flight period of wild bees (Hymenoptera, Apoidea) pollinating lucerne, and its plant protection aspects. Acta Phytopathol. 3(1):59-71. Ref. 1968. SB731.A3
- 83861 BENEDEK, P. On the propagation of alfalfa pollinator wild bees. (Hu) Magyar Mezogazdasag 23(52):13-14. Dec.27,1967. 19 M27
- 83862 BROWN, W. L. An hypothesis concerning the function of the metapleural glands in ants. Amer. Natur. 102(924):188-191. Mar./Apr. 1968. 470 Am36
- 83863 BUCK, F. D. Wasps attacking other insects. S. London Entomol. Natur. Hist. Soc. Proc. Transl. 1967(4):97. Dec.1967. 420 So8
- 83864 COLE, L. R. A study of the life-cycles and hosts of some Ichneumonidae attacking pupae of the green oak-leaf roller moth, Tortrix viridana (L.) (Lepidoptera: Tortricidae) in England. Roy. Entomol. Soc. London. Trans. 119(9):267-281. Ref. Dec.15,1967. 420 L84
- 83865 CORBERT, S. A. The influence of Ephestia kuehniella on the development of its parasite Nemeritis canescens. J. Exp. Biol. 48(2):291-304. Ref. Apr.1968. 442.8 B77
- 83866 CRUZ-LANDIM, C. DA, and MELLO, M. L. S. The post-embryonic changes in Melipona quadrifasciata anthidioides Lep. (Hym. Apoidea). II. Development of the salivary glands systems. J. Morphol. 123(4):481-502. Ref. Dec.1967. 444.8 J826
- 83867 FULCRAND, J. Preliminary note on the biology of a Hymenoptera Sphecidae: Podalonia (Psammophila) hirsuta (Scopoli). (Fr) Vie Milieu, Ser. C, Biol. Terrestre 18(1):185-188. 1967, pub.1968. QH 301.V5
- 83868 HERON, R. J. Vital dyes as markers for behavioral and population studies of the larch sawfly, Pristiphora erichsonii (Hymenoptera, Tenthredinidae). Can. Entomol. 100(5):470-475. Ref. May 1968. 421 C16
- 83869 HOBBS, G. A. Ecology of species of Bombus (Hymenoptera: Apidae) in Southern Alberta. IV. Subgenus Pyrobombus. Can. Entomol. 99(12):1271-1292. Ref. Dec.1967. 421 C16
- 83870 HOBBS, G. A. Ecology of species of Bombus (Hymenoptera: Apidae) in southern Alberta. VII. Subgenus Bombus. Can. Entomol. 100(2):156-164, map. Ref. Feb.1968. 421 C16
- 83871 KLOSTERMEYER, L. E., and HOO, C. F. S. Chromosome number in the leaf-cutter bee, Megachile rotundata. Entomol. Soc. Amer. Ann. 61(3):782-783. May 1968. 420 En82
- 83872 LANGE, R. The distribution of food among the workers of Formica polyctena. (Ge) Z. Tierpsychol. 24(5):513-545. Ref. Nov.1967. 410 Z35  
English summary.
- 83873 LEIBENGUTH, F. Regulation of tryptophan metabolism in the parasitic wasp, Habrobracon juglandis. Experimentia 23(12):1069-1071. Ref. Dec.15,1967. 475 Ex7
- 83874 LEWIS, W. J., and VINSON, S. B. Egg and larval development of Cardiochiles nigriceps. Entomol. Soc. Amer. Ann. 61(3):561-565. Ref. May 1968. 420 En82
- 83875 LIN, N. A note on the sleeping behavior of Philanthus gibbosus (Fabricius) (Hymenoptera: Sphecidae). Entomol. Soc. Wash. Proc. 70(1):10-12. Mar.1968. 420 W27
- 83876 MATTHEWS, R. W. Microstigmus comes; sociality in a sphecid wasp. Science 160(3829):787-788. Ref. May 17,1968. 470 Sci2
- 83877 MICHEL, M., and HOMES, J. Some aspects of the genesis of the lenticular gall of oak [Neuroterus quercusbaccarum L.] (Fr) Natur. Belg. 49(2):74-87. Ref. Feb.1968. 410.9 N21
- 83878 MILLIRON, H. E. A successful method for artificially hibernating Megabombus f. fervidus, and notes on a related species [M. p. pennsylvanicus] (Hymenoptera; Apidae; Bombinae). Can. Entomol. 99(12):1321-1332. Dec.1967. 421 C16
- 83879 MOSER, J. C., BROWNLEE, R. C., and SILVERSTEIN, R. Alarm pheromones of the ant Atta texana. J. Insect Physiol. 14(4):529-535. Ref. Apr.1968. 421 J825
- 83880 PASSERA, L. Population of terrestrial ants on the southern edge of the Jurassic Causses du Quercy: limestone heath with boxwood. (Fr) Vie Milieu, Ser. C, Biol. Terrestre 18(1):189-205, map. Ref. 1967, pub.1968. QH 301.V5  
English summary.
- 83881 RATCLIFFE, N. A., and KING, P. E. The acid gland of Nasonia vitripennis (Walker) (Pteromalidae; Hymenoptera). Entomologist [London] 101(1259):95-96. Apr.1968. 421 En8
- 83882 ROBERTSON, P. L. A morphological and functional study of the venom apparatus in representatives of some major groups of Hymenoptera. Australian J. Zool. 16(1):133-166. Ref. Feb.1968. 410 Au73
- 83883 SAKAGAMI, S. F. Comparative bee sociology. I. Origin of communal and caste systems. (Ja) Zool. Soc. Jap. Zool. Mag. 77(2):35-43. Feb. 1968. 410.9 T57
- 83884 SAUNDERS, D. S. Photoperiodism and time measurement in the parasitic wasp, Nasonia vitripennis. J. Insect Physiol. 14(4):433-450. Ref. Apr.1968. 421 J825
- 83885 SAUNDERS, G. W. Funnel ants (Aphaenogaster spp., Formicidae) as pasture pests in North Queensland. I. Ecological background, status and distribution. Bull. Entomol. Res. 57(3):419-432, map. Ref. Nov.1967. 421 B87
- 83886 SMITH, M. W. Acrobatic ants [Crematogaster sp.] suspected in Tennessee cable damage. Pest Contr. 36(6):36. June 1968. 449.8 Ex8
- 83887 SUDD, J. H. An introduction to the behavior of ants. London, Arnold, 1967. 200 p. QL568.F7S8  
Bibliography, p.178-189.
- 83888 TOROSSIAN, C. The role of queens in the formation and appearance of sexual females in ant societies of Dolichoderus quadripunctatus (Hym. Form. Dolichoderidae). (Fr) Paris. Soc. Biol. Compt. Rend. 161(6):1455-1458. 1967. 442.9 P21
- 83889 WAIN, F. L. Notes on the biology of a new bee Andrena bellidoides LaBerge (Hymenoptera, Apoidea) from Western India. Entomologist [London] 101(1260):101-104. May 1968. 421 En8

- 83890 WHITING, P. W. The chromosomes of *Mormonella*. *J. Hered.* 59(1):19-22. Ref. Jan./Feb.1968. 442.8 Am3

General Entomology  
Lepidoptera

SEE ALSO Sericulture and the Silkworm.

- 83891 APLIN, R. T., and BIRCH, M. C. Pheromones from the abdominal brushes of male noctuid Lepidoptera. *Nature* 217(5134):1167-1168. Mar.23,1968. 472 N21
- 83892 ARNOTT, H. J., and SMITH, K. M. An ultrastructural study of the development of a granulosis virus in the cells of the moth *Plodia interpunctella* (Hbn.). *J. Ultrastructural Res.* 21(3/4):251-268. Ref. Dec.12,1967. 440.8 J822
- 83893 BEENAKKERS, A. M. T., and GILBERT, L. I. The fatty acid composition of fat body and haemolymph lipids in *Hyalophora cecropia* and its relation to lipid release. *J. Insect. Physiol.* 14(4):481-494. Ref. Apr.1968. 421 J825
- 83894 BROWN, E. S., and ODIYO, P. The rate of feeding of the African army worm *Spodoptera exempta* (Walk.) and its significance for control operations. *East Afr. Agr. Forest. J.* 33(3):245-256. Jan.1968. 24 Ea74
- 83895 DESEO, K. V. The biology of plum moth (*Grapholita funebrana* Tr.) in Hungary. (Hu) Budapest. *Novenyvedelmi Kutato Intezet. Evkon.* 10:99-120. Ref. 1965/1967. 423.92 B85  
English summary.
- 83896 DE WORMS, C. G. M. British Lepidoptera collecting, 1967. *Entomologist [London]* 101(1260):109-120. May 1968. 421 En8
- 83897 DOANE, C. C. Aspects of mating behavior of the gypsy moth (*Porthetria dispar*). *Entomol. Soc. Amer. Ann.* 61(3):768-773. Ref. May 1968. 420 En82
- 83898 EIDT, D. C., and EMBREE, D. G. Distinguishing larvae and pupae of the winter moth *Operophtera brumata*, and the Bruce spanworm, *O. bruceata* (Lepidoptera, Geometridae). *Can. Entomol.* 100(5):536-539. Ref. May 1968. 421 C16
- 83899 FLUX, J. E. C. Flight periods and sex ratios of New Zealand coppers (Lycaenidae). *New Entomol.* 4(1):51-57. Dec.1967, pub. Mar.1968. 421 N48  
*Lycaena salustius*, *L. feredayi*, and *L. boldenarum*.
- 83900 GARDINER, B. O. C. The butterfly sale of the century. *Entomol. Rec. J. Variation.* 80(5):133-137. May 1968. 421 En89
- 83901 GEEST, L. P. S. VAN DER. Effect of diets on the haemolymph proteins of larvae of *Pieris brassicae*. *J. Insect. Physiol.* 14(4):537-542. Apr.1968. 421 J825
- 83902 GHAZI-BAYAT, A. On the morphology, biology, and ecology of *Dasychira selenitica* Esp. (Lepidoptera, Lymantriidae). (Ge) *Z. Angew. Entomol.* 60(4):467-497. Nov.1967. 421 Z36
- 83903 GIBSON, L. P. The 1958 pine tip moth collapse in Ohio. *Entomol. Soc. Amer. Ann.* 61(3):786-787. May 1968. 420 En82  
*Rhyacionia frustrana*, and *R. rigidana*.
- 83904 GORELICK, G. A., and WIELGUS, R. S. Notes and observations on the biology and host preferences of *Vanessa tameamea* (Nymphalidae). *Lepidopterists' Soc. J.* 22(2):111-114. May 31, 1968. 421 L554
- 83905 GUELIN, M. Preliminary data on the existence of differentiated vesicle chromatins in the nucleus of trophocytes of *Ephestia kuehniella* Z. (Lepidoptera). (Fr) *Acad. Sci. C. R., Ser. D.* 17(266):1740-1742. Apr.22,1968. 505 P21
- 83906 HARDWICK, D. F. A brief review of the principles of light trap design with a description of an efficient trap for collecting noctuid moths. *Lepidopterists' Soc. J.* 22(2):65-75. Ref. May 31,1968. 421 L554
- 83907 HARRIS, P. Suitability of *Anaitis plagiata* (Geometridae) for biocontrol of *Hypericum perforatum* in dry grass-land of British Columbia. *Can. Entomol.* 99(12):1304-1310. Ref. Dec. 1967. 421 C16
- 83908 HIDAKA, T., and TAKAHASHI, H. Temperature conditions and maternal effect as modifying factors in the photoperiodic control of the seasonal form in *Polygonia c-aureum* (Lepidoptera, Nymphalidae). *Annot. Zool. Jap.* 40(4):200-204. Ref. Dec.1967. 410 An79
- 83909 IVANOVA, T. V., and KROPACHEVA, A. A. Sterile effect of tretamine and apholate on corn cutworm [*Agrotis segetum*]. (Rus) *Khim. Sel'skom Khoz.* 6(3):26-28. Ref. Mar.1968. 385 K524
- 83910 KAFATOS, F. C. Cytoplasmic particles carrying rapidly labeled RNA in developing insect [*Antheraea polyphemus*] epidermis. *Nat. Acad. Sci. Proc.* 59(4):1251-1258. Ref. Apr.1968. 500 N21P
- 83911 KAFATOS, F. C. The labial gland; a salt-secreting organ of saturniid moths. *J. Exp. Biol.* 48(2):435-453. Ref. Apr.1968. 442.8 B77  
*Antheraea pernyi*, *A. polyphemus*, and *Hyalophora cecropia*.
- 83912 KIHATA, H., and INOUE, H. Studies on the ecology of rice green caterpillar. 1-3. 16 p. Transl. 16696  
Translation from Society of Plant Protection of North Japan. Annual Report 15:87-93. 1964.
- 83913 KROCHMAL, A., and CUBERO, J. A cassava insect [*Erinnys alope*]. *World Crops* 19(6):23. Dec.1967. 281.8 W892  
In Virgin Islands.
- 83914 LAI-FOOK, J. The structure of developing muscle insertions in insects. *J. Morphol.* 123(4):503-528. Ref. Dec.1967. 444.8 J826  
*Calpodus ethlius* (Hesperiidae) and *Rhodnius prolixus* (Reduviidae).
- 83915 LAVRINA, K. M. The growth of cornworm population. (Rus) *Zashch. Rast.* 5:42. 1968. 421 Z1  
*Agrotis segetum*.
- 83916 LENARTOWICZ, E., and NIEMIERKO, S. The effect of low temperature and starvation on carbohydrate metabolism in larvae of *Galleria mellonella* L. *J. Insect. Physiol.* 14(4):451-462. Ref. Apr.1968. 421 J825
- 83917 LEONARD, D. E. Gypsy moths respond to crowding. *Frontiers Plant Sci. [Conn. Sta.]* 20(2):12-13. May 1968. 100 F92  
Population studies of *Porthetria dispar*.
- 83918 LINGREN, P. D., RIDGWAY, R. L., and JONES, S. L. Consumption by several common arthropod predators of eggs and larvae of two *Heliothis* species [*H. zea* and *H. virescens*] that attack cotton. *Entomol. Soc. Amer. Ann.* 61(3):613-618. May 1968. 420 En82
- 83919 LUDICKE, M. Radioautographs of areas with endogenous wing pigments after injecting *Parnassius apollo* L. (Lepidoptera: Papilionidae) with <sup>35</sup>S-L-cystine solutions. (Ge) *Z. Morphol. Okol. Tiere* 61(3):317-337. Ref. Mar.19, 1968. 442.8 Z33  
English summary.
- 83920 MANDEL'SHTAM, YU. E., and TYSHCHENKO, V. P. Action potentials and structure of nervi corporis cardiaci in larvae of *Dendrolimus pini* L. and *Antheraea pernyi* Guer. (Rus) *Akad. Nauk SSSR. Dokl.* 179:238-241. Ref. 1968. 511 P444A
- 83921 MANSINGH, A., and SMALLMAN, B. N. Precocious termination of "obligatory" diapause in field-collected pupae of *Antheraea polyphemus*. *Can. Entomol.* 100(2):134-139. Feb.1968. 421 C16
- 83922 MCLEOD, L. A new aberration of *Pieris brassicae* (Linn.) Lepidoptera, Pieridae. *Entomol. Rec. J. Variation* 80(5):127-129. May 1968. 421 En89



- 83923 MERZHEEVSKAYA, O. I. The role of temperature in development of the clover cutworm *Discestra trifolii* Hufn. (Lepidoptera, Noctuidae). (Rus) Zool. Zh. 47(4):571-577. Apr. 1968. 410 R92  
English summary.
- 83924 MESTRES, G., and LAVIOLETTE, P. Effects of X-rays on the osmotic pressure and hydrogen-ion concentration of haemolymph of *Galleria mellonella* L. (Insecta, Lepidoptera). (Fr) Acad. Sci. C. R. Ser. D, 266(20):2093-2096. May 13, 1968. 505 P21
- 83925 MESTRES, G., and LAVIOLETTE, P. Regulation of osmotic pressure in *Galleria mellonella* L. (Fr) Acad. Sci. C. R. Ser. D, 266(19):1969-1971. May 6, 1968. 505 P21
- 83926 MITSUHASHI, J. Tissue culture of the rice stem borer, *Chilo suppressalis* Walker (Lepidoptera: Pyralidae). III. Effects of temperatures and cold-storage on the multiplication of the cell line from larval hemocytes. Appl. Entomol. Zool. 3(1):1-4. Mar. 1968. SB599.A6
- 83927 MOELLER, J., and LOTZ, G. Comparative studies of the crown fauna of oak in latent and outbreak area of the *Tortrix viridana* L. I. (Ge) Z. Angew. Entomol. 61(3):282-297. Ref. Apr. 1968. 421 Z36  
English summary.
- 83928 NAWA, S., and YAMADA, M. Hereditary change in *Ephestia* after treatment with DNA. Genetics 58(4):573-584. Ref. Apr. 1968. 442.8 G28
- 83929 NORDAU, C. G. Modalities of endomitosis in the sericin glands of *Galleria mellonella*. (Fr) Acad. Sci. C. R., Ser. D, 17(266):1749-1750. Apr. 22, 1968. 505 P21
- 83930 OHNISHI, E., and others. Crystals from cocoons of *Malacosoma neustria* testacea. Science 160(3829):783-784. May 17, 1968. 470 Sci2  
S. Y. Takahasi, H. Sonobe, and T. Hayashi, joint authors.
- 83931 PETERSON, A. Eggs of moth from additional species of Geometridae, Lepidoptera. Fla. Entomol. 51(2):83-94. June 1968. 420 F662
- 83932 PETERSON, D. M., and HAMNER, W. M. Photoperiodic control of diapause in the codling moth [*Carpocapsa pomonella*]. J. Insect Physiol. 14(4):519-528. Ref. Apr. 1968. 421 J825
- 83933 RAHN, R. Role of the host plant on the sex attraction of *Acrolepia assectella* Zeller (Lep., Plutellidae). (Fr) Acad. Sci. C. R. Ser. D, 266(19):2004-2006. May 6, 1968. 505 P21
- 83934 RICKARD, M. A. Life history of *Dryas julia* delia (Heliconiinae). Lepidopterists' Soc. J. 22(2):75-76. May 31, 1968. 421 L554  
Reared on *Passiflora lutea* or *P. incarnata*.
- 83935 SARLET, L. G. Iconography of eggs of the Lepidoptera fauna of Belgium. (Fr) Lambillionea 67(1/2):7-9. (Cont.) Feb. 25, 1968. 420 N15  
*Hesperia comma*.
- 83936 SATO, Y., and others. Ecdysone activity of plant-originated molting hormones applied on the body surface of lepidopterous larvae. Appl. Entomol. Zool. 3(1):49-51. Mar. 1968. SB599.A6  
M. Sakai, S. Imai, and S. Fujioka, joint authors.  
*Chilo suppressalis*, *Ephestia cautella*, and *Plutella maculipennis*.
- 83937 EL-SAWAF, B. M., KASCHEF, A. H., and SOLIMAN, A. A. Development and histology of the scent gland in the cotton leafworm, *Prodenia litura* F., and the pink bollworm, *Pectinophora gossypiella* S. (Lepidoptera). Z. Angew. Entomol. 61(3):229-239. Apr. 1968. 421 Z36
- 83938 SCHEIBNER, R. A. Sod webworms [Crambus] and their control. Ky. Univ. Ext. Misc. 363, 3 p. Feb. 1968. 275.29 K415M
- 83939 SKOPTSOV, A. G. Intraspecific relations of insects living in groups. Nature 218(5144):880-882. June 1, 1968. 472 N21  
Temperature effects on the metabolism of *Nygmia phaerrhoa*, *Galleria mellonella*, and *Ocnieria dispar*.
- 83940 TALERICO, R. L. Life history of the looper *Phigalia titea* in Virginia. Entomol. Soc. Amer. Ann. 61(3):557-561. May 1968. 420 En82
- 83941 TELFER, W. H., and ANDERSON, L. M. Functional transformations accompanying the initiation of a terminal growth phase in the cecropia moth [*Hyalophora cecropia*] oocyte. Develop. Biol. 17(5):512-535. Ref. May 1968. 442.8 D49
- 83942 THOMAS, W. P. An artificial diet for rearing the light brown apple moth *Epiphyas postvittana* (Walk.) (Lepidoptera: Tortricidae). New Entomol. 4(1):31-32. Dec. 1967, pub. Mar. 1968. 421 N48
- 83943 VASYURIN, S. T. Sterile effect of some chemicals applied to corn cutworm [*Agrotis segetum*]. (Rus) Khim. Sel'skom Khoz. 6(3):23-25. Ref. Mar. 1968. 385 K524
- 83944 WALLER, J. B., and SATORY, R. J. The effect of acoustical and electrical energy on the behaviour of *Wiseana* larvae (Hepialidae). New Entomol. 4(1):60-61. Dec. 1967, pub. Mar. 1968. 421 N48  
Attempts at collecting soil insects.
- 83945 WALLER, J. B. Handling techniques for eggs and larvae of *Wiseana* sp. (Hepialidae). New Entomol. 4(1):57-60. Dec. 1967, pub. Mar. 1968. 421 N48
- 83946 WARLET, J. M. A second generation of *Scopula tessellaria* Bois. (Fr) Lambillionea 67(1/2):1-4. Feb. 25, 1968. 420 N15

General Entomology  
Orthoptera

- 83947 ALEXANDER, R. D. Life cycle origins, speciation, and related phenomena in crickets. Quart. Rev. Biol. 43(1):1-41, map. Mar. 1968. 442.8 Q2  
Review of the literature.
- 83948 BAYER, R. Investigations into the circulatory system of the migratory locust (*Locusta migratoria migratorioides* R. et F., Orthopteroidea) with special reference to the blood pressure. (Ge) Z. Vergleichende Physiol. 58(1):76-135. Ref. 1968. 444.8 Z3  
English summary.
- 83949 BERTRAN, M. Observations on the morphology of *Loboptera decipiens* (Germar) (Dictyoptera, Blattodea) and its biology in the region of Banyuls-sur-Mer. (Fr) Vie Milieu, Ser. C, Biol. Terrestre 18(1):93-101. Ref. 1967, pub. 1968. QH 301.V5  
English summary.
- 83950 BODENSTEIN, D., and SHAYYA, E. The function of the accessory sex glands in *Periplaneta americana* (L.). I. Quantitative bioassay for the juvenile hormone. Nat. Acad. Sci. Proc. 59(4):1223-1230. Ref. Apr. 1968. 500 N21P
- 83951 BROUSSE-GAURY, P. Localization of the origin of nuclei of paracardiac nerves, of the Dictyoptera, Blaberidae, Blattidae. (Fr) Acad. Sci. C. R. Ser. D, 266(19):1972-1975. May 6, 1968. 505 P21  
*Blaberus fusca* and *Periplaneta americana*.
- 83952 CHUDAKOV, I. V., and BOCHAROVA-MESSNER, O. M. Endocrine control of wing muscles of *Acheta domestica* [i.e. domesticus] in the imago stage. (Rus) Akad. Nauk SSSR. Dokl. 179:489-492. 1968. 511 P444A
- 83953 COLLINS, W. J. Latest research plans on the problem of cockroach [*Blattella germanica*] resistance. Pest Contr. 36(6):23, 25-26. June 1968. 449.8 Ex8

- 83954 ELDELFRAWI, M. E., and others. The location of penetration barriers in the ganglia of the American cockroach, *Periplaneta americana* (L.). *J. Exp. Biol.* 48(2):325-338. Ref. Apr. 1968. 442.8 B77  
A. Toppozada, M. M. Salpeter, and R. D. O'Brien joint authors.
- 83955 GILLET, S. Airborne factor affecting the grouping behaviour of locusts [*Schistocerca gregaria*]. *Nature* 218(5143):782-783. Ref. Apr. 1968. 472 N21
- 83956 HEWITT, G. B. Resistance of forage plants to the feeding of *Melanoplus sanguinipes*. *Entomol. Soc. Amer. Ann.* 61(3):739-744. Ref. May 1968. 420 En82
- 83957 HOFFMANN, J. A., and others. Ultrastructure of *Locusta migratoria* (Orthoptera) haemocytes. (Fr) *Acad. Sci. C. R., Ser. D*, 266(5):503-505. Jan. 29, 1968. 505 P21  
M. E. Stoekel, A. Porte, and P. Joly, joint authors.
- 83958 HUTCHINS, R. F. N., MARTIN, M., and CARLS, G. A. The lipids of the common house cricket, *Acheta domesticus* L. I-III. *Lipids* 3(3):247-259. Ref. May 1968. QP751.L5
- 83959 KATER, S. B. Cardioaccelerator release in *Periplaneta americana* (L.). *Science* 160(3829):765-767. Ref. May 17, 1968. 470 Sci2
- 83960 KENDIG, J. J. Motor neurone coupling in locust [*Schistocerca gregaria*] flight. *J. Exp. Biol.* 48(2):389-404. Ref. Apr. 1968. 442.8 B77
- 83961 LUSCHER, M. Hormonal control of respiration and protein synthesis in the fat body of the cockroach *Nauphoeta cinerea* during oocyte growth. *J. Insect. Physiol.* 14(4):499-511. Ref. Apr. 1968. 421 J825
- 83962 MAKINGS, P. Transpiration through the Silber's patches of Acrididae (Orthoptera). *J. Exp. Biol.* 48(2):247-263. Ref. Apr. 1968. 442.8 B77  
*Schistocerca gregaria*.
- 83963 MEINWALD, J., and others. Defensive mechanisms of arthropods. XXIII. An allenic sesquiterpenoid from the grasshopper *Romalea microptera*. *Tetrahedron Lett.* 25:2959-2962. May 1968. 385 T29.  
K. Erickson, M. Hartshorn, T. Eisner, and Y. C. Meinwald, joint authors.
- 83964 METCALF, R. L., GRUHN, W. B., and FUKUTO, T. R. Electrophysiological action of carbamate insecticides in the central nervous system of the American cockroach [*Periplaneta americana*]. *Entomol. Soc. Amer. Ann.* 61(3):618-624. Ref. May 1968. 420 En82
- 83965 MINKS, A. K. Biochemical aspects of juvenile hormone action in the adult *Locusta migratoria*. Groningen, J. B. Wolters, 1967. 257 p. QL508.A2M5  
Bibliography, p.249-257.  
Proefschrift—Wageningen. Landbouwhogeschool.  
Effects on respiratory metabolism.
- 83966 MOUTON, J. Effects of castration on the inferior neurosecretory cells of the infra esophageal ganglion in the phasmid, *Carausius morosus* (Phasmidae, Orthoptera). (Fr) *Acad. Sci. C. R. Ser. D*, 266(20):2120-2121. Ref. May 13, 1968. 505 P21
- 83967 NAGL, W. Sex chromatin of a locust [*Ephippigera vitum*]. (Ge) *Naturwissenschaften* 55(3):138. Mar. 1968. 474 N213
- 83968 NISHITSUTSUJI-UWO, J., and PITTENDRIGH, C. S. Central nervous system control of circadian rhythmicity in the cockroach [*Leucophaea maderae*]. II-III. *Z. Vergleichende Physiol.* 58(1):1-46. Ref. 1968. 444.8 Z3  
II, The pathway of light signals that entrain the rhythm; III, The optic lobes, locus of the driving oscillation?
- 83969 NORRIS, M. J. Laboratory experiments on oviposition responses of the desert locust, *Schistocerca gregaria* (Forsk.). *Anti-Locust Bull.* 43,47 p. Ref. 1968. 420 B772A
- 83970 ORLANDO, E. DNA synthesis in the follicular cells of *Carausius morosus* Br. (Phasmidae). *Experientia* 24(4):386-387. Apr. 15, 1968. 475 Ex7
- 83971 ORMIERES, R. Apropos some Gregarina of Blaps from Greece. (Fr) *Vie Milieu, Ser. C, Biol. Terrestre* 18(1):247-250. 1967, pub. 1968. QH 301.V5  
English summary.  
Blaps tibialis and B. gigas.
- 83972 PAU, R. N., and ACHESON, R. M. The identification of 3-hydroxy-4-0-beta-D-glucosidobenzyl alcohol in the left colleterial gland of *Blaberus discoidalis*. *Biochim. Biophys. Acta* 158(2):206-211. Ref. May 14, 1968. 381 B522
- 83973 READ, K. L. Q., and ASHFORD, J. R. A system of models for the life cycle of a biological organism. *Biometrika* 55(1):211-221. Mar. 1968. 442.8 B522  
The grasshopper *Chorthippus parallelus*.
- 83974 ROBERTSON, E. R. Our unpaid gardeners. *New Zeal. J. Agr.* 116(5):50-51, 53. May 1968. 23 N48J  
Behavior of the preying mantis *Orthodera ministralis*.
- 83975 ROSEN, M. H., FRIED, G. H., and SCHAEFER, C. W. A comparative study of the activities of alpha-glycerophosphate dehydrogenase and lactic dehydrogenase in muscles of the mouse, rat, frog, and American cockroach [*Periplaneta americana*]. *BioScience* 18(4):301-305. Ref. Apr. 1968. 500 Am322A
- 83976 ROSS, M. H., and COCHRAN, D. G. Genetic variability in the German cockroach [*Blattella germanica*]. II. A description of new mutants and linkage tests. *J. Hered.* 58(6):274-278. Nov./Dec. 1967. 442.8 Am3
- 83977 ROTH, L. M. Reproduction of some poorly known species of Blattaria. *Entomol. Soc. Amer. Ann.* 61(3):571-579. Ref. May 1968.
- 83978 ROTH, L. M. A tetratological specimen of *Pycnoscelus surinamensis*. *Entomol. Soc. Amer. Ann.* 61(3):777-779. May 1968. 420 En82
- 83979 ROUNDS, H. D., and GARDNER, F. E. A quantitative comparison of the activity of cardioacceleratory extracts from various portions of the cockroach [*Periplaneta americana*] nerve cord. *J. Insect Physiol.* 14(4):495-497. Apr. 1968. 421 J825
- 83980 SLIFER, E. H. Sense organs on the antennal flagellum of a praying mantis, *Tenodera angustipennis*, and of two related species (Mantodea). *J. Morphol.* 124(1):105-115. Ref. Jan. 1968. 444.8 J826  
*Tenodera aridifolia* and *T. australasiae*.
- 83981 USHERWOOD, P. N. R., RUNION, H. I., and CAMPBELL, J. I. Structure and physiology of a chordotonal organ in the locust leg. *J. Exp. Biol.* 48(2):305-323. Ref. Apr. 1968. 442.8 B77  
*Schistocerca gregaria*, *Locusta migratoria* and *Romalea microptera*.
- 83982 VIGNAU, J. The regular replacement of abortive embryos by new embryonic forms in the eggs of phasmid *Carausius morosus* Br.; histological observations of this substitutive embryony. (Fr) *Acad. Sci. Compt. Rend. Ser. D*, 265(19):1404-1407. Nov. 6, 1967. 505 P21
- 83983 WHITE, M. J. D. A gynandromorphic grasshopper [*Valanga irregularis*] produced by double fertilization. *Australian J. Zool.* 16(1):101-109. Ref. Feb. 1968. 410 Au73

General Entomology  
Smaller Orders

- 83984 BARLET, J. Skeleton and thoracic muscles of the *Lepismachilis y-signata* Kratochvil (Thysanura). (Fr) *Soc. Roy. Entomol. Belg. Bull. Ann.* 103:110-157. Ref. 1967. 420 B41



- 83985 BHAT, U. K. M. Occurrence of "giant muscle fibers" in the flight muscle of *Pantala falvenscens* (F.) (Libellulidae; Odonata). *Cur. Sci.* 37 (7):207-208. Apr.5,1968. 475 Sci23
- 83986 BIERINGER, H. Investigations of long-term herbicide tests. 4. Quantitative investigations of the soil *Collembola* in the long-term herbicide tests at Hohenheim. (Ge) *Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz*, Sonderheft 4:157-162. Ref. 1968. 464.8 Z33 English summary.
- 83987 BROWN, N. S. Methods for the study of tracheal system and copulatory apparatus in *Menacanthus stramineus*. *Entomol. Soc. Amer. Ann.* 61(3):788-789. May 1968. 420 En82
- 83988 CRUDEN, R. W. Chromosome numbers of some North American dragonflies (Odonata). *Can. J. Genet. Cytol.* 10(1):200-214. Ref. Mar.1968. 443.8 C16 111 spp.
- 83989 F. J. GAY reviews termite migration. *Pest Contr.* 36(6):28,30. June 1968. 449.8 Ex8
- 83990 GAUMONT, J. Latest observation on disappearance of cryptonephridium in the aquatic larvae of *Planipennia*. (Fr) *Acad. Sci. C. R. Ser. D*, 266(20):2097-2099. May 13,1968. 505 P21
- 83991 HERFS, A. Common names for termites. (Ge) *Anz. Schädlingkunde* 41(4):55-57. Apr.1968. 421 An9 In all the world.
- 83992 MURALEEDHARAN, K., and PANDE, B. P. A damselfly [*Enallagma parvum*] as the second intermediate host of a pleurogenetine trematode. *Cur. Sci.* 36(23):639-641. Dec.5,1967. 475 Sci23
- 83993 PARVIN, D. E., and COOK, P. P. Regeneration of appendages in damselflies. *Entomol. Soc. Amer. Ann.* 61(3):784-785. May 1968. 420 En82 *Ischnura perparva*, *I. cervula*, and *Enallagma boreale*.
- 83994 RICHARDS, A. G., and RICHARDS, P. A. Flea *Ctenophthalmus*: Heterogeneous hexagonally organized layer in the midgut. *Science* 160(3826):423-425. Apr.26,1968. 470 Sci2
- 83995 RUPPRECHT, R. The drumming of the Plecoptera (Insecta). (Ge) *Z. Vergleichende Physiol.* 59(1):38-71. Ref. 1968. 444.8 Z3 English summary.
- 83996 STADDON, B. W., and GRIFFITHS, D. Some observations on the food of *Aeshna juncea* (L.) nymphs (Odonata) with particular reference to *Corixidae* (Hemiptera). *Entomol. Mon. Mag.* 103(1241/1243):226-230. Ref. Oct./Dec.1967, pub. Mar.30,1968. 421 En86 Great Britain.
- 83997 TANAKA, T. Morphological and biological studies of thysanopterous insects on rice plants. 11 p. *Transl.* 16727 Translation from *Oyo Konchu* 7(3):125-133. 1951.
- TAXONOMIC AND GEOGRAPHIC ENTOMOLOGY**
- 83998 BOURGOGNE, J. Elementary information on types. (Fr) *Alexandria* 5(5):193-202. Mar.28, 1968. 421 AL2
- 83999 CANTRALL, I. J. Some R. R. Dreisbach collecting localities in southeastern Texas and northeastern Mexico. *Mich. Entomol.* 1(8):285-286. June 1968. QL461.M5
- 84000 CARTWRIGHT, O. L. Meredith, South Carolina. *Coleopt. Bull.* 22(1):27. Mar.1968. 421 C674 Identifying it as insect habitat.
- 84001 DE LATTIN, G. *Grundriss der Zoogeographie [Principles of zoogeography]*. Stuttgart, Gustav Fischer Verlag, 1967. 602 p., map. (Hochschulbücher für Biologie, v. 12) 442.9 H65 Bibliography, p.449-499. Includes insects.
- 84002 GIVEN, B. B. List of insects collected on Niue Island during February and March, 1959. *New Entomol.* 4(1):40-42. Dec.1967, pub. Mar. 1968. 421 N48
- 84003 HARCOURT, D. G., and LEROUX, E. J. Population regulation in insects and man. (Fr) *Phytoprotection* 49(1):1-18. Ref. Feb.1968. 464.8 P566 English summary.
- 84004 KABIR, S. M. H. Insect pests of rice in East Pakistan and their control. *PANS (Pest Articles News Sum.) Sect. A, Insect Contr.* 14(2):244-248. May 1968. 423.92 G798
- 84005 KITCHING, R. Some insects from Lake Tana, Ethiopia. *Entomol. Mon. Mag.* 103(1241/1243):268-272. Oct./Dec.1967, pub. Mar.30,1968. 421 En86 Terrestrial species.
- 84006 KULKARNY, H. L. General entomology for agricultural students. New York, Asia Publishing House, 1967. 291 p. Ref. SB931.K8 Stresses anatomy, physiology, and taxonomy of insects in India.
- 84007 MACAN, T. T., and MAUDSLEY, R. The insects of the stony substratum of Windermere. *Soc. Brit. Entomol. Trans.* 18(1):1-18. Ref. Mar.1968. 420 So15 Collecting aquatic insects.
- 84008 MANSON, D. C. M. Notes on insects taken in New Zealand. *New Entomol.* 4(1):45-47. Dec.1967, pub. Mar.1968. 421 N48
- 84009 PEI, H. L. List of important injurious insects in storage. (Ch) *Chien Yen* 1:21-30. Jan.1968. TX501.C5
- 84010 PODKOPAI, I. E. Pests of rice. (Rus) *Zashch. Rast.* 5:27-29. 1968. 421 Z1 A list of insects.
- Taxonomic and Geographic Entomology**  
*Arachnida, Myriapoda, etc.*
- 84011 BOHM, H. Mites, pests in gardens and homes. (Ge) *Pflanzenarzt.* 21(4):48-49. Apr.1,1968. 464.9 P482
- 84012 COOK, D. R. New species of *Neacar* Halbert and *Volsellacar* Cook from North America (Acarina: Neacaridae). *Entomol. Soc. Wash. Proc.* 70(1):67-74. Mar.1968. 420 W27
- 84013 COOKE, J. A. L. Additions to the County records of spiders. *Entomol. Mon. Mag.* 103(1241/1243):234-236. Oct./Dec.1967, pub. Mar.30,1968. 421 En86 Great Britain.
- 84014 COOKE, J. A. L. Factors affecting the distribution of some spiders of the genus *Dysdera* (Araneae, Dysderidae). *Entomol. Mon. Mag.* 103(1241/1243):221-225. Oct./Dec.1967, pub. Mar.30,1968. 421 En86
- 84015 CUNLIFFE, F. A new species of *Pimeliophilus* [P. trogadermus] from California (Acarina: Pterygosomidae). *Entomol. Soc. Wash. Proc.* 70(1):1-4. Mar.1968. 420 W27
- 84016 DUSBABEK, F. Two new species of the genus *Ewingana* (Acarina, Myobiidae) from Cuba. *Folia Parasitol.* 15(1):67-74. 1968. 426.8 C33
- 84017 FAIN, A. Mites living in nests or detritus in Africa south of the Sahara. III. New species and new genera in the subfamily Labidophorinae and Grammolichinae [n. sfam.] (Glycyphagidae: Sarcoptiformes). (Fr) *Acarologia* 10(1):86-110. Jan.1968. 434.8 Ac1 New spp. in *Grammolichus* n. g., *Sclerolichus* n. g., and *Tropilichus* n. g.
- 84018 FEIDER, Z. The larva and nymph of *Podothrombium crassicutatum* (Podothrombiidae, Acariformes). (Fr) *Acarologia* 10(1):29-43. Ref. Jan.1968. 434.8 Ac1

- 84019 GOMELAURI, L. A. New species of ticks from the family of Phytoseiidae (Berlese) from the eastern Georgia (Acarina, Gamasioidea). (Rus) Akad. Nauk Gruz. SSR. Soobshch. 49(3):601-606. Mar.1968. 511 Ak146  
Amblyseius kalandadzei, A. omaloensis and A. kadzhajai.
- 84020 GRANDJEAN, F. Schusteria littorea n. g., n. sp. and the Selenoribatidae (Oribatei). (Fr) Acarologia 10(1):116-150. Ref. Jan.1968. 434.8 Ac1
- 84021 GUTIERREZ, J. New Tetranychidae from Madagascar. (Fr) Acarologia 10(1):13-28. Jan. 1968. 434.8 Ac1  
New spp. in Trichonychus n. g., Eotetranychus, and Schizotetranychus.
- 84022 HOOGSTRAAL, H., KAISER, M. N., and KOHLS, G. M. The subgenus Persicargas (Ixodoidea, Argasidae, Argas). 5. A. (P). zumpti, new species, a parasite of the South African cape vulture. Entomol. Soc. Amer. Ann. 61(3):744-751, map. Ref. May 1968. 420 En82
- 84023 HOOGSTRAAL, H., SANTANA, F. J., and VAN PEENEN, P. F. D. Ticks (Ixodoidea) of Mt. Sontra, Danang, Republic of Vietnam. Entomol. Soc. Amer. Ann. 61(3):722-729. Ref. May 1968. 420 En82
- 84024 HUNTER, P. E., and GLOVER, S. The genus Passalobia Lombardini, 1926, with description of a new species (Acarina: Diarthrophallidae). Entomol. Soc. Wash. Proc. 70(1):38-42. Mar. 1968. 420 W27  
Passalobia dubineriae n. sp.
- 84025 HUNTER, P. E., and GLOVER, S. J. Hypoaspis (Laelaspis) mites from North America and Mexico (Acarina, Dermanyssidae, Laelapinae). Fla. Entomol. 51(2):63-73. June 1968. 420 F662  
Four new species.
- 84026 HUNTER, P. E., and MOSER, J. C. Pseudoparasitus thatcheri n. sp. (Acarina, Dermanyssidae, Laelapinae) associated with southern pine beetles [Dendroctonus frontalis]. Fla. Entomol. 51(2):119-124. June 1968. 420 F662  
Louisiana.
- 84027 KASTON, B. J. Remarks on black widow spiders with an account of some anomalies. Entomol. News [Philadelphia] 79(5):113-124. Ref. May 1968. 421 En88  
Latrodectus spp. taxonomy.
- 84028 LEVI, H. W. The spider genera Gea and Argiope in America (Araneae, Araneidae). Harvard Univ. Mus. Compar. Zool. Bull. 136(9):319-352, map. Ref. Apr.15,1968. 500 H26B  
Includes n. spp. in Argiope.
- 84029 LEWIS, J. G. E. Individual variation in a population of the centipede Scolopendra amazonica from Nigeria and its implications for methods of taxonomic discrimination in the Scolopendridae. Linn. Soc. London. J. Zool. 47(312):315-326. Ref. Apr.1968. 410.9 L64
- 84030 LUNDBLAD, O. Die Hydracarinene Schwedens. [The Hydracarina of Sweden]. III. Arkiv. Zool. 21(1),633 p, map. 1968. 410.9 Sv22
- 84031 MANSON, D. C. M. The spider mite family Tetranychidae in New Zealand. IV. Two new species of Tetranychus and a revised key to the genus. New Zeal. J. Sci. 10(4):1083-1091. Dec.1967. 514 N482  
Tetranychus elsae, and T. eyrewellensis.
- 84032 MCDANIEL, B. The genus Eulabidocarpus Lawrence (Acarina: Listrophoridae). Entomol. Soc. Wash. Proc. 70(1):85-87. Ref. Mar.1968. 420 W27
- 84033 MITCHELL, C. J. Taxonomy, distribution, and host associations of Laelaps myonyssognathus Grochovskaya and Nguyen (Acarina: Laelapidae). J. Med. Entomol. 5(1):93-99. Feb.1968. 421 J828
- 84034 MONNIOT, F. The genus Actacarus (Halacaridae). (Fr) Acarologia 10(1):6-12. Jan.1968. 434.8 Ac1  
English summary.  
Actacarus illustrans redescribed.
- 84035 MOSS, W. W. An illustrated key to the species of the acarine genus Dermanyssus (Mesostigmata: Laelapoidea: Dermanyssidae). J. Med. Entomol. 5(1):67-84. Feb.1968. 421 J828
- 84036 MUCHMORE, W. B. A new species of the pseudoscorpion Serianus (Arachnida, Chelonetida, Ophiidae) from North Carolina. Entomol. News [Philadelphia] 79(6):145-150. June 1968. 421 En88  
Serianus carolinensis.
- 84037 OKEREKE, T. A. A new laelapine mite from Western Nigeria. Acarologia 10(1):1-5. Jan. 1968. 434.8 Ac1  
Ornitholaelaps nidi n. g., n. sp.
- 84038 PUZACHENKO, YU. G., and KRIVOLUTSKII, D. A. Zoogeographic notes about oribatoid mites of northern Evenki area. (Rus) Moscow. Univ. Vestnik. Ser. 5, Geogr. 2:99-102. Mar./Apr.1968. 331.9 M85  
English summary.
- 84039 RAMSAY, G. W. The argasid tick Ornithodoros capensis Neumann, from the Kermadec Islands. New Entomol. 4(1):32-34. Dec.1967, pub. Mar. 1968. 421 N48
- 84040 ROBAUX, P. The Spelaeothrombiinae: the status of the genus Typhlothrombium Berlese 1910 and description of two new genera (Acari: Thrombidiidae). (Fr) Acarologia 10(1):44-64. Ref. Jan.1968. 434.8 Ac1  
Includes n. spp. in Neotyphlothrombium n. g. and Paratyphlothrombium n. g.
- 84041 ROBSON, J., ROBB, J. M., and AL-WAHAYYIB, T. Ticks (Ixodoidea) of domestic animals in Iraq. 2. J. Med. Entomol. 5(1):27-31. Feb. 1968. 421 J828
- 84042 SAKAKIBARA, I. New species and records of bird nasal mites from New Guinea (Acari: Mesostigmata, Rhinonyssidae). J. Med. Entomol. 5(1):13-20. Feb.1968. 421 J828  
New spp. in Ruandanyssus and Ptilonyssus.
- 84043 SMILEY, R. L. A new genus and three new species of Erythraeoidea (Acarina: Erythraeidae and Smarididae). Entomol. Soc. Wash. Proc. 70(1):13-21. Mar.1968. 420 W27  
Balaustium putnami n. sp., Sphaerolophus canadensis n. sp., and Paraphanolophus metcalfei n. g., n. sp.
- 84044 STAHNKE, H. L. Some diplocentrid scorpions from Baja California del sur, Mexico. Calif. Acad. Sci. Proc. (ser.4)35(14):273-320. Feb.21, 1968. 500 C12P  
Includes n. spp. in Didymocentrus and Bioculus n. g.
- 84045 SUZUKI, S. A remarkable new phalangoid, Parabeloniscus nipponicus Phalangodidae, Opiliones, Arachnida) from Japan. Annot. Zool. Jap. 40(4):194-199. Dec.1967. 410 An79
- 84046 THOMAS, P. A. Geographic variation of the rabbit tick, Haemaphysalis leporispalustris, in North America. Kans. Univ. Sci. Bull. 47(13):787-828. Ref. Feb.15,1968. 500 K132S
- 84047 TRAVE, J. On the subject of Phauloppia saxicola Trave and the genus Pseudoppia Perez-Inigo, 1966 (Acarina, Oribatei). (Fr) Vie Milieu, Ser. C, Biol. Terrestre 18(1):207-213. 1967, pub.1968. QH301.V5
- 84048 VAINSHTEIN, B. A. On the numerical taxonomy. (Rus) Zhur. Obshch. Biol. 29(2):153-167. Ref. Mar./Apr.1968. 442.8 Z6  
English summary.  
Phytoseiidae.
- 84049 VERCAMMEN-GRANDJEAN, P. H. Revision of the genus Myotrombicula Womersley and Heaslip, 1943 (Trombiculidae: Acarina). Acarologia 10(1):65-85. Ref. Jan.1968. 434.8 Ac1  
Includes n. spp.
- 84050 WUNDERLIN, T. F., and WUNDERLIN, R. P. A new species of the Pseudoscorpion genus Parobisium from Utah (Arachnida, Chelonethida, Neobisiidae). Amer. Midland Natur. 79(2):531-534. Apr.1968. 410 M58  
Parobisium utahensis.



Taxonomic and Geographic Entomology  
Coleoptera

- 84051 ALLEN, A. A. *Dorytomus affinis* Payk. (Col., Curculionidae) in Kent and notes on its British allies. *Entomol. Mon. Mag.* 103(1241/1243): 264-267. Oct./Dec.1967, pub. Mar. 30, 1968. 421 En86
- 84052 ALLEN, A. A. *Leiodes clavicornis* Rye (Col., Leioididae) new to England; with diagnostic notes. *Entomol. Mon. Mag.* 103(1241/1243): 262-263. Oct./Dec.1967, pub. Mar. 30, 1968. 421 En86
- 84053 ALLEN, A. A. A note on *Strangalia aurulenta* F. (Col., Cerambycidae) in Sussex. *Entomol. Mon. Mag.* 103(1241/1243):236. Oct./Dec. 1967, pub. Mar. 30, 1968. 421 En86
- 84054 ANGELES, N. DE J. Presence of the "potato weevil" *Premnotrypes vorax* (Curculionidae: Coleoptera) in the Andes region of Venezuela. (Sp) *Agron. Trop.* [Maracay] 16(4):295-298. Oct./Dec.1966. 26 Ag87  
English summary.
- 84055 BLAKE, D. H. Ten new chrysomelid beetles from Dominica and Jamaica. *Entomol. Soc. Wash. Proc.* 70(1):60-67. May.1968. 420 W27  
New spp. in *Habrophora*, *Alethaxius*, *Metachroma*, *Galerucella*, *Oedionychus*, *Hadropoda*, *Lactica*, *Heikertingerella*, *Sidfaya*, and *Homo-schema*.
- 84056 BLOCK, W. Some lamellicorn beetles (Col., Scarabaeoidea) from East Africa. *Entomol. Mon. Mag.* 103(1241/1243):284-285. Oct./Dec. 1967, pub. Mar. 30, 1968. 421 En86
- 84057 BUCK, F. D. *Lathridius bifasciatus* Reitt. (Col., Lathridiidae) habitats. *S. London Entomol. Natur. Hist. Soc. Proc. Trans.* 1967(4): 99. Dec.1967. 420 S08
- 84058 CAMPBELL, J. M. A revision of the Mexican and Central American species of *Isomira* (Coleoptera, Alleculidae). *Can. Entomol.* 100 (5):449-469. May 1968. 421 C16  
Includes n. spp.
- 84059 CARTWRIGHT, O. L. *Ataenius frankenbergeri* Balthasar. *Coleopt. Bull.* 22(1):27. Mar.1968. 421 C674  
Collected in the Southern United States.
- 84060 DOWNIE, N. M. *Brachypterolus pulicarius* L. (Nitidulidae). *Coleopt. Bull.* 22(1):30. Mar. 1968. 421 C674  
Collected in Idaho.
- 84061 EASTON, A. M., and JOHNSON, C. *Acrotrichis rugulosa* Rossk. (Col., Ptiliidae) an addition to the British list. *Entomol. Mon. Mag.* 103 (1241/1243):239-240. Oct./Dec.1967, pub. Mar.30,1968. 421 En86
- 84062 GUPTA, T. S. A new subfamily [Toraminae] of Languriidae (Coleoptera) based on four genera, with a key to the species of Toramus. *Roy. Entomol. Soc. London. Proc. Ser. B, Taxonom.* 36(11/12):167-176. Ref. Dec.29,1967. 420 L84Pb  
Includes n. spp. in Toramus.
- 84063 GUR'EVA, E. L., and TUGUSHEVA, R. S. A new sp. of click beetle of the genus *Denticoloides* Gurjeva (Coleoptera, Elateridae). (Rus) *Akad. Nauk Kaz. SSR. Izv. Ser. Biol. Nauk* 6: 64-65. Nov./Dec.1967. 442.8 AL6  
*Denticoloides bajtenovi* sp. n.
- 84064 HALSTEAD, D. G. H. A new genus and species of Lathridiini [Herfordia elegans] (Coleoptera: Lathridiidae) from farm stores in Kenya. *Roy. Entomol. Soc. London. Proc. Ser. B, Taxonom.* 36(11/12):177-180. Dec.29,1967. 420 L84Pb
- 84065 HICKS, S. D. The possibility of discovering new species in the genus *Oberia* (Coleoptera: Cerambycidae). *Coleopt. Bull.* 22(1):30. Mar. 1968. 421 C674  
In Pennsylvania.
- 84066 HOWDEN, H. F. Generic relationships of Tyche, Plectrodes, Dinacoma and Hypotrichia, with description of a new genus and species from eastern Texas (Coleoptera, Scarabaeidae, Melolonthini). *Can. Entomol.* 100(5):542-548. May 1968. 421 C16  
*Hypothyce mixta*, n. g., n. spp.
- 84067 JOHNSON, C. Some new synonymy in the Ptiliidae (Col.). *Entomologist* [London] 101(1259): 76-79. Apr.1968. 421 En8
- 84068 JOLIVET, P. The varieties of *Timarcha punctella* Latreille (Col., Chrysomelidae) of Morocco. II. Description the varieties of *T. punctella*. (Fr) *Soc. Linn. Lyon. Bull. Mens.* 37(3):113-118. (Cont.) Ref. Mar.1968. 505 L992B  
English summary.
- 84069 KEVAN, D. K. *Hydnobius perrisi* Fairmaire (Col., Leioididae) in Fife. *Entomol. Mon. Mag.* 103(1241/1243):249. Oct./Dec.1967, pub. Mar.30, 1968. 421 En86
- 84070 KINGSOLVER, J. M. A review of the obtectus group in Acanthoscelides Schlisky, with designations of lectotypes (Coleoptera: Bruchidae: Bruchinae). *Entomol. Soc. Wash. Proc.* 70(1): 4-9. Ref. Mar.1968. 420 W27
- 84071 LAURENT, L. The sub-family Tetralobinae (Coleoptera, Elateridae). (Fr) *Soc. Roy. Entomol. Belg. Bull. Ann.* 103:83-109. 1967. 420 B41  
English summary.  
Includes n. spp. in *Tetralobus*, *Pseudalaus* n. g., *Tetralobus* (Sinelater) n. sgen., and *Piezophyllus* (Hopelater) n. sgen.
- 84072 LLOYD, J. E. A new *Photinus* firefly, with notes on mating behavior and a possible case of character displacement (Coleoptera: Lampyridae). *Coleopt. Bull.* 22(1):1-10. Mar.1968. 421 C674  
*Photinus concisus* n. sp.
- 84073 MAKINGS, P. The cardinal beetle *Pyrochroa serraticornis* (Scop.) (Col., Pyrochroidae) in South Wales. *Entomol. Mon. Mag.* 103, 1241/1243:246. Oct./Dec.1967, pub. Mar.30, 1968. 421 En86
- 84074 MILLIAT, J., and SCHAEFER, L. Study of the *Laptura dubia* Scop. group, belonging to the French fauna (Col., Cerambycidae). II. (Fr) *Soc. Linn. Lyon. Bull. Mens.* 37(3):119-127. Mar.1968. 505 L992B
- 84075 NEBOISS, A. The type of *Omma mastersi* Macleay, (Coleoptera; Cupedidae). *Melbourne. Nat. Mus. Victoria. Mem.* 28:21. 1968. 514 M484
- 84076 NELSON, G. H. Notes on Buprestidae (Coleoptera). VI. *Coleopt. Bull.* 22(1):28-30. Mar. 1968. 421 C674  
Taxonomy and nomenclature.
- 84077 PUTHZ, N. Contribution to the study of Steninae. 50. Coleoptera from North-East Africa, Staphylinidae. (Ge) *Notulae Entomol.* 48(2):81-90, map. Ref. 1968. 421 N84  
Taxonomic study of the genus *Stenus*.
- 84078 PUTHZ, V. Two new African species of the genus *Stenus* Latreille (Coleoptera: Staphylinidae). *Roy. Entomol. Soc. London. Proc. Ser. B, Taxonom.* 36(11/12):183-185. Dec.29,1967. 420 L84Pb  
*Stenus balfourbrownei* n. sp. and *S. trepidillus* n. sp.
- 84079 SCHEDL, K. E. New platypodid from Australia. *Melbourne. Nat. Mus. Victoria. Mem.* 28: 15-16. 1968. 514 M484  
Platypus incomptus.
- 84080 SILFVERBERG, H. On the distribution of Coleoptera in the Tvarminne archipelago. *Notulae Entomol.* 48(1), 21 p., map. Ref. 1968. 421 N84
- 84081 STEPHENS, K. Notes on additional distribution and ecology of *Euxestus punctatus* Lec. (Coleoptera: Colydiidae). *Coleopt. Bull.* 22(1): 19. Mar.1968. 421 C674  
Canada.

- 84082 STEPHENS, K. Observation on *Pelecotoma flavipes* Melzheimer (Coleoptera: Rhipiphoridae). *Coleopt. Bull.* 22(1):30. Mar. 1968. 421 C674  
Captured on trunk of a dead elm tree in Ontario.
- 84083 VAURIE, P. The nawradli species group of *Rhodobaenus* (Coleoptera, Curculionidae, Rhynchophorinae). *Amer. Mus. Novitates* 2310, 36 p., map. Ref. Nov. 30, 1967. 500 N483N
- 84084 VAURIE, P. New weevils of the genus *Metamasius* from Central and South America (Coleoptera, Curculionidae, Rhynchophorinae). *Amer. Mus. Novitates* 2316, 9 p. Mar. 15, 1968. 500 N483N
- 84085 WATT, J. C. Specific synonymy in *Mimopeus* Pascoe (Cilibe auctorum), and the nomenclatural status of some related genera (Coleoptera, Tenebrionidae). *New Entomol.* 4(1):35-39. Dec. 1967, pub. Mar. 1968. 421 N48
- 84086 WESTRA, H. *Hygrobia hermanni* Ol., the mud beetle (Col., Hygrobiidae). (Du) *Entomol. Ber.* 27(2):37-39. Feb. 1, 1967. 420 N38B  
English summary.  
Includes description of a net used for collecting in a shallow pool.
- 84087 WILLIAMS, S. A. *Clambus nigrellus* Reitter (Col., Clambidae) in North Wales. *Entomol. Mon. Mag.* 103(1241/1243):279. Oct./Dec. 1967, pub. Mar. 30, 1968. 421 En86
- 84088 WILLIAMS, S. A. *Gyrophana pseudonana* Strand (Col., Staphylinidae) in Cambridgeshire: an addition to the British list. *Entomol. Mon. Mag.* 103(1241/1243):250. Oct./Dec. 1967, pub. Mar. 30, 1968. 421 En86
- 84089 WITTMER, W. A genus of Malachiidae new to the United States. *Coleopt. Bull.* 22(1):18-19. Mar. 1968. 421 C674  
*Ebaeus viridescens* n. sp. collected in Colorado.
- 84090 ZHANTIEV, R. D. A contribution to the taxonomic analysis of genus *Dermestes* (Coleoptera, Dermestidae). (Rus) *Zool. Zh.* 46(9):1350-1356. Sept. 1967. 410 R92  
English summary.  
Includes *Dermestes* and *Dermestinus* n. sgen.
- 84091 ZIMMERMAN, E. C. The Australian weevil genus *Nyella* (Coleoptera: Curculionidae: Baridinae). *Melbourne. Nat. Mus. Victoria. Mem.* 28:11-14. 1968. 514 M484
- 84092 ZIMMERMAN, E. C. The genus *Microplatymerus* of the Seychelles (Coleoptera: Curculionidae: Cossoninae). *Entomol. Soc. Wash. Proc.* 70(1):27-32. Mar. 1968. 420 W27
- 84093 ZIMMERMAN, E. C. Notes on the name *Leptopiinae* (Coleoptera: Curculionidae). *Coleopt. Bull.* 22(1):16-17. Mar. 1968. 421 C674
- Taxonomic and Geographic Entomology  
Diptera
- 84094 ALEXANDER, C. P. New or little-known species of exotic Tipulidae (Diptera). XV. *Roy. Entomol. Soc. London. Proc. Ser. B, Taxonom.* 37(3/4):43-49. May 17, 1968. 420 L84Pb  
Includes n. spp. in *Ula*, *Dicranota*, *Antocha*.
- 84095 BELTON, P., and FRENCH, D. E. A specimen of *Aedes thibaulti* collected near Belleville, Ontario. *Can. Entomol.* 99(12):1336. Dec. 1967. 421 C16
- 84096 BESHOVSKI, V. L. Taxonomy of male of the species *Limosina* (Opacifrons) *maculifrons* Becker (1907) (Diptera, Sphaeroceridae). (Fr) *Roy. Entomol. Soc. London. Proc. Ser. B, Taxonom.* 37(3/4):41-42. May 17, 1968. 420 L84Pb
- 84097 BORGMEIER, T. New or little-known phorid flies, with the description of two new genera (Diptera, Phoridae). *Acad. Brasil. Cienc. An.* 39(1):195-210. Ref. 1967. 516 R473A  
Includes n. spp. in *Chonocephalus*, *Ceratura* n. g., and *Cyphocephalus* n. g.
- 84098 BRAM, R. A. A redescription of *Culex* (*Acal-leomyia*) *obscurus* (Leicester) (Diptera: Culicidae). *Entomol. Soc. Wash. Proc.* 70(1):52-57. Mar. 1968. 420 W27
- 84099 CARSON, H. L., and WHEELER, M. R. *Drosophila endobranchia*, a new drosophilid associated with land crabs in West Indies. *Entomol. Soc. Amer. Ann.* 61(3):675-678. May 1968. 420 En82
- 84100 COE, R. L. Notes on British Pipunculidae (Diptera). *Roy. Entomol. Soc. London. Proc. Ser. B, Taxonom.* 36(11/12):181-182. Dec. 29, 1967. 420 L84Pb
- 84101 COOK, S. F. The increasing chaoborid midge [*Chaoborus astictopus*] problem in California. *Calif. Vector Views* 14(6):39-44. June 1968. 449.8 C12
- 84102 CROSSLEY, R. Hoverflies and a bug from Caernarvonshire. *Entomologist* [London] 101 (1259):79. Apr. 1968. 421 En8  
*Eristalis abusivus*, *Pyrophana rosarum* (Syrphidae), and *Polymerus palustris* (Hemiptera-Heteroptera).
- 84103 DAHL, R. To the study of Ephydriidae (Diptera, Brachycera) from eastern Siberia. (Ge) *Notulae Entomol.* 48(1):35-39. 1968. 421 N84  
Includes n. spp. in *Hydrellia*, and *Psilopa*.
- 84104 DUCKHOUSE, D. A. Psychodidae (Diptera, Nematocera) collected by Mr. Plaumann in southern Brazil. *Roy. Entomol. Soc. London. Proc. Ser. B, Taxonom.* 37(3/4):29-40. Ref. May 17, 1968. 420 L84Pb  
Includes n. spp. in *Alepiea*, *Pericoma*, *Telmato-scopus*, *Psychoda*, and *Parasetomima* n. g.
- 84105 GAGNE, R. J. *Chrybaneura harrisoni*, a new genus and species from Central America (Diptera: Cecidomyiidae). *Entomol. Soc. Wash. Proc.* 70(1):33-35. Mar. 1968. 420 W27
- 84106 GUNTHER, R. G. A review of the Neorhynchocephalus (Diptera, Nemestrinidae) in Illinois with a new record. *Entomol. News* [Philadelphia] 79(6):153-154. June 1968. 421 En88
- 84107 HACKMAN, W. On the subgenus *Opacifrons* Duda of the genus *Leptocera* Olivier (Diptera, Sphaeroceridae) with a description of a new species from northern Fennoscandia. *Notulae Entomol.* 48(1):40-44. 1968. 421 N84  
*Leptocera* (*Opacifrons*) *flavilabris*.
- 84108 HEDLIN, A. F., and JOHNSON, N. E. A new species of *Camptomyia* (Diptera, Cecidomyiidae) from Douglas fir cones. *Can. Entomol.* 100(5):532-539. Ref. May 1968. 421 C16  
*C. pseudotsugae*.
- 84109 KNUTSON, L. V., and ZUSKA, J. A new species of *Pteromicra* and of *Euthycera* from Western North America (Diptera: Sciomyzidae). *Entomol. Soc. Wash. Proc.* 70(1):78-84. Mar. 1968. 420 W27  
*Pteromicra rudis* n. sp. and *Euthycera mira* n. sp.
- 84110 KRIVOSHEINA, N. P. Biology and morphology of little studied biting midges of the genus *Forcipomyia* Meigen (Diptera, Ceratopogonidae). (Rus) *Zool. Zh.* 47(4):578-590. Ref. Apr. 1968. 410 R92  
English summary.  
Includes *F. tinia*, *F. fidelis*, and *F. paradoxa* n. spp.
- 84111 LEHRER, A. Z., and DOBRIVOJEVIC, K. Card index of bioecological and morphological data from rearing entomophagous Diptera. VII-XIII. (Fr) *Soc. Roy. Entomol. Belg. Bull. Ann.* 103: 53-62. 1967. 420 B41  
VII, *Exorista jugoslavica* n. sp.; VIII, *Exorista fasciata*; IX, *Phryxe vulgaris*; X, *Eucarcelia excisa*; XI, *Alsomyia nidicola*; XII, *Pales pavida*; XIII, *Sturmia bella*.
- 84112 MARTIN, C. H. Revision of *Stenopogon* Loew (= *Scleropogon* Loew) as represented in Mexico (Diptera, Asilidae). *Calif. Acad. Sci. Proc.* (ser. 4) 35(17):371-400. Ref. Feb. 21, 1968. 500 C12P  
Includes n. spp.



- 54113 MCALPINE, J. F. An annotated key to drosophilid genera with bare or micropubescent aristae and a revision of *Paracacoxenus* (Diptera, Drosophilidae). *Can. Entomol.* 100(5):514-532. Ref. May 1968. 421 C16
- 54114 NIR, Y., and others. Isolation of West Nile virus strains from mosquitoes in Israel. *Amer. J. Epidemiol.* 87(2):496-501, map. Ref. Mar. 1968. 449.8 Am3  
R. Goldwasser, Y. Lásowski, and J. Margalit, joint authors.
- 54115 SKUHRAVY, V. Experiences concerning the beet fly (*Pegomya betae* Curt.) in Czechoslovakia. (Ge) *Zucker* 21(5):122-127, map. Mar. 1, 1968. 65.8 Z82  
English summary.  
Distribution.
- 54116 STEYSKAL, G. C. Notes on North American *Piophilidae*. III. (Diptera). *Entomol. Soc. Wash. Proc.* 70(1):25-27. Mar. 1968. 420 W27  
*Piophila nigrimana* and *P. nigricoxa*.
- 54117 STEYSKAL, G. C. Priority of the generic names *Tonnoiria* Malloch and *Tonnoiria* Parment (Diptera). *Entomol. Soc. Wash. Proc.* 70(1):87. Mar. 1968. 420 W27
- 54118 STRUKAN, D. Notes on two little known *Sarcophaginae* from Yugoslavia (Diptera, *Sarcophagidae*). (Fr) *Cah. Natur. (n.s.)* 23(2):45-47. 1967. 410 F432  
*Sarcophaga subvicina* and *S. arcipes*.
- 54119 STUBBS, A. E. *Sapromyza basalis* Zett. (Dipt., *Lauxaniidae*) in Surrey. *Entomol. Mon. Mag.* 103(1241/1243):285. Oct./Dec. 1967, pub. Mar. 30, 1968. 421 En86
- 54120 WHITMAN, L., WALLIS, R. C., and LEVENTHAL, E. A. Isolation of a California-group arbovirus from *Aedes abseratus* (Felt and Young) in Simbury, Connecticut. *Amer. J. Trop. Med. Hyg.* 17(3):449-450. May 1968. 448.8 Am326
- 54121 WIJERS, D. J. B., and HUISENGA, J. A new species of *Lutzomyia* [*L. munangai*] from Surinam (Diptera, *Psychodidae*). *Bull. Entomol. Res.* 57(3):395-397. Nov. 1967. 421 B87
- 54122 WILLS, H. J. Diptera from Monks Wood National Nature Reserve. *Entomol. Rec. J. Variation* 80(5):137-140. (Cont.) May 1968. 421 En89
- 54123 WILSON, L. F. Dead alewives and black blowflies [*Phormia regina*] discourage bathers at Lake Michigan beaches. *Mich. Entomol.* 1(8):282-283. June 1968. QL461.M5
- Taxonomic and Geographic Entomology  
Hemiptera (Heteroptera and Homoptera)
- 54124 A'BROOK, J. The effect of plant spacing on the numbers of aphids trapped over the groundnut crop. *Ann. Appl. Biol.* 61(2):289-294. Ref. Apr. 1968. 442.8 An72  
Nigeria.
- 54125 ANUFRIEV, G. A. New and little known species of leafhoppers of the genus *Macrostelus* (Homoptera, *Auchenorrhyncha*) from the Soviet Far East. (Rus) *Zool. Zh.* 47(4):555-562. Apr. 1968. 410 R92  
English summary.  
*M. brunnescens*, *M. striifrons* and *M. ablu-dens* n. spp.
- 54126 BALIGA, H. A new species of *Corioxenos* (*Stylopoidea*) parasitizing *Antestiopsis cruciata* (F.) (Homoptera, *Pentatomidae*) in India. *Bull. Entomol. Res.* 57(3):387-393. Ref. Nov. 1967. 421 B87  
*Corioxenos raoi* n. sp.
- 54127 CANARD, M. A new cottony scale from the Mediterranean littoral: *Rhizopulvinaria maritima* nov. sp. (Coccidea-Coccidae). (Fr) *Vie Milieu, Ser. C, Biol. Terrestre* 18(1):159-167. 1967, pub. 1968. QH301.V5  
English summary.  
*Helichrysum stoechas* host plant.
- 54128 CANARD, M. The *Rhizopulvinaria* of Mediterranean pinks (Coccidea-Coccidae). (Fr) *Vie Milieu, Ser. C, Biol. Terrestre* 18(1):169-184. 1967, pub. 1968. QH 301.V5  
English summary.  
*Phizopulvinaria arenaria* n. sp. on *Dianthus pyrenaicus*, *R. saxatilis* n. sp. and *R. gracilis* n. sp. both on *Dianthus virgineus*.
- 54129 CAPRILES, J. M. A new genus and species of *Deltoccephalinae* from Puerto Rico (Homoptera: *Cicadellidae*). *Entomol. Soc. Wash. Proc.* 70(1):35-37. Mar. 1968. 420 W27  
*Krameraxus leucornatus* n.g., n.sp.
- 54130 CHOPRA, N. P. The higher classification of the family *Rhopalidae* (Hemiptera). *Roy. Entomol. Soc. London. Trans.* 119(12):363-399. Ref. Dec. 29, 1967. 420 L84  
Includes phylogeny.
- 54131 CHOPRA, N. P. A revision of the genus *Arhysus* Stal. *Entomol. Soc. Amer. Ann.* 61(3):629-655, map. Ref. May 1968. 420 En82  
Includes n. spp.
- 54132 FENNAH, R. G. A new genus and species [*Malaxodes farinosus*] of *Delphacidae* (Homoptera: *Fulgoroidea*) infesting molasses grass [*Melinis minutiflora*] in Kenya. *Bull. Entomol. Res.* 57(3):353-345. Nov. 1967. 421 B87
- 54133 GEGECHKORI, A. M. A new plant lice [*Triozia bathiashvili* Gegeth. n. sp.] (Homoptera, *Psylloidea*) from Georgia. (Rus) *Zool. Zh.* 47(4):637-638. Apr. 1968. 410 R92  
English summary.
- 54134 GHOURI, M. S. K. New mango leafhoppers from the Oriental and Austro-oriental regions (Homoptera: *Cicadelloidea*). *Roy. Entomol. Soc. London. Proc. Ser. B, Taxonom.* 36(11/12):159-166. Dec. 29, 1967. 420 L84Pb  
*Amrasca splendens* n. g., n. sp. and *Mangga-neura reticulata* n. g., n. sp.
- 54135 GHOSH, A. K., and RAYCHAUDHURI, D. N. New aphids from Northeast India (Homoptera). *Entomol. Soc. Amer. Ann.* 61(3):752-755. May 1968. 420 En82  
N. spp. in *Capitophorus*, *Macrosiphum*, and *Sinomegoura*.
- 54136 GORSKI, L. J. A new species of *Lygaeus* from Peru (Homoptera: *Lygaeidae*). *Entomol. Soc. Wash. Proc.* 70(1):74-77. Mar. 1968. 420 W27  
*Lygaeus slateri* n. sp.
- 54137 GRIGOROV, S. Leaf aphids new to Bulgarian fauna. (Bu) *Rast. Zasht.* 16(4):22-26. Ref. 1968. 423.92 So2  
Includes host plants.
- 54138 HERNANDEZ PAZ, M. Mealybugs of coffee. (Sp) *Rev. Cafetalera* 75:16-18. Nov. 1967. 68.28 R322  
*Pseudococcus citri* and *P. adonidum*, in Guatemala.
- 54139 HERNANDEZ PAZ, M. Mealybugs of roots. (Sp) *Rev. Cafetalera* 76:14-18. Dec. 1967. 68.28 R322  
Coffee pests in Guatemala.
- 54140 IGLISCH, I. Biological and morphological investigations of *Brachycaudus spiraeae* (Oestl.) C. B., an aphid injurious to *Spiraea* (Homoptera: *Aphididae*); a contribution on the determination, special morphology and chaetotaxy of aphids. (Ge) *Z. Angew. Entomol.* 60(4):417-459. Ref. Nov. 1967. 421 Z36
- 54141 KNIGHT, H. H. Review of genus *Orectoderus* Uhler with a key to the species (Hemiptera, *Miridae*). *Iowa State J. Sci.* 42(4):311-318. May 1968. 470 Io9  
Includes n. spp.
- 54142 KORMILEV, N. A. North and Central American species of *Aneurus* Curtis (Hemiptera, *Aradidae*). *U.S. Nat. Mus. Proc.* 125(3657), 12 p. Ref. 1968. 500 Sm65P  
Includes n. spp.
- 54143 KORMILEV, N. A. Notes on *Aradidae* in the U.S. National Museum. V. (Hemiptera, *Heteroptera*). *Smithson. Inst. U. S. Nat. Mus. Proc.* 125(3651), 16 p. 1968. 500 Sm65P  
Includes n. spp. in *Acariocoris*, *Eretmocoris*, *Aglaocoris*, *Aneurus*, and *Mezira*.

- 84144 KOSZTARAB, M. Cryptococcidae, a new family of the Coccoidea (Homoptera). Va. J. Sci. 19(1):12. Winter 1968. 470 V81
- 84145 KOSZTARAB, M., and HALE, D. L. A new Cryptococcus species from North America, with a key to the species of the genus (Homoptera: Coccoidea). Va. J. Sci. 19(1):7-11. Winter 1968. 470 V81  
Cryptococcus williamsi.
- 84146 KRAMER, J. P., and WHITCOMB, R. F. A new species of Baldulus from gamagrass [Tripsacum dactyloides] in Eastern United States with its possible implications in the corn stunt virus problem (Homoptera: Cicadellidae: Deltocephalinae). Entomol. Soc. Wash. Proc. 70(1): 88-94, map. Mar. 1968. 420 W27  
Baldulus tripsaci n. sp.
- 84147 KUMAR, R. Aspects of the morphology and relationships of the superfamilies Lygaeoidea, Piesmatodea and Pyrrhocoroidea (Hemiptera: Heteroptera). Entomol. Mon. Mag. 103 (1241/1243):251-261. Ref. Oct./Dec. 1967, pub. Mar. 30, 1968. 421 En86
- 84148 LEONARD, M. D. Further records of aphids from Plummers Island, Maryland. Entomol. Soc. Wash. Proc. 70(1):84. Mar. 1968. 420 W27
- 84149 LOWE, A. D. Pterocallis alni (DeGeer), an aphid not previously recorded from New Zealand. New Entomol. 4(1):34-35. Dec. 1967, pub. Mar. 1968. 421 N48
- 84150 MCKENZIE, H. L. Mealybugs of California, with taxonomy, biology, and control of North American species Homoptera, Coccoidea, Pseudococcidae. Berkeley, University of California Press, 1967. 525 p., map. Ref. QL523.P7M3  
Includes n. spp. in Anisococcus, Chorizococcus, Distichlicoccus, Dysmicoccus, Phenacoccus, Pseudococcus, Puto, Rhizococcus, Scaptococcus, Spilococcus, Trionymus, and a list of host plants.
- 84151 MILLER, N. C. E. A correction in reduviid (Hem.) nomenclature—Reduvius somalicus Miller, 1957. Entomol. Mon. Mag. 103 (1241/1243):233. Oct./Dec. 1967, pub. Mar. 30, 1968. 421 En86
- 84152 MITYAEV, I. D. Several new species of leafhoppers (Homoptera Cicadellidae) from southwestern Altai and Zaisan hollow. (Rus) Zool. Zh. 47(4):635-637. Apr. 1968. 410 R92  
English summary.  
In Edwardsiana, Kybos, Scleroracrus, Paluda, and Platymetopius.
- 84153 MORAN, V. C. The adult and immature stages of a new species in the genus Paurocephala (Homoptera, Psyllidae) from South Africa. Roy. Entomol. Soc. London. Proc. Ser. B, Taxonom. 37(3/4):50-56. Ref. May 17, 1968. 420 L84Pb  
Paurocephala calodendri.
- 84154 POLHEMUS, J. T. A report on the Saldidae collected by the Galapagos International Scientific Project 1964 (Hemiptera). Entomol. Soc. Wash. Proc. 70(1):21-24. Mar. 1968. 420 W27  
Includes Saldula galapagosana n. sp.
- 84155 RICHARDS, W. R. A new Salix-infesting Chaitophorus from Saskatchewan (Homoptera: Aphididae). Can. Entomol. 100(2):181-184. Feb. 1968. 421 C16  
Chaitophorus canens n. sp.
- 84156 SLATER, J. A., and WILCOX, D. B. New genera and species of Neotropical Blissinae (Hemiptera: Lygaeidae). Entomol. Soc. Wash. Proc. 70(1):42-52. Mar. 1968. 420 W27  
New spp. in Caveloblissus n. g., Praetorblissus, Reticulatodemus, and Patritiodemus.
- 84157 SMITH, C. F., and PEPPER, J. O. Grylloprociophilus frosti, new genus, new species, from the Eastern United States (Homoptera: Aphididae). Entomol. Soc. Wash. Proc. 70(1):57-60. Mar. 1968. 420 W27
- 84158 SQUIRE, F. A. Vinchucas in Bolivia. PANS (Pest Articles News Sum.) Sect. A. Insect Contr. 14(2):189-200, map. Ref. May 1968. 423.92 G798  
Triatominae.
- 84159 STROYAN, H. L. G. A replacement name in Myzus Passerini (Homoptera; Aphidoidea). Roy. Entomol. Soc. London. Proc. Ser. B, Taxonom. 36(11/12):186. Dec. 29, 1967. 420 L84Pb  
Myzus cymbalariellus n. n.
- 84160 WAGNER, E. Dionconotus Reuter, 1894 (Heteroptera, Miridae). (Ge) Notulae Entomol. 48(2): 55-61. 1968. 421 N84  
Taxonomic study.
- 84161 WAGNER, E. What is Grypocoris noualhieri Reuter, 1896 (Heteroptera, Miridae). (Ge) Notulae Entomol. 48(2):49-54. 1968. 421 N84  
Taxonomic study.
- 84162 WARD, A. Diaspididae on commercially grown orchids in New Zealand. New Entomol. 4(1):50. Dec. 1967, pub. Mar. 1968. 421 N48
- 84163 WOODROFFE, G. E. Further notes on some Hemiptera-Heteroptera from the Aviemore District, Inverness-shire. Entomol. Mon. Mag. 103(1241-1243):220. Oct./Dec. 1967, pub. Mar. 30, 1968. 421 En86
- Taxonomic and Geographic Entomology  
Hymenoptera
- 84164 ALLEN, D. C. The Phaeogenes sensu stricto of North America. Entomol. Soc. Amer. Ann. 61(3):625-629. May 1968. 420 En82  
Includes n. spp.
- 84165 AMSDEN, A. F. A quick method for cutting card triangles. Entomol. Mon. Mag. 103 (1241/1243):278-279. Oct./Dec. 1967, pub. Mar. 30, 1968. 421 En86  
For mounting Hymenoptera.
- 84166 BARRETT, K. E. J. The distribution of ants in central southern England. Soc. Brit. Entomol. Trans. 17(9):235-250, map. Ref. Mar. 1968. 420 So15
- 84167 BARRETT, K. E. J. A survey of the distribution and present status of the wood ant, Formica rufa L. (Hym., Formicidae), in England and Wales. Soc. Brit. Entomol. Trans. 17(8):217-233, map. Ref. Mar. 1968. 420 So15
- 84168 BEAUMONT, J. DE. Sphecoidea des Iles Canaries (Hymenoptera) [Sphecoidea of the Canary Islands (Hymenoptera)]. Brit. Mus. (Natur. Hist.) Bull. Entomol. 21(5):245-278, map. Ref. Feb. 23, 1968. 420 B773  
Includes n. spp. in Gorytes, Astata, Mischocyttarus, and Dasyproctus.
- 84169 BETREM, J. G. The natural groups of Campsomeriella Betr., 1941 (Hymenoptera, Scolidae). Entomol. Ber. 27(2):25-29. Feb. 1, 1967. 420 N38B  
Includes Rodriguimeris n. sgen. and Annulimeris n. sgen.
- 84170 BOTOC, M. New contributions to the study of Chalcidoidea of Romania. XIV. (Rum) Cluj. Univ. Babes-Bolyai. Stud. Ser. Biol. 13(1):95-98. Ref. 1968. 442.9 C62  
English summary.  
Chiefly taxonomy.
- 84171 CUMBER, R. A. Notes on a colony of Orectognathus antennatus Fr. Smith (Hymenoptera: Myrmicidae) from the Coromandel Peninsula. New Entomol. 4(1):43-44. Dec. 1967, pub. Mar. 1968. 421 N48
- 84172 EVANS, H. E. Mexican and Central American Pompilidae: supplementary notes, I. Entomol. News [Philadelphia] 79(6):159-167. June 1968. 421 En88  
Includes n. spp. in Allaporus, Agenioideus, and Priochilus.



- 84173 FINLAYSON, T. Taxonomy of final-instar larvae of the hymenopterous and dipterous parasites of *Acrobasis* spp. (Lepidoptera: Phycitidae) in the Ottawa region. *Can. Entomol.* 99 (12):1233-1271. Ref. Dec.1967. 421 C16
- 84174 FISCHER, M. On reared braconids (Hymenoptera, Braconidae). (Ge) *Pflanzenschutz-berichte* 37(7/9):97-140. Apr.1968. 464.9 P48 English summary.  
Includes n. spp. in *Habrobracon*, *Phanerotoma*, *Agathis*, *Heterospilus*, and *Meteorus*.
- 84175 GRIMBLE, D. G. A new nearctic species of *Barylpa* (Hymenoptera: Ichneumonidae). *Can. Entomol.* 99(12):1332-1333. Dec.1967. 421 C16  
*Barylpa irona* n. sp.
- 84176 HELLEN, W. *Platygasteridae* from Finland (Hymenoptera, Proctotrupoidea). (Ge) *Notulae Entomol.* 48(1):45-48. 1968. 421 N84
- 84177 KROMBEIN, K. V. Records and descriptions of additional *Scoliidae* from New Guinea. *Bismarck Archipelago*, and Solomon Islands (Hymenoptera, Aculeata). *U.S. Nat. Mus. Proc.* 125(3659), 19 p. 1968. 500 Sm65P  
Includes n. spp. in *Campsomeris*.
- 84178 LABERGE, W. E. A new bee of the genus *Andrena* from India (Hymenoptera, Andrenidae). *Entomologist [London]* 101(1260):97-100. May 1968. 421 En8  
*Andrena bellidoides*.
- 84179 LECLERCQ, J. Four new *Sphecidae* species (Hymenoptera) from Madagascar. (Fr) *Soc. Roy. Entomol. Belg. Bull. Ann.* 103:63-70. 1967. 420 B41  
*Cerceris beharensis*, *Liris crepitans*, *Tachysphex ambositrae*, and *Dasyproctus sakalavus*.
- 84180 LINDQUIST, E. The *Empria* species of Finland (Hymenoptera, Symphyta). (Ge) *Notulae Entomol.* 48(1):23-33. 1968. 421 N84  
Includes n. spp.
- 84181 ROBINSON, D. M. Generic relationships in the parasitic *Chalcidoidea*. *Entomol. Mon. Mag.* 103(1241/1243):231-233. Ref. Oct./Dec. 1967, pub. Mar. 30, 1968. 421 En86
- 84182 SCULLEN, H. A. *Cercerini* collection notes. II. (Hymenoptera, Sphecidae). *Entomol. News [Philadelphia]* 79(6):154-158, map. June 1968. 421 En88  
*Cerceris*.
- 84183 TAYLOR, R. W. The Australian workerless iniquiline ant *Strumigeris xenos* Brown (Hymenoptera-Formicidae) recorded from New Zealand. *New Entomol.* 4(1):47-49. Dec.1967, pub. Mar. 1968. 421 N48
- 84184 TAYLOR, R. W. Entomological survey of the Cook Islands and Niue. I. Hymenoptera-Formicidae. *New Zeal. J. Sci.* 10(4):1092-1095. Dec.1967. 514 N482
- 84185 WARNCKE, K. Bees from the genus *Andrena* F. from the Canary Islands. (Ge) *Notulae Entomol.* 48(2):68-80. 1968. 421 N84
- 84186 WEBER, N. A. Tobago Island fungus-growing ants (Hymenoptera, Formicidae). *Entomol. News [Philadelphia]* 79(6):141-145. June 1968. 421 En88
- 84187 WIEBES, J. T. Indo-Malayan and Papuan fig wasps (Hymenoptera, Chalcidoidea) 6. The genus *Eujacobsonia* Grandi (Torymidae). *Leiden Rijksmus. Natuur. Hist. Zool. Mededel.* 42(10):107-115. June 21, 1967. 410.9 L59  
Includes n. spp.
- Taxonomic and Geographic Entomology**  
**Lepidoptera**
- 84188 ALLEN, A. A. A note on the generic name *Sukidion* Druce (Lep., *Lycaenidae*). *Entomol. Mon. Mag.* 103(1241/1243):285. Oct./Dec.1967, pub. Mar. 30, 1968. 421 En86
- 84190 BOURGOGNE, J. Materials for a revision of the genus *Oreopsyche* (Psychidae). (Fr) *Alexandor* 5(5):217-229. Ref. (Concl.) Mar. 28, 1968. 421 AL2  
English summary.
- 84190 BOURSIN, C. List of the *Noctuidae* trifinae of France and Belgium. (Fr) *Alexandor* 5(5):232-240. (Concl.) Mar. 28, 1968. 421 AL2
- 84191 BROCK, J. P. The systematic position of the *Choreutinae* (Lep., *Glyphipterygidae*). *Entomol. Mon. Mag.* 103(1241/1243):245-246. Oct./Dec. 1967, pub. Mar. 30, 1968. 421 En86
- 84192 BROWN, F. M. Notes about North American butterflies described by Linnaeus in the tenth edition of *Systema Naturae*, 1758. *Lepidopterists' Soc. J.* 22(2):77-88. May 31, 1968. 421 L554
- 84193 CALDERARA, P. Butterflies at Collobrieres, Var, Alpes Maritimes, Provence in July and August 1967. *S. London Entomol. Natur. Hist. Soc. Proc. Trans.* 1967(4):100-102. Dec.1967. 420 So8
- 84194 CARTER, C. I. A change in the *Lepidoptera* of Hampstead after four decades. *S. London Entomol. Natur. Hist. Soc. Proc. Trans.* 1967(4):123-125. Dec.1967. 420 So8
- 84195 D'EWES, D. Butterflies from a Cape garden. *Country Life [London]* 143(3712):1030-1031. Apr. 25, 1968. 80 C83
- 84196 FAIRCLOUGH, R. *Luperina nickerlii* in the Dingle Peninsula, August 1967. *Entomol. Rec. J. Variation* 80(5):129-133. May 1968. 421 En89
- 84197 GRANVILLE, J. J. DE. Entomological journey in Corsica. (Fr) *Alexandor* 5(5):209-216, map. Mar. 28, 1968. 421 AL2
- 84198 HARLING, J. Meteorological factors affecting the activity of night flying Macro-Lepidoptera. *Entomologist [London]* 101(1259):83-93. Apr. 1968. 421 En8  
Collecting by light in Great Britain.
- 84199 HEMBROW, C. R. Report on butterfly migration 13th November, 1966. *Queensland Natur.* 18(5/6):115, map. Feb. 1968. 410 Q3
- 84200 HERBULOT, C. On some *Geometridae* from Sardinia. (Fr) *Alexandor* 5(5):231-232. Mar. 28, 1968. 421 AL2
- 84201 HESLOP, I. R. P. The purple emperor [*Apatura iris*] season of 1967. *Entomologist [London]* 101 (1259):94. Apr. 1968. 421 En8
- 84202 HOYING, L. A. A migration of *Vanessa cardui* (*Nymphalidae*) in Ohio. *Lepidopterists' Soc. J.* 22(2):118-119. May 31, 1968. 421 L554
- 84203 JOHNSON, J. H. *Lepidoptera* in North-East Derbyshire in 1967. *Entomol. Rec. J. Variation* 80(5):141-146. May 1968. 421 En89
- 84204 KURIR, A. Contribution to the biology and taxonomy of *Earias chlorana* L. (Ge) *Z. Angew. Entomol.* 61(3):298-344. Ref. Apr. 1968. 421 Z36  
English summary.
- 84205 LAJONQUIERE, E. DE. Entomological tour of Spain. (Fr) *Alexandor* 5(5):207-208. (Cont.) Mar. 28, 1968. 421 AL2  
*Zygaenidae* and *Psychidae*.
- 84206 LERAUT, P. Note on captures (*Rhopalocera*, *Geometridae*). (Fr) *Alexandor* 5(5):229. Mar. 28, 1968. 421 AL2
- 84207 LESSE, H. DE. *Agrodiaetus ripartii* Frey in the region of Barcelona (*Lycaenidae*). (Fr) *Alexandor* 5(5):203-205. Mar. 28, 1968. 421 AL2
- 84208 LOUIS-AUGUSTIN, J. Two rare aberrations of *Parnassius apollo* (*Papilionidae*). (Fr) *Alexandor* 5(5):230. Mar. 28, 1968. 421 AL2  
*Parnassius apollo novarae* and *P. a. fumata*.
- 84209 MARSDEN, D. A collecting trip to Northern Queensland, Australia. *Lepidopterists' Soc. J.* 22(2):121-122. May 31, 1968. 421 L554
- 84210 MASTERS, J. H. Collecting *Itomiidae* with heliotrope. *Lepidopterists' Soc. J.* 22(2):108-110. May 31, 1968. 421 L554
- 84211 MICHAEL, P. The carob moth [*Ectomyelois ceratoniae*]. West. Australia. *Dep. Agr. J.* (ser. 4) 9(2):81-82. Feb. 1968. 23 W52J

- 84212 MOECK, A. H. Mobility in a Wyoming population of *Speyeria atlantis* as determined by tagging (Lepidoptera: Nymphalidae). Mich. Entomol. 1(8):279-282. June 1968. QL461.M5
- 84213 MUNSH, G. H., and MOIZ, S. A. The pupa of *Polydorus aristolochiae* (Papilionidae). Lepidopterists' Soc. J. 22(2):115-117. May 31, 1968. 421 L554  
West Pakistan.
- 84214 NEWMAN, J. H. First records of the white pine shoot vorer, *Eucosma gloriola* (Lepidoptera: Olethreutidae) in Michigan. Mich. Entomol. 1(8):267-270. June 1968. QL461.M5
- 84215 NICULESCU, E. V. The taxonomic position of *Papilionoidea* Dyar and *Noctuoidea* Mosher (Lepidoptera). (Fr) Soc. Linn. Lyon. Bull. Mens. 37(3):108-110. Mar. 1968. 505 L992B
- 84216 OPLER, P. A., and LANGSTON, R. L. A distributional analysis of the butterflies of Contra Costa County, California. Lepidopterists' Soc. J. 22(2):89-107, map. May 31, 1968. 421 L554
- 84217 PENNINGTON, K. M. The progress in our knowledge of the *Rhopalocera* (Lepidoptera) of Southern Africa, and data on the great migration of *Catopsilia florella* Fabricius in 1966. Entomol. Soc. Southern Afr. J. 30(2):121-125. Sept. 30, 1967. 420 En86
- 84218 PERKINS, O. A. Addenda to the list of the butterflies of Michigan. Lepidopterists' Soc. J. 22(2):119-120. May 31, 1968. 421 L554
- 84219 ROTHCHILD, G. H. L. Descriptions of larval and pupal stages of four lepidopterous rice borers in Malaysian Borneo (Sarawak). Bull. Entomol. Res. 57(3):343-352. Ref. Nov. 1967. 421 B87
- 84220 SCHMIDT-KOEHL, W. Studies on the Macrolepidoptera fauna of the Saarland; results of collecting during the years 1965-1967. (Ge) Entomol. Z. 78(6):57-71. (Concl.) Ref. Mar. 15, 1968. 421 En85
- 84221 SEDYKH, K. F. New for the USSR species and subspecies of diurnal Lepidoptera (*Rhopalocera*) from the Gissar Ridge (Tadzhik SSR). (Rus) Zool. Zh. 47(4):639-640. Apr. 1968. 410 R92  
English summary.
- 84222 SEVASTOPULO, D. G. *Limacodidae*—East versus West Africa. S. London Entomol. Natur. Hist. Soc. Proc. Trans. 1967(4):98-99. Dec. 1967. 420 So8
- 84223 SHAPIRO, A. M. First additions to "Butterflies of the Delaware Valley." Entomol. News [Philadelphia] 79(6):150-152. June 1968. 421 En88
- 84224 VIETTE, P. Discovery of the female of *Pemphigostola synemonistis* Strand, 1909 (Lep. Agaristidae). (Fr) *Lambillionea* 67(1/2):5-7. Feb. 25, 1968. 420 N15
- 84225 VIETTE, P. New or little known quadrifinae noctuids from Madagascar. III. (Lep. Noctuidae). (Fr) *Lambillionea* 67(1/2):9-20. Feb. 25, 1968. 420 N15  
New spp. in *Taracocina*, *Tarache*, *Anomis*, *Parafodina*, *Odontina*, *Hypena*, and *Sarmatia*.
- 84226 WARLET, J. M. *Horisme aquata* Hubn. in Belgium. (Fr) *Lambillionea* 67(1/2):22-24. Feb. 25, 1968. 420 N15
- 84227 WARLET, J. M. *Plebeius argyrognomon* Bgstr.; supplementary note. (Fr) *Lambillionea* 67(1/2):21-22. Feb. 25, 1968. 420 N15  
Distribution.
- 84228 WILKINSON, C. A taxonomic revision of the genus *Teldenia* Moore (Lepidoptera: Drepanidae, Drepaninae). Roy. Entomol. Soc. London. Trans. 119(11):303-366. Ref. Dec. 29, 1967. 420 L84  
Includes n. spp.; also a comparison of numerical taxonomy with classical taxonomy of the same material.
- 84229 WILLIAMS, K. A. W. Migration of the caper white butterfly [*Anaphaeis java teutonia*] in November 1966. Queensland Natur. 18(5/6):113-115. Feb. 1968. 410 Q3
- 84230 WILLIAMS, S. A. *Hypocryptus nitidus* Palm. (Col., Staphylinidae) in the Joy collection. S. London Entomol. Natur. Hist. Soc. Proc. Trans. 1967(4):99. Dec. 1967. 420 So8
- Taxonomic and Geographic Entomology  
Orthoptera
- 84231 BLACKITH, R. E., and BLACKITH, R. M. A numerical taxonomy of orthopteroid insects. Australian J. Zool. 16(1):111-131. Ref. Feb. 1968. 410 Au73
- 84232 LEFEUVRE, J. C., and RAZET, P. A new taxonomic characteristic of cockroaches, the insertion of Malpighian tubes. (Fr) Acad. Sci. Compt. Rend. Ser. D, 265(19):1397-1400. Nov. 6, 1967. 505 P21
- 84233 RIEGERT, P. W. A history of grasshopper abundance surveys and forecasts of outbreaks in Saskatchewan. Ent. Soc. Can. Mem. 52, 99 p., map. Ref. 1968. 420 En824
- Taxonomic and Geographic Entomology  
Smaller Orders
- 84234 BEER, J. R., and COOK, E. F. A ten-year study of louse [*Hoplopleura hesperomydis*] populations on deer mice. J. Med. Entomol. 5(1):85-90. Ref. Feb. 1968. 421 J828  
Minnesota.
- 84235 BROWN, N. R. Notes on the Siphonaptera of New Brunswick. Can. Entomol. 100(5):486-498. Ref. May 1968. 421 C16  
Includes n. spp. in *Ceratophyllus*.
- 84236 CARRIKER, M. A. Carriker on Mallophaga; posthumous papers, catalog of forms described as new, and bibliography. Smithsonian. Inst. U. S. Nat. Mus. Bull. 248, 150 p. 1967. 500 Sm65B  
Bibliography, p. 135-139.  
Includes n. spp. in *Menacanthus*, *Trichodomea*, *Desumenopon*, *Cracimenopon*, *Colincola*, *Passonomedeia*, *Oxylpeurus*, and *Eiconolipeurus*.
- 84237 DONNELLY, T. W. A new species of *Enallagma* from Central America (Odonata, Coenagrionidae). Fla. Entomol. 51(2):101-105. June 1968. 420 F662  
*Enallagma rua*.
- 84238 EMERSON, K. C., and PRICE, R. D. A new species of *Parafelicola* (Mallophaga, Trichodectidae) from Mozambique. Biol. Soc. Wash. Proc. 81:109-110. 1968. 500 W272  
*Parafelicola neoaficanus*.
- 84239 GLOYD, L. K. The synonymy of *Diargia* and *Hyponeura* with the genus *Argia* (Odonata: Coenagrionidae: Argiinae). Mich. Entomol. 1(8):271-274. June 1968. QL461.M5
- 84240 KAPOOR, V. C. Studies on some Indian Dermaptera. Entomologist [London] 101(1259):80-82. Apr. 1968. 421 En8  
Includes *Allodahlia guptae* n. sp.
- 84241 KOSS, R. W. Morphology and taxonomic use of Ephemeroptera eggs. Entomol. Soc. Amer. Ann. 61(3):696-721. Ref. May 1968. 420 En82
- 84242 MORGAN, MRS. M. J. *Thysanura* in Caernarvonshire. Entomologist [London] 101(1259):73-75. Apr. 1968. 421 En8
- 84243 NEW, T. R. Two Berkshire records of *Boreus hyemalis* (L.) (Mecoptera). Entomol. Mon. Mag. 103(1241/1243):241. Oct./Dec. 1967, pub. Mar. 30, 1968. 421 En86
- 84244 POPHAM, E. J., and BRINDLE, A. Genera and species of the Dermaptera. 6. Labidurinae, Apachyinae and Allostethinae (Labiduridae). Entomologist [London] 101(1260):105-108. May 1968. 421 En8



- 84245 PUISSEUR, C. Contribution to the knowledge of the zoogeography, anatomy, and biology of seven species and of an interspecific hybrid of *Ascalaphus* F. (Planip. Ascalaphidae). (Fr) Vie Milieu, Ser. C, Biol. Terrestre 18(1):103-158. Ref. 1967, pub. 1968. QH301.V5  
English summary.  
Hybrid of *A. libelluloides* and *A. longicornis*.
- 84246 REAL, P. A dilar (Planipennia, Dilaridae) in continental France; *Dilar mateui* n. sp.; preliminary note. (Fr) Soc. Linn. Lyon. Bull. Mens. 37(3):111-113. Mar. 1968. 505 L992B
- 84247 RICHARDS, W. R. Generic classification, evolution, and biogeography of the Sminthuridae of the world (Collembola). Entomol. Soc. Can. Mem. 53, 55 p. Ref. 1968. 420 En824  
Includes *Collophora* n. g., *Bothriovulsus* n. g., *Vesicephalus* n. g., and *Temeritas* n. g.
- 84248 SMITH, S. D. The Rhyacophila of the Salomon River drainage of Idaho with special reference to larvae. Entomol. Soc. Amer. Ann. 61(3):655-674, map. Ref. May 1968. 420 En82
- 84249 TAYLOR, E. J. Rat and mouse ectoparasites on Tristan da Cunha. Entomol. Mon. Mag. 103 (1241/1243):225. Oct./Dec. 1967, pub. Mar. 30, 1968. 421 En86  
Fleas and mites.
- APICULTURE AND APIS MELLIFERA
- 84250 ANDER, C. Breeding and requeening. (Sw) Bitidningen 67(4):131-133. Apr. 1968. 424.8 B54
- 84251 ANDERSON, E. D. Highlights of an engineering analysis of the beekeeping industry. Amer. Bee J. 108(6):226-227, 230. June 1968. 424.8 Am3  
An input-output analysis of the industry.
- 84252 ANDERSSON, N. Mistakes in the spring management of apiaries. (Sw) Bitidningen 67(3): 87-89. Mar. 1968. 424.8 B54
- 84253 BAHRMANN, R. Formation of anomalies in the wing venation of honey-bee. (Ge) Arch. Geflügelzucht Kleintierkunde 17(1):47-55. 1968. 47.8 Ar22  
English summary.  
*Apis mellifera* and *A. cerana*.
- 84254 BAHRMANN, R. Observations on the occurrence of intestinal flagellates in healthy and Nosema infected worker honey bees (*Apis mellifica* L.). (Ge) Z. Bienenforsch. 9(4):142-150. Nov. 1967. 424.8 Z3  
English summary.
- 84255 BALBONI, E. R. The relationship between volume and oxidative activity in flight muscle mitochondria. J. Insect Physiol. 14(4):463-479. Ref. Apr. 1968. 421 J825  
*Apis mellifera*.
- 84256 BARAAS, D. Our queen breeding. (No) Biokteren 84(3):53-55. Mar. 1968. 424.8 B53
- 84257 BARAAS, D. Problems of the beekeeper. (No) Biokteren 84(4):65-66. Apr. 1968. 424.8 B53
- 84258 BENECKE, F. S. Introducing queen bees. Amer. Bee J. 108(6):224-225. June 1968. 424.8 Am3
- 84259 BIRCHER, M. The drone-rearing colony on the water vein. (Ge) Schweiz. Bienen-Zeitung 91 (4):186-188. Apr. 1968. 424.8 Sch9  
Located there 50 years and it never thrived.
- 84260 BROGDEN, K. Swarm control by relocation. Gleanings Bee Cult. 96(5):276-278. May 1968. 424.8 G47
- 84261 CAILLAS, A. Mating of the queen. (Fr) Gaz. Apic. 69(728):26-29. Feb. 1968. 424.8 G25  
Artificial insemination.
- 84262 CAILLAS, A. The mating of the queen. (Fr) Gaz. Apic. 69(729):50-54, map. (Cont.) Mar. 1968. 424.8 G25
- 84263 CARON, D. M. Protecting honeybees from pesticides. Gleanings Bee Cult. 96(5):280-283, 315. May 1968. 424.8 G47
- 84264 CUTTS, N. A. Four important bee diseases. Agr. Gaz. New S. Wales 78(12):698-702. Dec. 1967. 23 N472  
*Apis mellifera*.
- 84265 FARRAR, C. L. Productive management of honey-bee colonies. Amer. Bee J. 108(6):228-230. (Cont.) June 1968. 424.8 Am3
- 84266 FOSSEL, A. The pollen and nectar harvest from *Polygala chamaebuxus*. (Ge) Ann. Abeille 10(2):97-102. Nov. 1967. 424.9 F842  
English summary.
- 84267 FREY, A. Contribution on curing European foulbrood. (Ge) Schweiz. Bienen-Zeitung 91(4): 185-186. Apr. 1968. 424.8 Sch9
- 84268 FRISCH, R. Do not use cellar wintering. (No) Biokteren 84(4):68-70. Apr. 1968. 424.8 B53
- 84269 FYG, W. Studies on several cell inclusions in the pyloric epithelium of the queen bee (*Apis mellifera* L.). (Ge) Z. Bienenforsch. 9(4): 171-180. Nov. 1967. 424.8 Z3
- 84270 GLINSKI, Z., and KOSTARZ, T. Electrochromatographic pattern of the amino acids in the hemolymph of honeybee (*Apis mellifica* L.). (Pol) Med. Weter. 24(3):183-186. Ref. Mar. 1968. 41.8 M463  
English summary.
- 84271 HALBERSTADT, K. Proteins of the hypopharyngeal glands of worker bees. II. Electrophoresis of the proteinaceous secretions from swarm bees and workers in colonies with weak brood. (Ge) Ann. Abeille 10(2):119-132. Ref. Nov. 1967. 424.9 F842  
English summary.
- 84272 HAMMER, O. On Nosema. (Da) Tidsskr. Biavl 102(2):25-27. Feb. 20, 1968. 424.8 T43  
Control.
- 84273 HAMMER, O. Where are we going? (Da) Tidsskr. Biavl 102(1):9-13. Jan. 1968. 424.8 T43  
Apiculture in Denmark.
- 84274 HANSEN, J. C. Bees and pesticides. (Da) Haven 68(5):178-179. May 1968. 80 H29  
Toxicity.
- 84275 HANSSON, A. The Nosema parasite [*Nosema apis*], its ravages and control. (Sw) Bitidningen 67(4):116-120. Apr. 1968. 424.8 B54
- 84276 HAPP, J. Weevil continues to spread. Gleanings Bee Cult. 96(5):270-271, map. May 1968. 424.8 G47  
Alfalfa weevil insecticide control and protection of bees.
- 84277 HELDGAARD, V. Foulbrood. (Da) Tidsskr. Biavl 102(1):14-16. Jan. 1968. 424.8 T43  
Control.
- 84278 HJALTELIN, H. Genetics and breeding. (Da) Tidsskr. Biavl 102(4):63-65. Apr. 20, 1968. 424.8 T43  
With reference to bee breeding.
- 84279 JEANNE, F. Professional education and popular works in apiculture. (Fr) Apiculteur 112 (3):63-71. Mar. 1968. 424.8 Ap3
- 84280 KAISER, A. What does the bee tell us about the latest research on breeding? (Ge) Schweiz. Bienen-Zeitung 91(4):173-179. (Concl.) Apr. 1968. 424.8 Sch9
- 84281 KROPACOVA, S. Nectar production of alfalfa and the number of bees working on it. 13 p. Transl. 15505  
Translation from Brno. Vysoka Skola Zemelska a Lesnicka. Sbornik 1:37-44. 1963.
- 84282 KULIKOV, N. S. "Varroa [jacobsoni] disease" of honey bees. 3 p. Transl. 15846  
Translation from Pchelovodstvo 11:15-16. Nov. 1965.
- 84283 KULINEVIC, J. Mating flight of a queen bee (*Apis mellifera*) after beginning of oviposition. (Ge) Z. Bienenforsch. 9(4):137-142. Ref. Nov. 1967. 424.8 Z3  
English summary.  
Artificially inseminated.

- 84284 KULINCEVIC, J. On the inheritance of pigmentation in worker bees of *Apis mellifica* L. and in descendants of their hybrids. (Ge) Ann. Abeille 10(2):103-117. Ref. Nov.1967. 424.9 F842  
English summary.
- 84285 LAUNDAL, T. Migratory apiculture. (No) Bi-rokteren 84(2):33-34. Feb.1968. 424.8 B53  
Comments on article by O. Rosenberg on legal aspects.
- 84286 LAVIE, P. The effect of using pollen traps on the honey yield of bee colonies. (Fr) Ann. Abeille 10(2):83-95. Ref. Nov.1967. 424.9 F842  
English summary.
- 84287 LIPS, M. Apiculture in Turkey. (Ge) Schweiz. Bienen-Zeitung 91(4):179-182. Apr.1968. 424.8 Sch9
- 84288 LOCHER, N. Experiments with the feeding of small families with Fumidil B (Fumagillin). (Da) Tidsskr. Biavl 102(3):45-46. Mar.20,1968. 424.8 T43  
For the control of *Nosema apis*.
- 84289 LOG, A. Migratory apiculture. (No) Bi-rokteren 84(2):31-32. Feb.1968. 424.8 B53  
Comments on article by O. Rosenberg on legal aspects.
- 84290 LOUVEAUX, J. Report of activity for the year 1967 of the Laboratory for Analysis of Products of the Hive [Laboratoire d'Analyse des Produits du Rucher]. (Fr) Apiculteur 112(3):56-62. Mar.1968. 424.8 Ap3  
Under the Institut National de la Recherche Agronomique and the Station de Recherches sur l'Abeille et les Insectes Sociaux at Bures-sur-Yvette.
- 84291 MAAG, H. Bee exchange or longevity? (Ge) Schweiz. Bienen-Zeitung 91(1):182-184. Apr. 1968. 424.8 Sch9  
Queens.
- 84292 MAQUELIN, C. Honeydew flow and its producers. (Ge) Schweiz. Bienen-Zeitung 91(4):171-173. Apr.1968. 424.8 Sch9  
Insects.
- 84293 MARTINOV, A. On the Bee Research Station [Forsoksbigarden] at Ultuna 1967. (Sw) Bitidningen 67(2):47-50. Feb.1968. 424.8 B54
- 84294 MITCHELL, E. R. Give your bees a drink. S. Australia J. Agr. 71(9):334-336. Apr.1968. 23 So84
- 84295 MOREAUX, R. The bee in folklore. (Fr) Apiculteur 112(3):72-75. Mar.1968. 424.8 Ap3
- 84296 MOREAUX, R. The honey bee in folklore. (Fr) Apiculteur 112(4):91-95. (Cont.) Apr.1968. 424.8 Ap3  
From Belgique Apicole 1966 and 1967.
- 84297 MOSHCOVITZ, P. B. The deadly bees. Amer. Bee J. 108(6):231. June 1968. 424.8 Am3  
In a film production.
- 84298 NILSSON, F. Wax production in the apiary. (Sw) Bitidningen 67(4):130. Apr.1968. 424.8 B54
- 84299 NORDRUM, I. O. Cellar wintering—something for Gudbrandsdal. (No) Bi-rokteren 84(2):27-28. Feb.1968. 424.8 B53
- 84300 PARTIOT, L. The venom of bees. (Fr) Gaz. Apic. 69(729):59-63. Mar.1968. 424.8 G25
- 84301 PEDERSEN, A. European foul brood. (Da) Tidsskr. Biavl 102(3):52. Mar.20,1968. 424.8 T43  
Control.
- 84302 PERUCCI, E. Apiculture is agriculture; chronicle of the past sixty years. (It) Verona. Accad. Agr. Sci. Lett. Atti. Mem. (ser.6)18:3-36. 1966/67, pub.1968. 16 V59  
Bibliography.
- 84303 POLTEV, V. I. Diseases of honey bees and their control. (Rus) Pchelovodstvo 11:7. Nov. 1967. 424.8 P295
- 84304 ROUSSY, L. Researches on the winter use of materials of construction by *Apis mellifica*, variety georgica. (Fr) Gaz. Apic. 69(729):55-58. Mar.1968. 424.8 G25
- 84305 ROUSSY, L. The venom apparatus of the worker bee and the mechanism of inoculation of the venom. (Fr) Gaz. Apic. 69(728):30-34. Ref. Feb.1968. 424.8 G25
- 84306 SCHAEER, E. Report on apicultural advisory services and apiary inspection in the year 1967. (Ge) Schweiz. Bienen-Zeitung 91(4):165-169. Apr.1968. 424.8 Sch9
- 84307 SCHNETTER, B. Visual form discrimination of the honey bee within the range of 6- and 4-pointed stars. (Ge) Z. Vergleichende Physiol. 59(1):90-109. Ref. 1968. 444.8 Z3  
English summary.
- 84308 SCHWEGLER-SCHUMACHER, N. The ideal uses of apiculture. (Ge) Schweiz. Bienen-Zeitung 91(4):188-190. Apr.1968. 424.8 Sch9  
Honey production and pollination.
- 84309 SITBON, G. The group effect on the bee. I. The bee in winter: survival and the consumption of sugar candy by bees, isolated or in groups. (Fr) Ann. Abeille 10(2):67-82. Nov.1967. 424.9 F842  
English summary.
- 84310 SKIAKER, G., and THYRI, H. Work simplification in apiculture. (No) Bi-rokteren 84(3):44-52. Mar.1968. 424.8 B53
- 84311 STEPHEN, W. A. Fundamentals for all; nurse bees—not queens—determine rate of brood rearing. Gleanings Bee Cult. 96(5):294. May 1968. 424.8 G47
- 84312 STRACHAN, D. J. Warning! when experimenting with new insecticides around bees and bee equipment, be sure to test them out. Gleanings Bee Cult. 96(5):279. May 1968. 424.8 G47
- 84313 SVENDSEN, O. Slimy sugar feed. (Da) Tidsskr. Biavl 102(4):63. Apr.20,1968. 424.8 T43
- 84314 TRAYNOR, J. Living with insecticides in California. Amer. Bee J. 108(6):234-235. June 1968. 424.8 Am3  
Toxic effects on *Apis mellifera*.
- 84315 TSVILEV, I. V. Registration of veterinary and sanitary condition of apiaries. (Rus) Veterinariya 12:100-101. Dec.1967. 41.8 V6426
- 84316 VANG, E. Foulbrood. (Da) Tidsskr. Biavl 102(4):68-69. Apr.20,1968. 424.8 T43
- 84317 WATKINS, L. H. Mr. Buck's importations of bees to California. Amer. Bee J. 108(6):232-233,235. Ref. June 1968. 424.8 Am3  
Early history and efforts of William Buck.
- 84318 WILD, E. Reckoning the profits. (Ge) Schweiz. Bienen-Zeitung 91(2):53-54. Feb. 1968. 424.8 Sch9  
Statistics on beekeeping.
- 84319 WILLE, H. Mixed infections in the honey bee (*Apis mellifica* L.) as ascertained in Swiss bees of the years 1965/66. (Ge) Z. Bienenforsch. 9(4):150-171. Nov.1967. 424.8 Z3  
English summary.
- 84320 WIX, P. Bees and agriculture. Great Brit. Min. Agr. Fish. Food. Agr. 75(3):104-108. Mar.1968. 10 G79J  
Bees as pollinators and use of economic poisons.
- 84321 ZLATKOVSKY, A. Friendly bees. (Cz) Zahradnické Listy 61(4):114-115. 1968. 80 Z12  
As pollinators.

# SERICULTURE AND THE SILKWORM

- 84322 AKHALAYA, YA. G. Studying comparative role of injuries caused by radiation of spermatozooids and egg cells of *Bombyx mori*. (Geo) Akad. Nauk Gruz. SSR. Soobshch. 49(3):689-693. Ref. Mar.1968. 511 Ak146  
Russian summary.
- 84323 BERNFELD, S., and PEPICI, A. Cocoons of white silkworms and their economic importance. (Rum) Sericicultura 4(1):42-47. 1968. SF541.S4  
Includes silk production and quality.



- 84324 BORCESCU, A. The nutrition and metabolism of silkworms. (Rum) *Sericicultura* 4(1):6-9. 1968. SF541.S4
- 84325 CAPITANESCU, E. Defects of cocoons of silkworms and measures for their removal. (Rum) *Sericicultura* 4(1):48-55. 1968. SF541.S4
- 84326 CRAICU, M. The incubation of cocoons of silkworms. (Rum) *Sericicultura* 4(1):10-13. 1968. SF541.S4
- 84327 DANILOVA, L. V., and SELEZNEVA, S. N. Two types of structure of septate desmosomes. (Rus) *Tsitologiya* 9(5):595-597. Ref. May 1967. 442.8 T78  
English summary.  
Includes *Bombyx mori*.
- 84328 GOLANSKI, K. The effect of different factors on the losses in industrial rearing of *Bombyx mori* L. during 1956-1960 in Poland. (Pol) *Med. Weter.* 24(4):227-230. Ref. Apr.1968. 41.8 M463  
English summary.
- 84329 NITESCU, A., and FLORIN, G. Study concerning an increase in economic efficiency of sericulture by means of elaboration of a technology of commercial characteristics for growing silkworms. (Rum) *Sericicultura* 4(1):14-24. 1968. SF541.S4  
Includes productivity of labor and consumption of mulberry.
- 84330 POPA, A., and ADLER, A. Disease resistance in different races and hybrids of cocoons of the white silkworms. (Rum) *Sericicultura* 4(1):27-29. 1968. SF541.S4
- 84331 SHIGEMATSU, H., and TAKESHITA, H. Effect of gamma rays irradiation in embryonic stages on the cell proliferation of silk glands and the silk formation in *Bombyx mori* L. (Lepidoptera: Bombycidae). *Appl. Entomol. Zool.* 3(1):53-54. Mar.1968. SB599.A6
- 84332 SHIMIZU, R. Changes in distribution of sericultural farms by size and region. (Ja) *Quart. J. Agr. Econ.* 22(2):139-178. Apr.1968. 22.5 N687
- 84333 SHIMIZU, R. Changing distribution of sericultural farms by size. (Ja) *Quart. J. Agr. Econ.* 22(1):91-120. Jan.1968. 22.5 N687
- 84334 SOEDA, E., and others. Mode of action of silkworm nuclease and an analysis of oligonucleotide. (Ja) *Agr. Chem. Soc. Jap. J.* 42(3):114-119. Ref. Mar.1968. 385 Ag8  
J. Mukai, R. Takeya, and S. Akune, joint authors.  
English summary.
- 84335 STOICESCU, S., and GIHAC, V. The geography of sericulture in the Banat region. (Rum) *Sericicultura* 4(1):24-26. 1968. SF541.S4
- 84336 SUGAI, E. Effect of apholate on reproductive cells of the male silkworm, *Bombyx mori*, with special reference to histological observation of embryonic death in their progenies. (Ja) *Zool. Soc. Jap. Zool. Mag.* 76(6):190-195. Ref. June 1967. 410.9 T57  
English summary.





## FOOD AND HUMAN NUTRITION

Publications of the U. S. Department of Agriculture, State Agricultural Experiment Stations, and State Agricultural Extension Services on cookery and other subjects not ordinarily covered in the Bibliography of Agriculture will be included in this list.

## GENERAL

- 84337 AUERSWALD, W. Nutrition-physiological reflections considering world nutritional situation. (Ge) Wien. Tierarztl. Monatsschr. 54 (12):785-801. Ref. 1967. 41.8 T345  
English summary.  
Requirements of man and food supply surveys.
- 84338 BEEUWKES, A. M. Essays on history of nutrition and dietetics, reprinted on the occasion of the 50th anniversary of the founding, in 1917, of the American Dietetic Association. Chicago, American Dietetic Association, 1967. 291 p. TX357.B4
- 84339 BIGNARDI, M. G. Notes on nutrition. (It) Romagna Agr. Zootec. 53(1):38-40. Jan.1968. 16 R66  
Human.
- 84340 BLANCKENBURG, P. VON, and LORENZL, G. Problematics of evaluating the world nutritional situation. (Ge) Agrarwirtschaft 16(10):313-322. Ref. Oct.1967. 281.8 Ag826  
English summary.
- 84341 BURRIER, S., and PIERCE, J. A. Parties with light refreshments. Ky. Univ. Ext. H.E. 3-220, 10 p. Feb.1968. 275.29 K415H  
Recipes.
- 84342 CLARK, H. E. Meeting protein requirements of man. Amer. Diet. Ass. J. 52(6):475-479. Ref. June 1968. 389.8 Am34
- 84343 DIAZ AMADOR, C. Mother and child nutrition scheme in Costa Rica. (Sp) Ofic. Sanit. Panamer. Bol. 64(6):471-476. June 1968. 449.9 P192B  
English summary.  
To cope with malnutrition.
- 84344 FINZI, M. School age nutrition. (It) Indus. Aliment. 7(2):102-103. Feb.1968. HD9000.1.152
- 84345 GRIESEL, R. D. Adaptability and malnutrition. S. Afr. J. Sci. 63(11):457-463. Ref. Nov. 1967. 515 So84
- 84346 HAWKE, W. A. Feeding and the emotions. Can. Diet. Ass. J. 29(1):26-30. Mar.1968. 389.9 C1632
- 84347 JOHNSON, E. H. Food for the traveling family. Ky. Univ. Ext. H.E. 3-218, 12 p. Feb.1968. 275.29 K415H  
Meal planning.
- 84348 JOHNSON, E. H. Meat cookery. Ky. Univ. Ext. H.E. 3-116, 20 p. Feb.1968. 275.29 K415H  
Includes recipes.
- 84349 MARSH, E. E. How to be healthy with natural foods. New York, ARC Books, 1967. 157 p. Ref. QP141.M33
- 84350 MARZI, G. DE. Conferences on human nutrition. (It) Agricoltura 17(1):135-148. Jan.1968. 16 Ag8226  
English summary, p.9.
- 84351 MEYERS, T. To help them help themselves. Nat. Seminar Workshop Home Econ. Res. Admin. Proc. 1967:72-76. TX5.N3  
Policies toward developing areas in human nutrition and rural development.
- 84352 MITCHELL, L. R. Feeding Rhode Island after atomic war fallout. R. I. Agr. 14(2):8-9. Apr. 1968. 100 R342
- 84353 NANTZ, R. A., MICHEL, E. L., and LACHANCE, P. A. Evolution of space feeding concepts during the Mercury & Gemini space programs. Food Technol. 21(12):52-54, 56, 58. Ref. Dec. 1967. 389.8 F7398
- 84354 NAPIER, C. Better nutrition economically; Arizona Extension finds low-income homemakers eager to learn. Ext. Serv. Rev. 39(3/4):3-5. Mar./Apr.1968. 1 Ex892Ex

- 84355 ORR, N. L., and RAVEN, D. Mountain trout. N. C. Univ. Ext. Circ. 487, 19 p. Feb.1968. 275.29 N811  
Includes cookery.
- 84356 PENA, A. J. Course of nutrition education for the African mother. (Por) Gaz. Agr. Angola 12 (12):881,883,885,887,889,900. Dec.1967. 24 G252  
Discusses infant and child nutrition.
- 84357 PISECKY, J., and others. Some experience with the production and use of dried humanised milk. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:565-567. 1966. SF223.15 1966 v.5  
M. Cerna, V. Melichar, and J. Zoula, joint authors.
- 84358 PORTER, M. A. Food for older folks. Va. Polytech. Inst. Ext. Leaf. 132, rev., 4 p. Jan. 1968. 275.29 V81L  
Diet.
- 84359 SCRIMSHAW, N. S. Ecologic factors determining nutritional state and food use. Alternatives Balancing World Food Prod. Needs. Rep. 1967:35-50. Ref. HD9000.1.A4
- 84360 STORVICK, C. A. Human nutrition requirements and nutritional status. Nat. Seminar Workshop Home Econ. Res. Admin. Proc. 1967:65-68. TX5.N3  
Research.

## FOOD HABITS

- 84361 FOX, H. C., CAMPBELL, V. S., and LOVELL, H. G. A comparison of dietary data obtained in Jamaica by twenty-four hour recall and by weighing. Arch. Latinoamer. Nutr. 18(1):81-97. Ref. 389.8 Ar22  
Food patterns of children.
- 84362 PERL, L. Rice, spice and bitter oranges; Mediterranean foods and festivals. Cleveland, World Publishing Company, 1967. 272 p. TX641.P4  
Food habits and cookery.

## NUTRITIVE AND VITAMIN CONTENT

- 84363 BULLOCK, D. H., SINGH, S., and PEARSON, A. M. Stability of vitamin C in enriched commercial evaporated milk. J. Dairy Sci. 51(6):921-923. June 1968. 44.8 J822
- 84364 DOBES, M. Biological evaluation of livestock products. (Cz) Veterinarstvi 17(2):70-73. 41.8 V6439
- 84365 FACCINI, G., and PESINO, L. Some data on the nutritive value of lean poultry meat compared with the meat of other livestock. (It) Acta Med. Vet. 13(5/6):321-333. Sept./Dec. 1967. 41.8 Ac84  
English summary.
- 84366 GALINDO, A. Something on lard. (Sp) Cultiv. Mod. 41(3):51, 53. Mar.1968. 15 C89  
Nutritive value.
- 84367 GARLAND, K. R. Man will eat grass. J. Agr. [Melbourne] 65(11):464-467. Nov.1967. 23 V66J  
Protein synthesis.
- 84368 GULKO, L., and KRUGLOVA, L. Content of vitamins of the "B" complex in fermented milks. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:689-693. 1966. SF223.15 1966 v.5
- 84369 HELLSTROM, V., and ANDERSSON, R. The stability of vitamin E during storage of wheat and various wheat products. (Ge) Getreide Mehl 17:129-131. Ref. Nov.1967. 298.8 G332
- 84370 IWAI, K., and YOKOMIZO, H. The distribution of B-vitamins in the rice grain. (Ja) Jap. Soc. Food Nutr. J. 20(6):49-53. Ref. Mar.1968. 389.9 J27  
English summary.  
Includes varieties.
- 84371 IWAN, J. L. Fortified bread takes hold in India. Cereal Sci. Today 13(5):202, 206. Ref. May 1968. 59.8 C333  
Lysine used for fortification.

- 84372 KOURY, S. D., and HODGES, R. E. Soybean protein for human diets? Amer. Diet. Ass. J. 52 (6):480-484. Ref. June 1968. 389.8 Am34 Nutritive value.
- 84373 LEMBKE, A., and WASSERFALL, F. On the value of fermented dairy products from the viewpoint of health. (Ge) Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:543-549. Ref. 1966. SF223.15 1966 v.5 English summary, p.889.
- 84374 NATIONAL DAIRY COUNCIL. Relative nutritional value of filled and imitation milks. Dairy Counc. Dig. 39(2), 12 p. Ref. Mar./Apr. 1968. 389.8 D14
- 84375 POKROVSKIY, A. Nutrition institute recommends meat rations for Soviet diet. U. S. Joint Publ. Res. Serv. Transl. USSR Consum. Goods Dom. Trade 214:15-21. Dec. 6, 1967. (JPRS 43,605) 173 J663Tro Translation from Myasnaya Industriya SSSR 10:23-26. Oct. 1967. Issued by CFSTI.
- 84376 STENZEL, E., and FELDHEIM, W. Contributions to the proper evaluation of domestic carriers of vitamin C. I. (Ge) Acta Phytotherap. 15(4):61-66. 1968. 450 Ac88 Fruit and vegetable juices and rose hips.
- 84377 WELLS, J. O. Ascorbic acid in fruit beverages. (Fr) Quebec Lait. Aliment. 27(2):13. Feb. 1968. 44.8 Q3
- 84378 WILDING, M. D., ALDEN, D. E., and RICE, E. E. Nutritive value and dietary properties of soy protein concentrates. Cereal Chem. 45 (3):254-259. May 1968. 59.8 C33
- 84379 YSTGAARD, O. M., and others. Iron fortified brown cheese. (No) Meieriposten 57(19):365-374. Ref. May 11, 1968. 44.8 N47 H. Natvig, A. Svensen, and L. H. Wilhelmsen, joint authors.



## FORESTRY

## GENERAL

- 84380 AARON, J. R., and CARTER, K. W. Forestry in Berlin. Quart. J. Forest. 62(2):154-160, map. Apr. 1968. 99.8 Q2  
West Germany.
- 84381 ASANO, S. Memoirs of Taisho and Showa era in forestry. (Ja) Forest Econ. 21(2):26-31. Feb. 1968. 99.8 R474
- 84382 BADAN, R. Study of the rationalization of access operation phase with electronic assemblies. (Fr) Schweiz. Z. Forstwesen 119(1):79-81. Jan. 1968. 99.8 J82  
Various forestry application.
- 84383 BENEDEK, A. Tasks for developing forest utilization in the new economic system. (Hu) Erdo 17(3):132-136. Mar. 1968. 99.8 Er22
- 84384 BLAFIELD, G. Forestry dictionaries and terminology. (Sw) Skogsbruket 38(4):106-108. 1968. 99.8 Sk59
- 84385 BROCKI, Z. Name of the Polish region in the English nomenclature. (Pol) Sylwan 112(2):85-88. 1968. 99.8 Sy52  
Derivation of the name spruce.
- 84386 BURNS, P. Y. Forestry—field with a future. Forests People 18(2):18-19. Second Q. 1968. 99.8 F7628
- 84387 CIGLAR, M. The Institut for Forestry and Lumber [Institut za Gozdno in Lesno Gospodarstvo] of Slovenia on threshold of its third decade. (Sl) Ljubljana. Inst. Gozdno Lesno Gosp. Sloven. Zb. 5:1-5. 1967. 99.9 L76
- 84388 DANIEL, T. W. Comparison of the professional degree forester in Europe and the United States. J. Forest. 66(5):404. May 1968. 99.8 F768
- 84389 DATTA, N. R. Co-ordination of forestry and mineral development in forest areas. J. Soil Water Conserv. India 15(3/4):30-34. July/Dec. 1967. 56.8 J824
- 84390 DEHRA DUN, FOREST RESEARCH INSTITUTE. Annual news bulletin for the year 1966-67. Indian Forest. 93(12):818-863. Dec. 1967. 99.8 In2
- 84391 FORESTRY papers issued in Finland in 1967. (Fi) Silva Fenn. 2(1):49-53. 1968. 99.9 F497
- 84392 FRANCE. DIRECTION DES FORETS. Les français et leur forêt [The French and their forest], edited by H. Baille. Paris, 1967. 126 p., map. Ref. SD193.F7  
Resources, statistics, and history.
- 84393 HAUSER, A. Forests and fields of Switzerland in the days of the Romans. (Ge) Schweiz. Z. Forstwesen 119(3):163-178, map. Ref. Mar. 1968. 99.8 J82  
French summary.
- 84394 HUBNER, B. Latest in radiocarbon and annual ring dating. (Ge) Mitt. Staatsforstverwalt. Bayerns 36:97-104. 1967. 99.9 B342
- 84395 JAPAN. RINGYO SHIKENJO, TOKYO. List of themes in the bulletins of the Government Forest Experiment Station, 1904-1966. Tokyo, 1967. 64 p. Z5991.J3 1967
- 84396 KERESZTESI, B. Study tour in the German Federal Republic. (Hu) Erdo 17(2):64-71, map. Feb. 1968. 99.8 Er22  
German summary.
- 84397 KETTLER, E. Development and furthering of forest landscape care in the 19th century. (Ge) Forst- Holzwirt 23(4):59-61. Ref. Feb. 23, 1968. 99.8 F7724  
Forest aesthetics and protective effects of forests.
- 84398 KOVACS, L. Preparation of tables for electronic data processing machines. (Hu) Erdo 17(1):19-23. Jan. 1968. 99.8 Er22  
Includes remarks by L. Kiraly.
- 84399 LEATHART, P. S. A forestry tour in Holland. Quart. J. Forest. 62(2):101-117. Apr. 1968. 99.8 Q2
- 84400 LEIBUNDGUT, H. On forestry research. (Ge) Mitt. Staatsforstverwalt. Bayerns 36:7-17. 1967. 99.9 B342
- 84401 MARZIANI, S. The regional forest-pastoral economy; trends and development at the present time. (It) Agr. Venezia 22(1):14-19. Jan. 1968. 16 Ag826
- 84402 MASTYNSKI, Z. Did the proportion of larch in Polish forests decreased in the XVIIIth and XIXth centuries? (Pol) Sylwan 112(2):63-66. 1968. 99.8 Sy52  
English summary.
- 84403 MIKOLA, P. Agricultural approach in forestry. (Fi) Metsataloudellinen Aukakauslehti 85(4):124-126, 141. Apr. 1968. 99.9 F49  
English summary.  
Tropical forestry and silviculture in Finland compared.
- 84404 NORLEN, T. With ADP in the knapsack. (Sw) Skogen [Stockholm] 55(8):212-213. Apr. 11, 1968. 99.8 Sk51  
In forestry.
- 84405 PAPERS presented in conjunction with the Forestry College Week in Hannoversch-Münden. (Ge) Forst- Holzwirt 23(9):182, 184-187. May 8, 1968. 99.8 F7724  
Abstracts of some papers.
- 84406 RIEHL, G. Die Forstwirtschaft im Oberharzer Bergbauegebiet von der Mitte des 17. bis zum Ausgang des 19. Jahrhunderts [Forestry of the Oberharz mining area from the middle of the 17th century to the end of the 19th century]. Aus Walde 15, 243 p., map. 1968. 99.8 Au75  
Bibliography, p. 233-241.
- 84407 SCHVARC, E. The application of data processing equipment in forestry. (Cz) Les [Bratislava] 24(5):212-213. 1968. 99.8 L5632
- 84408 ŠPEER, J. Methodical progress of science and the resulting demands on forestry research in our time. (Ge) Mitt. Staatsforstverwalt. Bayerns 36:310-326. Ref. 1967. 99.9 B342
- 84409 SZONYI, L. Where is forestry research heading? (Hu) Erdo 17(2):60-64. Feb. 1968. 99.8 Er22  
German summary.
- 84410 TEDER, H. 25 years of forestry in the Estonian SSR. (Es) Est. Sel'skokhoz. Akad. Sb. Nauch. Tr. 50:33-56. 1968. 106 Es83  
German summary.
- 84411 U. S. COOPERATIVE STATE RESEARCH SERV. Forestry research progress in 1967: McIntire-Stennis Cooperative [Federal-State] Forestry Research Program. Washington, 1968. 105 p. Ref. ASD11.A32
- 84412 VYSKOT, M. The virgin forest reservation Boubin in Sumava region. (Cz) Czech. Min. Zemed. Les. Hospod. Ustav. Vedeckotech. Inform. Les. Cas. 41(2):101-118. Feb. 1968. 99.9 C334  
English summary.  
Includes conversion, selection and mensuration.
- 84413 WENTZEL, K. F. Landscape care, an old self-imposed task of the German forestry. (Ge) Forst- Holzwirt 23(4):57-58. Feb. 23, 1968. 99.8 F7724

## EDUCATION

- 84414 BENTLEY, W. R. Essential concepts in the professional forestry curriculum. J. Forest. 66(5):402-403. May 1968. 99.8 F768
- 84415 HASEL, K. From the hundred years' history of the Forestry Faculty of the Georg-August University at Göttingen [Forstliche Fakultät, Georg-August-Universität]. (Ge) Allg. Forst- Jagdzeitung 139(4/5):77-97. Ref. Apr./May 1968. 99.8 AL3  
English summary.

- 84416 KILLIAN, H. The Forestry Educational Institution and Forestry Academy of Mariabrunn [Forstlehranstalt und Forstakademie Maria-brunn] 1813-1875; a short historical survey of the development of forestry instruction in Austria. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.1:106-122. 1967. 99.9 In82
- 84417 LAAS, E. 25 years of higher forestry education in the Estonian SSR (1940-1965). (Es) Est. Sel'skokhoz. Akad. Sb. Nauch. Tr. 50:24-32. 1968. 106 Es83  
German summary.
- 84418 OUDIN, M. The National Waters and Forests School [Ecole Nationale des Eaux et Forêts, Nancy] and the development of French forestry education. 18 p. (FS-551) Transl. 16750  
Translation from Memoirs de l'Academie de Stanislas 1946-1946. 1950:81-99.
- 84419 PORUBIAK, J. The development of qualifications of foresters in state forests of Slovakia. (Cz) Czech. Min. Zemed. Les. Hospod. Ustav. Vedeckotech. Inform. Les. Cas. 41:47-58. Jan.1968. 99.9 C334  
English summary.
- 84420 STREITZ, H. Hundred years of forestry instruction in Hannoversch-Munden (1868-1968). (Ge) Forst- Holzwirt 23(9):181. May 8, 1968. 99.8 F7724  
Hannoversch-Munden Forstakademie.
- 84421 VEERMETS, K. First decades of higher forestry education in Estonia. (Es) Est. Sel'skokhoz. Akad. Sb. Nauch. Tr. 50:11-23. 1968. 106 Es83  
German summary.
- 84422 WATERS, D. A branch of knowledge. Quart. J. Forest. 62(2):132-136. Apr.1968. 99.8 Q2  
Forestry education.
- FOREST RESOURCES
- 84423 DAS, B. N., and RAJKHOWA, S. Woodlands of Assam. Indian Forest. 94(2):137-146. Ref. Feb.1968. 99.8 In2
- 84424 FERGUSON, R. H. The timber resources of Pennsylvania. U. S. Forest Serv. Resour. Bull. NE-8,147 p.,map. 1968. A99.9 F7622Uf
- 84425 OSTROM, A. J. Forest area in Michigan counties, 1966. U. S. N. Cent. Forest Exp. Sta. U. S. Forest Serv. Res. Note NC-38,4 p.,map. Aug.1967. aSD11.A33
- 84426 ZIVNUSKA, J. A. U.S. timber resources in a world economy. Washington, Resources for the Future, 1967. 125 p. Ref. HD9757.Z5
- FOREST INFLUENCES
- 84427 BATJER, D., and LUCKEN, J. VON. Results of windbreak trials in the Weser marsh and their use in the practice. (Ge) Holzzucht 22 (1/2):13-16. Feb.1968. 99.8 H743
- 84428 BIALOBOK, S. Selection of tree species for windbreak planting in the Zulawy lowland. (Pol) Las Polski 42(5):4-6. Mar.1/15,1968. 99.8 L33
- 84429 CHERNYSHEVA, A. P. Praktikum po lesovodstvu i zashchitnomu lesorazvedeniyu [Handbook on windbreak management and silviculture]. Moskva, Kolos, 1967. 149 p. Ref. SD391.C45
- 84430 FEDORENKO, V. P. Effect of forest shelter belts on humus accumulation in Chestnut soils of Altai Territory. (Rus) Pochvovedenie 11: 82-85. Ref. Nov.1967. 57.8 P34  
English summary.
- 84431 GRUSZCZYNSKI, T. Windbreak planting in the Vistula delta. (Hu) Erdo 17(2):85-86. Feb. 1968. 99.8 Er22  
Poland.
- 84432 MUDRICH, H. The tasks of community forests in the industrial conglomeration areas of Northrhine-Westphalia. (Ge) Forst- Holzwirt 23(4):61-63. Feb.23,1968. 99.8 F7724  
Includes beneficial and recreational role.
- 84433 PUSTOVOITOV, N. D. The hydrological role of forest shelterbelts in the northern Kazakhstan. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 2: 72-76. Ref. Feb.1968. 20 V633  
Effects on soil moisture.
- 84434 WARTENA, L. A contribution to the understanding of wind protection. (Du) Ned. Heide-maatsch. Tijdschr. 79(4):174-181. Apr.1968. 12 N282  
Wind currents and windbreak planting.
- FOREST INJURIES AND PROTECTION
- 84435 AULITZKY, H. The causes of stormy weather catastrophes and the degree of their influence. (Ge) Centrabl. Gesamte Forstwesen 85(1):2-32, map. Ref. Mar.1968. 99.8 C33  
English summary.
- 84436 BUI VAN KIN. Keep forests green. Joint Publ. Res. Serv. Transl. N. Vietnam 318:40-42. Mar.1,1968. (JPRS 44,557) DS557.A7J6  
Preservation.  
Translation from Nhan Dan, Jan.25,1968:2.  
Issued by CFSTI.
- 84437 BULLARD, R. W., and CAMPBELL, D. L. Evaluation of adhesives for Foliar application of chemicals. Forest Sci. 14(1):39-44. Mar. 1968. 99.8 F7632  
For retaining chemical repellents in wildlife control.
- 84438 CAPECKI, Z. Danger by the increase in secondary pests in mountain forests. (Pol) Las Polski 42(4):8-10. Feb.16/29,1968. 99.8 L33  
Increase in insect populations following weather caused damages.
- 84439 DOMINIK, J. Observations on the specific composition and abundance of occurrence of some insects destroying wood in forest in relation to the insolation inside a stand. (Pol) Sylwan 112(2):29-33. 1968. 99.8 Sy52  
English summary.
- 84440 GADZIKOWSKI, R. Trials of the chemical control of *Exoteleia dodecella* L. with the use of aircraft. (Pol) Sylwan 112(2):67-72. 1968. 99.8 Sy52  
English summary.  
Pine pest control.
- 84441 HOLLOWAY, C. W. The examination of browsed Scots pine [*Pinus sylvestris*] as a means of identifying the browsing animal. Scot. Forest. 22(2):123-128. Apr.1968. 99.8 Sco3  
Injuries.
- 84442 KARCZEWSKI, J. Contribution to the knowledge of entomophags connected with the pine moth (*Archips piceana* (L.), Tortricidae, Lep.) as a host. (Pol) Sylwan 112(2):35-40. 1968. 99.8 Sy52  
English summary.
- 84443 KISS, L. Effects of insecticides on *Populus* cuttings. (Hu) Erdo 17(1):26-29. Jan.1968. 99.8 Er22  
German summary.  
Injurious effect.
- 84444 LELEAGA, R., POP, M., and DRAGHICI, C. *Tortrix viridana* L. in forests of Giroc, in the region of Banat. (Rum) Rev. Padurilor 83(2): 68-72. Feb.1968. 99.8 R327  
Includes control.
- 84445 LENGYEL, GY. New hand tool for wildlife damage control. (Hu) Erdo 17(1):34-37. Jan. 1968. 99.8 Er22  
German summary.
- 84446 NEF, L. Comparison of *Rhyacionia buoliana* Schiff. populations in response to mineral fertilizers. (Fr) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.5:650-658. 1967. 99.9 In82  
*Pinus sylvestris* pests.
- 84447 OTTAWA FOREST PROTECTIVE ASSOCIATION. Fifty-third annual report, 1966. Allumette Island, Quebec, 1967. 58 p. 99.9 Ot8  
Text also in French.



- 84448 POPESCU, C. I. The resistance of tree varieties to the air pollution. (Rum) Rev. Padurilor 83(2):72-75. Ref. Feb.1968. 99.8 R327
- 84449 RAKITINA, Z. G. Effect of aeration of frost resistance of shoots of the woody plants. (Rus) Fisiol. Rast. 15(2):235-245. Ref. Mar./Apr. 1968. 450 F58  
English summary.  
Forest trees; as related to cold injuries.
- 84450 SANGAL, P. M. Need for a "cull survey" in Indian forests. Indian Forest. 93(12):795-797. Dec.1967. 99.8 In2
- 84451 SCHWENKE, W. Forest protection and biological balance. (Ge) Mitt. Staatsforstverwalt. Bayerns 36:298-309. Ref. 1967. 99.9 B342  
In relation to pest control.
- 84452 STAUDENMANN, P. Experiences with delayed recovery of storm damages in spring 1967. (Ge) Schweiz. Z. Forstwesen 119(3):221-222. Mar.1968. 99.8 J82
- 84453 STORCH, K., and BAAK, W. Fences for forest culture—building material and suggestions for uniform types. II. (Ge) Forstarchiv 39(4):99-100. Apr.1968. 99.8 F7723  
For wildlife control.
- 84454 TITOVSEK, J. Injuries inflicted to forest trees by Glis glis L. (Sl) Gozdarski Vest. 26(1/2):23-30. 1968. 99.8 G74  
German summary.
- 84455 ZEMLJIC, M. The construction of smaller dams for the regulation of torrents. (Sl) Ljubljana. Inst. Gozdno Lesno Gosp. Sloven. Zb. 5:213-234. Ref. 1967. 99.9 L76  
French summary.

#### Forest Fire Prevention and Control

- 84456 BARDAN, J. Forest fire danger is always actual. (Pol) Las Polski 42(4):3-5. Feb.16/29, 1968. 99.8 L33
- 84457 BAUMGARTNER, A., and others. Forest fires in Bavaria 1950-1959. (Ge) Mitt. Staatsforstverwalt. Bayerns 36:57-79, map. 1967. 99.9 B342  
L. Klemmer, E. Raschke, and G. Waldman, joint authors.
- 84458 DIETRICH, J. H. Wildfire detection in the United States, a review of current practices and a look into the future. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.5:702-723. Ref. 1967. 99.9 In82
- 84459 HESS, R. J., and INNES, W. California's 1967 fire weather severity. Calif. Dep. Conserv. Div. Forest. Fire Contr. Exp. 17,5 p., map. Feb.1968. 99.9 C122Fi
- 84460 RUFFER, H. Forest fire protection propaganda in east Germany. (Ge) Las Polski 42(5):16-17. Mar.1/15,1968. 99.8 L33
- 84461 TAYLOR, C. J. Fire protection of woodlands. Scot. Forest. 22(2):135-138. Apr.1968. 99.8 Sco3
- 84465 BADSHAH, M. A. Wildlife management in Madras State. Indian Forest. 94(2):171-174. Feb.1968. 99.8 In2
- 84466 BAITIN, A. A., and others. Uchastkovy metod lesoustroistva [Plot method of forest management]. Moskva, Lesnaya Promyshl, 1967. 199 p. Ref. SD431.U25  
I. V. Logvinov, D. P. Stolyarov, G. G. Samoilovich, and P. V. Gorski, joint authors.
- 84467 BERLEPSCH, B. FREIHERR VON. Rationalization in practical forest enterprise—as seen in the state forestry of Hesse. (Ge) Forst-Holzwirt 23(3):44-50. Ref. Feb.8,1968. 99.8 F7724
- 84468 BICHLMAIER, F. Prerequisites for judging forest as element of regional planning. (Ge) Mitt. Staatsforstverwalt. Bayerns 36:80-87. Ref. 1967. 99.9 B342
- 84469 BLUDOVSKY, Z. The organization of management of forest enterprises. (Cz) Czech. Min. Zemed. Les. Hospod. Ustav. Vedeckotech. Inform. Les. Cas. 41:59-71. Jan.1968. 99.9 C334  
English summary.
- 84470 BOROWY, R. L. Activities of production results of the enterprise "LAS." (Pol) Las Polski 42(5):9-10. Mar.1/15,1968. 99.8 L33  
Management.
- 84471 BOTWIN, M. Ergological criteria in the organization of production processes in forestry. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.8:670-677. 1967. 99.9 In82  
Energy requirements and work management of forest labor.
- 84472 CHODNIK, T. Suggestions for the forestry practitioner—spring work in the flatland forest. (Pol) Las Polski 42(5):14-15. Mar.1/5, 1968. 99.8 L33
- 84473 CHOVANEC, J. New system of forest management after the first year its introduction. (Cz) Les [Bratislava] 24(5):193-198. 1968. 99.8 L5632
- 84474 DAVIS, J. B. Why not PERT [Program Evaluation and Review Technique] your next resource management problem. J. Forest. 66(5):405-408. Ref. May 1968. 99.8 F768
- 84475 DEHN, H. Agriculture and wood production. (Ge) Mitt. Deut. Landwirt.-Ges. 83(4):83-84. Jan.25,1968. 18 N39  
Private forests and wood marketing.
- 84476 ERNST, F. Status and tasks of hunting research within the frame of a forestry research establishment. (Ge) Mitt. Staatsforstverwalt. Bayerns 36:88-96. 1967. 99.9 B342
- 84477 FRITZELL, P. A. The wilderness and the garden, metaphors for the American landscape. Forest Hist. 12(1):16-22. Apr.1968. 99.8 F7698
- 84478 FUJIWARA, M. On the assets concepts in forestry accounting. (Ja) Forest Econ. 21(2):18-25. Ref. Feb.1968. 99.8 R474
- 84479 HABERLE, S. Actual starting points for rationalization of raw wood production. (Ge) Forst-Holzwirt 23(9):191-192. (Condensed) May 8,1968. 99.8 F7724
- 84480 HALASZ, A. Most important elements of the new management systems of forest enterprises. (Hu) Erdo 17(4):154-166. Apr.1968. 99.8 Er22  
English summary.
- 84481 HERMANSEN, N. K. Economic aspects of Danish forestry during a 20-years period. (Da) Dansk Skovfor. Tidsskr. 53(1):4-74. Jan.1968. 99.8 D23  
English summary.
- 84482 HOFFMAN, G. How forestry co-ops can borrow from FHA. News Farmer Coop. 35(3):10. June 1968. 166.2 N47
- 84483 JEROME, R. Planning, forest management in the new economic system. (Hu) Erdo 17(3):103-109. Mar.1968. 99.8 Er22  
German summary.
- 84484 JOBST, E. Farm forest in Bavaria. (Ge) Mitt. Deut. Landwirt.-Ges. 83(19):692,694-695. May 9,1968. 18 N39

#### FOREST MANAGEMENT

- 84462 ABONYI, I. Material incentives in the new economic system with special emphasis on forestry wages. (Hu) Erdo 17(4):170-174. Apr.1968. 99.8 Er22  
German summary.
- 84463 ACHTERHOF, P., and DRUYFF, A. H. New overall for forest workers. (Du) Ned. Heide-maatsch. Tijdschr. 79(4):199-201. Apr.1968. 12 N282  
For accident prevention.
- 84464 ALEXE, A. On the scientific determination of the costs of establishment of forests and returns and its utilization as an active factor in the implementation of management goals. (Rum) Rev. Padurilor 83(2):96-99. Feb. 1968. 99.8 R327  
English summary.

- 84485 KERR, E. The Homer C. Mitchell Tree Farm [Louisiana]. Soil Conserv. 33(11):252-254. June 1968. 1.6 So3S  
Forest management research.
- 84486 KIRBY, M. W. Choosing an optimal fleet equipment rate structure; an analysis of alternatives. Berkeley, California, U. S. Department of Agriculture, Forest Service, Management Sciences Staff, 1966. 32 p. PREP 469
- 84487 KRAHL-URBAN, J. The university demonstration forests and their importance for teaching and research. (Ge) Allg. Forst- Jagdzeitung 139(4/5):107-112. Apr./May 1968. 99.8 AL3  
English summary.
- 84488 KRIZAN, M. Beware of accidents during the work. (Cz) Les [Bratislava] 24(5):205-207. 1968. 99.8 L5632
- 84489 KROTH, W. Optimal stocking density from management aspect. (Ge) Mitt. Staatsforstverwaltung. Bayerns 36:175-184. Ref. 1967. 99.9 B342
- 84490 KRYCH, K. Extra-wages incentives of material interest in forest management. (Pol) Sylwan 112(2):1-12. 1968. 99.8 Sy52
- 84491 LEIBUNDGUT, H. The forest in service of aiding the mountain areas. (Ge) Wald Holz 49 (7):184-190. Mar.1968. 99.8 W14
- 84492 LE VAN CHUNG. Intensive forestry. Joint Publ. Res. Serv. Transl. N. Vietnam 318:30-32. Mar.1,1968. (JPRS 44,557) DS557.A7J6  
Translation from To Quoc 12:38-40. 1967. Issued by CFSTI.
- 84493 LOYCKE, H. J. Forecasting developmental trends in forestry mechanization. (Ge) Forst- Holzwirt 23(3):37-44. Ref. Feb.8,1968. 99.8 F7724
- 84494 MANN, H. J. Net profits on the smaller private forest. (Ge) Mitt. Deut. Landwirt.-Ges. 83(9):278-281. Feb.29,1968. 18 N39
- 84495 MOSSADEGH, A. General review of the mountain beech in the Caspian forests of Iran. (Fr) Rev. Forest. Franc. 20(1):20-27. Jan.1968. 99.8 R329  
Management.
- 84496 MUELLER-DARSS, H. Community aspects of forest labor. (Ge) Forstarchiv 39(4):86-90. Apr.1968. 99.8 F7723
- 84497 MULDER, D. Possibilities for foresters in the present management practice. (Ge) Deut. Forstmann 8(2):2-4,6,8. Feb.1968. 99.8 D486
- 84498 NAL'SKII, B. Labor protection in the Soviet forestry and wood industry. (Pol) Las Polski 42(4):15-16. Feb.16/29,1968. 99.8 L33
- 84499 NGUYEN VAN PHUONG. Increasing labor productivity in the forestry branch. Joint Publ. Res. Serv. Transl. N. Vietnam 290:43-46. Nov.22,1967. (JPRS 43,504) DS557.A7J6  
Translation from Nhan Dan, Oct.22,1967:2. Issued by CFSTI.
- 84500 NORWAY. STATISTISK SENTRALBYRA. Skogstatistikk, 1966. Forestry statistics, 1966. Oslo, 1968. 90 p. 257.2 St2Sko  
Table headings also in English.
- 84501 OEKONOMOPOULOS, A. The University forest of Pertuli and the development of active forestry in Greece. (Ge) Forstarchiv 38(11/12):278-283. Ref. Nov./Dec.1967. 99.8 F7723
- 84502 PARDE, J. Wood production and Paterson's index. 10 p. (FPL No. 381)  
Transl. 16806  
Translation from Schweizerische Zeitschrift fur Forstwesen 110(4). Apr.1959.
- 84503 PIPAN, R. The development and overcoming of inner contradictions in the field of forest administration. (Sl) Ljubljana. Inst. Gozdno Lesno Gosp. Sloven. Zb. 5:121-149. 1967. 99.9 L76  
German summary.  
Includes policies and economics.
- 84504 RAGAZ, C. Structural changes and goal setting in mountain forestry. (Ge) Schweiz. Z. Forstwesen 119(1):1-30, map. Ref. Jan.1968. 99.8 J82  
French summary.
- 84505 RAUCHENBERGER, K. Does forestry pay on the farm? (Ge) Mitt. Deut. Landwirt.-Ges. 83 (4):85-86. Jan.25,1968. 18 N39  
Includes management aspects.
- 84506 RICHARDSON, E. R. Olympic National Park, 20 years of controversy. Forest Hist. 12(1): 6-15. Apr.1968. 99.8 F7698  
In Washington.
- 84507 RINKINEN, I. Development alternatives in the organization chains of Finnish forestry. (Fi) Silva Fenn. 2(1):25-48. 1968. 99.9 F497  
English summary.  
Forest owners and forest industries.
- 84508 SCHMOTZER, U. The situation of the farm forest and aspects of its management. (Ge) Forderungsdienst 16(2):53-60. Feb.1968. 18 F75  
Austria.
- 84509 SOLLIE, C. R. Factors related to use of recommended forestry practices in five Mississippi counties. Miss. Agr. Exp. Sta. Bull. 753, 7 p. Dec.1967. 100 M69
- 84510 SOPP, L. Experiment for determining primary costs in forestry. (Hu) Erdo 17(1):10-15. Jan.1968. 99.8 Er22  
German summary.
- 84511 SPEIDEL, G. Measuring rationalization results. (Ge) Forsttech. Inform. 1:1-4. Jan. 1968. 99.8 F7794
- 84512 STACKELBERG, S. VON. Coordination of labor; transition forms in execution of short activities with examples of narrow film photographs of forest labor. (Ge) Forstarchiv 39(4): 82-86. Apr.1968. 99.8 F7723
- 84513 STERN, R. Forest regression in Zillertal; changes in forest area since 1800. (Ge) Centralbl. Gesamte Forstwesen 85(1):32-42, map. Mar.1968. 99.8 C33  
English summary.
- 84514 STREHLKE, B. Forest labor in view of the International Labor Organisation. (Ge) Forstarchiv 39(4):91-93. Apr.1968. 99.8 F7723
- 84515 U. S. FOREST SERV. KOOTENAI NATIONAL FOREST. Timber management plan, Kootenai working circle, Kootenai National Forest, region one, Montana-Idaho. n.p., 1967. 99 p., map. PREP 870
- 84516 VOLGMANN, W. Development of forested area in the Federal Republic of Germany. (Ge) Forst- Holzwirt 23(2):21-26. Jan.23,1968. 99.8 F7724
- 84517 WARTENA, R. Four centuries of forest management in Gelderland 1400-1800. III. (Du) Ned. Heidemaatsch. Tijdschr. 79(4):174-181. Apr.1968. 12 N282
- 84518 WENTZEL, K. F. Nature conservation and landscape tending as tasks of foresters. (Ge) Deut. Forstmann 8(3):2-4. Mar.1968. 99.8 D486
- 84519 WILLIAMSON, K. A breeding bird survey of Queen Wood in the Chilterns, Oxon. Quart. J. Forest. 62(2):118-128. Apr.1968. 99.8 Q2  
Bird distribution related to different kinds of silvicultural management.
- 84520 YOSHIZAWA, S. A survey of researches in forestry labor problems after the war. 1. (Ja) Forest Econ. 21(2):1-17. Feb.1968. 99.8 R474

#### Forest Description and Mensuration

- 84521 ANUCHIN, N. P. Integral method for determination of the volume of main forest cuttings. (Rus) Les. Khoz. 1:31-36. Jan.1968. 99.8 L5622  
Mensuration.
- 84522 ASSMANN, E. Estimation of current and future yield. (Ge) Mitt. Staatsforstverwaltung. Bayerns 36:18-39. Ref. 1967. 99.9 B342



- 84523 BABOS, I., and KOPP, D. Results of comparing methods of forest site and vegetation mapping in the Hungarian Danube-Tisza inundation area. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:84-91. 1967. 99.9 In82
- 84524 BLACKMON, B. G., and RALSTON, C. W. Dry weight of several Piedmont hardwoods. J. Forest. 66(5):418-420. May 1968. 99.8 F768
- 84525 BOUCHON, J. Statistical inventory of forest on very steep areas. (Fr) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.6:158-167. 1967. 99.9 In82  
English summary.
- 84526 EBINGER, J. E. Woody vegetation survey of Sargents Woods Coles County, Illinois. Ill. State Acad. Sci. Trans. 61(1):16-25, map. 1968. 500 IL6
- 84527 ECKHART, G. Determination of crown quality of standing trees with methods, which provide for comparative results and which are accessible to statistical treatment. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.4:160-170. 1967. 99.9 In82
- 84528 EMROVIC, B. Selecting diameter-increment sample trees (from which the increment cores are to be extracted) when using Meyers method of tariff differences. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.6:563-565. 1967. 99.9 In82
- 84529 GARLAND, H. Using a polaroid camera to measure trucked hardwood pulpwood. Pulp Paper Mag. Can. 69(8):86-87. Apr.19, 1968. 302.8 P96
- 84530 GODDARD, R. E., and STRICKLAND, R. K. Volume and weight tables for five-year-old plantation grown slash pine [*Pinus elliottii*]. Fla. Univ. Sch. Forest. Res. Rep. 14, 8 p. Jan. 1968. 99.9 F664
- 84531 GROSSCUTH, W. Volume and value of felling-ripe poplar stands. (Ge) Holzzucht 22(1/2):6-12. Ref. Feb. 1968. 99.8 H743  
English summary.
- 84532 HAUGBERG, A. The influence of tree stocking upon quantity and quality production in uneven aged spruce stands. 6 p. (FPL No. 35) Transl. 16821  
Translation from Tidsskrift for Skogbruk 37:221-239, 286-304, 335-350. 1929.
- 84533 HELLRIGL, B. The use of magnetic tape recorders in forest measurements. 6 p. Transl. 16224  
Translation from Italia Forestale e Montana 19(4):135-139. 1964.
- 84534 HOLGATE, P. The angle-count method. Biometrika 54(3/4):615-623. Ref. Dec. 1967. 442.8 B522  
Bitterlich's angle-count method of forest mensuration.
- 84535 KAWANA, A., and others. Studies on fertilization in mature stands. I. Some effects of application of fertilizers on (*Cryptomeria japonica*) stands. (Ja) Tokyo Univ. Agr. Technol. Bull. Exp. Forests 7:1-8. Ref. Jan. 1968. 99.9 T575  
Y. Aiba, K. Haibara, and M. Moro, joint authors.  
English summary.  
Effects of growth, mensurational data given.
- 84536 KAWANA, A., and others. Studies on fertilization in mature stands. II. Some effects on application on the Hinoki (*Chamaecyparis obtusa*) stands. (Ja) Tokyo Univ. Agr. Technol. Bull. Exp. Forest 7:9-13. Ref. Jan. 1968. 99.9 T575  
Y. Aiba, K. Haibara, and S. Matsunaga, joint authors.  
English summary.  
Effects of growth, mensurational data given.
- 84537 KENNEL, R. Yield information results of recent extended fertilizing experiments. (Ge) Mitt. Staatsforstverwalt. Bayerns 36:113-128. Ref. 1967. 99.9 B342  
Increment studies.
- 84538 LABAU, V. J. Literature on the Bitterlich method of forest cruising; a bibliography. U. S. Forest Serv. Res. Paper PNW-47, 20 p. 1967. A99.9 F7625Uni
- 84539 LAER, VON. Aerial photo interpretation in forestry; present status and developmental possibilities. (Ge) Forsttech. Inform. 3:17-24. Mar. 1968. 99.8 F7794
- 84540 LEAHU, I. The determination of current growth of trees by the established equations for the algorithmic calculation of the volume of trees. (Rum) Rev. Padurilor 83(2):75-78. Feb. 1968. 99.8 R327
- 84541 MARSZALEK, T. The model method for the analysis and evaluation of changes in stock and increment of stands. (Pol) Sylwan 112(2):73-83. 1968. 99.8 Sy52  
English summary.
- 84542 NEMETH, F. The first, new type 1:10,000 ratio forest map is published. (Hu) Erdo 17(1):15-16. Jan. 1968. 99.8 Er22
- 84543 NISULA, P. A proposal for the determination of the total volume and utilization per cent of standing timber. (Fi) Silva Fenn. 2(1):19-24. 1968. 99.9 F497  
English summary.
- 84544 REHFUESS, K. E. Relation between nutritional condition and growth performance in south German fir stands (*Abies alba* Mill.). (Ge) Forstwiss. Centralbl. 87(1):36-58. Ref. Feb. 1968. 99.8 F775  
English summary.  
Site index and mineral nutrient control of needles in relation to growth.
- 84545 SOLYMOS, R. Wood yield and cultivation possibilities of spruce in Hungary. (Hu) Erdo 17(3):109-116. Mar. 1968. 99.8 Er22  
German summary.  
Mensuration, chiefly.
- 84546 SZILAS, G. A few words on the 100-year old cadastral map. (Hu) Erdo 17(1):16-18, map. Jan. 1968. 99.8 Er22
- 84547 TIMOFEEJEV, W. On the growth characteristics of pine stands of natural and artificial origin. (Rus) Est. Sel'skokhoz. Akad. Sb. Nauch. Tr. 50:57-79. 1968. 106 Es83  
German summary.
- 84548 ZAKHAROV, V. K. Lesnaya taksatsiya [Forest mensuration]. Ed. 2, rev. and enl. Moskva, Lesnaya Promyshl., 1967. 408 p. Ref. SD551.Z28 1967

## FOREST PRODUCTS AND UTILIZATION

- 84549 BRITISH COLUMBIA. FOREST SERV. Half-yearly register of marks for timber sales and timber sale harvesting licenses—tree-farm licenses. Volume II. List No. 165, corrected to September 30, 1967. n.p., 1967. 91 p. 99.9 B77H
- 84550 BRITISH COLUMBIA. FOREST SERV. Half-yearly register of timber, log salvage, and license to cut marks. Volume I. List No. 165, corrected to September 30, 1967. n.p., 1967. 294 p. 99.9 B77H
- 84551 CALIFORNIA. DIV. OF FORESTRY. Production of California timber operators in 1966. Calif. Dep. Conserv. Div. Forest. State Forest Notes 35, 6 p. Jan. 1968. 99.9 C122S
- 84552 FOREST PRODUCTS RESEARCH SOCIETY. Abstracts of selected papers to be presented at the 22nd annual meeting. Forest Prod. 18(6):26-28, 70. June 1968. 99.9 F7662J
- 84553 KAISER, T. Price system of forest products. (Hu) Erdo 17(4):167-170. Apr. 1968. 99.8 Er22  
German summary.
- 84554 LANGENDORF, G. Problems of prognostic development of the wood industry and task for research and development. (Ge) Holzindustrie 21(5):129-132. May 1968. 99.82 H742
- 84555 SASKATCHEWAN FOREST PRODUCTS. Annual report for the year ending October 31, 1967. Regina, 1968. 9 p. 99.9 Sa74

- 84556 SHARYGIN, M. D. Interrelations between different stages of forest-power-industrial cycle (exemplified by northeast Kirov Region). (Rus) Moscow. Univ. Vestnik. Ser. 5, Geogr. 2:105-107. Mar/Apr.1968. 331.9 M85  
English summary.  
Forest products industry.
- 84557 SPEER, N. Situation of wood commerce in the new economic mechanism system. (Hu) Erdogazdasag Falpar 21(4):7-8. Apr.1968. 99.8 Er2  
Wood-using industries.
- 84558 TOBERMANN, J. R. Industry boom means more jobs. Forests People 18(2):36-37. Second Q.1968. 99.8 F7628  
In the wood-using industries.
- 84559 TOMULESCU, F. Results and perspectives of the forestry industry. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 624:61-63. Feb.8,1968. (JPRS 44,287) 173 J663Ste  
In Romania.  
Translation from Romania Libera, Dec.26, 1967:1-3.  
Issued by CFSTI.
- 84560 ZAGONI, I. Reflections on technological-economic problems of wood products manufacturing plants. (Hu) Erdo 17(3):126-132. Mar. 1968. 99.8 Er22  
German summary.
- Lumbering and Logging
- 84561 ABT, E. Execution and organization of forest and farm road maintenance in the Canton Schwyz. (Ge) Schweiz. Z. Forstwesen 119(3):213-219. Mar.1968. 99.8 J82  
French summary.
- 84562 BACKMUND, F. Indices for the accessibility of forest enterprises by motorized roads. (Ge) Mitt. Staatsforstverwalt. Bayerns 36:40-56. 1967. 99.9 B342
- 84563 BACKMUND, F. Indices of the degree of forest opening by automobile travelled roads. (Ge) Schweiz. Z. Forstwesen 119(3):179-195. Mar. 1968. 99.8 J82  
French summary.
- 84564 BROWN, G. W., and KRYGIER, J. T. Changing water temperatures in small mountain streams. J. Soil Water Conserv. 22(6):242-244. Nov./Dec.1967. 56.8 J822  
Effects of clear cutting of timber.
- 84565 FARKAS, P. Factors influencing effectiveness of log hauling. (Hu) Erdo 17(3):97-103. Mar. 1968. 99.8 Er22  
Germany summary.
- 84566 HACKING, N. The new tugs. Brit. Columbia Lumberman 52(3):31-35. Mar.1968. 99.81 B77  
Log transportation.
- 84567 JERGUS, S. Perspective for the use of horses in forestry of Slovakia. (Cz) Les [Bratislava] 24(5):208-212. 1968. 99.8 L5632  
German summary.  
For hauling logs.
- 84568 JEWULA, E. Technique of harvesting and cutting of wind damaged trees in mountain areas. 2. (Pol) Las Polski 42(5):11-13. Mar.1/15, 1968. 99.8 L33
- 84569 KORDIS, F. Mechanization of hauling logs in the light of modern forestry. (Sl) Gozdarski Vest. 26(1/2):1-12. 1968. 99.8 G74  
German summary.
- 84570 KRIVEC, A. Modern forest wheel tractors and their use with other hauling equipment in Slovenia. (Sl) Gozdarski Vest. 26(1/2):31-49. Ref. 1968. 99.8 G74  
German summary.
- 84571 LANDSCHUTZ, W. Analysis of structure of time taken for sub-operation and its practical application, exemplified in logging of spruce long logs with hand saws and with one-man power saws. (Ge) Forstarchiv 39(4):77-82. Apr.1968. 99.8 F7723
- 84572 MIHAILA, I., and others. Technological studies of the construction of forest roads. I. (Rum) Rev. Padurilor 83(2):86-90. Feb.1968. 99.8 R327  
O. Juchian, Gh. Patru, I. Caida, I. Caida, F. Dron, and N. Mihail, joint authors.  
English summary.  
The effect of equipment on labor.
- 84573 MORYL, J. The planning of forest roads. (Sl) Gozdarski Vest. 26(1/2):50-52. 1968. 99.8 G74  
German summary.
- 84574 NEWNHAM, R. M. Minimum merchantable tree size and machine productivity—a simulation study. Pulp Pap. Mag. Can. 69(100):227-229. 1968. 302.8 P96  
Harvesting machine productivity study.
- 84575 NORKIN, P. Timber and fishing industries at odds over use of rivers. U. S. Joint Publ. Res. Serv. Transl. USSR Consum. Goods Dom. Trade 226:11-13. Jan.26,1968. (JPRS 44,155) 173 J663Tro  
Translation from Ekonomicheskaya Gazeta 51:37. Dec.1967.  
Issued by CFSTI.
- 84576 PAVELESCU, I. M. The principal characteristics of defects of beech and oak logs found during logging operations. (Rum) Rev. Padurilor 83(2):78-83. Feb.1968. 99.8 R327
- 84577 POPOVICI, T. The determination of productivity of log hauling with air cable cranes with the open circuit cable. (Rum) Rev. Padurilor 83(2):83-85. Feb.1968. 99.8 R327  
Research methods.
- 84578 REBAC, I. Mechanization of logs hauling. (Se) Nar. Sumar 22(1/2):27-40. 1968. 99.8 N16  
German summary.
- 84579 ROSKO, P. From the experience in opening access to the forests and technology of lumber production in mountain areas of Austria. (Cz) Les [Bratislava] 24(2):79-82. 1968. 99.8 L5632  
Road construction and transportation equipment.
- 84580 ROSKO, P. The utilization of cables in the selection system of logging. (Cz) Czech. Min. Zemed. Les. Hospod. Ustav. Vedeckotech. Inform. Les. Cas. 41(2):133-148. Ref. Feb. 1968. 99.9 C334  
English summary.
- 84581 SIEGERIST, H. Organization of forest road maintenance in the state forestry Winterthur. (Ge) Schweiz. Z. Forstwesen 119(3):203-212. Mar.1968. 99.8 J82  
French summary.
- 84582 SILVERSIDES, C. R. Can industry control logging systems development? (Condensed.) Agr. Eng. 49(5):288-289. May 1968. 58.8 Ag83  
Mechanization.
- 84583 SZASZ, T. Testing of causes of cracking and splitting in tree felling as well as aspects of damage prevention. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.8:481-491. 1967. 99.9 In82
- 84584 WALTER, R. Organization of forest road maintenance. (Ge) Schweiz. Z. Forstwesen 119(3):196-202, map. Mar.1968. 99.8 J82  
French summary.
- 84585 ZASMETA, V., and LASAK, M. The development of maximal logging in the forestry of Czechoslovakia. (Cz) Czech. Min. Zemed. Les. Hospod. Ustav. Vedeckotech. Inform. Les. Cas. 41:1-12. Jan.1968. 99.9 C334  
English summary.
- Sawmills
- 84586 BIRKELAND, R., and HVAMB, G. Studies of sawing accuracy on bandsaws when sawing frozen and unfrozen logs. 8 p. (FPL No. 554) Transl. 16809  
Translation from Norsk Skogindustri 17(8):283-289. Aug.1963.



- S4587 CANADA. DOMINION BUR. OF STATISTICS. Sawmills and planing mills, 1965. Ottawa, 1968. 55 p. 99.76 C16  
Text also in French.
- S4588 SULLAND, A. A method of alternative economical forecasts for investments in sawmills. (No) Norsk Skogindus. 22(3):87,89-93. Mar. 1968. 99.82 N81
- S4589 U. S. FOREST SERV. FOREST PRODUCTS LABORATORY (MADISON WISCONSIN). List of publications on milling and utilization of timber products, March 1968. Madison, 1968. 31 p. A241.01 F762Fo  
Wisconsin University, cooperating.

#### Processing and Woodworking

- S4590 KORZENIOWSKI, A. Possibilities of increasing strength properties and stiffness of glued joints in frame and carcass joinery construction. (Pol) Przem. Drzewny 19(2):19-22. Feb.1968. 99.82 P95
- S4591 KUNESH, R. H., and JOHNSON, J. W. Strength of multiple-bolt joints: influence of spacing and other variables. Oreg. Forest Prod. Res. Cent. Rep. T-24,20 p. Ref. Mar.1968. 99.9 Or3522R  
Douglas fir joints.
- S4592 MARIAN, J. E. Wood finger-jointing. I. (Ge) Holz Roh- Werkstoff 26(2):41-45. Feb.1968. 99.81 H74  
English summary.
- S4593 RUMYANTSEV, N. Planning errors at wood-processing plant. U. S. Joint Publ. Res. Serv. Transl. USSR Consum. Goods Dom. Trade 226:7-10. Jan.26,1968. (JPRS 44,155)  
173 J663Tro  
Translation from Ekonomicheskaya Gazeta 51:23. Dec.1967.  
Issued by CFSTL.
- S4594 SEYKORA, V. The sawing of resonant logs for the production of musical instruments. (Cz) Drevo 23(1):33-34. Jan.1968. 99.82 D81  
English summary.
- S4595 WIECKO, E. Trends in development of Soviet woodworking and pulp industry. (Pol) Przem. Drzewny 19(2):13-16. Feb.1968. 99.82 P95

#### Seasoning, Conditioning, and Finishing

- S4596 CECH, M. Y. Effect of alcohol in preventing collapse under extreme drying conditions. Forest Prod. J. 18(6):35-42. Ref. June 1968. 99.9 F7662J  
Studies on *Quercus rubra* and *Betula alleghaniensis* heartwood.
- S4597 D'ANS, J. Research on technical paints, particularly on film swelling. 11 p. (FS Transl. No. 303) Transl. 16807  
Translation from Farbe und Lack 61(2):54-59. 1955.
- S4598 ERICKSON, H. D., SCHMIDT, R. N., and LAING, J. R. Freeze-drying and wood shrinkage. Forest Prod. J. 18(6):63-68. Ref. June 1968. 99.9 F7662J  
Vacuum drying.
- S4599 ERICKSON, R. W. Drying of prefrozen redwood—fundamental and applied considerations. Forest Prod. J. 18(6):49-56. Ref. June 1968. 99.9 F7662J
- S4600 JOHNSTONE, R. S. Pre-steaming and the pressure impregnation of green natural round *Pinus radiata*. Australian Timber J. Building Prod. Merchandiser 34(1):77,79. Feb.1968. 99.81 Au7
- S4601 KININMONTH, J. A., and WILLIAMS, D. H. Benefits of stack covers in air drying of radiata. New Zeal. Timber J. 14(7):30-31,33. Mar.1,1968. 99.81 N482
- S4602 KITAHARA, K., and SUZUKI, T. On the distribution of wind velocity around rectangular wood pieces in a steady wind with constant velocity. (Ja) Wood Indus. 23(2):20-24. 1968. 99.82 M72  
Seasoning
- S4603 POSKROBKO, W. Development of lumber drying in Finland. (Pol) Przem. Drzewny 19(2):10-13. Feb.1968. 99.82 P95
- S4604 POUND, J. Practical R.F. heating; general theory and application. Wood [London] 33(2):37-39. Feb.1968. 99.82 W855
- S4605 RAFALSKI, J. Tentative standarization of methods used in evaluation of lumber drying kilns. (Pol) Przem. Drzewny 19(2):16-18. Ref. Feb.1968. 99.82 P95
- S4606 TURKIA, K., and HAYGREEN, J. Platen drying of aspen [*Populus tremuloides*] sapwood. Forest Prod. J. 18(6):43-48. June 1968. 99.9 F7662J
- S4607 U. S. FOREST SERV. FOREST PRODUCTS LABORATORY (MADISON, WISCONSIN). Forest Products Laboratory list of publications on wood finishing subjects. Madison, Wisconsin, 1967. 11 p. PREP 871

#### Wood Preservation and Damage

- S4608 AUFSESS, H. VON, PECHMANN, H. VON, and GRAESSLE, E. Fluorescence microscopic investigations with fungus-attacked wood. (Ge) Holz Roh- Werkstoff 26(2):50-61. Ref. Feb. 1968. 99.81 H74  
English summary.
- S4609 BOSSHARD, H. H. Actual problems of wood protection. (Ge) Holz Roh- Werkstoff 26(1):10-18. Ref. Jan.1968. 99.81 H74  
English summary.
- S4610 CHIANI, R. G. Ensayo de durabilidad de postes para alambrado con y sin tratamiento realizado en terrenos de la ciudad de Buenos Aires [Tests of the durability of fence posts with and without treatment performed in fields of the city of Buenos Aires]. Buenos Aires, 1967. 30 p. Ref. 99.9 Ar33F
- S4611 DITRICH, B., and KERVINA, L. A contribution to the preservation of wood poles in Slovenia. (Sl) Ljubljana. Inst. Gozdno Lesno Gosp. Sloven. Zb. 5:201-212. 1967. 99.9 L76  
German summary.
- S4612 HAAS, H. The absorption and fixation of mercuric chloride in the impregnation of wood. 11 p. (FPL No. 60) Transl. 16823  
Control of wood decay.  
Translation from Osterreichische Chemiker-Zeitung 40(6):124-126. 1937.
- S4613 HARAGUCHI, T. Degradation of benzoic acid by wood-rotting fungus *Pycnoporus coccineus*. (Ja) Tokyo Univ. Agr. Technol. Bull. Exp. Forests 7:53-64. Ref. Jan.1968. 99.9 T575  
English summary.
- S4614 HARAGUCHI, T. Degradation of lignin by wood-rotting fungi. I. Influence of benzoate on the degradation of lignin by *Pycnoporus coccineus*. (Ja) Tokyo Univ. Agr. Technol. Bull. Exp. Forests 7:65-79. Ref. Jan.1968. 99.9 T575  
English summary.
- S4615 HICKIN, N. E. The conservation of building timbers; a study of the incidence of wood-boring insects and wood-rotting fungi in buildings and other contributions towards the conservation of building timbers. London, Hutchinson, 1967. 144 p.,map. Ref. (The Rentokil Library) TA422.H5
- S4616 HOCEVAR, S. Study of fungi on wood poles for electric lines in Slovenia. (Sl) Ljubljana. Inst. Gozdno Lesno Gosp. Sloven. Zb. 5:151-200. Ref. 1967. 99.9 L76  
German summary.
- S4617 INOUE, M., and ABE, H. Preservative test of goods-delivery box. (Ja) Wood Indus. 23(2):25-26. 1968. 99.82 M72  
Organic mercuric compound used in preservative test.
- S4618 KLEM, G. S. Impregnated poles. (No) Norsk Skogindus. 22(3):99-100. Mar.1968. 99.82 N81  
Comments on article by O. Ullevalseter.

- 84619 KNUDSEN, P. The old-house borer. (No) Skogeieren 1:8-9,29, map. Jan.1968. 99.81 Sk5
- 84620 LAMMKE, A. Wood protection in agricultural building. (Ge) Mitt. Deut. Landwirt.-Ges. 83 (5):114-116. Feb.1,1968. 18 N39  
Chemical protection.
- 84621 LEVI, M. P., MERRILL, W., and COWLING, E. B. Role of nitrogen in wood deterioration. VI. Mycelial fractions and model nitrogen compounds as substrates for growth of *Polyporus versicolor* and other wood destroying and wood-inhabiting fungi. *Phytopathology* 58(5):626-634. Ref. May 1968. 464.8 P56
- 84622 MAYFIELD, P. B. Coal tar creosote past, present and future. *Cross Tie Bull.* 49(4):11-12,14,16,20. Apr.1968. 99.82 C87  
In wood preservation.
- 84623 NOWOTNY, R. The durability of wood treated with fluorides. 11 p. (FPL Transl. No. 66) Transl. 16802  
Translation from *Osterreichische Chemiker-Zeitung*, No. 18. 1917.
- 84624 NOWOTNY, R. Fifteen years of experience with economy processes of creosote impregnation for wooden poles. 13 p. (FPL Transl. No. 17) Transl. 16803  
Translation from *Elektrotechnik und Maschinenbau*, No. 31. 1922.
- 84625 NOWOTNY, R. Improvement of wood treating by perforation preparation processes. 18 p. (FPL Transl. No. 58) Transl. 16805  
Preparation of wood for preservative treatment.  
Translation from *Verein Deutscher Ingenieure. Zeitschrift*. 68(49). n.d.
- 84626 NOWOTNY, R. Influence of dimensions of poles upon decay losses. 12 p. (FPL Transl. No. 57) Transl. 16804  
Translation from *Elektrotechnik und Maschinenbau*, No. 26. 1935.
- 84627 NOWOTNY, R. The laws governing the loss by decay of wooden ties and telegraph poles. 10 p. (FPL Transl. No. 75) Transl. 16810  
Translation from *Helios* 29(43):394-396. Oct.28,1923.
- 84628 PECHMANN, H. VON. Results of new studies on storage damages on conifer log. (Ge) Mitt. Staatsforstverwalt. Bayerns 36:211-235. Ref. 1967. 99.9 B342  
Decay caused by wood-destroying fungi, chiefly.
- 84629 PETROVIC, M. Oxidation-reduction potential of various wood-destroying fungi. (Se) *Nar. Sumar* 22(1/2):19-25. 1968. 99.8 N16  
German summary.
- 84630 RICARD, J. L., and BOLLEN, W. B. Inhibition of *Poria carbonica* by *Scytalidium* sp., an imperfect fungus isolated from Douglas-fir poles. *Can. J. Bot.* 46(5):643-647. Ref. May 1968. 470 C16C
- 84631 SCHWERTFEGGER, F. Beetle infestation and bluing of summer felled, not debarked pine wood. (Ge) *Forst- Holzwirt* 23(3):50-52. Feb.8,1968. 99.8 F7724
- 84632 SEIFERT, K. The chemical decomposition of the beechwood cellwall by the white-rot fungus, *Polystictus versicolor* (Linn.) Fr. 24 p. Transl. 16721  
Translation from *Holz als Roh- und Werkstoff* 24(3):81-86. 1966.
- 84633 TAYLOR, J. M. Prevention of insect attack in plywood. 1. *Lyctus* attack in obeche [*Triplachiton-scleroxylon*] plywood. *Wood* [London] 33 (2):35-36. Feb.1968. 99.82 W855
- 84634 VANINSKAYA, YU. M., and PINSKAYA, P. A. Biological resistance of wood modified by irradiation and chemical methods. (Rus) *Akad. Nauk Belorussk. SSR. Dokl.* 11(11):1024-1026. Nov.1967. 511 M663D  
To *Coniophora cerebella*.
- Lumber and Rough Products
- 84635 "ABC" BRITISH Columbia lumber trade directory and yearbook, 1967. Ed. 25. Vancouver, 1967. 335 p. 99.81 AB2
- 84636 DIETZ, P. Measuring of industrial wood. (Ge) *Schweiz. Z. Forstwesen* 119(1):45-78. Ref. Jan.1968. 99.8 J82  
French summary.
- 84637 DIETZ, P. Sale of industrial wood according to weight. (Ge) *Forsttech. Inform.* 2:9-14. Feb. 1968. 99.8 F7794
- 84638 DOYLE, J. A. U.S. proposes new softwood lumber standard. *Foreign Trade* 129(8):12-13. Apr.13,1968. 286.8 C162
- 84639 FERLAND, J. N. R. New England; birch and maple wanted for early American styles. *Foreign Trade* 129(8):4-6. Apr.13,1968. 286.8 C16
- 84640 HEGGEMANN, J. *Wood*--modern and competitive! (Ge) Mitt. Deut. Landwirt.-Ges. 83(4):94-96. Jan.25,1968. 18 N39  
Outlook.
- 84641 HEISKANEN, V. Grade distribution of spruce logs in southern Finland. (Fi) *Silva Fenn.* 2(1):1-18. 1968. 99.9 F497  
English summary.
- 84642 HROMADA, E. Trends in the post-war development of production and consumption of lumber in Czechoslovakia and in Europe. (Cz) *Czech. Min. Zemed. Les. Hospod. Ustav. Vedeckotech. Inform. Les. Cas.* 41:29-46. Jan. 1968. 99.9 C334  
English summary.
- 84643 NOVOTNY, M., PAREZ, J., and FISER, B. The optimization of specification of main assortments of lumber on basis of interchangeability of varieties. (Cz) *Czech. Min. Zemed. Les. Hospod. Ustav. Vedeckotech. Inform. Les. Cas.* 41:13-28. Jan.1968. 99.9 C334  
English summary.
- 84644 RAILWAY TIE ASSOCIATION. COMMITTEE ON MANUFACTURING AND HANDLING OF WOOD RAILWAY TIES. Report. *Cross Tie Bull.* 49 (3):7-12. Mar.1968. 99.82 C87
- 84645 RONAY, E. Current problems of rationalization and introduction of industrial methods in lumber industry of East Germany. (Cz) *Les [Bratislava]* 24(5):218-221. 1968. 99.8 L5632
- 84646 RUMSEY, R. L. A pole's-eye view of woodpeckers. *Forests People* 18(2):20-21,38-40. Second Q.1968. 99.8 F7628  
Damaging effects.
- 84647 STRIKHA, I. A. Causes of deformation of wood--details and methods of reducing it. 8 p. (FPL No. 290) Transl. 16827  
Lumber defects.  
Translation from *Nauka i Tekhnika* 7:7-11. n.d.
- 84648 SWEDISH standards for wood construction. 8 p. (FPL No. 105) Transl. 16830  
Lumber and logs, includes properties.  
Translation from *Fick-Kalender for Travaruch Byggnadsmaterialhandeln* 1951:128-136.
- 84649 VELEMINSKY, Z. New technical standards for lumber and their effect on the operation and economics of lumber industry. (Cz) *Drevo* 23(1):15-16. Jan.1968. 99.82 D81  
English summary.
- Construction
- 84650 EVISON, R. D. How can timber be promoted for engineering purposes. *New Zeal. Timber J.* 14(7):49,51,54. Mar.1,1968. 99.81 N482
- Veneers, Plywood, and Adhesives
- 84651 BRYANT, B. S. Interaction of wood surface and adhesive variables. *Forest Prod. J.* 18(6):57-62. Ref. June 1968. 99.9 F7662J



- 84652 CLAD, W. Glues and gluing; a survey of the years 1963-1966. (Ge) Holz Roh- Werkstoff 26(1):1-9. Jan.1968. 99.81 H74  
English summary.  
Review of literature.
- 84653 KERSCHER, E., BOHNER, G., and SCHNEIDER, A. On the heat transmission in veneer drying with air-jets. (Ge) Holz Roh- Werkstoff 26(1):19-28. Ref. Jan.1968. 99.81 H74  
English summary.
- 84654 LEE, I. D. G. The technical development of Finnish birch plywood. Wood [London] 33(3): 37-38. Mar.1968. 99.82 W855
- 84655 NEMEC, L. On some technological problems, especially on veneer manufacture. (Cz) Drevo 23(1):8-11,16. Jan.1968. 99.82 D81  
English summary.
- 84656 PALLAS, E. Methods of testing animal glue. 7 p. (FPL Transl. No. 77) Transl. 16838  
Translation from Technik-Industrie und Schweitzer Chemiker-Zeitung 16(23/24):234-236. 1933.
- 84657 POUND, J. Practical RF heating. Wood [London] 33(1):33-35. Jan.1968. 99.82 W855  
Veneers.
- 84658 RAKNES, E. Langtidsbestandighet av lim for baerende trekonstruksjoner. Longterm durability of structural adhesives for wood. Oslo. Norsk Tretek. Inst. Medd. 31,16 p. Ref. Feb. 1968. 99.9 Os5M
- 84659 RUBCHICH, I. Plywood in construction. (Ge) Int. Holzmarkt 59(3):1-2. Feb.15,1968. 99.81 In82
- 84660 STARK, G. Cavity box support with plywood planks. (Ge) Int. Holzmarkt 59(3):5-6. Feb.15, 1968. 99.81 In82
- 84661 STARK, G. Soundproofing with plywood constructions. (Ge) Int. Holzmarkt 59(3):4-5. Feb.15,1968. 99.81 In82
- 84662 STELLER, S., and REPKA, P. Relation of the change in temperature to the processing of veneers. (Cz) Drevo 23(1):12-14. Jan.1968. 99.82 D81  
English summary.
- 84663 TAYLOR, J. M. Prevention of insect attack in plywood. 2. Anobium attack in birch plywood. Wood [London] 33(3):43-44. Mar.1968. 99.82 W855  
Dieldrin and gamma-BHC control of Anobium punctatum.
- Furniture
- 84664 BURES, J. Furniture industry of Great Britain. (Cz) Drevo 23(1):23-28. Jan.1968. 99.82 D81  
English summary.
- 84665 DALOCSA, G. Trends in furniture industries of the members of the Council for Mutual Economic Assistance in 1936-1970. (Cz) Drevo 23(1):5-7. Jan.1968. 99.82 D81  
English summary.
- Containers
- 84666 STEFFES, F., and WEBB, S. Selected references on infestation of packages and packaging material by fungi, bacteria, insects and rodents. Madison, Wisconsin, U. S. Forest Service, Forest Products Laboratory, 1965. 4 p. PREP 1549  
Typewritten  
Chiefly wood packaging.
- Pulp and Paper
- 84667 AIKEN, W. H. The engineer in the pulp and paper industry. TAPPI (Tech. Ass. Pulp Pap. Indus.) 51(4):43A-45A. Apr.1968. 302.8 T162
- 84668 BOESEN, C. E. The surface area of pulp fibers and a method for its estimation. Svensk Papperstidn. 21(7):278-287. Ref. Apr.15,1968. 302.8 Sv2  
Includes pulp processing.
- 84669 BOMAN, N., and TREIBER, E. Particles in viscose. Svensk Papperstidn. 21(7):267-277. Ref. Apr.15,1968. 302.8 Sv2
- 84670 BRISTOW, O. J., KELLY, R. J., and SMITH, W. L. High-yield kraft for linerboard; a comparison of batch and continuous pulping. TAPPI (Tech. Ass. Pulp Pap. Indus.) 51(4):94A-97A. Apr.1968. 302.8 T162
- 84671 BRUNTON, D. C. Moisture and basis weight measured by infrared. Paper Trade J. 152(16): 63-64. Apr.15,1968. 302.8 P196  
Includes pulp.
- 84672 BYSTEDT, I., and VARDHEIM, S. Refiner mechanical pulp made at elevated temperature & pressure. Paper Trade J. 152(16):65-67. Apr.15,1968. 302.8 P196
- 84673 CANADIAN PULP AND PAPER ASSOCIATION. TECHNICAL SECT. Summaries of papers presented at the annual meeting, 1968. Pulp Pap. Mag. Can. 69(100):127-128,131-132,135-136,141-142,145,149-150,153-154,157-158,161,162,165-166,169-170,175-176,179-181. 1968. 302.8 P96
- 84674 CANADIAN PULP AND PAPER ASSOCIATION. WOODLANDS SECT. 50th annual meeting, Montreal, March 18-21, 1968. Pulp Pap. Mag. Can. 69(7):43,45,47-48,50-51. Apr.5,1968. 302.8 P96  
Summaries of papers presented.
- 84675 CHISTYAKOV, N. N. Fifty years of growth for pulp and paper in the Soviet Union. Pulp Paper Mag. Can. 69(8):50-53. Apr.19,1968. 302.8 P96
- 84676 CHOWDHURY, G. S., and others. Possible uses of ultrasonics in pulp and paper industry. Indian Pulp Pap. 22(6):355-359. Ref. Dec.1967. 302.8 In23  
S. C. Srivastava, R. S. Rohella, and C. S. Rao, joint authors.
- 84677 CROON, I., and DILLEN, S. Bleaching studies on pulps from Scandinavian softwoods. TAPPI (Tech. Ass. Pulp Pap. Indus.) 51(5):97A-104A. Ref. May 1968. 302.8 T162
- 84678 FOLBERTH, D. The concentrated bisulphitic acid boiling solutions as a problem of present interest for the technology of bisulphitic pulps in our country. (Rum) Celul. Hirtie 17(3):106-110. Mar.1968. 309.8 C334  
English summary, p.91.  
The recovering of sulfur dioxide.
- 84679 GIERTZ, H. W. Latest developments and future possibilities of the sulfite process. 22 p. (FS Transl. No. 387) Transl. 16825  
Translation from Swedish.
- 84680 GIERTZ, H. W. The opacity of paper pulps. IV. Sulfate pulps. 7 p. (FPL Transl. No. 178) Transl. 16813  
Translation from Svensk Papperstidning 55(3):72-77. Feb.15,1952.
- 84681 GUHA, S. R. D., and KUMAR, K. Chemical pulps for writing and printing papers from Eucalyptus camaldulensis. Indian Forest. 94(2): 191-193. Feb.1968. 99.8 In2  
Sulfate pulps.
- 84682 HAGGLUND, E. Hemicellulose in spruce and its characteristics in sulphite cellulose cooking. 13 p. (FPL Transl. No. 55) Transl. 16822  
Translation from Svensk Papperstidning 31(16):572-576. Aug.31,1928.
- 84683 HELJNE, O. Swedish pulp and paper industry during 60 years. (Sw) Svensk Papperstidn. 21(7):298-306. Apr.15,1968. 302.8 Sv2
- 84684 KIRK, D. G. Nitric acid bleaching of hardwood neutral sulfite semichemical pulp. TAPPI (Tech. Ass. Pulp Pap. Indus.) 51(4):145-151. Ref. Apr.1968. 302.8 T162
- 84685 MARTON, R., STAIRS, G. R., and SCHREINER, E. J. Influence of growth rate and clonal effects on wood anatomy and pulping properties of hybrid poplars. TAPPI (Tech. Ass. Pulp Pap. Indus.) 51(5):230-235. Ref. May 1968. 302.8 T162
- 84686 MCGOVERN, J. N. A vade mecum for wood pulping development. A report on "wood pulping—Quo Vadis?" TAPPI (Tech. Ass. Pulp Pap. Indus.) 51(5):38A-43A. May 1968. 302.8 T162

- 84687 NIKITIN, V. M., and others. Cooking of wood with sulfur dioxide water solutions without any bases. (Rus) Bum. Prom. 2:7-9. Feb.1968. 302.8 B88  
A. V. Nikitin, E. I. Chupka, L. L. Mitrofanova, A. A. Vyrodov, and E. M. Zotov, joint authors. English summary.
- 84698 NIPPE, W. Amine number as a criterion of the sulphitizing of sulphite pulps. (Ge) Papier 22 (2):57-59. Feb.1968. 302.8 P1934  
English summary.
- 84699 NORSK CELLULOSEFORENING. The chemical wood pulp industry in 1967. Norsk Skogindust. 22(1):20-21. Jan.1968. 99.82 N81
- 84690 OGAWA, E. Vapor-phase magnesite pulping of spruce. TAPPI (Tech. Ass. Pulp Pap. Indus.) 51(4):171-175. Apr.1968. 302.8 T162
- 84691 PACKMAN, D. F. Pulping in Britain. Quart. J. Forest. 62(2):137-144. Ref. Apr.1968. 99.8 Q2
- 84692 PAVLICKOVA, L., and STOLBOVA, M. Heterogeneity of the spent liquor after treatment of sprucewood by methanolysis. I. (Ge) Holzfor-schung 22(2):33-38. Apr.1968. 99.8 H74  
English summary.
- 84693 ROXE, G. Present status of the magnesite pulp-ing process in Sweden. Pap. Trade J. 152(25): 42-43. June 17,1968. 302.8 P196
- 84694 SKEET, C. W., and ALLAN, R. S. Standardiza-tion of hot disintegration method for mechanical pulp evaluation. Pulp Paper Mag. Can. 69(8): 71-73. Apr.19,1968. 302.8 P96
- 84695 SLUZHITELEVA, V. N., and NEPENIN, YU. N. Chemical changes in the wood substance and in cooking liquor during sulfate pulping of hard-woods. (Rus) Bum. Prom. 3:4-6. Ref. 1968. English summary.  
Aspen and birch wood.
- 84696 TALIS, F. Considerations on the continuous grinding of pulp. (Rum) Celuloza Hirtie 17(1): 29-35. Ref. Jan.1968. 309.8 C334  
English summary, p.2.
- 84697 TOCAN, M., and PASCA, E. The absorption and retention capacity of beech chemical pulp for the NaOH solution. (Rum) Celuloza Hirtie 17(1):19-24. Jan.1968. 309.8 C334  
English summary, p.2.
- 84698 TOPPEL, O. Methods of pulp analysis for the papermaker. (Ge) Papier 22(1):11-16. Ref. Jan.1968. 302.8 P1934  
English summary.
- 84699 VAN BULJTENEN, J. P., EINSPAR, D. W., and PECKHAM, J. R. Micropulping loblolly pine [Pinus taeda] grafts selected for extreme wood specific gravity. Silvae Genet. 17(1):15-19. Ref. Jan./Feb.1968. 99.8 Z36
- 
- Chemical Products and Distillates
- 84700 ANDERSON, D. M. W., and CREE, G. M. Stud-ies on uronic acid materials. XXVI. The aldo-biouronic acids in gums from Acacia species. Carbohyd. Res. 6(2):214-219. Ref. Feb.1968. 385 C172
- 84701 BANKA, S. Problems of organization, econom-ics and technique in charcoal production in the Beskid Mountains. (Pol) Las Polski 42(6):10-13. Mar.16/31,1968. 99.8 L33
- 84702 BEVAN, C. W. L., EKONG, D. E. U., and OKO-GUN, J. I. West African timbers. XXI-XXII. Chem. Soc. J. C, Org. 9:1063-1070. Ref. 1968. QD241.C5  
XXI, Extractives from Daniellia species; the structure of a new diterpene, ozic acid; XXII, The diterpenes of Oxystigma oxphyllum Harms.
- 84703 FILIPEK, Z. Studies on the content of tannins and non-tannins in the dead bark of 20, 30, and 40 years old pines. (Pol) Sylwan 112(2):41-46. 1968. 99.8 Sy52  
English summary.
- 84704 GRICE, R. E., LOCKSLEY, H. D., and SCHEIN-MANN, F. Alkane distribution as biological markers: presence and possible origin of n-alkanes in Guttiferae heartwoods. Nature 218 (5144):892-893. June 1,1968. 472 N21  
In Calophyllum scribtilifolium and Garciana eugeniifolia.
- 84705 IYER, K. R. Pine oil's contribution. Paintindia 17(10):11. Jan.1968. 306.8 P164
- 84706 KRZYSZTOFIK, W. A complex view is neces-sary in charcoal production. (Pol) Las Polski 42(6):13-14. Mar.16/31,1968. 99.8 L33
- 84707 MARCON, Y. The Hereng method for recovery of hydrochloric acid in the Bergius process of wood hydrolysis. 10 p. (FPL No. 124)  
Transl. 16831  
Translation from Nogent-sur-Marne. Centre Technique Forestier Tropical. Report. Jan.9, 1953.
- 84708 PEARL, I. A., and DARLING, S. F. Studies on the barks of the family Salicaceae. XVII. Tri-choside, a new glucoside from the bark of Popu-lus trichocarpa. Phytochem. 7(5):825-829. May 1968. 450 P5622  
Structure of salireposide from Populus tremu-loides and a new glucoside, trichoside from the bark of Populus trichocarpa.
- 84709 SCHAAL, O. The present state of the Scholler-Tornesch process for the saccharification of cellulosic materials. 12 p. Ref. (FPL No. 49)  
Transl. 16828  
Wood waste utilization.  
Translation from Cellulosechemie 16(1):7-10. 1935.
- 84710 SILA, B. Autooxidation products of resin acids from Picea excelsa L. 6 p. (TT 65-50328)  
Transl. 16256  
Translation from Roczniki Chemii 34(3/4): 1155-1160. 1960.  
Issued by CFSTI.
- 84711 STAHL, W. Distribution of the C<sup>13</sup>C<sup>14</sup> isotope ratios of peat, wood, and charcoal. (Ge) Brennstoff-Chem. 49(3):69-73. Ref. Mar.1968. 384 B75
- 84712 STEPHEN, A. M. Virgilia oroboides gum. VI. Further observations on the products of acid hydrolysis. Carbohyd. Res. 5(3):335-336. Nov. 1967. 385 C172
- 84713 VAZQUEZ RONCERO, A., ARIZA TORO, F., and MAESTRO DURAN, R. Study of the fruit of the evergreen oak (Quercus ilex). III. Analysis of the refined acorn oil waxes. (Sp) Grasas Aceites 19(1):18-21. Jan./Feb.1968. 307.8 G76  
English summary.
- Naval Stores
- 84714 DAVID, R. Increase of oeloresin flow of mari-time pine by the application of an acid paste containing dimethyl sulfoxide. (Fr) Acad. Sci. C. R. Ser. D, 266(20):2081-2085. Ref. May 13, 1968. 505 P21
- 84715 HALBROOK, N. J., SCHULLER, W. H., and LAWRENCE, R. V. Esters of rosin and olefin epoxides. Amer. Oil Chem. Soc. J. 45(5):343-344. May 1968. 307.8 J82
- 84716 HARRINGTON, T. A. Mechanizing gum naval stores. AT-FA (Amer. Turpentine Farmers Ass.) J. 30(8):4-5,6. May 1968. 309.8 Am3  
Pine gum production.
- 84717 HAYASHI, S., and others. Sesquiterpene hydro-carbons of the essential oil of the kusunoki (Cin-namomum camphora Sieb.). Bull. Chem. Soc. Jap. 41(1):234-236. Ref. Jan.1968. 385 T57B  
N. Hayashi, K. Yano, M. Okano, and T. Matsu-ura, joint authors.
- 84718 HIROI, M. Sesquiterpenoids in the leaf oil of camphor trees. II. Bull. Chem. Soc. Jap. 40 (11):2689-2690. 1967. 385 T57B
- 84719 HODGES, J. D., and LORIO, P. L. Measure-ment of oleoresin exudation pressure of loblol-ly pine [Pinus taeda L.]. Forest Sci. 14(1):75-76. Mar.1968. 99.8 F7632



- 84720 KULESZA, J., BARANOWSKA, I., and SZANIAWSKA, D. Attempts to intensify resin exudation by means of fertilizers and resin diluting chemicals. 16 p. (TT 65-50348) Transl. 16333  
Pine trees.  
Translation from Sylwan, C6(3):55-61. 1962. Issued by CFSTL
- 84721 PIOTROWSKI, Z. Properties of tar fractions obtained in the process of hardwood pyrolysis. (Pol) Przem. Drzewny 19(2):28-29. Ref. Feb.1968. 99.82 P95

## Other Forest Products

- 84722 BOLLERSLEV, K. Bark processing problems. Forest Prod. J. 18(6):19-20. June 1968. 99.9 F7662J
- 84723 BUBLITZ, W. Microbiological factors in chip decay. Pap. Trade J. 152(24):84. June 10, 1968. 302.8 P196
- 84724 BUTCHER, J. A., and HOWARD, M. Outside storage of Pinus radiata wood chips in New Zealand. TAPPI (Tech. Ass. Pulp Pap. Indus.) 51(4):117A-122A. Ref. Apr.1968. 302.8 T162
- 84725 CHINA, AGRICULTURE-FORESTRY BUR. TIMBER MANAGEMENT SECT. Native production of fibre board. 5 p. (JPRS 4055) Transl. 14816  
Translation from Mei K'uang Chi Shu 9:33-35. May 1, 1960.
- 84726 DIMITRI, L. Investigations on some properties of beech bark. (Ge) Holz Roh- Werkstoff 26(1):28-33. Ref. Jan.1968. 99.81 H74  
English summary.
- 84727 EHLERS, D. Production of ornamental greens in forestry. (Ge) Mitt. Deut. Landwirt.-Ges. 83(14):481-484. Apr.4,1968. 18 N39
- 84728 ELLIS, E. A burning quest, bark utilization. Forest Prod. J. 18(6):16-19. June 1968. 99.9 F7662J
- 84729 EMTAGE, S. Pallets. Australian Timber J. Building Prod. Merchandiser 34(1):41,43. Feb. 1968. 99.81 Au7
- 84730 FAHEY, D. J. Chemical treatments for improving compressive strength of linerboard at high moisture conditions. Indian Pulp Pap. 22(6):361,363-368. Dec.1967. 302.8 In23
- 84731 GUILLEMONAT, A., and TRIACA, M. M. On the chemical composition of cork. V. Preliminary study of cork of Kielemeyera coriacea. (Fr) Soc. Chim. France. Bull. 3:950-952. Ref. Mar.1968. 383 P21B
- 84732 KIOSSEFF, H. Experiences and device for manufacture of insulation boards with channels from wood. (Ge) Holzindustrie 21(5):134-137. May 1968. 99.82 H742
- 84733 LEE, H. M. Short cuts for particleboard MOE [modulus of elasticity] and MOR [modulus of rupture] calculations. Forest Prod. J. 18(6):33-34. Ref. June 1968. 99.9 F7662J
- 84734 SCHMIDT, R. E. A method for determining the moisture content and specific gravity of wood chips in a pressurized water system. TAPPI (Tech. Ass. Pulp Pap. Indus.) 51(4):164-170. Apr.1968. 302.8 T162
- 84735 STANISLAV, V. The production of lignite. (Cz) Les [Bratislava] 24(2):63-67. 1968. 99.8 L5632
- 84736 TABOR, H. B. Determining chip-pipeline potentials with linear programming. Forest Prod. J. 19(6):29-33, map. June 1968. 99.9 F7662J

## SILVICULTURE

- 84737 BAKOS, V. On particularities of first improvement cuttings in cultivated forests. (Rum) Rev. Padurilor 83(2):62-64. Feb.1968. 99.8 R327
- 84738 BALLO, G. The effect of use of soil cultivation machinery on their operation. (Hu) Erdo 17(1):29-33. Jan.1968. 99.8 Er22  
German summary.
- 84739 BATEMAN, B. A., ROARK, C. B., and HARRIS, H. E. Pruning and thinning small longleaf pine. La. Agr. 11(3):10-11. Spring 1968. 100 L939

- 84740 BEVELAQUA, J. Convenient culture of seed trees. (Cz) Les [Bratislava] 24(2):56-59. 1968. 99.8 L5632  
Includes seedlings.
- 84741 BOWER, D. R., and FERGUSON, E. R. Understory removal improves shortleaf pine [Pinus echinata] growth. J. Forest. 66(5):421-422. May 1968. 99.8 F768  
Hardwood removal.
- 84742 CIFRA, J. Notes on the problem of planting poplar stands. (Cz) Czech. Min. Zemed. Les. Hospod. Ustav. Vedeckotech. Inform. Les. Cas. 41(2):157-164. Feb.1968. 99.9 C334  
English summary.
- 84743 COKL, M. The state and development of selection forests in Lehen. (Sl) Ljubljana. Inst. Gozdno Lesno Gosp. Sloven. Zb. 5:89-120. Ref. 1967. 99.9 L76  
German summary.
- 84744 DICKSON, A., and WINCH, F. E. Plantation production of Christmas trees in New York. Cornell Univ. Ext. Cornell Ext. Bull. 1204, 26 p. May 1968. 275.29 N48E
- 84745 DJURDJEVIC, J. Peat soils of Zdravovac area and their suitability for the culture of poplars. (Se) Nar. Sumar 22(1/2):65-72. 1968. 99.8 N16  
German summary.
- 84746 ELPATIEVSKII, M. M., and others. Rotary canal diggers used for drainage of forests. (Rus) Gidrotech. Melior. 2:50-54. Feb.1968. 290.8 G362  
V. K. Konstantinov, A. A. Knize, and M. M. Pisarev, joint authors.
- 84747 HEIKURAINEN, L. On the possibilities of optimum drainage in peat lands. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.4:264-277. Ref. 1967. 99.9 In82  
Finland.
- 84748 JACKSON, L. W. R. Effect of thinning on growth and specific gravity of loblolly [Pinus taeda] and slash pine [Pinus elliotii]. Ga. Forest Res. Counc. Ga. Forest Res. Pap. 50, 5 p. Ref. Feb.1968. 99.9 G299G
- 84749 JACOBSEN, M. W. Commentaries to the article on culture of Abies nordmanniana at Svenstrup. (Da) Dansk Skovfor. Tidsskr. 53(1):75-78. Jan.1968. 99.8 D23
- 84750 JARO, Z. Cultivation possibilities for fast growing conifer species in Hungary. (Hu) Erdo 17(2):49-52. Feb.1968. 99.8 Er22
- 84751 KAUFMAN, C. M. Teak [Tectona grandis] production and culture in Thailand. J. Forest. 66(5):396-399. May 1968. 99.8 F768
- 84752 KOLAKOVIC, R. The importance of cultural practices in forests and their planning on principles of intensive methods of management. (Se) Nar. Sumar 22(1/2):7-18. 1968. 99.8 N16  
German summary.  
Improvement cutting.
- 84753 KOPASZ, M. Mechanical stump removal in the forestry enterprise of Godollo. (Hu) Erdo 17(1):5-10. Jan.1968. 99.8 Er22  
German summary.
- 84754 KOSTLER, J. N. The concepts "classic" and "modern" in worldwide observation of silvicultural possibilities. (Ge) Mitt. Staatsforstverwaltung. Bayerns 36:136-152. 1967. 99.9 B342  
Review of the literature.
- 84755 KRIGUL, T. On the pruning of forest stands. (Es) Est. Sel'skokhoz. Akad. Sb. Nauch. Tr. 50:121-137. 1968. 106 Es83  
German summary.
- 84756 LAZARCIK, M. Reasons for the postponement of thinning and conversion of forests. (Cz) Les [Bratislava] 24(2):49-51. 1968. 99.8 L5632
- 84757 LINES, R. The silviculture of lodgepole pine [Pinus contorta]. Scot. Forest. 22(2):91-108. Ref. Apr.1968. 99.8 Sco3
- 84758 MANN, H. J. The poplar industry in coastal areas. (Ge) Mitt. Deut. Landwirt.-Ges. 83(14):484-485. Apr.4,1968. 18 N39  
Culture.

- 84759 MANUSEV, B., and PINTARIC, K. The culture of Juglans regia. (Se) Nar. Sumar 22(1/2):41-51. Ref. 1968. 99.8 N16  
German summary.
- 84760 MARTINI, M. DE. Conferences on silviculture, mountain economics. (It) Agricoltura 17(1):84-95. Jan.1968. 16 Ag8226  
English summary, p.9.
- 84761 OPHEIM, T. Trees, national parks and people. (No) Norsk Landbruk 8:18-19,35. Apr.19,1968. 11 N8122  
Chiefly on the protection of Sequoia sempervirens in California.
- 84762 PAPP, L. Modern methods in cultivation of fast growing pine seedlings. (Hu) Erdo 17(3):119-122. Mar.1968. 99.8 Er22  
German summary.
- 84763 PECHMANN, H. VON. Silvicultural problems arising from the difficult utilization of small wood sortiments; experiences in the Central European forest areas. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.4:504-509. Ref. 1967. 99.9 In82
- 84764 PLOCHMANN, R. Silvicultural spotlight from the land of green Douglas fir [Pseudotsuga menziesii]. (Ge) Mitt. Staatsforstverwalt. Bayerns 36:236-243. 1967. 99.9 B342  
Oregon and Washington.
- 84765 PRYOR, L. D. Report to the government of Tunisia on the improvement of Eucalyptus. 6 p. Transl. 16284  
Translation of Programme Elargi d'Assistance Techniques. FAO No. 1484. L'Amelioration des Eucalyptus Rapport au Gouvernement de la Tunisie. 1962.
- 84766 REHFUESS, K. E. Nutritional status and yield of fir stands of southwest Germany. (Ge) Mitt. Staatsforstverwalt. Bayerns 36:244-265, map. 1967. 99.9 B342
- 84767 SCHOBBER, R. Ideas and proposals for a new system of thinning and tree classification. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.6:61-95. Ref. 1967. 99.9 In82  
Translation from Allgemeine Forst und Jagdzeitung 135(4):87-96. Apr.1964.
- 84768 SCHONBORN, A. VON. Are there soil races of forest trees? (Ge) Mitt. Staatsforstverwalt. 36:289-297. 1967. 99.9 B342
- 84769 SOYKA, F. Chemically performed pruning of forest trees. (Cz) Les [Bratislava] 24(2):52-54. 1968. 99.8 L5632  
German summary.  
With Tormona 100.
- 84770 STOCK, H. O. Experiences with the Japanese larch [Larix leptolepis] in mixed stands. (Ge) Forst- Holzwirt 23(2):30-31. Jan.23,1968. 99.8 F7724
- 84771 SZODFRIDT, I. Situation of our poplar culture. (Hu) Erdo 17(2):57-59. Feb.1968. 99.8 Er22
- 84772 TIWARI, K. M. Prospects of poplar plantation in Uttar Pradesh. Indian Forest. 94(2):163-168. Feb.1968. 99.8 In2
- 84773 ZAI, L. E. Norway spruce. Vt. Farm Home Sci. 10(3):3,11. Spring 1968. 100 V593  
Culture.
- 84774 ZHUKOV, A. B. Contemporary problems of the silviculture. (Rus) Akad. Nauk SSSR. Vestnik 3:75-80. Mar.1968. 511 Ak14V  
Activities of the V. N. Sukachev Institute for Forests and Trees at the Academy of Sciences of USSR, Siberian Branch [Akademiya Nauk SSSR, Sibirskoe Otdelenie, Institut Lesa i Drevesiny imeni V. N. Sukacheva].
- Regeneration
- 84775 AIBA, Y., and HASEBE, H. Studies of nursery practices. 1. Effects of shade & irrigation for sugi seedlings in seed beds. (Ja) Tokyo Univ. Agr. Technol. Bull. Exp. Forests 7:47-51. Jan.1968. 99.9 T575  
English summary.
- 84776 BALDWIN, H. I. Comparative results of the 1938 provenance test of Picea abies. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:782-786. Ref. 1967. 99.9 In82
- 84777 BELCHER, E. W., and KING, J. Storage of dewatered longleaf pine [Pinus palustris] seed is possible. Ga. Forest Res. Council. Ga. Forest Res. Pap. 51,4 p. Feb.1968. 99.9 G299G
- 84778 BLATTNY, C. Notes on the peculiar cover of trees in Vilhost. (Cz) Ziva 16(2):56-57. Mar. 1968. 409.6 Z6  
Chiefly abnormal growth of Pinus sylvestris and P. mugo mughus.
- 84779 BULKLEY, W. F. Spacing pine Christmas trees. Ill. Res. 10(2):14-15. Spring 1968. 100 IL64
- 84780 BUSZEWICZ, G. Problems and rewards in processing and storing seed. Scot. Forest. 22(2):129-134. Apr.1968. 99.8 Sco3
- 84781 CUCOS, V. Reforestation with spruce seedlings from nurseries. (Rum) Rev. Padurilor 83(2):65-68. Feb.1968. 99.8 R327
- 84782 CZARNOWSKI, D. VON. Some ideas on reforestation in windfall areas. (Ge) Forst- Holzwirt 23(2):26-27. Jan.23,1968. 99.8 F7724
- 84783 DYSON, W. G., and FREEMAN, G. H. Seed orchard designs for sites with a constant prevailing wind. Silvae Genet. 17(1):12-15. Ref. Jan./Feb.1968. 99.8 Z36  
Kenya.
- 84784 FISCHER, F. Problems in reestablishment of wind damaged forest. (Ge) Wald Holz 49(5):122-130. Jan.1968. 99.8 W14
- 84785 GERHOLD, H. D. Mini-bags for tree breeding. Silvae Genet. 17(1):31-32. Jan./Feb.1968. Jan./Feb.1968. 99.8 Z36  
For controlled pollination.
- 84786 HOPKINS, H. G. Forest tree seed certification in the Pacific Northwest. J. Forest. 66(5):400-401. May 1968. 99.8 F768
- 84787 JONES, R. W. Forest tree seed research; a report of progress in Georgia 1954-1966. Ga. Forest Res. Council. Rep. 20,15 p. Dec. 1967. 99.9 G299R
- 84788 KAUL, R. N., and JAIN, M. B. On the selection of suitable exotic tree species for Indian arid zone. I. Eucalyptus. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:654-671. 1967. 99.9 In82
- 84789 LAATSCH, W. Relations between site, nutritional status and growth performance of reforestation stands in the Mediterranean pine area. (Ge) Mitt. Staatsforstverwalt. Bayerns 36:185-198. Ref. 1967. 99.9 B342  
Spain and Turkey.
- 84790 LA BASTIDE, J. G. A. A computer program for the layouts of seed orchards. Euphatica 16(3):321-323. Dec.1967. 450 Eu6
- 84791 LAZARESCU, C. Results of the multiplication of locust tree [Robinia pseudoacacia] by repeated cuttings. (Rum) Rev. Padurilor 83(2):57-59. Feb.1968. 99.8 R327  
English summary.
- 84792 MELCHIOR, G. H. Experiments on flower stimulation in Douglas fir [Pseudotsuga menziesii] graftings. (Ge) Silvae Genet. 17(1):26-31. Ref. Jan./Feb.1968. 99.8 Z36  
English summary.
- 84793 MELZER, E. W. Interrelations between crowns, roots and increment of spruce. (Cz) Czech. Min. Zemed. Les. Hospod. Ustav. Vedeckotech. Inform. Les. Cas. 41(2):149-155. Feb.1968. 99.9 C334  
English summary.
- 84794 MERGEN, F., WORRALL, J., and FURNIVAL, G. M. Genotype-environment interactions in 50 sources of Jack pine [Pinus banksiana] seedlings. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2:459-466. Ref. 1967. 99.9 In82
- 84795 MIYAKAWA, N. Chusho kibo nae hatake no ki-kaika [Mechanization of medium and small scale nurseries]. Saikin No Ringyo Gigitu 14, 43 p. Ref. Mar.1968. 99.8 Sa2
- 84796 MORAWSKI, S. Results of recent trials of afforestation of wastelands after zinc and lead mining. (Pol) Sylwan 112(2):47-54. 1968. 99.8 Sy52  
English summary.



- 84797 OTT, P. Harvesting and quality of white birch seeds. (Es) Est. Sel'skokhoz. Akad. Sb. Nauch. Tr. 50:138-150. 1968. 106 Es83  
German summary.  
*Betula verrucosa*.
- 84798 POHL, Z. Studies on growth and morphology of *Populus maximowiczii* Henry hybrids at Kornik Arboretum. 72 p. Ref. (TT 66-57025) Transl. 16797  
In relation to breeding.  
Translation from Arboretum Kornickie 7:115-184. 1962.  
Issued by CFSTI.
- 84799 RAJASINGH, G. J. Evolution of dry zone afforestation in Madras State. Indian Forest. 94 (2):147-153. Feb.1968. 99.8 In2
- 84800 ROHMEDE, E., and SCHONBORN, A., VON. Breeding of spruce against increased exhaust fume resistance. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.5:556-566. Ref. 1967. 99.9 In82
- 84801 SCHOCH, O. The re-stocking of windfall spaces in the private forest. (Ge) Grune 96 (9):304-307. Mar.1,1968. 17 Sch9  
Switzerland.
- 84802 SMITH, L. F. Effects of spacing and site on the growth and yield of planted slash pine [*Pinus elliotii*]. Nav. Stores Rev. Terpene Chem. 77(10):4-5,9. Jan.1968. 99.81 N22
- 84803 SZEPESI, L. Development of suspension type hole diggers. (Hu) Erdo 17(3):123-126. Mar. 1968. 99.8 Er22  
German summary.  
For forest planting.
- 84804 SZWED, J. A rest period is necessary between felling and reforestation. (Pol) Las Polski 42 (6):4-5. Mar.16/31,1968. 99.8 L33
- 84805 TRANQUILLINI, W., and UNTERHOLZNER, R. Growth of two-year old larch of native origin in various sea level. (Ge) Centralbl. Gesamte Forstwesen 85(1):43-59. Ref. Mar.1968. 99.8 C33  
English summary.
- 84806 VARGA, B. Coniferae forestation with large trees in mountain areas. (Hu) Erdo 17(3):116-119. Mar.1968. 99.8 Er22  
German summary.
- 84807 VISCERA, P. Forest nurseries in the Province of Pesaro. (It) Gaz. Com. 21(1):11-17. Jan. 1968. 280.8 G253
- 84808 VIVANI, W. Forest nursery technique. (It) Colt. G. Vinicolo Ital. 114(1/2):39-42. Jan./Feb.1968. 16 C72
- 84809 VU THAI. Afforestation in 19 Provinces. Joint Publ. Res. Serv. Transl. N. Vietnam 350:8-9. Apr.19,1968. (JPRS 45,102) DS557.A7J6  
Translation from Nhan Dan, Mar.20,1968:2.  
Issued by CFSTI.
- 84810 WILUSZ, W. Effect of age and provenance of pine parent stands on the development of future generations. (Pol) Las Polski 42(6):8-9. Mar.16/31,1968. 99.8 L33
- 84811 WINTON, L. L. Fertilization in forced quaking aspen [*Populus tremuloides*] and cottonwood [*Populus deltoides*]. Silvae Genet. 17(1):20-21. Jan./Feb.1968. 99.8 Z36
- 84812 YADAV, J. S. P., and PATHAK, T. C. Studies on saline and alkaline soils and their possible improvement by afforestation. J. Soil Water Conserv. India 15(3/4):24-29. July/Dec.1967.
- 84813 YOCOM, H. A. Shortleaf pine [*Pinus echinata*] seed dispersal. J. Forest. 66(5):422. May 1968. 99.8 F768
- WOOD TECHNOLOGY**
- 84814 BRAUN, H. J., WOLKINGER, F., and BOHME, H. Development and structure of wood-rays in view of contact-isolation-differentiation to hydrosystem. III. (Ge) Holzforschung 22(2):53-60. Ref. Apr.1968. 99.8 H74  
English summary.
- 84815 CAMMERER, J. S. Heat insulation achieved by organic building materials under actual, practical conditions. 24 p.  
(FPL Transl. No. 22) Transl. 16812  
Wood.  
Translation from Gesundheits-Ingenieur [Berlin] 59(19):261-268. May 9,1936.
- 84816 CORMIO'S wood collection. 5 p. (FPL No. 51) Transl. 16824  
Translation from Forstliche Wochenschrift Silva, Dec.8,1933:389-391.
- 84817 DOLMETSCH, H., and DOLMETSCH, H. On the relations between crystallites, elementary fibrils and accessible regions in cellulose fibres, especially in wood fibre cell walls. (Ge) Papier 22(1):1-11. Ref. Jan.1968. 302.8 P1934  
English summary.
- 84818 DOST, W. A. What one trouble shooter found out about wood shrinkage. Wood Wood Prod. 73(6):32,62. June 1968. 99.82 W856
- 84819 GRAF, O. Tests on spaced wood columns. 12 p. (FPL Transl. No. 63) Transl. 16818  
Strength under various loading stress.  
Translation from Bauingenieur 17(1/2). Jan.10,1936.
- 84820 GRATZL, A. Report on the fourth International Wood Technology Conference of the FAO (April 22 to May 2, 1958). 10 p.  
(FS Transl. No. 369) Transl. 16808  
Translation from Holzforschung und Holzverwertung 10(3):41-44. 1958.
- 84821 GRIGORAS, M., and CERNATESCU-ASANDEI, A. Certain chemical aspects of hemicellulose. (Rum) Celul. Hirtie 17(3):114-121. Ref. Mar. 1968. 309.8 C334
- 84822 HORIOKA, K., TOMINAGA, H., and CHIBA, Y. Research for the improvement of wood; Rept. No. 21, on the dimensional stability of polyethylene glycol impregnation. 2. (Ja) Tokyo Univ. Agr. Technol. Bull. Exp. Forest 7:89-110. Jan.1968. 99.9 T575  
English summary.
- 84823 KASESALU, A. The anatomical structure of birch wood. (Es) Est. Sel'skokhoz. Akad. Sb. Nauch. Tr. 50:210-224. 1968. 106 Es83  
German summary.
- 84824 KAWAGUCHI, M., NAKAMURA, G. I., and OH-TANI, R. Bending tests of resin-treated laminated compressed wood. Tokyo Univ. Agr. Technol. Bull. Exp. Forests 7:81-88. Jan.1968. 99.9 T575
- 84825 KNUCHEL, H. Investigation of the specific gravity and shrinkage of Swiss wood. 23 p.  
(FPL No. 26) Transl. 16814  
Translation from Schweizerische Anstalt fur das Forstliche Versuchswesen. Mitteilungen 23(2). 1944.
- 84826 KOHARA, J. Durability of wood. I. Mechanical properties of old timbers (Horyuji temple construction timbers, *Chamaecyparis obtusa* Endlicher). 3 p. (FS Transl. No. 120) Transl. 16811  
Translation from Kyoto University. Faculty of Agriculture. Scientific Reports 2:116-131. Mar.1952.
- 84827 LEVI, M. P., and SELLEN, D. B. The degree-of-polymerization and polydispersity of cellulose in beechwood, and its radial variation across fibre cell-walls. Carbohydr. Res. 5(3): 351-355. Ref. Nov.1967. 385 C172
- 84828 LINDGREN, B. O., and SVAHN, C. M. Extractions of linden wood (*Tilia vulgaris* Hayne). Phytochemistry 7(4):669. Apr.1968. 450 P5622
- 84829 MALENKOVIC, B. Loss curve and average life of wooden telegraph poles. 16 p.  
(FPL Transl. No. 76) Transl. 16829  
Translation from Elektrotechnische Zeitschrift. 1922.
- 84830 MER, M. E. About the causes of variation of the density of wood. 18 p.  
(FPL Transl. No. 32) Transl. 16836  
Translation from Societe Botanique de France. Bulletin 39:95-105. 1892.

- 84831 METZGER, K. The principles of construction of secondary wood. 23 p. (FPL Transl. No. 46) Transl. 16835  
Includes properties.  
Translation from Naturwissenschaftliche Zeitschrift für Forst- und Landwirtschaft 6(5): 249-274. May 1908.
- 84832 MORATH, E. Resistance of the most important native (German) woods to chemical attack. 27 p. Ref. (FPL Transl. No. 52) Transl. 16815  
Properties of various wood species and the effects of preservatives.  
Translation from Verein Deutscher Ingenieure und Deutschen Forstvereine. Fachausschuss für Holzfragen. Mitteilungen. Part C. No. 5. 1933.
- 84833 NAGODA, L. Our measuring rules penalize reaction wood. (No) Norsk Landbruk 9:18-19. Mar. 3, 1968. 11 N8122
- 84834 NIKOLOV, S., and ENCHEV, E. Vlazhnost na durvesinata v surovo sustoyanie [The moisture content in the raw wood]. Sofiya, Zemizdat, 1967. 167 p. Ref. QK871.N5  
English summary.
- 84835 PETERSEN, O. G. Changes in structure of wood caused by the rising of branches of red spruce (*Picea excelsa*). 13 p.  
(FPL No. 44) Transl. 16832  
Compression wood.  
Translation from Botaniske Tidsskrift 33(5): 354-361. 1914.
- 84836 SEKHAR, A. C., and RAJPUT, S. S. Physical and mechanical properties of sal (*Shorea robusta*) from fourteen different localities in India. Indian Forest. 94(2):175-185. Feb. 1968. 99.8 In2
- 84837 SHIGO, A. L. The early stages of discoloration and decay in living hardwoods in northeastern United States; a consideration of wound-initiated discoloration and heartwood. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.9: 117-133. Ref. 1967. 99.9 In82
- 84838 SPRINGER, E. L., and ZOCH, L. L. Hydrolysis of xylan in different species of hardwoods. TAPPI (Tech. Ass. Pulp Pap. Indus.) 51(5):214-128. Ref. May 1968. 302.8 T162
- 84839 THOMAS, R. J. The development and ultrastructure of the bordered pit membrane in the southern yellow pines. Holzforschung 22(2):38-41. Apr. 1968. 99.8 H74
- 84840 TOMEK, A., and others. Thermal properties of wood and its components. 1. Derivatographic testing of *Quercus cerris*. (Ge) Holz Roh-Werkstoff 26(2):45-50. Ref. Feb. 1968. 99.81 H74  
G. Liptay, J. Simon, and L. Erdey, joint authors.  
English summary.
- 84841 WESTING, A. H. Formation and function of compression wood in gymnosperms. II. Bot. Rev. 34(1):51-78. Jan./Mar. 1968. 450 B6527  
Review of the literature.
- 84842 WHITESIDE, I. D. A pressing problem the movement of timber in service. T.D.A. (Timber Develop. Ass. Bull. 2(13):2-6. Feb. 1968. 99.8 T48  
Moisture, shrinkage and swelling in constructional timber.
- 84843 ZIEGLER, H. Biological aspects of the heartwood formation. (Ge) Holz Roh-Werkstoff 26(2):61-68. Feb. 1968. 99.81 H74  
English summary.  
Review of the literature.



## PLANT SCIENCE

## GENERAL

- 84844 BIYASHEV, G. Z., and ARISTANGALIEV, S. A. Institute of Botany of the Academy of Sciences of the Kazakh S.S.R. [Akademiya Nauk Kazakhskoi SSR, Institut Botaniki]. (Rus) Bot. Zhur. [Moscow] 53(1):137-145. Jan.1968. 451 R923  
Includes list of publications.
- 84845 BOBROV, E. G. The acquaintance with botanical institution of Czechoslovakia. (Rus) Bot. Zhur. [Moscow] 53(4):567-574. Apr.1968. 451 R923
- 84846 CHELIDZE, L. T. Some representatives of the flora of southwestern Asea in the Sarmatian deposits of southern Georgia. (Rus) Akad. Nauk Gruz. SSR, Soobshch. 48(3):683-688. Dec. 1967. 511 AK146
- 84847 CLENDENING, J. A. Three new species of *Fabasporites* Sullivan 1964 from the Appalachian Basin. W. Va. Acad. Sci. Proc. 39:315-319. 1967. 500 W52
- 84848 DAVYDOVA, N. N., and others. Diatomic and spore-pollen analysis of the core of bottomset beds of the Gdansk trough of the Baltic Sea. (Rus) Akad. Nauk SSSR, Dokl. 177(6):1415-1418. Ref. Dec.21,1967. 511 P444A  
R. N. Dzhinoridze, D. D. Kvasov, G. Masitska, and E. A. Spiridonova, joint authors.
- 84849 DEYSSON, G. Inaugural lecture of the Chair of Botany, delivered April 26, 1967, at the Faculty of Pharmacy of Paris. (Fr) Ann. Pharm. Franc. 26(2):163-176. Feb.1968. 396.8 An7
- 84850 DOROFEEV, P. I. On flora of speckled clay horizon near the village of Detkovich in southern Belorussia. (Rus) Akad. Nauk Belorussk. SSR, Dokl. 11(12):1109-1112. Dec.1967. 511 M663D  
Neocene flora.
- 84851 DOROFEEV, P. I. Two samples of Neocene flora from southeastern Belorussia. (Rus) Akad. Nauk Belorussk. SSR, Dokl. 12(1):66-69. Jan.1968. 511 M663D
- 84852 DUTHIE, H. C., and RANI, R. G. M. Diatom assemblages from Pleistocene interglacial beds at Toronto, Ontario. Can. J. Bot. 45(12):2249-2261. Ref. Dec.1967. 470 C16C
- 84853 FRANDEL, O. H. International collaboration in plant exploration and conservation. Australian Inst. Agr. Sci. J. 34(1):22-27. Mar.1968. 23 Au74
- 84854 HENDRYCH, R. Outline of the chorological development of the order Thesium (Santalaceae) in Paleoholarctic. (Ge) Preslia 40(1):28-51, map. Ref. 1968. 450 P92
- 84855 HORSFALL, J. G. Twenty years of Frontiers [of Plant Science]. Frontiers Plant Sci. [Conn. Sta.] 20(2):16,15. May 1968. 100 F92
- 84856 JEFFERIES, R. L., WILLIS, A. J., and YEMM, E. W. The Late- and Post-glacial history of the Gordano Valley, North Somerset. New Phytol. 67(2):335-348. Ref. Apr.1968. 450 N42
- 84857 JEFFREY, C. The origin and differentiation of the Archegoniate land plants: a second contribution. Kew. Roy. Bot. Gard. Kew Bull. 21(2): 335-349. Ref. 1967. 451 K51B
- 84858 KENT, D. H., comp. Abstracts from literature. Bot. Soc. Brit. Isles. Proc. 7(2):201-290. Apr.1968. 451 B658Pr  
A classified bibliography of botanical literature.
- 84859 KLOPOTOVSKAYA, N. B. Some peculiarities of pollen distribution of woody species under forest cover. (Geo) Akad. Nauk Gruz. SSR, Soobshch. 49(2):387-392. Ref. Feb.1968. 511 Ak146  
Russian summary.
- 84860 KRAFT, H. The large observatory [Tropenhaus] in the Berlin-Dahlem Botanic Garden. (Ge) Landesver. Gartenbau Landwirt. Berlin. Mitteilungsbl. 19(1):34-36, map. Jan.1968. 85 L233  
For tropical plants.
- 84861 LEMOIGNE, Y. Observation of archegonium on the axis of *Rhynia gwynne-vaughanii* Kidston and Lang; the existence of vascular gametophytes in the Devonian. (Fr) Acad. Ser. C. R., Ser. D, 266(16):1655-1657. Apr.1968. 505 P21
- 84862 LOVE, A., and LOVE, D. Continental drift and the origin of the arctic-alpine flora. Rev. Roum. Biol. Ser. Bot. 12(2/3):163-169. Ref. 1967. QK1.R4
- 84863 MAHABALE, T. S., and RAO, S. V. Fossil palm remains from Bommuru, Andhra Pradesh. Cur. Sci. 37(6):158-159. Mar.20,1968. 475 Sci23
- 84864 PILOUS, Z. Pleistocene and Holocene mosses in the Ostrava region. (Ge) Preslia 40(1):68-75. Ref. 1968. 450 P92
- 84865 POTZTAL, E. The only botanic museum in Germany. (Ge) Landesver. Gartenbau Landwirt. Berlin. Mitteilungsbl. 19(1):39-40. Jan. 1968. 85 L233  
Botanischer Museum in Berlin-Dahlem as part of the botanic garden.
- 84866 PRAKASH, U., and TRIPATHI, P. P. Fossil wood of *Adenanthera* and *Swintonia* from the tertiary of Assam. Cur. Sci. 37(4):115-116. Feb.20,1968. 475 Sci23
- 84867 QUEZEL, P. First results of the botanical exploration of Gorgeil (Republic of Sudan). (Fr) Acad. Sci. C. R. Ser. D, 266(20):2061-2063. May 13,1968. 505 P21
- 84868 RENAULT-MISKOVSKY, J. Aspects of vegetation of Wurmain II in the Narbonne region based on pollen analysis of sediments removed from the cave Tiernal (Aude). (Fr) Acad. Sci. C. R. Ser. D, 266(19):1950-1955. May 6, 1968. 505 P21
- 84869 SAMYLINA, V. A., and EFIMOVA, A. F. The first discoveries of Early-Jurassic flora in the basin of the Kalyma River. (Rus) Akad. Nauk. SSSR, Dokl. 179:166-168. 1968. 511 P444A
- 84870 SATSANGI, P. P., CHANDRA, A., and SINGH, G. Sporological analysis of the Panchet series and its bearing on the Permian-Triassic transition. Cur. Sci. 37(4):116-117. Feb.20,1968. 475 Sci23
- 84871 SCHMINCKE, H. U. Pliocene, subtropical vegetation on Grand Canary. (Ge) Naturwissenschaften 55(4):185-186. Apr.1968. 474 N213
- 84872 SCHULZE-MENZ, G. K. The plant geographic areas in the Botanic Garden of Berlin-Dahlem. (Ge) Landesver. Gartenbau Landwirt. Berlin. Mitteilungsbl. 19(1):37-38. Jan.1968. 85 L233
- 84873 STEARN, W. T. The botanical results of the Endeavour voyage. Endeavour 27(100):3-10. Jan.1968. 472 En2  
Under James Cook.
- 84874 STEEVES, M. W., and WILKINS, L. R. Spores and pollen from the Lower Cretaceous of Saskatchewan, Canada. I. Sporties. Can. J. Bot. 45(12):2329-2365. Ref. Dec.1967. 470 C16C
- 84875 SZABO, B. H. The arboretum at Fuzerradvany. (Hu) Kertesz. Szolesz. 17(3):78-79. Feb.1968. 80 K474
- 84876 TAITTS, D. A., and PRIVIN, M. R. A semiconductor, thermostat for maintaining of stable temperature, without electric feeding. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 2:121-123. Feb.1968. 20 V633  
Botany equipment.
- 84877 TURNER, C. A low-estonian Late-glacial flora from the Pleistocene deposits at Hoxne, Suffolk. New Phytol. 67(2):327-332. Apr.1968. 450 N42
- 84878 TURNER, C. A note on the occurrence of *Vitis* and other new plant records from the Pleistocene deposits at Hoxne, Suffolk. New Phytol. 67(2):333-334. Apr.1968. 450 N42
- 84879 VENKATACHALA, B. S., and KAR, R. K. *Frangospora* gen. nov., a new fossil spore genus from the Bhuj series of Kutch, W. India. Cur. Sci. 37(7):205-207. Apr.5,1968. 475 Sci23

- 84880 VOLOGDIN, A. G. Discovery of relics of proterozoic algae in the Far East and in the Urals. Acad. Sci. USSR. Dokl. Earth Sci. Sect. 175 (1/6):214-217. Ref. July/Aug.1967. 511 P444Aee
- 84881 WALL, D., and DALE, B. Early Pleistocene dinoflagellates from the Royal Society borehole at Ludham, Norfolk. New Phytol. 67(2):315-326. Ref. Apr.1968. 450 N42
- 84882 WALTON, P. D. How tropical crops became universal. World Crops 20(1):45-48. Mar. 1968. 281.8 W892  
Economic plants.
- 84883 WILSON, G. J. Some species of Wetzeliella eisenack (Dinophyceae) from New Zealand Eocene and Paleocene strata. New Zeal. J. Bot. 5(4):469-497. Ref. Dec.1967. 450 N48
- 84884 WOLF, F. A. Fungus spores in East African lake sediments. VII. Torrey Bot. Club. Bull. 94(6):480-486. Ref. Nov./Dec.1967. 451 T63B  
Paleobotany.
- 84885 WOLF, F. A. Non-petrified fossil fungi. A. S. B. (Ass. Southeast. Biol.). Bull. 15(1):8-10. Ref. Jan.1968. 442.8 As7
- MORPHOLOGY, ANATOMY, AND CYTOLOGY
- 84886 ALEKPEROV, U. K., and SHCHERBAKOV, V. K. An incomplete metaphase block and other effects accompanying action of ionol on mitosis. (Rus) Tsitologiya 9(5):606-609. Ref. May 1967. 442.8 T78  
English summary.  
Allium fistulosum.
- 84887 ANANDA RAO, T. Distributional patterns of sclereids in the leaf and stipules of *S[ymingtonia] populnea* (R. Br. ex Griff.) Steen. (Hamamelidaceae). Cur. Sci. 37(1):25-26. Jan.5, 1968. 475 Sci23
- 84888 ARCARA, P. G., and RONCHI, V. N. Effect of ethyl alcohol on the mitotic cycle of *Allium cepa* root meristems. Caryologia 20(3):229-232. July/Sept.1967, pub. Feb.28, 1968. 442.8 C25
- 84889 AVANZI, S., and D'AMATO, F. New evidence on the organization of the root apex in leptosporangiate ferns. Caryologia 20(3):257-264. Ref. July/Sept.1967, pub. Feb.28, 1968. 442.8 C25
- 84890 BABAYAN, R. S., and MUSAELYAN, M. S. The mitotic activity of wheat seedling cells after heat treatment of the seeds. (Rus) Tsitologiya 10(3):377-381. Ref. Mar.1968. 442.8 T78  
English summary.
- 84891 BATYGINA, T. B. Embryogenesis in the genus *Triticum* L. (as related to the problem of monocotyledony and remote hybridization in Gramineae). (Rus) Bot. Zhur. [Moscow] 53 (4):480-490. Ref. Apr.1968. 451 R923  
English summary.
- 84892 BEHNKE, H. D. The fine structure of sieve tube plastids of monocotyledons. (Ge) Naturwissenschaften 55(3):140-141. Mar.1968. 474 N213
- 84893 BERGQUIST, A., and others. A membranelike fraction from *Neurospora crassa*. 1. Structure of "membranes" and release of free amino acids. Nat. Acad. Sci. Proc. 59(4):1136-1143. Ref. Apr.1968. 500 N21P  
E. A. Eakin, B. Van Winkle, and R. P. Wagner, joint authors.
- 84894 BIRKS, H. J. B. The identification of *Betula nana* pollen. New Phytol. 67(2):309-314. Ref. Apr.1968. 450 N42
- 84895 BODGANOV, YU. F., LYAPUNOVA, N. A., and SHERUDILO, A. I. Cytophotometric and autoradiographic study of cell population in pea embryos and root tip meristem. (Rus) Tsitologiya 9(5):569-576. Ref. May 1967. 442.8 T78  
English summary.
- 84896 BOZIC, J. Organographic studies of *Leuce poplars*. (Sl) Ljubljana. Inst. Gozdno Lesno Gosp. Sloven. Zb. 5:51-87. Ref. 1967. 99.9 L76  
German summary.  
Chiefly morphology and propagation.
- 84897 BRINAR, M. Some morphological characteristics of beech and their relationship to the relief and genetic divergence. (Sl) Ljubljana. Inst. Gozdno Lesno Gosp. Sloven. Zb. 5:7-50. Ref. 1967. 99.9 L76  
German summary.
- 84898 BRITTAİN, W. H., and GRANT, W. F. Observations on Canadian birch (*Betula*) collections at the Morgan Arboretum. VI. *B. papyrifera* from the Rocky Mountains. Can. Field-Natur. 82(1):44-48. Jan.-Mar.1968. 410.9 Ot8  
Morphological and cytological study.
- 84899 BRUNAUD, A. Demonstration of the existence of two differing mechanism in the usurpation phenomenon of plants with indefinite shoots. (Fr) Acad. Sci. C. R., Ser. D, 266(5):468-470. Jan.29, 1968. 505 P21  
*Vinca rosea* and *Fumaria capreolata*.
- 84900 BURDET, H. M. Caryological study of the genera *Cardaminopsis*, *Turritis* and *Arabis* from Europe. (Fr) Candollea 22(1):107-156. Ref. 1967. 451 C16
- 84901 CHOWDARY, Y. B. K. Cytological observations on some chlorococcoid green algae. Caryologia 20(3):233-238. Ref. July/Sept. 1967, pub. Feb.28, 1968. 442.8 C25  
*Kirchneriella lunaris*, *Characium aungustum* minor, and *Hydrodictyon reticulatum*.
- 84902 CHUKOV, A. G. Using different oils as clarification agents for microscopic investigation of plant cells. (Rus) Fisiol. Rast. 15(2):383-387. Mar./Apr.1968. 450 F58  
English summary.  
Mineral oils.
- 84903 CRAFTS, A. S. Problem of sieve-tube slime. Science 160(3825):325-327. Ref. Apr.19, 1968. 470 Sci2  
*Cucurbita*.
- 84904 CRANDALL, B. The sporophyte and sporeling of *Bryopteris filicina* (Sw.) Nees. Bryologist 70(4):423-431. Ref. Winter 1967. 450 B84  
Chiefly anatomy.
- 84905 CROUSE, E. R., and HERTIG, W. H. The shoot apex of the embryo and seedling of *Circaea quadrisulcata* Maxim. W. Va. Acad. Sci. Proc. 39:222-229. Ref. 1967. 500 W52
- 84906 DANERT, S. The ramification as the infrageneric characteristics of the genus *Solanum* L. (Ge) Kulturpflanze 15:275-292. Ref. 1967. 450 K95  
English summary.
- 84907 DESHPANDE, B. D., and SINGH, A. Seedling and floral anatomy of *Withania somnifera* Dunal. Indian Bot. Soc. J. 46(1):76-81. Ref. 1967. 450 J821
- 84908 DIERS, L., and SCHOTZ, F. Relations between osmiophilic granules and thylakoids. (Ge) Z. Pflanzenphysiol. 58(3):252-265. Ref. Jan.1968. 450 Z32  
English summary.  
*Oenothera hybrid*.
- 84909 DRUM, R. W. Petrification of plant tissue in the laboratory. Nature 784-785. May 25, 1968. 472 N21  
Tested with *Betula papyrifera*.
- 84910 DVORAK, F. A contribution to the study of the variability of the nectaries. Preslia 40(1):13-17. Ref. 1968. 450 P92  
*Hesperis matronalis*, *H. pycnotricha* and *H. sylvestris*.
- 84911 EFREMOV, A. E. Morphological and cytobryological characteristics of the tetraploid sunflower. (Rus) Genetika 11:31-36. Nov. 1967. QH431.A1G4  
English summary.
- 84912 FAROOQ, M., and SIDDIQUI, S. A. Studies in the *Lentibulariaceae*. 6. The embryology of *Utricularia stellaris* Linn. f. Indian Bot. Soc. J. 46(1):31-44. Ref. 1967. 450 J821  
Chiefly morphology.



- 84913 FELL, K. R., and PECK, J. M. The anatomy of the leaf and flower of *Borago officinalis* L. *Planta Med.* 16(1):29-42. Ref. Feb.1968. 450 P697
- 84914 FREY, A. The submicroscopic structure of the cell membrane; an optic polarization study in proof of the correctness of the micellar theory. 47 p. (FPL Transl. No. 38) Transl. 16819  
Translation from *Jahrbucher fur Wissenschaftliche Botanik* 56(2):195-223. 1926.
- 84915 FUNK, R. C., and NEAL, O. M. Occurrence of flower fasciation and petaloidy in deciduous hybrid *Azalea* populations. *W. Va. Acad. Sci. Proc.* 39:216-221. 1967. 500 W52
- 84916 GAMBURG, K. Z. Interrelations between division and expansion of plant cells in isolated culture. (Rus) *Tsitologiya* 10(3):386-389. Ref. Mar.1968. 442.8 T78  
English summary.  
Tobacco.
- 84917 GERASIMENKO, I. I., and REZNIKOVA, S. A. Cytological investigation of the genus *Solanum* L. (Rus) *Bot. Zhur.* [Moscow] 53(4):505-513. Ref. Apr.1968. 451 R923  
English summary.  
Includes chromosome numbers.
- 84918 GUEDES, M. Univalent prophyll of the type of *Ornithogalum* [caudatum] at *Juncus lamprocarpus*. (Fr) *Acad. Sci. C. R., Ser. D*, 266(16):1652-1654. Apr.1968. 505 P21
- 84919 GVALADZE, G. E. Study of polar nuclei of Angiospermae. (Rus) *Akad. Nauk Gruz. SSR. Soobshch.* 48(3):667-672. Ref. Dec.1967. 511 AK146
- 84920 HAFT, W. The orientation of the phytochrome molecules in the cell of *Mougeotia*: a new model to explain the experimental results. (Ge) *Z. Pflanzenphysiol.* 58(4):331-346. Ref. Feb.1968. 450 Z32  
English summary.
- 84921 HAUNOLD, A. Venetian turpentine as an aid to squashing and concomitant production of durable chromosome mounts. *Stain Technol.* 43(3):153-156. May 1968. 442.8 St1  
Technique tested with hops.
- 84922 HEJNOWICZ, Z. First periclinal chimera among gymnosperms. 14 p. Ref. (TT 65-50350) Transl. 16320  
Cytological and morphological study.  
Translation from *Acta Societatis Botanicorum Poloniae* 25(1):181-202. 1956.  
Issued by CFSTL
- 84923 HERTIG, W. H., and FROLA, J. L. Structure of the rhizome apex in *Circaea canadensis* Hill. *W. Va. Acad. Sci. Proc.* 39:230-234. 1967. 500 W52
- 84924 HOEFERT, L. L. Polychromatic stains for thin sections of *Beta* [vulgaris] embedded in epoxy resin. *Stain Technol.* 43(3):145-151. Ref. May 1968. 442.8 St1
- 84925 INAMDAR, J. S. Occurrence of epidermal sclereids in the petals of *Ipomoea obscura* (L.) Ker-Gawl. *Cur. Sci.* 37(6):176. Mar.20,1968. 475 Sci23
- 84926 KATHJU, S., and TEWARI, M. N. Nuclear distribution of acid phosphatase in *Caljanus indicus* Spreng. *Cur. Sci.* 37(3):83-84. Feb.5,1968. 475 Sci23
- 84927 KHOLODOVA, V. P., ENGEL', O. S., and DOPOZHINA, L. A. Characteristic of the free space in sugar beet root tissues. (Rus) *Fisiol. Rast.* 15(2):295-302. Ref. Mar./Apr.1968. 450 F58  
English summary.  
Study of absorption of C<sup>14</sup>-sucrose and its penetration into free tissues.
- 84928 KHUDYAK, M. I. Formation of hybrid caryopses when crossing tetraploid and diploid rye. (Rus) *Zhur. Obshch. Biol.* 29(1):109-120. Ref. Jan./Feb.1968. 442.8 Z6  
English summary.
- 84929 KLEINIG, H., and WRISCHER, M. The ultra-structure of the chloroplasts of *Acetabularia* during the secondary synthesis of carotenoids. (Ge) *Z. Pflanzenphysiol.* 58(3):248-251. Ref. Jan.1968. 450 Z32  
English summary.
- 84930 KMOCH, H. G., and HANUS, H. The significance of stratification in relation to root distribution. (Ge) *Z. Acker- Pflanzenbau* 127(2):103-113. Ref., p. 112-113. Feb.1968. 18 J825  
English summary.  
Soil profiles.
- 84931 KOHLENBACH, H. W. The development potential of explanted and isolated palisade cells of *Macleaya cordata*. III. The histogenic differential growth of *Macleaya cordata* Kall. (Ge) *Beitr. Biol. Pflanzen* 43(3):357-365. 1967. 450 C66  
English summary.
- 84932 KOMAROVA, E. P. New method of lyophilization of biological material. (Rus) *Akad. Nauk Belorussk. SSR. Dokl.* 11(11):1021-1023. Nov. 1967. 511 M663D  
Plant tissues.
- 84933 KOOPMANS, W. Curly tops of tomatoes. (Du) *Groenten Fruit* 23(27):1228. Jan.17,1968. 80 G89
- 84934 KOVACS, A., and SARKANY, S. Some observations on pistil organization of *Heracleum mantegazzianum* (Somm. et Lev.). *Acta Agron.* [Budapest] 17(1/2):47-59. Ref. 1968. 19 Ac8
- 84935 KRAPF, B., and THEILER, R. Contribution on the anatomy of the grape stem. (Ge) *Schweiz. Z. Obst- Weinbau* 104(9):220-222. Apr.13,1968. 80 Sch9
- 84936 LLOYD, D., and TURNER, G. The cell wall of *Prototheca zopfii*. *J. Gen. Microbiol.* 50(3):421-427. Ref. Mar.1968. 448.3 J823
- 84937 LONGEVIALLE, M. Embryogenesis of *Caryophyllaceae*; development of embryo in *Silene otites* Sm. (Fr) *Acad. Sci. C. R., Ser. D*, 266(20):2071-2074. May 13,1968. 505 P21
- 84938 MAROTI, M. The cytological indexes of root growth. II. Changes of the cells and their substance contents in the apical segment of the root. *Acta Agron.* [Budapest] 17(1/2):3-12. Ref. 1968. 19 Ac8  
Corn.
- 84939 MARTY, F. Infrastructure of secretory organs in the leaves of *Urtica urens*. (Fr) *Acad. Sci. C. R., Ser. D*, 17(266):1712-1714. Apr.22,1968. 505 P21
- 84940 MATERN, B., and SIMAK, M. Statistical problems in karyotype analysis. *Hereditas* 59(2/3):280-288. 1968. 42.8 H42  
Measurement of the length of chromosomes of *Larix decidua*.
- 84941 MATTHYSSE, A. G., and TORREY, J. G. Nutritional requirements for polyploid mitoses in cultured pea root segments. *Physiol. Plant.* 20(3):661-672. Ref. 1967. 450 P564
- 84942 MENSAH, K. O. A., and JENIK, J. Root system of tropical trees. 2. Features of the root system of iroko (*Chlorophora excelsa* Benth. et Hook.) *Preslia* 40(1):21-27. 1968. 450 P92
- 84943 MICHALKOVA, V. A contribution to the study of variations of species *Erysimum witmannii* Zaw. (Ge) *Biologia* [Bratislava] 23(4):297-300. 1968. 442.8 B5265  
Morphology.
- 84944 MILYAEVA, E. L., and TSINGER, N. V. Starch in developing anthers of *Citrus sinensis* (a cytochemical and electron microscopic study). (Rus) *Fisiol. Rast.* 15(2):303-307. Ref. Mar./Apr.1968. 450 F58  
English summary.
- 84945 MINBAEV, K. Intra-clonal variability of the morphological character and the rubber content of kok-saghyz in relation to the conditions of its environment. 13 p. Transl. 16795  
Translation from *Soviet Plant Industry Record* 2:32-39. 1940.
- 84946 MITCHELL, P. D., and BLACK, J. D. F. Distribution of peach roots under pasture and cultivation. *Australian J. Exp. Agr. Anim. Husb.* 8(30):106-111. Ref. Feb.1968. 23 Au792

- 84947 MOENS, P. B. The structure and function of the synaptnemal complex in *Lilium longiflorum* sporocytes. *Chromosoma* 23(4):418-451. Ref. Mar.12,1968. 442.8 C46
- 84948 MOHR, W. P., and COCKING, E. C. A method of preparing highly vacuolated, senescent, or damaged plant tissue for ultrastructural study. *J. Ultrastruct. Res.* 21(3/4):171-181. Ref. Dec.12,1967. 440.8 J822
- 84949 NAYAR, B. K., and others. Contributions to the morphology of the fern genus *Oleandra*. *Linn. Soc. London. J. Bot.* 60(383):265-282. Ref. Feb.1968. 451 L64J  
Bajpai, N. Chandra, and S. Chandra, joint authors.  
*Oleandra pistillaris* and *O. wallichii*.
- 84950 NEHIRA, K. Sporeling in a Thailand liverwort, *Pleurozia acinosa* (Mitt.) Steph. (Ja) Bot. Mag. Tokyo 81(955):22-24. Jan.1968. 450 B651  
English summary.
- 84951 NIKULIN, A. V. Asymmetric roots of sugar beets. (Rus) *Vestnik Sel'skokhoz. Nauk. [Moscow]* 2:129-131. Ref. Feb.1968. 20 V633
- 84952 ONO, M. Notes on the flower of *Epipactis thunbergii* and its flower-visiting insect. (Ja) *J. Jap. Bot.* 43(2):25-28. Feb.1968. 450 J8223  
English summary.  
Chiefly morphology, with *Baccha maculata* as pollinator.
- 84953 OSTREIKO, S. A. Some cytological criteria of dormancy in cherry seeds. (Rus) *Tsitologiya* 9(11):1431-1435. Ref. Nov.1967. 442.8 T78  
English summary.
- 84954 PACHLEWSKI, R., and PACHLEWSKA, J. -- Morphoanatomical investigations of pine (*Pinus silvestris* L.). *Mycorrhizae in forest communities of the Bialowieza National Park.* 20 p. Ref. (TT 65-50352) Transl. 16747  
Translation from Warsaw. Instytut Badawczy Lesnictwa. Prace 205:3-48. 1960.  
Issued by CFSTI.
- 84955 PAGE, C. N. Spiral shoots in the great horse-tail, *Equisetum telmateia* Ehrh. *Bot. Soc. Brit. Isles. Proc.* 7(2):173-176. Apr.1968. 451 B658Pr
- 84956 PALANDRI, M. Ultrastructural modifications occurring in plastids of the spathe during the change from white to green stage in *Spathiphyllum wallisii* Regel. (It) *Caryologia* 20(3):273-285. Ref. July/Sept.1967, pub. Feb.28,1968. 442.8 C25  
English summary.
- 84957 PALIWAL, G. S. The stomata of *Theligonum cynocrambe* L. *Cur. Sci.* 37(5):146-147. Mar.5,1968. 475 Sci23
- 84958 PANT, D. D., and KIDWAI, P. F. Structure and ontogeny of stomata in some Caryophyllaceae. *Linn. Soc. London. J. Bot.* 60(383):309-314. Feb.1968. 451 L64J
- 84959 PÄRIBOK, V. P. Cell recovery systems and the problem of their sensitivity to irradiation damage. (Rus) *Tsitologiya* 9(12):1449-1459. Ref. Dec.1967. 442.8 T78  
English summary.  
Includes plants.
- 84960 PARK, R. B., and PHEIFHOFER, A. O. A. The continued presence of quantasomes in ethylenediaminetetraacetate-washed chloroplast lamellae. *Nat. Acad. Sci. Proc.* 60(1):337-343. Ref. May 1968. 500 N21P
- 84961 PASHUK, KH. T. Multinucleate pollen mother cells and deviations from the normal process of microsporogenesis in *Soldanella hungarica* Simk. (Rus) *Tsitologiya* 10(3):373-377. Mar. 1968. 442.8 T78  
English summary.
- 84962 PATEL, R. J. On *Oedocladium prescottii* Islam from Gujarat. *Cur. Sci.* 36(23):643-644. Dec.5, 1967. 475 Sci23  
Morphological study.
- 84963 PEDERICK, L. A. Chromosome inversions in *Pinus radiata*. *Silvae Genet.* 17(1):22-26. Ref. Jan./Feb.1968. 99.8 Z36
- 84964 PERROT, Y. Cycle of the two forms of *Ulothrix flacca* (Dillw.) Thuret from the Roscoff region. (Fr) *Acad. Sci. C. R. Ser. D*, 266(19): 1953-1955. May 6,1968. 505 P21
- 84965 POHLHEIM, F. *Thuja gigantea gracilis* Beissn. -- a haplont among the Gymnospermae. (Ge) *Biol. Rundsch.* 6(2):84-86. 1968. 442.8 B5272
- 84966 POLIKARPOVA, Z. D. Development of cotton root system, as related to depth of embedding and degree of mineralization of underground water. (Rus) *Khlopkovodstvo* 2:14-16. Feb. 1968. 72.8 K522
- 84967 POP, E., SORAN, V., and LAŽAR, G. The effect of ATP (disodium salt) upon rotational streaming. *Physiol. Plant.* 20(3):617-623. Ref. 1967. 450 P564  
Cytoplasm in barley.
- 84968 POWELL, J. B. Karyological leaf squashes in grasses, aided by pectinase digestion at 45 C. *Stain Technol.* 43(3):135-138. May 1968. 442.8 S1
- 84969 PRAKASH, N. Life history of *Tetragonia tetragonioides* (Pall.) O. Kuntze. *Australian J. Bot.* 15(3):413-424. Ref. Dec.1967. 450 Au72  
Anatomical and morphological study.
- 84970 PRITCHARD, A. J. Apomixis in *Brachiaria decumbens* Stapf. *Australian Inst. Agr. Sci. J.* 33(4):264-265. Dec.1967. 23 Au74
- 84971 RAMJI, M. V. Morphology and ontogeny of the foliar venation of *Calophyllum inophyllum* L. *Australian J. Bot.* 15(3):437-443. Dec.1967. 450 Au72
- 84972 RAO, A. R., and SHARMA, M. Cauline sclereids of *Cedrus* and *Abies*. *Phytomorphology* 16(4):402-407. Ref. Dec.1966, pub. Sept.1967. 450 P566
- 84973 RAO, K. N., and RAO, G. S. The abnormal spades of *Borassus flabellifer* L. *Cur. Sci.* 37 (7):208. Apr.5,1968. 475 Sci23
- 84974 RAWSON, J. R., and STUTZ, E. Characterization of *Euglena [gracilis bacillaris]* cytoplasmic ribosomes and ribosomal RNA by zone velocity sedimentation in sucrose gradients. *J. Mol. Biol.* 33(1):309-314. Apr.14, 1968. 442.8 J8224
- 84975 SAUTER, J. J. Histoautoradiographical study of protein synthesis during meiosis in *Paeonia tenuifolia* L. (Ge) *Naturwissenschaften* 55(4): 187. Apr.1968. 474 N213
- 84976 SAVICH, E. I. Formation of archesporium and the origin of tapetum in *Helobiae*. (Rus) *Bot. Zhur. [Moscow]* 53(4):514-523. Ref. Apr.1968. 451 R923  
English summary.  
Anatomical study.
- 84977 SCHOLZ, A., and HAUPT, W. Formation of calcium oxalate crystals in the cytoplasm of young bark cells of *Larix decidua* Mill. (Ge) *Naturwissenschaften* 55(4):186. Apr.1968. 474 N213
- 84978 SHAH, J. J., and JACOB, R. Some new observations on phloem in *Luffa cylindrica* (L.) Roem. *Cur. Sci.* 36(23):627-629. Ref. Dec.5, 1967. 475 Sci23
- 84979 SHARGAL, M., and MOAV, R. Cytological analysis of mutant albino seedlings in *Nicotiana tabacum*. *Heredity* 22(2):304-306. May 1967. 443.8 H42
- 84980 SHMIDT, V. M. The growth quantum and organogenesis of plants. (Rus) *Leningrad. Univ. Vestnik. Ser. Biol.* 1:99-111. Ref. 1968. 442.9 L542V  
English summary.  
Phyllotaxy.
- 84981 SIEGERT, A. Morphological, developmental and systematic studies of *Psilotum triquetrum* Sw. III. The leaf from the point of homology. (Ge) *Beitr. Biol. Pflanzen* 43(2):285-328. Ref. 1967. 450 C66
- 84982 SINGH, H. Sclereids in *Fagraea*. *Gard. Bull.* 22(2):193-212. Dec.29,1967. 22.5 S8



- 84983 SISODIA, N. S. A root squash technique for counting somatic chromosomes in sugar cane. *Stain Technol.* 43(3):129-134. Ref. May 1968. 442.8 St1
- 84984 SKUCAS, G. P. Changes in wall and internal structure of Allomyces-resistant sporangia during germination. *Amer. J. Bot.* 55(3):291-295. Ref. Mar. 1968. 450 Am36  
Allomyces neo-moniliformis.
- 84985 SKVARLA, J. J. Rapid preparation of pollen and spore exines for electron microscopy. *Stain Technol.* 43(3):139-144. Ref. May 1968. 442.8 St1
- 84986 SLAVIKOVA, Z. On the morphology of perigone of Ranunculaceae. I. *Anemone nemorosa* L. (Ge) *Preslia* 40(1):1-12. Ref. 1968. 450 P92
- 84987 SOROKIN, H. P. Distribution of intercellular material in the apical part of pea seedlings. *Physiol. Plant.* 20(3):643-654. Ref. 1967. 450 P564
- 84988 STANKOV, N. Z. Methods of studying root systems. (Rus) *Selek. Semenovodstvo* 2:25-27. Mar./Apr. 1968.  
- As related to breeding.
- 84989 STARR, R. C. Cellular differentiation in *Volvox*. *Nat. Acad. Sci. Proc.* 59(4):1082-1088. Ref. Apr. 1968. 500 N21P
- 84990 SUBBLAH, B. V., and others. Preliminary investigations on root distribution of high yielding wheat varieties. *Int. J. Appl. Radiat. Isotopes* 19(4):385-390. Apr. 1968. 334.8 In84  
J. C. Katyal, R. L. Narasimham, and C. Dakshinamurti, joint authors.
- 84991 TARDIEUX, A. The symbiotic nitrogen fixation. (Fr) *Ann. Biol. (ser. 4)* 7(3/4):105-145. Mar./Apr. 1968. 442.8 An7  
Bibliography, p. 135-145.  
Cytological examination of legume root nodules; symbiosis with *Rhizobium*.
- 84992 THORNTON, R. M. The fine structure of *Phycomyces [blakesleeanus]*. I. Autophagic vesicles. *J. Ultrastruct. Res.* 21(3/4):269-280. Ref. Dec. 12, 1967. 440.8 J822
- 84993 TURNER, B. L. Chromosome survey of *Podolepis* (Compositae-Inuleae). *Australian J. Bot.* 15(3):445-449. Dec. 1967. 450 Au72
- 84994 UMAERUS, M., and AKERBERG, E. Preliminary studies on spontaneous chimaera formation in *Poa pratensis*. *Hereditas* 59(2/3):221-228. Ref. 1968. 442.8 H42  
Chiefly morphological studies.
- 84995 VARGA, G. Pictorial illustration of *Cunninghamia lanceolata* (Lamb.) Hook. (Ge) *Deut. Baumschule* 20(1):12-13. Jan. 1968. 80 D486  
Morphological description.
- 84996 VERMYLEN-GUILLAUME, M. Differentiation in the xylem of carrot embryos obtained in vitro. (Fr) *Paris. Soc. Biol. Compt. Rend.* 161(6):1476-1480. 1967. 442.9 P21
- 84997 VOTH, P. D., GRIESBACH, R. A., and YEAGER, J. R. Developmental anatomy and physiology in daylily [*Heimerocallis*]. *Amer. Hort. Mag.* 47(2):121-151. Ref. Spring 1968. 80 N216
- 84998 WEGENER, K. A. Chromosome numbers from root tips of *Alchemilla* species of the sections *Pentaphyllon* Rothm. and *Brevicaulon* Rothm. (Ge) *Biol. Zentralbl.* 86(6):771-792. Ref. Nov./Dec. 1967. 442.8 B523  
English summary.
- 84999 WEINHOLD, L. Histogenetic studies of root meristems. (Ge) *Beitr. Biol. Pflanzen* 43(3):367-454. Ref. 1967. 450 C66  
Morphology and anatomy of roots of germinating plants.
- 85000 WELMAN, W. G. Morphological study of South African Pteridophyta. (Afr) *S. Afr. J. Sci.* 63(12):505-511. Ref. Dec. 1967. 515 So84  
English summary.
- 85001 YADAVA, H. N., MITAL, R. K., and SINGH, H. G. Correlation studies between leaf midrib structure and resistance to jassids (*Empoasca devastand* Dist.) in cotton. *Indian J. Agr. Sci.* 37(6):495-497. Ref. Dec. 1967. 22 Ag831
- 85002 ABDUL-WAHAB, A. S., and RICE, E. L. Plant inhibition by Johnson grass [*Sorghum halepense*] and its possible significance in old-field succession. *Torrey Bot. Club. Bull.* 94(6):486-497. Ref. Nov./Dec. 1967. 451 T73B
- 85003 AMBROZ, Z., and BALATOVA-TULACKOVA, E. On the biological and humic activity in soils of plant communities *Magnocaricetalia* and *Molinietalia* in south-western Slovakia (Zahorie). (Cz) *Preslia* 40(1):80-93. Ref. 1968. 450 P92  
German summary.
- 85004 AMERICAN FEDERATION OF INFORMATION PROCESSING SOCIETIES. Conference proceedings, volume 32, 1968, Atlantic City, New Jersey. Washington, D. C., Thompson Book Company, 1968. 544 p. TK7885.A1J6  
Includes A Simulation in Plant Ecology, by R. E. Boche, p. 67-71.
- 85005 ANDERSON, D. J. Studies on structure in plant communities. V. Pattern in *Atriplex* vesicaria communities in south-eastern Australia. *Australian J. Bot.* 15(3):451-458. Ref. Dec. 1967. 450 Au72
- 85006 ANIC, M. Eumediterranean woody plants, especially *Quercus ilex* and *Phillyrea latifolia* in the submediterranean coastal region of Yugoslavia. (Ge) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v. 2:815-830, map. 1967. 99.9 In82  
English summary.  
Ecology of evergreens and shrubs.
- 85007 ARORA, R. K. The vegetation of South Kanara district, Western Ghats, India. IV. Succession in plant communities. *Indian Bot. Soc. J.* 46(1):15-24. Ref. 1967. 450 J821
- 85008 AUSTIN, M. P. Relationships among functional properties of Californian grassland. *Nature* 217(5134):1163. Mar. 23, 1968. 472 N21
- 85009 BENKO, J., and HANCINSKY, L. Evaluation of outer forest communities from the point of their natural regeneration. (Cz) *Les [Bratislava]* 24(2):67-76. 1968. 99.8 L5632  
German summary.
- 85010 BRECHTL, J., and KUBICEK, F. A contribution to the measurement of primary production of grass layer of forest communities. (Cz) *Biologia [Bratislava]* 23(4):305-316. 1968. 442.8 B5265  
German and Russian summaries.
- 85011 DOMINIK, T., and NESPIAK, A. Investigations on the mycotrophy of plant associations in the dwarf mountain pine zone of the high Tatra. 12 p. (TT 65-50359) Transl. 16787  
Translation from *Acta Societatis Botanicorum Poloniae* 22(4):753-769. 1953.  
Issued by CFSTI.
- 85012 DOMINIK, T. Investigations on the mycotrophy of the spruce—*Picea excelsa* (Lam.) Lk. in Poland. 24 p. Ref. (TT 65-50356) Transl. 16762  
Translation from Warsaw. Instytut Badawczy Lesnictwa. Prace 209:59-102. 1961.  
Issued by CFSTI.
- 85013 DOMINIK, T., NESPIAK, A., and PACHLEWSKI, R. Investigations on the mycotrophy of vegetal associations on calcareous rocks in the Tatra Mts. 11 p. (TT 65-50358) Transl. 16786  
Translation from *Acta Societatis Botanicorum Poloniae* 23(3):471-485. 1954.  
Issued by CFSTI.
- 85014 EVERITT, B. L. Use of the cottonwood in an investigation of the recent history of a flood plain. *Amer. J. Sci.* 266(6):417-439. Ref. June 1968. 470 Am34  
North Dakota.
- 85015 GAUR, Y. D., and SATYANARAYAN, Y. Phytosociological studies of the monsoon vegetation of rocky habitat. *Indian Forest.* 93(12):806-814. Ref. Dec. 1967. 99.8 In2

- 85016 GEIDEL, H., and HAUFÉ, W. Competitive conditions in mixed crops. (Ge) Z. Acker- Pflanz. 127(4):269-286. Ref. May 1968. 18 J825  
English summary.  
Statistical study.
- 85017 GEIDEMAN, T. S., VAINSHTEIN, A. I., and SIMONOV, G. P. Distribution of the forest associations in the central Moldavia. (Rus) Bot. Zhur. [Moscow] 53(4):547-549. Apr. 1968. 451 R923
- 85018 GREENSLADE, P. J. M. A note on Wistmans Wood, Dartmoor. Bot. Soc. Brit. Isles. Proc. 7(2):159-163. Ref. Apr. 1968. 451 B658Pr  
Ecology of oakwoods.
- 85019 HAYON, J. C., PELT, J. M., and YOUNOS, M. C. Vegetation groups of the lower Kounar valley (East Afghanistan). (Fr) Acad. Sci. C. R. Ser. D, 266(20):2086-2089. May 13, 1968. 505 P21
- 85020 JONES, J. L. Preserving the hedges of Wales. Country Life [London] 143(3714):1230,1233. May 9, 1968. 80 C83  
Includes plant ecology.
- 85021 KINNAIRD, J. W. Ecology of birch [Betula] woods. (Condensed.) Bot. Soc. Brit. Isles. Proc. 7(2):181-182. Apr. 1968. 451 B658Pr
- 85022 KOVACS, A. General characteristics of the vegetation of environs of Sacuiesc, in Brasov region. (Rum) Cluj. Univ. Babes-Bolyai. Stud. Ser. Biol. 13(1):51-55. Ref. 1968. 442.9 C62  
French and Russian summaries.  
Plant communities.
- 85023 KUSUNOSE, M., and ISHIGURO, T. Micro meteorological characteristics on the heavy clay soils pastureage. (Ja) Hokkaido Nat. Agr. Exp. Sta. Res. Bull. 92:54-61. Feb. 1968. 107.6 H68  
English summary.
- 85024 LEANDRU, V. The consequences of man's activity in mixed oak forests in Vlasiei plains. (Rum) Rev. Padurilor 83(2):59-61. Feb. 1968. 99.8 R327  
Chiefly ecology and types.
- 85025 MCGILCHRIST, C. Analysis of plant competition experiments for different ratios of species. Biometrika 54(3/4):471-477. Dec. 1967. 442.8 B522
- 85026 MUISTE, L. Forest types of the teaching and experimental forests of the Estonian Agricultural Academy. (Es) Est. Sel'skokhoz. Akad. Sb. Nauch. Tr. 50:80-93. 1968. 106 Es83  
German summary.
- 85027 NESHATAEV, YU. N. Experience with using perforated cards for analysis of oak communities in the forest-steppe zone. (Rus) Bot. Zhur. 53(4):531-543. Ref. Apr. 1968. 451 R923
- 85028 PATRICK, R. The structure of diatom communities in similar ecological conditions. Amer. Natur. 102(924):173-183. Ref. Mar./Apr. 1968. 470 Am36  
Pennsylvania.
- 85029 PEARS, N. V. The natural altitudinal limit of forest in the Scottish Grampians. Oikos 19(1):71-80, map. Ref. 1968. 410 Oi4
- 85030 PILAT, A. Notes on the ecology of Mycena megaspora. (Cz) Ceska Mykol. 22(2):93-94. Ref. Apr. 1968. 450 C333  
Latin summary.
- 85031 PODOL'SKII, A. S. Novoe v fenologicheskome prognostirovani; matematicheskii prognoz v ekologii [A novelty in phenological forecasting; mathematical forecasting in ecology]. Moskva, Kolos, 1967. 232 p. Ref. QH544.P6  
Plants.
- 85032 PROSKURYAKOVA, G. M. Correlation of predominating species in the flora of Greater Balkhan Range. (Rus) Bot. Zhur. 53(4):524-530. Ref. Apr. 1968. 451 R523  
English summary.
- 85033 PRUDIC, Z. Interrelations between myrtle farkleberry [Vaccinium myrtillus] and grove woodbrush [Luzula nemorosa] in acid soils of oak-beech stands evaluated by mathematical and statistical methods of research. (Cz) Czech. Min. Zemed. Les. Hospod. Ustav. Vedeckotech. Inform. Les. Cas. 41(2):165-174. Feb. 1968. 99.9 C334  
English summary.
- 85034 RATCLIFFE, D. A. An ecological account of Atlantic bryophytes in the British Isles. New Phytol. 67(2):365-439. Ref. Apr. 1968. 450 N42
- 85035 SAKAI, K. I., MUKAIDE, H., and TOMITA, K. Intraspecific competition in forest trees. Silvae Genet. 17(1):1-5. Ref. Jan./Feb. 1968. 99.8 Z36  
Cryptomeria japonica.
- 85036 SCHLUTER, H. The broad-leaved trees of forest communities in the mountain areas of Central Thuringia. (Ge) Kulturpflanze 15:115-138. Ref. 1967. 450 K95  
English summary.
- 85037 SIMONNEAU, P. The closed basins of Roussillon. (Fr) Vie Milieu, Ser. C, Biol. Terrestre 18(1):51-69. Ref. 1967, pub. 1968. QH 301.V5  
English summary.  
Chiefly plant ecology on saline and desalinated soils.
- 85038 SMARDA, F. Criteria for the sociological evaluation of fungi. (Ge) Ceska Mykol. 22(2):114-120. Apr. 1968. 450 C333
- 85039 SPANIKOVA, A. A contribution to the structure and variations of communities of Scirpus sylvaticus Schwickerath 1944. (Cz) Biologia [Bratislava] 23(4):267-280. Ref. 1968. 442.8 B5265  
German and Russian summaries.
- 85040 STEELE, R. C. The ecology of some western oakwoods. (Condensed.) Bot. Soc. Brit. Isles. Proc. 7(2):185-187. Apr. 1968. 451 B658Pr
- 85041 STEELE, R. W., and PEIRCE, W. R. Factors affecting regeneration of western Montana clearcuts. Mont. Forest Conserv. Exp. Sta. Bull. 33:24 p. Feb. 1968. 99.9 M765B  
Natural regeneration.
- 85042 SWAN, F. R. The relationship of abandoned fields and fire to the conservation of plants. W. Va. Acad. Sci. Proc. 39:251-254. Ref. 1967. 500 W52  
Study of vegetation succession in New York and West Virginia.
- 85043 T'AN, C. The region types of the Alashan Desert in inner Mongolia. 57 p., map. Ref. (JPRS 37,983; TT 66-34410) Transl. 16264  
Includes plant ecology.  
Translation from Ti Li Chi K'an 8:1-27. Aug. 1964.  
Issued by CFSTI.
- 85044 TOLMACHEV, A. I., and TOKAREVSKIKH, S. A. Exploration of the Forest Island in the vicinity of the river More-Yu in the Bolshezemel'skaya Tundra. (Rus) Bot. Zhur. [Moscow] 53(4):560-566. Ref. Apr. 1968. 451 R923  
Flora.
- 85045 TUFFRAU, M. A device for the experimental study of the population of submerged solid surfaces. (Fr) Vie Milieu, Ser. C, Biol. Terrestre 18(1):71-83. Ref. 1967, pub. 1968. QH 301.V5  
English summary.  
Population of algae.
- 85046 UNIONSSYMPOSIUM UBER PHYSIOLOGISCHE UND BIOCHEMISCHE GRUNDLAGEN BEI DER ENTSTEHUNG VON PFLANZENGESELLSCHAFTEN (PHYTOCOENOSE) 2, KIEV, 1967. Results of research on allelopathy in the Soviet Union; papers. (Ge) Z. Acker-Pflanzenbau 127(3):243-264. Apr. 1968. 18 J825  
Translation of abstracts of papers, by G. Pospelowa.



- 85047 VIPPER, P. B. Interrelation of forest and steppe, under conditions of the mountain areas of the southwestern Transbaikalia. (Rus) Bot. Zhur. [Moscow] 53(4):491-504. Ref. Apr.1968. 451 R923  
English summary.
- 85048 WILLIAMS, J. C. A field guide to the natural history of the San Francisco Peninsula. Berkeley, California, McCutchan Publishing Corporation, 1967. 285 p. Ref. QH105.C2W5  
Includes plants.
- 85049 WITTICH, W. The development of forest ecology and its effect on silvicultural thinking and affairs. (Ge) Forst- Holzwirt 23(9):187-191. May 8,1968. 99.8 F7724
- 85050 WOODWELL, G. M., and WHITTAKER, R. H. Effects of chronic gamma irradiation on plant communities. Quart. Rev. Biol. 43(1):42-55. Mar.1968. 442.8 Q2  
Includes a forest, an abandoned field, and shrub and lichen communities of the forest near the Brookhaven National Laboratory for Atomic Research, New York.  
Review of the literature.
- GENETICS
- 85051 AHMAD, M., BALUCH, A., and MEMON, M. I. Heterosis in genus *Gossypium*. West Pakistan J. Agr. Res. 6(1):16-29. Ref. Mar.1968. 22 W52
- 85052 ALLAN, R. E., PRITCHETT, J. A., and PATTERSON, A. Juvenile and adult plant growth relationships in wheat. Crop Sci. 8(2):176-178. Mar./Apr.1968. 64.8 C833  
Genetic relationships in hybrids.
- 85053 ATHWAL, D. S., PHUL, P. S., and MINOCHA, J. L. Genetic male sterility in wheat. Euphytica 16(3):354-360. Dec.1967. 450 Eu6
- 85054 BHATT, G. M., SINGH, R. B., and MOR, B. R. Genetic variability in upland cotton, *Gossypium hirsutum*. II. Analysis of yield and its components. Indian J. Agr. Sci. 37(6):555-559. Ref. Dec.1967. 22 Ag831
- 85055 BITZER, M. J., and PATTERSON, F. L. Pollen dispersal and cross-pollination of soft red winter wheat (*Triticum aestivum* L.). Crop Sci. 7(5):482-484. Sept./Oct.1967. 64.8 C883
- 85056 BLIXT, S. Studies of induced mutations in peas. XXIV. Genetically conditioned differences in radiation sensitivity 2. Hereditas 59(2/3):303-326. Ref. 1968. 442.8 H42  
Gamma rays radiation.
- 85057 BRADLEY, M. V., HALL, L. L., and TREBILCOCK, S. J. Low pH of irradiated sucrose in induction of chromosome aberrations. Nature 217(5134):1182-1183. Mar.23,1968. 472 N21  
Tested with broadbeans.  
Gamma rays.
- 85058 BROERTJES, C. Mutation improvement of agricultural and horticultural crops. (Du) Landbouwkundig Tijdschr. 80(4):162-168. Apr. 1968. 105.2 Or3  
English summary.
- 85059 BURTON, G. W., and HART, R. H. Use of self-incompatibility to produce commercial seed-propagated  $F_1$  bermudagrass hybrids. Crop Sci. 7(5):524-527. Sept./Oct.1967. 64.8 C883
- 85060 CARLETON, A. E., and ESLICK, R. F. Effects of self- and cross-compatibility on the frequency of hybrids in *Medicago sativa* L. Crop Sci. 7(5):536-538. Ref. Sept./Oct.1967. 64.8 C883
- 85061 CLEIJ, G., BOCK, T. S. M. DE, and LÉKKERKERKER, B. Crosses between *Beta intermedia* Bunge and *B. vulgaris* L. Euphytica 17(1):11-20. Apr.1968. 450 Eu6
- 85062 CORTESSI, H. A. Investigations made into male sterile beets. Euphytica 16(3):425-432. Ref. Dec.1967. 450 Eu6
- 85063 CURTIS, G. J. Graft-transmission of male sterility in sugar beet (*Beta vulgaris* L.). Euphytica 16(3):419-424. Dec.1967. 450 Eu6
- 85064 DASKALOV, KH., POPOVA, D., and POPOVA, M. Heterosis effect in  $F_1$ -tomatoes as influenced by the altitude. (Bu) Gradinar. Lozar. Nauk. 4(5):37-45. 1967. 87 G75  
English summary.  
Includes physiological effects.
- 85065 DAY, P. R., and ZELITCH, I. Can we make plants with more efficient photosynthesis? Frontiers Plant Sci [Conn. Sta.] 20(2):4-5. May 1968. 100 F92  
Genetic possibilities.
- 85066 DEBELYI, G. A. New form of peas, obtained as result of induced mutagenesis. (Rus) Selekt. Semenovodstvo 2:33-35. Mar./Apr.1968. 61.9 Se5
- 85067 DOLL, H. Segregation frequencies of induced chlorophyll mutants in barley. Hereditas 59(2/3):464-472. 1968. 442.8 H42
- 85068 DUCLOS, Z. M., PATTERSON, F. L., and KRAMER, H. H. Performance of inbred lines in hybrid combination during the transfer of a single gene (ae) locus in maize (*Zea mays* L.). Crop Sci. 7(5):433-437. Ref. Sept./Oct.1967. 64.8 C883
- 85069 EKBERG, I., ERIKSSON, G., and SULIKOVA, Z. Meiosis and pollen formation in *Larix*. Hereditas 59(2/3):427-438, map. Ref. 1968. 442.8 H42  
Genetic research in Sweden.
- 85070 ENRIQUEZ, G., and SORIA V., J. The variability of certain bean characteristics of cacao (*Theobroma cacao* L.). Euphytica 17(1):114-120. Ref. Apr.1968. 450 Eu6
- 85071 FEDOROV, A. A. Teratology and N. I. Vavilov's law of homological series. (Rus) Bot. Zhur. [Moscow] 53(4):461-469. Ref. Apr. 1968. 451 R923  
English summary.
- 85072 FRANCIS, C. M., and MILLINGTON, A. J. An isoflavone-deficient mutant in *Trifolium subterraneum* induced by ethyl methane-sulphonate (EMS). Australian J. Sci. 30(5):182. Nov. 1967. 475 Au72
- 85073 FREY, K. J. Mass selection for seed width in oats populations. Euphytica 16(3):341-349. Ref. Dec.1967. 450 Eu6
- 85074 GELIN, O. Studies on induced mutations in peas. XXIII. The influence of treatment conditions on the effects of ethylmethanesulfonate seed-treatment. Hereditas 59(2/3):263-279. Ref. 1968. 442.8 H42
- 85075 GICHNER, T., EHRENBURG, L., and WACHTMEISTER, C. A. The mutagenic activity of beta-hydroxyethyl methanesulfonate, beta-methoxyethyl methanesulfonate and diethyl 1, 3-propanedisulfonate. Hereditas 59(2/3):253-262. Ref. 1968. 442.8 H42  
On treated seeds of *Arabidopsis thaliana*.
- 85076 GORNITSKAYA, I. P. A spontaneous mutant of cucumber cultivar *Nezhinskii* 12. (Rus) Genetika 11:169. Nov.1967. QH431.A1G4  
English summary.
- 85077 GÖTTSCALK, W. New aspects to the problem of pleiotropism caused by genes. (Ge) Umschau 68(10):311. May 9,1968. 474 Um7  
Peas.
- 85078 GOUD, J. V. Frequencies of induced mutations in  $M_2$  and  $M_3$  generations in bread wheat. Crop Sci. 7(5):547-548. Sept./Oct.1967. 64.8 C883
- 85079 GREENBLATT, I. M. The mechanism of modulator transposition in maize. Genetics 58(4):585-597. Ref. Apr.1968. 442.8 G28
- 85080 GROBER, K. Somatic segregation in heterozygous genotypes of the dominant chlorophyll mutant xanthophyll in *Lycopersicon esculentum* Mill. II. Cytogenetic analysis of different types of variegation in the  $X_2$  and  $X_3$  generation. (Ge) Kulturpflanze 15:351-365. 1967. 450 K95  
English summary.
- 85081 HACKER, J. B. The maintenance of strain purity in the *Setaria sphacelata* complex. Australian Inst. Agr. Sci. J. 33(4):265-267. Dec. 1967. 23 Au74  
Includes polyploidy.

- 85082 HAGBERG, A., and PERSSON, G. Induced mutations in barley breeding. *Hereditas* 59(2/3): 396-412. Ref. 1968. 442.8 H42
- 85083 HORNER, E. S. Effect of a generation of inbreeding on genetic variation in corn (*Zea mays* L.) as related to recurrent selection procedures. *Crop Sci.* 8(1):32-35. Ref. Jan./Feb. 1968. 64.8 C883
- 85084 IRIKURA, Y. Studies on interspecific crosses of tuber-bearing Solanums. I. Overcoming cross-incompatibility between *Solanum tuberosum* and other *Solanum* species by means of induced polyploids and haploids. (Ja) *Hokkaido Nat. Agr. Exp. Sta. Res. Bull.* 92:21-37. Ref. Feb. 1968. 107.6 H68
- 85085 IYER, R. D. Towards evolving a trisomic series in jute. *Cur. Sci.* 37(7):181-183. Apr. 5, 1968. 475 Sci23
- 85086 JABBAR, M. A. Heterosis studies in *Nicotiana tabacum* L. Plant height, leaf length, leaf breadth. *West Pakistan J. Agr. Res.* 5(4):47-52. Ref. Dec. 1967. 22 W52
- 85087 JĀLAL, S. M., and NIELSEN, E. L. Intraplant instability in smooth brome grass (*Bromus inermis* Leyss). *Euphytica* 16(3):385-390. Ref. Dec. 1967. 450 Eu6  
Chiefly chromosome and pollen study in polyploids.
- 85088 JENNINGS, D. L. Observations on some instances of partial sterility in red raspberry cultivars. *Hort. Res.* 7(2):116-122. Nov. 1967. 80 H7892  
Genetic aspects of condition known as crumbly fruit.
- 85089 JOHNSTON, T. D. Studies on a diallel cross and double-cross hybrids among various *Brassica oleracea* types. *Euphytica* 17(1):63-73. Ref. Apr. 1968. 450 Eu6
- 85090 KABARITY, A. Ethyl alcohol and mutation in the meiosis of *Triticum vulgare* var. giza. *Acta Biol. [Budapest]* 19(1):49-56. 1968. 475 Ac85
- 85091 KHUSH, G. S., and RICK, C. M. Cytogenetic analysis of the tomato genome by means of induced deficiencies. *Chromosoma* 23(4):452-484. Ref. Mar. 12, 1968. 442.8 C46
- 85092 KILBEY, B. J., and KOLMARK, H. G. A mutagenic after-effect associated with ethylene oxide in *Neurospora crassa*. *Z. Vererbungslehre* 101(2):185-188. Apr. 2, 1968. 442.8 Z34
- 85093 KOELLE, G. Matroclinal inheritance of nicotine content of tobacco and its comparison with gene conditioned nicotine differences. (Ge) *Biol. Zentralbl.* 86(6):745-752. Ref. Nov./Dec. 1967. 442.8 B523  
English summary.
- 85094 KOHEL, R. J. Variegated mutants in cotton, *Gossypium hirsutum* L. *Crop Sci.* 7(5):490-492. Ref. Sept./Oct. 1967. 64.8 C883
- 85095 KOLMARK, H. G., and KILBEY, B. J. Kinetic studies of mutation induction by epoxides in *Neurospora crassa*. *Z. Vererbungslehre* 101(2):89-98. Ref. Apr. 2, 1968. 442.8 Z34
- 85096 KOZUBENKO, L. V. Simple and double F<sub>1</sub> and F<sub>2</sub> corn hybrids. (Rus) *Vestnik Sel'skokhoz. Nauk. [Moscow]* 3:108-110. Mar. 1968. 20 V633  
English summary.
- 85097 LEE, J. A., MILLER, P. A., and RAWLINGS, J. O. Interaction of combining ability effects with environments in diallel crosses of upland cotton (*Gossypium hirsutum* L.). *Crop Sci.* 7(5):477-481. Ref. Sept./Oct. 1967. 64.8 C883
- 85098 LEORY, J. F. Study on coffee, outline of a theory concerning the evolution of species. (Fr) *Acad. Sci. Compt. Rend. Ser. D*, 265(19): 1373-1376. Nov. 6, 1967. 505 P21
- 85099 LINNERT, G. Genetic analysis of an additional suppressor gene in *Antirrhinum majus* L. (Ge) *Mol. Gen. Genet.* 101(1):17-28. Ref. Jan. 19, 1968. 442.8 Z34  
English summary.  
X-ray mutation.
- 85100 LOVIS, J. D. Artificial reconstruction of a species of fern, *Asplenium adulterinum*. *Nature* 217(5134):1143-1156. Mar. 23, 1968. 472 N21
- 85101 LOVIS, J. D., and REICHSTEIN, T. The spontaneous formation of *Asplenium adulterinum* from a natural hybrid. (Ge) *Naturwissenschaften* 55(3):117-120. Ref. Mar. 1968. 474 N213
- 85102 LUBENETS, P. A., and NAGOVITSINA, A. V. Selection of male-sterile plants and their use for the development of heterosis of alfalfa hybrids. (Rus) *Vestnik Sel'skokhoz. Nauk. [Moscow]* 2:33-38. Feb. 1968. 20 V633  
English summary.
- 85103 LUDILOV, V. Crossing abilities of squash interbreed hybrids with the other varieties. (Rus) *Kartofel' Ovoshchi* 2:29. Feb. 1968. 75.8 K147
- 85104 LUNDQVIST, A. The mode of origin of self-fertility in grasses. *Hereditas* 59(2/3):414-426. Ref. 1968. 442.8 H42  
A genetic analysis.
- 85105 LUNDQVIST, U., VON WETTSTEIN-KNOWLES, P., and VON WETTSTEIN, D. Induction of eceriferum mutants in barley by ionizing radiations and chemical mutagens. II. *Hereditas* 59(2/3):473-504. Ref. 1968. 442.8 H42
- 85106 MAC KEY, J. Mutagenesis in vulgare wheat. *Hereditas* 59(2/3):505-517. Ref. 1968. 442.8 H42
- 85107 MAHAL, C., and PAL, M., and KHOSHOO, T. N. Artificial and natural polyploids in *Antirrhinum*. *Cur. Sci.* 37(1):5-7. Ref. Jan. 5, 1968. 475 Sci23
- 85108 MALM, N. R. Female sterility in grain sorghum involving linked genes. *Crop Sci.* 7(5):548. Sept./Oct. 1967. 64.8 C883
- 85109 MANEEPHONG, C., and SADANAGA, K. Induction of aneuploids in hexaploid oats, *Avena sativa* L., through X-irradiation. *Crop Sci.* 7(5): 522-523. Ref. Sept./Oct. 1967. 64.8 C883
- 85110 MARANI, A. Heterosis and combining ability in intraspecific and interspecific crosses of cotton. *Crop Sci.* 7(5):519-522. Ref. Sept./Oct. 1967. 64.8 C883
- 85111 MARKARIAN, D., HARWOOD, R. E., and ROWE, P. R. The inheritance of winter hardiness in *Pisum*. II. Description and release of advance generation breeding lines. *Euphytica* 17(1):110-113. Apr. 1968. 450 Eu6
- 85112 MCDANIEL, M. E., KIM, H. B., and HATHCOCK, B. R. Approach crossing of oats (*Avena* spp.). *Crop Sci.* 7(5):538-540. Sept./Oct. 1967. 64.8 C883
- 85113 MIKAELSEN, K., AHNSTROM, G., and LI, W. C. Genetic effects of alkylating agents in barley; influence of post-storage, metabolic state and pH of mutagen solution. *Hereditas* 59(2/3):353-374. Ref. 1968. 442.8 H42  
Barley seeds treated with ethyl methanesulfonate and diethyl sulfate.
- 85114 MORPURGO, G., and VOLTERRA, L. The nature of mitotic intragenic recombination in *Aspergillus nidulans*. *Genetics* 58(4):529-541. Ref. Apr. 1968. 442.8 G28
- 85115 NATARAJAN, A. T., and AHNSTROM, G. Cytogenetical effects of inorganic pyrophosphate and 5-fluoro deoxyuridine. *Hereditas* 59(2/3): 229-241. Ref. 1968. 442.8 H42  
Experiments: *Vicia faba* and *Ustilago maydis*.
- 85116 NATH, J. Electron microscope studies on normal vs. albino seedlings of *Zea mays* L. W. Va. *Acad. Sci. Proc.* 39:90-94. 1967. 500 W52  
Genetic study.
- 85117 NETTEVICH, E. D. The problem of utilizing heterosis of wheat (*Triticum aestivum*). *Euphytica* 17(1):54-62. Ref. Apr. 1968. 450 Eu6  
For further breeding of high-yield hybrids.
- 85118 NEW SOUTH WALES. DEPT. OF AGRICULTURE. BIOLOGY BR. Mutations on sports in citrus. *Agr. Gaz. New S. Wales* 79(4):204-208. Apr. 1968. 23 N472



- 85119 NIELSEN, J. Experiments on vegetative dissociation of the dikaryon and on lysis of hybrid sporidia of the cross *Ustilago avenae* X *U. kolleri*. *Can. J. Bot.* 46(4):487-496. Ref. Apr. 1968. 470 C16C
- 85120 NIEUWHOF, M. Possibilities of incompletely sib-incompatible inbred lines in breeding hybrid varieties of cole crops (*Brassica oleracea* L.). *Euphytica* 17(1):3-10. Apr. 1968. 450 Eu6
- 85121 OEHLKERS, F. X-ray experiments with *Streptocarpus wendlandii*. (Ge) *Z. Vererbungshre* 101(2):140-154. Ref. Apr. 2, 1968. 442.8 Z34 English summary.  
Pollen grains x-rayed.
- 85122 PANCHAL, Y. C., and KEMPANNA, C. Effect of gibberellic acid on the expression of cockscomb character in *Eleusine coracana*. *Cur. Sci.* 37(4):114-115. Feb. 20, 1968. 475 Sci23
- 85123 PARLEVIET, J. E. Breeding for earliness in spinach (*Spinacia oleracea* L.) as based on environmental and genetic factors. *Euphytica* 17(1):21-27. Ref. Apr. 1968. 450 Eu6
- 85124 POGOSYAN, S. A., and BUNIATYAN, R. O. Heredity of pigments in the grape hybrids. (Rus) *Vinodel. Vinograd. SSR* 1:20-25. 1968. 95.8 V77
- 85125 POOSTCHI, I., and ADISH, N. Studies on habit of flowering and its relation to shape of fruit in inbred line of watermelon, *Citrullus vulgaris* Schrad. *Euphytica* 16(3):361-364. Dec. 1967. 450 Eu6  
Chiefly genetic aspects.
- 85126 POWELL, J. B., and SCHLEHUBER, A. M. Components of height inheritance of the semi-dwarf straw character in wheat, *Triticum aestivum* L. *Crop Sci.* 7(5):511-516. Ref. Sept./Oct. 1967. 64.8 C883
- 85127 PRITCHARD, A. J., and MANNETJE, L. T. The breeding systems and some interspecific relations of a number of African *Trifolium* spp. *Euphytica* 16(3):324-329. Ref. Dec. 1967. 450 Eu6  
In Australia.
- 85128 PROANO, V. A., and GREENE, G. L. Endogenous gibberellins of a radiation induced single gene dwarf mutant of bean. *Plant Physiol.* 43(4):613-618. Ref. Apr. 1968. 450 P692
- 85129 RAMACHANDRAN, M., and others. Evolution of dormant bunch groundnut strains by hybridization. *Indian J. Agr. Sci.* 37(6):429-436. Dec. 1967. 22 Ag831  
N. S. Loganathan, C. S. Sridharan, N. R. Chandrasekharan, P. Krishnaswami, joint authors.
- 85130 RILEY, H. P., and MAJUMDAR, S. Heterochromatic segments in *Haworthia* and *Catechia* at low temperature. *J. Hered.* 54(6):297-299. Nov./Dec. 1967. 442.8 Am3
- 85131 ROBERTSON, L. D., and CURTIS, B. C. Monosomic analysis of fertility-restoration in common wheat (*Triticum aestivum* L.). *Crop Sci.* 7(5):493-495. Ref. Sept./Oct. 1967. 64.8 C883
- 85132 ROMMEL, M., and HENDRIKSEN, A. J. T. Note on aneuploid chromosome numbers in some triploid sugar beet hybrids. *Euphytica* 16(3):407-409. Dec. 1967. 450 Eu6
- 85133 RUTGER, J. N., and JENSEN, N. F. On the use of genetic male sterility in screening for cytoplasmic-genetic sterility in barley. *Euphytica* 16(3):350-353. Dec. 1967. 450 Eu6
- 85134 SACCARDO, F., and DEVREUX, M. Morphological and cytogenetic characteristics of fifteen mutants of tobacco. (Fr) *Caryologia* 20(3):239-256. July/Sept. 1967, pub. Feb. 28, 1968. 442.8 C25  
English summary.
- 85135 SALMAN, A. G. F. A white mutant of *Aureobasidium pullulans* (De Bary) Arnaud. (Ge) *Kulturpflanze* 15:175-180. 1967. 450 K95  
English summary.
- 85136 SANDHU, T. S., and SINGH, G. Studies on expression of heterosis in wheat. *Indian J. Agr. Sci.* 37(6):544-552. Ref. Dec. 1967. 22 Ag831
- 85137 SANDS, S. A., and SMITH, H. H. Somatic mutational transients; response to acute gamma irradiation by two genes in a clone of *Nicotiana*. *Genetics* 58(4):607-624. Ref. Apr. 1968. 442.8 G28
- 85138 SCHOTZ, F. Heredity outside the cell nuclei. (Ge) *Umschau* 68(9):267-273. Ref. Apr. 1968. 474 Um7  
Plants.
- 85139 SCHUPHAN, W., KLING, M., and OVERBECK, G. The influence of genetic and environmental factors on the content of vitamin B1, vitamin B2, and niacin in winter and spring wheat. (Ge) *Qualitas Plant. Mater. Veg.* 15(3):177-214. Ref. Aug. 3, 1968. 64.8 M41  
English summary.
- 85140 SHARMA, D., TANDON, J. P., and BATRA, J. N. Effect of tester in combining ability estimates of maize germplasm complexes. *Euphytica* 16(3):370-376. Ref. Dec. 1967. 450 Eu6
- 85141 SIDDIG, M. A. Evaluation of several selection procedures for predicting yield performances of progenies in two populations of cotton (*Gossypium barbadense* L.). *Euphytica* 16(3):377-384. Dec. 1967. 450 Eu6
- 85142 SIGURBJORNSSON, B. Induced mutations as a tool for improving world food sources and international cooperation in their use. *Hereditas* 59(2/3):375-395, map. 1968. 442.8 H42  
Chiefly field crops.
- 85143 SIMONGULYAN, N. G. Genetical principles of early maturing of cotton. (Rus) *Khlopkovodstvo* 2:17-20. Feb. 1968. 72.8 K522
- 85144 SINGH, A. Induction of polyploidy in the pasture legume—Glycine [javanica]. *Cur. Sci.* 37(3):80-81. Feb. 5, 1968. 475 Sci23
- 85145 SJODIN, J., and HAGBERG, A. A survey of translocation studies in *Vicia faba* L. *Hereditas* 59(2/3):242-252. Ref. 1968. 442.8 H42  
Seeds of broadbeans treated with different mutagens.
- 85146 SPECKMANN, G. J., DIJKSTRA, H., and KATE, A. TEN. An efficient method to separate tetraploid from diploid plants after colchicine treatment of turnips (*Brassica campestris* var. rapa). *Euphytica* 16(3):313-318. Ref. Dec. 1967.
- 85147 STEINEGGER, E., and SPILLMANN, P. Drug plant breeding investigations. 29. Investigations with gibberellic acid on dwarf mutants of *Datura stramonium* L. var. *godronii* Danert. (Ge) *Pharm. Acta Helv.* 43(4):244-254. Apr. 1968. 396.8 P4933  
English summary.
- 85148 TOWNSEND, C. E., and REMMENG, E. E. Inbreeding in tetraploid alsike clover, *Trifolium hybridum* L. *Crop Sci.* 8(2):213-217. Ref. Mar./Apr. 1968. 64.8 C833
- 85149 VERHALEN, L. M., and MURRAY, J. C. A diallel analysis of several fiber property traits in upland cotton (*Gossypium hirsutum* L.). *Crop Sci.* 7(5):501-505. Ref. Sept./Oct. 1967. 64.8 C883
- 85150 VIGLASI, P. Short-strawed mutants of Karcag 522 winter wheat induced by gamma rays. *Acta Agron. [Budapest]* 17(1/2):205-214. Ref. 1968. 19 Ac8
- 85151 WALLIS, B. Biochemical mutants affected in chloroplast morphogenesis. *Hereditas* 59(2/3):346-352. Ref. 1968. 442.8 H42  
Investigations in higher plants.
- 85152 WATTS, L. E. Natural cross-pollination and the identification of hybrids between botanical varieties of *Brassica oleracea* L. *Euphytica* 17(1):74-80. Apr. 1968. 450 Eu6
- 85153 WHITEHEAD, R. A. Selecting and breeding coconut palms (*Cocos nucifera* L.) resistant to lethal yellowing disease; a review of recent work in Jamaica. *Euphytica* 17(1):81-101, map. Ref. Apr. 1968. 450 Eu6  
Includes review of literature.
- 85154 WUTOH, J. C., HUTTON, E. M., and PRITCHARD, A. J. Combining ability in *Glycine javanica*. *Austral. J. Agr. Res.* 19(3):411-418. May 1968. 23 Au783

- 85155 YERMANOS, D. M., and GILL, K. S. Induction of polyploidy in *Linum* species. *Crop. Sci.* 7(5): 423-427. Ref. Sept./Oct.1967. 64.8 C883 By colchicine.
- 85156 YERMANOS, D. M., HEMSTREET, S., and GARBER, M. J. Inheritance of quality and quantity of seed-oil in safflower (*Carthamus tinctorius* L.). *Crop Sci.* 7(5):417-422. Ref. Sept./Oct.1967. 64.8 C883.
- 85157 ZEVEN, A. C. Third supplementary list of wheat varieties classified according to their genotype for hybrid necrosis. *Euphytica* 17(1): 46-53. Ref. Apr.1968. 450 Eu6
- PHYSIOLOGY AND BIOCHEMISTRY
- 85158 ADLER, K. A device for the measurement of small exchange rate of ascorbic acid during the photosynthetic activity of algae in low light intensity. (Ge) *Kulturpflanze* 15:151-160. Ref. 1967. 450 K95 English summary.
- 85159 ALBERSHEIM, P., and others. A method for the analysis of sugars in plant cell-wall polysaccharides by gas-liquid chromatography. *Carbohydr. Res.* 5(3):340-345. Ref. Nov.1967. 385 C172 D. J. Nevins, P. D. English, and A. Karr, joint authors.
- 85160 ALLAN, G. G. The stereochemistry of the boswellic acids. *Phytochemistry* 7(6):963-973. Ref. June 1968. 450 P5622 From *Boswellia carteri*.
- 85161 ALLEN, M. M., and STAINER, R. Y. Growth and division of some unicellular blue-green algae. *J. Gen. Microbiol.* 51(2):199-202. Apr. 1968. 448.3 J824 *Anacystis nidulans*, *Coccochloris penicystis*, and *Gleocapsa alpicola*.
- 85162 ALLEN, M. M., and STAINER, R. Y. Selective isolation of blue-green algae from water and soil. *J. Gen. Microbiol.* 51(2):203-209. Apr. 1968. 448.3 J824
- 85163 AMEN, R. D. A model of seed dormancy. *Bot. Rev.* 34(1):1-31. Jan./Mar.1968. 450 B6527
- 85164 AMMANN, E. C. B., and FRAZER-SMITH, A. Gas exchange of algae. IV. Reliability of *Chlorella pyrenoidosa*. *Appl. Microbiol.* 16(5):669-672. May 1968. 448.3 Ap5
- 85165 ARMSTRONG, W. The use of polarography in the assay of oxygen diffusing from roots in anaerobic media. *Physiol. Plant.* 20(3):540-553. Ref. 1967. 450 P564
- 85166 ASPBERG, K., HOLMEN, H., and PORATH, J. A non-specific phytohemagglutinin found in *Vicia cracca*. *Biochim. Biophys. Acta* 160(1): 116-117. May 6, 1968. 381 B522
- 85167 AUBE, C., and PELLETIER, G. Formation of endospores in *Verticillium albo-atrum* (R. & B.). *Can. J. Microbiol.* 14(5):606-607. May 1968. 448.8 C162
- 85168 AURICH, O., and others. Phytochemical studies of plants of the indigenous flora and of the assortment from Gatersleben. III. (Ge) *Kulturpflanze* 15:205-242. 1967. 450 K95 S. Danert, A. Romeike, H. Ronsch, K. Schreiber, and G. Sembdner, joint authors. English summary. Alkaloids and saponins.
- 85169 BABUSHKIN, L. N. Mechanism responsible for the transpiration in leaves severed from plant. (Rus) *Akad. Nauk SSSR. Dokl.* 179:225-227. Ref. 1968. 511 P444A
- 85170 BACHOFFEN, R., and RAST, D. Carboxylation reactions in *Agaricus bisporus*. III. Pyruvate and phosphoenolpyruvate as CO<sub>2</sub> acceptors. (Ge) *Arch. Mikrobiol.* 60(3):217-234. Ref. 1968. 442.8 Ar26 English summary.
- 85171 BAIER, W., and ROBERTSON, G. W. The performance of soil moisture estimates as compared with the direct use of climatological data for estimating crop yields. *Agr. Meteorol.* 5(1): 17-31. Ref. Jan.1968. 340.8 Ag8
- 85172 BAISTED, D. J., GARDNER, R. L., and MC-REYNOLDS, L. A. Phytosterol biosynthesis from lanosterol in *Euphorbia peplus*. *Phytochemistry* 7(6):945-949. Ref. June 1968. 450 P5622 Studied with radioactive carbon.
- 85173 BAJAJ, Y. P. S. Some factors affecting growth of embryos of *Dendrophthoe falcata* in cultures. *Can. J. Bot.* 46(4):429-433. Ref. Apr.1968. 470 C16C
- 85174 BASSON, W. D., STANTON, D. A., and BOHMER, R. G. Automated procedure for the simultaneous determination of phosphorus and nitrogen in plant tissue. *Analyst* 93(1104):166-172. Mar.1968. 382 An1
- 85175 BEADLE, N. C. W. Some aspects of the ecology and physiology of Australian xeromorphic plants. *Australian J. Sci.* 30(9):348-355. Ref. Mar.1968. 475 Au72
- 85176 BECKER, J., DOHLER, G., and EGLE, K. The effect of monochromatic light on the extracellular excretion of glycolic acid during the photosynthesis of *Chlorella*. (Ge) *Z. Pflanzenphysiol.* 58(3):212-221. Ref. Jan.1968. 450 Z32 English summary.
- 85177 BEDERBECK, R., and RICHTER, G. On the nature of DNA-associated RNA in *Chlorella* cells. *Biochim. Biophys. Acta* 157(3):658-660. May 21, 1968. 381 B522
- 85178 BELOSLYUDOVA, L. F., and NAZARENKO, S. D. Dynamics of nitrogenous substances in some wild plants in the Zailiski Ala-Tau. (Rus) *Akad. Nauk Kaz. SSR. Izv. Ser. Biol. Nauk* 6: 43-50. Ref. Nov./Dec.1967. 442.8 AL6 As related to altitude.
- 85179 BENEDICT, R. G., and BRADY, L. R. Further studies on fermentative production of toxic cyclopetides by *Galerina marginata* (Fr.) Kuhn. *Lloydia* 30(4):372-378. Ref. Dec.1967. 442.8 L77
- 85180 BERNFELD, P. The biogenesis of carbohydrates. In his *Biogenesis of natural compounds*, ed.2, p.315-476. 1967. QD415.B4 1967 Review of the literature. Includes photosynthesis.
- 85181 BERNFELD, P. *Biogenesis of natural compounds*. 2d ed. New York, Pergamon Press 1967. 1209 p. QD415.B4 1967 Review of the literature. Plant biochemistry included.
- 85182 BERTRAND, H., MCDUGALL, K. J., and PITTENGER, T. H. Somatic cell variation during uninterrupted growth of *Neurospora crassa* in continuous growth tubes. *J. Gen. Microbiol.* 50(3):337-350. Ref. Mar.1968. 448.3 J823
- 85183 BERUTER, J., and SOMOGYI, J. C. 3,4-Dihydroxycinnamic acid, an antithiamine factor of fern [*Pteridium aquilinum*]. *Experimentia* 23 (12):996-997. Dec.15, 1967. 475 Ex7
- 85184 BOCK, S. M. Fungal metabolism. IV. The oxidation of psilocin by p-diphenol oxidase (laccase). *Phytochemistry* 6(12):1629-1631. Dec.1967. 450 P5622 *Polyporus versicolor*.
- 85185 BOGORAD, L., and TROXLER, R. F. The biogenesis of heme, chlorophylls, and bile pigments. In Bernfeld, P. *Biogenesis of natural compounds*, ed.2, p.247-313. 1967. QD415.B4 1967 Review of the literature.
- 85186 BOHLMANN, F., and others. On polyacetylene compounds. 145-146. (Ge) *Chem. Ber.* 101 (3):855-863. 1968. 384 B45 H. Bonnet, R. Jente, and T. Burkhardt, joint authors. Studies on the biogenesis of phenylheptatriene and thienoletherpolyenes in *Coreopsis lanceolata* and in *Anthemis tinctoria* and *Chrysanthemum carinatum*, respectively.



- 85187 BOHLMANN, F., and RODE, K. M. Polyacetylene compounds. 147. The polyenes from *Oenanthe crocata* L. (Ge) Chem. Ber. 101(4): 1163-1175. 1968. 384 B45
- 85188 BOHLMANN, F., GRENZ, M., and NIEBALLA, U. Polyacetylene compounds. CXLIV. On the polyene-hydrocarbons of *Chrysanthemum frutescens* L. (Ge) Chem. Ber. 101(2):532-535. 1968. 384 B45
- 85189 BONEY, A. D., and WHITE, E. B. Phycoerythrins from some *Acrochaetium* species. Nature 218(5146):1068-1069. Ref. June 15, 1968. 472 N21
- 85190 BONNER, J. Rubber biogenesis. In Bernfeld, P. Biogenesis of natural compounds, ed. 2, p. 941-952. 1967. QD415.B4 1967  
Review of the literature.
- 85191 BOSTWICK, C. D., BROWN, L. R., and TISCHER, R. G. Some observations on the sodium and potassium interactions in the blue-green alga *Anabaena flos-aquae* A-37. Physiol. Plant. 21(2):466-469. 1968. 450 P564
- 85192 BOWKER, D. M., and TURVEY, J. R. Water-soluble polysaccharides of the red alga *Laurencia pinnatifida*. I-II. Chem. Soc. J. C, Org. 3: 983-992. 1968. QD241.C5
- 85193 BOYER, Y. Water deficiency and the intensity of gas exchange at frond level in *Platycerium stemaria* (Beauv.) Desv. (Fr) Acad. Sci. Compt. Rend. Ser. D, 265(19):1377-1380. Ref. Nov. 6, 1967. 505 P21
- 85194 BRAVDO, B. A. Decrease in net photosynthesis caused by respiration. Plant Physiol. 43(4): 479-483. Ref. Apr. 1968. 450 P692
- 85195 BROWN, A., BOULTER, D., and COULT, D. A. The influence of CO<sub>2</sub> on the metabolism of rhizome tissue in *Iris pseudacorus*. Physiol. Plant. 21(2):271-281. Ref. 1968. 450 P564
- 85196 BURKE, W. Growing degree-days in Ireland. Irish J. Agr. Res. 7(1):61-71. Apr. 1968. 10.5 Ir45  
For plant growth potential measurement.
- 85197 BURNETT, A. R., and THOMSON, R. H. Naturally occurring quinones. XII-XIV. Chem. Soc. J. C. Org. 7:850-860. 1968. QD241.C5  
XII, Extractives from *Tabebuia chrysantha* Nichols and other Bignoniaceae; XIII, Anthraquinones and related naphthalenic compounds in *Galium* spp. and in *Asperula odorata*; XIV, The quinonoid constituents of *Pyrola media* Sw. (Pyrolaceae).
- 85198 CAMBIE, R. C. The depsides from *Stereocaulon ramulosum* (SW.) Rausch. New Zeal. J. Sci. 11(1):48-53. Mar. 1968. 514 N482
- 85199 CAMBIE, R. C., and COUCH, R. A. F. Extractives of some Myrsine species. New Zeal. J. Sci. 10(4):1020-1029. Dec. 1967. 514 N482  
Myrsine australis, M. kermadecensis, and M. salicina.
- 85200 CESARI, A. Influence of temperature on action of some fungicides. (It) Inform. Fitopatol. 18 (7):129-125. Apr. 15, 1968. 464.8 In3  
Tests with *Coryneum beijerinckii* and *Botrytis cinerea*.
- 85201 CHAPMAN, D. J., COLE, W. J., and SIEGELMAN, H. W. Cleavage of phycocyanobilin from C phycocyanin. Biochim. Biophys. Acta 153(3): 692-698. Ref. Apr. 2, 1968. 381 B522  
From algae.
- 85202 CHENIAE, G. M., and MARTIN, I. F. Site of manganese function in photosynthesis. Biochim. Biophys. Acta 153(4):819-837. Ref. May 28, 1968. 381 B522
- 85203 CHIANG, K. S. Physical conservation of parental cytoplasmic DNA through meiosis in *Chlamydomonas reinhardtii*. Nat. Acad. Sci. Proc. 60(1):194-200. Ref. May 1968. 500 N21P
- 85204 CHICHESTER, C. O., and NAKAYAMA, T. O. M. The biosynthesis of carotenoids and vitamin A. In Bernfeld, P. Biogenesis of natural compounds, ed. 2, p. 641-678. 1967. QD415.B4 1967  
Review of the literature.
- 85205 CLAIRE, A. Retarding the growth of winding by curbing the revolute movement; effects of gibberellic acid and N-dimethylamino succinamic acid on the growth of winding stems deprived of movement. (Fr) Acad. Sci. C. R. Ser. D, 266(19):1959-1962. May 6, 1968. 505 P21  
Tested with *Ipomoea purpurea*.
- 85206 COLLINS, R. P., and KALNINS, K. The fatty acids of *Symura petersenii*. Lloydia 30(4):437-440. Dec. 1967. 442.8 L77
- 85207 COMHAIRE, M. The role of silica for plants. (Fr) Agron. Trop. Paris 22(12):1235-1240. Ref. Dec. 1967. 26 Ag86
- 85208 COOMBE, R. G., JACOBS, J. J., and WATSON, T. R. Constituents of some *Curvularia* species. Australian J. Chem. 21(3):783-788. Mar. 1968. 475 Au73  
Metabolites.
- 85209 CROSS, B. E., NORTON, K., and STEWART, J. C. The biosynthesis of the gibberellins. III. Chem. Soc. J. C, Org. 9:1054-1063. Ref. 1968. QD241.C5
- 85210 CULBERSON, C. F. The chemical constituents of *Ramalina pulidosa*. Bryologist 70(4):397-405. Ref. Winter 1967. 450 B84
- 85211 CUSHING, C. E., and WATSON, D. G. Accumulation of <sup>32</sup>P and <sup>65</sup>Zn by living and killed plankton. Oikos 19(1):143-145. 1968. 410 Oi4
- 85212 DATTA, S. C., MURTI, V. V. S., and SESHADRI, A. R. A new component of the flowers of *Thespesia populnea* (+) gossypol. Cur. Sci. 37 (5):135. Mar. 5, 1968. 475 Sci23
- 85213 DENMARK, STATENS FORSOGSVIRKSOMHED I PLANTEKULTUR. Precipitation, evaporation and water balance, 1966. (Da) Tidsskr. Plantæavl 71(2):263-266. 1967. 11 T439  
Includes plant water relations.
- 85214 DESATY, D., and VINING, L. C. Biosynthesis of nicotinic acid by *Fusarium oxysporum* Schlecht. (Fr) Can. J. Biochem. 45(12):1953-1959. Ref. Dec. 1967. 470 C16E
- 85215 DESHPANDE, S. M., and UPADHYAY, R. R. Chemical studies of *Jasminum auriculatum* (Vahl) leaves. III. Cur. Sci. 37(7):200-201. Apr. 5, 1968. 475 Sci23
- 85216 DONNELLY, B. J., DONNELLY, D. M. X., and O'SULLIVAN, A. M. *Dalbergia* species. VI. The occurrence of melanin in the genus *Dalbergia*. Tetrahedron 24(6):2617-2622. Ref. Mar. 1968. 382 T29
- 85217 DOY, C. H. Control of aromatic biosynthesis particularly with regard to the common pathway and the allosteric enzyme, 3-deoxy-D-arabino heptulosonate 7-phosphate synthetase. Rev. Pure Appl. Chem. 18:41-78. 1968. 385 R328  
Review of the literature.  
Includes control in *Neurospora crassa*.
- 85218 DUDMAN, W. F. Capsulation in *Rhizobium [trifolii]* species. J. Bacteriol. 95(3):1200-1201. Mar. 1968. 448.3 J82
- 85219 DUTTA, T., and BASU, U. P. Terpenoids. V. Isolation & identification of asiatic acid from *Centella asiatica* Linn. (Urb.). Indian J. Chem. 5(11):586-587. Nov. 1967. 385 In294
- 85220 DWELTZ, N. E., COLVIN, J. R., and MCINNES, A. G. Studies on chitin (beta-(1→4)-linked 2-acetamido-2-deoxy-D-glucan) fibres of the diatom *Thalassiosira fluvialis*, Hustedt. III. The structure of chitin from x-ray diffraction and electron microscope observations. Can. J. Chem. 46(9):1513-1521. May 1, 1968. 470 C16B
- 85221 EBREY, T. G. Characterization of the fast light-evoked electrical responses from leaves. Photochem. Photobiol. 7(3):297-309. Ref. Mar. 1968. 382 P56

- 85222 EGAWA, H., and others. Formation of abnormal mycelium of *Fusarium roseum* Link. on a modified Czapek-D-amino acid medium. *Experientia* 24(4):403-404. Apr.15,1968. 475 Ex7  
M. Tsuda, A. Ueyama, and T. Matuo, joint authors.
- 85223 ENOCKL, F. The changes of nucleic acids and their content in *Chlorella pyrenoidosa* during its development. (Ge) *Z. Pflanzenphysiol.* 58(3):240-247. Ref. Jan.1968. 450 Z32  
English summary.
- 85224 ERIKSSON, T. Effects of ultraviolet and X-ray radiation on in vitro cultivated cells of *Haplo-pappus gracilis*. *Physiol. Plant.* 20(3):507-518. Ref. 1967. 450 P564
- 85225 ERNST, W. The influence of phosphate supply and the effects of ionogenic and chelated zinc on the zinc and phosphate uptake of some heavy-metal tolerant plants. *Physiol. Plant.* 21(2):323-333. Ref. 1968. 450 P564
- 85226 FEDERICO, L. G., and others. Observations on the lipid metabolism of germinating seeds and seedlings of *Cucurbita maxima*. III. (It) *Riv. Ital. Sostanze Grasse* 45(3):143-150. Ref. Mar.1968. 307.8 OL3  
T. Benelli, A. Farini, and A. Daghetta, joint authors.  
English summary.
- 85227 FELLER, A. On the antitumour activity of some products of wood-decaying fungi. *Experientia* 23(12):1056-1057. Dec.15,1967. 475 Ex7  
Basidiomycetes.
- 85228 FITZPATRICK, E. A., SLATYER, R. O., and KRISHNAN, A. I. Incidence and duration of periods of plant growth in central Australia as estimated from climatic data. *Agr. Meteorol.* 4(6):389-404. Ref. Nov.1967. 340.8 Ag8
- 85229 FORK, D. C., and HEBER, U. W. Studies on electron-transport reactions of photosynthesis in plastome mutants of *Oenothera*. *Plant Physiol.* 43(4):606-612. Ref. Apr.1968. 450 P692
- 85230 FORTIN, J. A. Inhibiting action of 3-indoleacetic acid on the growth of some mycorrhiza Basidiomycetes. (Fr) *Physiol. Plant.* 20(3):528-532. Ref. 1967. 450 P564
- 85231 FOSKET, D. E. Cell division and the differentiation of wound vessel members in cultured stem segments of *Coleus*. *Nat. Acad. Sci. Proc.* 59(4):1089-1096. Ref. Apr.1968. 500 N21P
- 85232 FRANSSEN, C. A. M. Autonomy of cell organelles. (Du) *Landbouwkundig Tijdschr.* 80(1):6.  
Nucleic acids in *Euglena*, yeasts, and other organisms.
- 85233 FREDERICK, J. F. Glucosyltransferase isozymes in algae. II. Properties of branching enzymes. *Phytochemistry* 7(6):931-936. Ref. June 1968. 450 P5622
- 85234 FREDERICQ, H., and GREFF, J. DE. Photomorphogenic and chlorophyll studies in the bryophyte *Marchantia polymorpha*. I. Effect of red, far-red irradiations in short and long-term experiments. *Physiol. Plant.* 21(2):346-359. Ref. 1968. 450 P564
- 85235 GEISSMAN, T. A. The biosynthesis of phenolic plant products. In Bernfeld, P. *Biogenesis of natural compounds*, ed.2, p.743-799. 1967. QD415.B4 1967  
Review of the literature.
- 85236 GEISSMAN, T. A., MUKHERJEE, R., and SIM, K. Y. Constituents of *Helichrysum viscosum* var. *bracteatum* DC. *Phytochemistry* 6(11):1575-1581. Ref. Nov.1967. 450 P5622
- 85237 GEISSMAN, T. A., and TORIBIO, F. P. Sesquiterpene lactones, constituents of *Hymenoclea salsola* T. and G. *Phytochemistry* 6(11):1563-1567. Ref. Nov.1967. 450 P5622
- 85238 GERLOFF, G. C. The comparative boron nutrition of several green and blue-green algae. *Physiol. Plant.* 21(2):369-377. Ref. 1968. 450 P564
- 85239 GIBBONS, G. F., GOAD, L. J., GOODWIN, T. W. The identification of 28-isofucosterol in the marine algae *Enteromorpha intestinalis* and *Ulva lactuca*. *Phytochemistry* 7(6):983-988. Ref. June 1968. 450 P5622
- 85240 GILLIE, O. J. Observations on the tube method of measuring growth rate in *Neurospora crassa*. *J. Gen. Microbiol.* 51(2):185-194. Apr.1968. 448.3 J824
- 85241 GIMMLER, H., and others. Differential effect of disalicylidene-propanediamine on cyclic and non-cyclic photophosphorylation in vivo and on the C-labeling of some photosynthetic products. (Ge) *Z. Pflanzenphysiol.* 58(4):353-364. Ref. Feb.1968. 450 Z32  
W. Urbach, W. D. Jeschke, and W. Somonis, joint authors.  
English summary.  
*Ankistrodesmus braunii*.
- 85242 GLEASON, F. H. Respiratory electron transport systems of aquatic fungi. I. *Leptomitilacteus* and *Apodachlya punctata*.
- 85243 GMELIN, R., KJAER, A., and SCHUSTER, A. Glucoaubrietin, a new crystalline glucosinolate. *Acta Chem. Scand.* 22(2):713-714. 1968. 385 Ac82  
From *Aubrietia cultorum*.
- 85244 GOEDHEER, J. C. On the low-temperature fluorescence spectra of blue-green and red algae. *Biochim. Biophys. Acta* 153(4):903-906. Ref. May 28,1968. 381 B522
- 85245 GOURGAUD, M. Effect of 8-azaguanine and guanine on the growth and ramification of protonema of *Ceratodon purpureus* (Hedw.) cultivated in vitro in darkness. (Fr) *Acad. Sci. Compt. Rend. Ser. D*, 265(19):1381-1383. Nov.6,1967. 505 P21
- 85246 GRAZIANO, M. N., and others. Flavonoids from the Argentine mistletoe *Psittacanthus cuneifolius*. *Phytochemistry* 6(12):1709-1711. Ref. Dec.1967. 450 P5622  
G. A. Widmer, R. Juliani, and J. D. Coussio, joint authors.
- 85247 GRIFFIN, W. J., OWEN, W. R., and PARKIN, J. E. A phytochemical survey of eastern Australian plants for saponins. *Planta Med.* 16(1):75-81. Ref. Feb.1968. 450 P697
- 85248 GRILLE, O. J. Growth of *Neurospora crassa* in unstirred liquid cultures. *J. Gen. Microbiol.* 51(2):179-184. Apr.1968. 448.3 J824
- 85249 GRISARO, V., SHARON, N., and BARKAI-GOLAN, R. The chemical composition of the cell walls of *Penicillium digitatum* Sacc. and *Penicillium italicum* Whem. *J. Gen. Microbiol.* 51(1):145-150. Ref. Apr.1968. 448.3 J823
- 85250 GROMET-ELHANAN, Z. Energy-transfer inhibitors and electron transport inhibitors in chloroplasts. *Arch. Biochem. Biophys.* 123(3):447-456. Ref. Mar.11,1968. 381 Ar2
- 85251 GRZESIUK, S. *Fizjologia nasion* [Seed physiology]. Warszawa, Panstwowe Wydawnictwo Rolnicze i Lesne, 1967. 523 p. Ref. SB114.G7
- 85252 GULYAKIN, V., YUDINTZEVA, E. V., and PANOV, V. Z. Uptake of strontium, cesium and iodine by plants through leaves and roots. (Rus) *Timiryazevskaya Sel'skokhoz. Akad. Izv.* 6:85-90. Ref. 1967. 106 P44  
English summary.  
Radioactive.
- 85253 GUNAR, I. I., and KUDASOVA, V. L. Change of bioelectric potentials of plant cells in plasmolysis. (Rus) *Timiryazevskaya Sel'skokhoz. Akad. Izv.* 6:3-9. Ref. 1967. 106 P44  
English summary.  
*Nitella flexilis*.
- 85254 HALLIER, U. W., HEBER, U., and STUBBE, W. Photosynthetic reaction of some plastid mutants in *Oenothera*. I. The reductive pentose phosphate cycle. (Ge) *Z. Pflanzenphysiol.* 58(3):222-239. Ref. Jan.1968. 450 Z32  
English summary.
- 85255 HALLIER, W. W., and DOLZMANN, P. Photosynthetic reactions of some plastid mutants of *Oenothera*. II-III. (Ge) *Z. Pflanzenphysiol.* 58(4):289-309. Ref. Feb.1968. 450 Z32  
English summary.



- 85256 HARBORNE, J. B. Comparative biochemistry of flavonoids. V. Luteolin 5-glucoside and its occurrence in the Umbelliferae. *Phytochemistry* 6(11):1569-1573. Ref. Nov.1967. 450 P5622
- 85257 HARDWICK, K., and WOOLHOUSE, H. W. Foliar senescence in *Perilla frutescens* (L.) Britt.: the mechanism of [2-<sup>14</sup>C]glycine uptake and incorporation into protein by leaf disc. *New Phytol.* 67(2):241-246. Ref. Apr.1968. 450 N42
- 85258 HATANAKA, C., and OZAWA, J. Enzymic degradation of pectic acid. V. Mode of action of fungal saccharifying polygalacturonase. (Ja) *Agr. Chem. Soc. Jap. J.* 41(4):165-169. Ref. 1967. 385 Ag8  
English summary.
- 85259 HAYNES, L. J., HUSBANDS, G. E. M., and STUART, K. L. Alkaloids from Croton species. VIII. *Chem. Soc. J. C, Org.* 8:951-960. 1968. QD241.C5
- 85260 HEIDE, O. M., and SKOOG, F. Cytokinin activity in *Begonia* and *Bryophyllum* [daigremontianum]. *Physiol. Plant.* 20(3):771-780. Ref. 1967. 450 P564
- 85261 HEINRICH, G., and HOFFMEISTER, H. Ecdysone as accompanying substance of ecdysterone in *Polypodium vulgare* L. (Ge) *Experimentia* 23(12):995. Ref. Dec.15,1967. 475 Ex7
- 85262 HEJNOWICZ, Z., and ERICKSON, R. O. Growth inhibition and recovery in roots following temporary treatment with auxin. *Physiol. Plant* 21(2):302-313. Ref. 1968. 450 P564  
Tests with indoleacetic acid, 2,4-D, and naphthaleneacetic acid.
- 85263 HENDRICKS, S. B. Photoperiodism after 50 years. *Wash. Acad. Sci. J.* 58(4):69-74. Ref. Apr.1968. 500 W276J  
Plants and insects.
- 85264 HESS, C. M., and MEEUSE, B. J. D. The effect of various uncouplers on the respiration of appendix tissue slices of *Sauromatum guttatum* Schott (Araceae) at various stages of anthesis. *Acta Bot. Neer.* 16(5):188-196. Ref. Nov.1967. 450 Ac822  
2,4-dinitrophenol, Na-azide, and pentachlorophenol.
- 85265 HODSON, R., SCHIFF, J. A., and SCARSELLA, A. J. Studies of sulfate utilization by algae. 7. In vivo metabolism of thiosulfate by *Chlorella pyrenoidosa*. *Plant Physiol.* 43(4):570-577. Ref. Apr.1968. 450 P692
- 85266 HODSON, R. C., and others. Studies of sulfate utilization by algae. 6. Adenosine-3'-phosphate-5'-phosphosulfate (PAPS) as an intermediate in thiosulfate formation from sulfate by cell-free extracts of *Chlorella pyrenoidosa*. *Plant Physiol.* 43(4):563-569. Ref. Apr.1968. 450 P692  
J. A. Schiff, A. J. Scarsella, and M. Levinthal, joint authors.
- 85267 HOLZL, J., and BANCHER, E. Studies concerning the question of survival of plant epidermis in liquid nitrogen and freon. (Ge) *Z. Pflanzenphysiol.* 58(4):310-326. Ref. Feb.1968. 450 Z32  
English summary.
- 85268 HUDSON, J. P. The plant and its environment. *Roy. Hort. Soc. J.* 93(5):193-209. (Cont.) Ref. May 1968. 84 L84J  
Includes discussion.
- 85269 HUMPHRIES, S. G. The biosynthesis of tannins. In Bernfeld, P. *Biogenesis of natural compounds*, ed.2, p.801-827. 1967. QD415.B4 1967  
Review of the literature.
- 85270 ICHIMURA, S., NAGASAWA, S., and TANAKA, T. On the oxygen and chlorophyll found in the metalimnion of a mesotrophic lake. *Bot. Mag. Tokyo* 81(955):1-10. Ref. Jan.1968. 450 B651  
Chiefly photosynthesis in *Cryptomonas* spp.
- 85271 IDLER, D. R., SAITO, A., and WISEMAN, P. Sterols in red algae (Rhodophyceae). *Steroids* 11(4):465-473. Ref. Apr.1968. 381 St4
- 85272 IKEROMI, M., and NISHIDA, K. Carbonic anhydrase in the marine alga *Ulva pertusa*. *Physiol. Plant.* 21(2):292-297. Ref. 1968. 450 P564
- 85273 ILIES, C. Some observations concerning the assimilation from water and the distribution of <sup>32</sup>P in different parts of common reeds. (Rum) *Celul. Hirtie* 17(3):97-105. Mar.1968. 309.8 C334  
English summary, p.91.
- 85274 INAMDAR, J. A. Stomatal ontogeny in *Habenaria marginata* Coleb. *Cur. Sci.* 37(1):24-25. Jan.5,1968. 475 Sci23
- 85275 INGRAM, J. M. Fructose diphosphate aldolase from *Fusarium oxysporum* f. *lycopersici*. III. (Fr) *Can. J. Biochem.* 45(12):1909-1917. Ref. Dec.1967. 470 C16E
- 85276 JACK, R. C., and HARKNESS, S. H. Relative incorporation of acetate and glucose into glycerides of *Glomerella cingulata*. *Lipids* 3(3):211-214. Ref. May 1968. QP751.L5
- 85277 JEFFREY, D. W. Phosphate nutrition of Australian heath plants. I. The importance of proteoid roots in *Banksia* (Proteaceae). *Australian J. Bot.* 15(3):403-411. Dec.1967. 450 Au72  
*Banksia ornata* and *B. serrata*.
- 85278 JOHNSSON, A., and ISRAELSSON, D. Application of a theory for circumutations to geotropic movements. *Physiol. Plant.* 21(2):282-291. 1968. 450 P564  
Includes tests with sunflowers.
- 85279 JORGENSEN, E. G. The adaptation of plankton algae. II. Aspects of the temperature adaptation of *Skeletonema costatum*. *Physiol. Plant.* 21(2):423-427. 1968. 450 P564
- 85280 JOSHI, M. C., and VARGHESE, T. M. Autecological studies on Rajasthan desert plants. I. *Anticharis linearis* Hochst. *Indian Bot. Soc. J.* 46(1):63-75. Ref. 1967. 450 J821  
Chiefly physiology and morphology.
- 85281 KAGAN, Z. S., POLYAKOV, V. A., and KRETOVICH, V. L. Soluble valine dehydrogenase in roots of plant seedlings. (Rus) *Biokhimiya* 33(1):89-96. Jan./Feb.1968. 385 B523  
English summary.
- 85282 KANDELER, R. Blossom induction in the Lemnaceae. (Ge) *Biol. Rundsch.* 6(2):49-57. 1968. 442.8 B5272  
Review of the literature.
- 85283 KARLISH, S. J. D., and AVRON, M. Analysis of light-induced proton uptake in isolated chloroplasts. *Biochim. Biophys. Acta* 153(4):878-888. Ref. May 28,1968. 381 B522
- 85284 KAUSS, H. The isolation and fractioning of acid exopolysaccharides from *Ochromonas malhamensis*. (Ge) *Z. Pflanzenphysiol.* 58(3):281-284. Jan.1968. 450 Z32  
English summary.
- 85285 KERR, D. S., and FLAVIN, M. Synthesis of cystathionine from O-acetylhomoserine in *Neurospora*: a step in methionine biosynthesis. *Biochem. Biophys. Res. Commun.* 31(1):124-130. Ref. Apr.5,1968. 442.8 B5236
- 85286 KHAN, A. A. Dormancy, genes, and hormones. *Farm Res. [N. Y. Sta.]* 32(4):10-11. Jan./Mar. 1967. 100 N48A  
Seed physiology.
- 85287 KHANNA, R. N., and SESHADRI, T. R. Chemical components of *Xanthoria elegans*. *Cur. Sci.* 37(3):72-73. Feb.5,1968. 475 Sci23
- 85288 KHVEDELIDZE, M. A., and others. Controllable magnetic properties of plant seeds. (Rus) *Akad. Nauk Gruz. SSR. Soobshch.* 49(2):287-292. Ref. Feb.1968. 511 Ak146  
S. I. Dumbadze, M. Sh. Lomsadze, and N. A. Databashvili, joint authors.
- 85289 KIEL, E. Water requirement of plants. (Da) *Haven* 68(5):162-163. May 1968. 80 H29
- 85290 KINAG, A. K., SIM, K. Y., and YOUNG, S. W. Constituents of *Mikania cordata* (Burm. F.) B. L. Robinson (Compositae). II. *Phytochemistry* 7(6):1035-1037. Ref. June 1968. 450 P5622
- 85291 KINDL, H. Oxidases and oxygenases in higher plants. I. On the occurrence of indolyl-(3)-acetaldehyde oxime and its formation from L-tryptophan. (Ge) *Hoppe-Seyler's Physiol. Chem.* 349(4):519-520. Ref. Apr.1968. 384 Z38  
English summary.  
Cruciferae.

- 85292 KLEKOWSKI, E. J., and LLOYD, R. M. Reproductive biology of the Pteridophyta. 1. General considerations and a study of *Onoclea sensibilis* L. Linn. Soc. London. J. Bot. 60(383): 315-324. Ref. Feb.1968. 451 L64J
- 85293 KNIGHT, K. I., and PRICE, C. A. Measurements of s-p coordinates during the development of *Euglena* chloroplasts. Biochim. Biophys. Acta 158(2):283-285. Ref. May 14,1968. 381 B522
- 85294 KONSTANTINOVA, T. N., AKSENOVA, N. P., and NIKITINA, A. A. Effect of special composition of light on the development of *Rudbeckia* [bicolor Nutt] and *Perilla* [ocimoides L.] under long and short day conditions. (Rus) Fisiol. Rast. 15(2):363-366. Ref. Mar./Apr.1968. 450 F58
- 85295 KORDAN, H. A. Some notes on sterilization techniques. Torrey Bot. Club. Bull. 94(6):544-546. Ref. Nov./Dec.1967. 451 T63B  
Application to plant tissues.
- 85296 KOROGODOV, N. S. Application of mathematical analysis in studying theory of planting density. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 2:117-121. Ref. Feb.1968. 20 V633  
English summary.  
As related to plant nutrition.
- 85297 KOSUGE, N., ITO, J., and ITO, H. The determination of calcium, magnesium, manganese and iron in plants and soils by atomic-absorption spectrophotometry. (Ja) Takada. Hokuriku Agr. Exp. Sta. Bull. 9:47-74. Ref. Mar.1968. 107.6 T134  
English summary.
- 85298 KRISHNASWAMY, N. R., SESHADRI, T. R., and SHARMA, B. R. A study of the chemical components of *Enhydra fluctuans*. Cur. Sci. 37(4): 94-96. Ref. Feb.20,1968. 475 Sci23
- 85299 KUCK, A. M., and others. Alkaloids from Argentine *Fagaria* species. Phytochemistry 6(11): 1541-1550. Ref. Nov.1967. 450 P5622  
S. M. Albonico, V. Deuloffu, and M. G. Escalente, joint authors.
- 85300 KUPERMAN, I. A., BOCHKOV, G. A., and LABZUN, P. K. A simple device for determination of water absorption by plants. Fisiol. Rast. 15(2):380-382. Mar./Apr.1968. 450 F58
- 85301 KURTIN, W. E., and SONG, P. S. Electronic structures and spectra of some natural products of theoretical interest. I. Molecular orbital studies of anthocyanidins. Tetrahedron 24(5): 2255-2267. Ref. Mar.1968. 382 T29
- 85302 LANGVAD, F., and GOKSOYR, J. Effects of supraoptimal temperatures on *Merulius lacrymans*. Physiol. Plant. 20(3):702-712. Ref. 1967. 450 P564  
Studied with radioactive carbon labeled glucose.
- 85303 LAROCHE, J., and GUERVIN, C. The attitude of spores of *Equisetum arvense* L. and *Gymnogramma sulphurea* Desv. as function of hydrogen-ion concentration factor in culture medium. (Fr) Acad. Sci. Compt. Rend. Ser. D, 265(19):1384-1386. Nov.6,1967. 505 P21
- 85304 LAWRENCE, R. C., and HAWKE, J. C. The oxidation of fatty acids by mycelium of *Penicillium roqueforti*. J. Gen. Microbiol. 51(2):289-302. Ref. Apr.1968. 448.3 J824
- 85305 LEAL, J. A., LILLY, V. G., and GALLEGLY, M. E. The production of indoleacetic acid from L-tryptophan by species of *Phytophthora*. Can. J. Microbiol. 14(5):595-600. Ref. May 1968. 448.8 C162
- 85306 LEAL, J. A., GREENE LILLY, V., and GALLEGLY, M. E. The utilization of L-asparagine by tow species of *Phytophthora*. W. Va. Acad. Sci. Proc. 39:95-101. 1967. 500 W52  
*Phytophthora heveae* and *P. citricola*.
- 85307 LEBRETON, P., and others. Flavonoids of *Baptisia australis* (Leguminosae). Phytochemistry 6(12):1675-1680. Ref. Dec.1967. 450 P5622  
K. R. Markham, W. T. Swift, H. Oung-Boran, and T. J. Mabry, joint authors.
- 85308 LEETE, E. Alkaloid biogenesis. In Bernfeld, P. Biogenesis of natural compounds, ed.2,p.953-1023. 1967. QD415.B4 1967  
Review of the literature.
- 85309 LEVINTHAL, M., and SCHIFF, J. A. Studies of sulfate utilization by algae. 5. Identification of thiosulfate as a major acid-volatile product formed by a cell-free sulfate-reducing system from *Chlorella* [pyrenoidosa]. Plant Physiol. 43(4):555-562. Ref. Apr.1968. 450 P692
- 85310 LINACRE, E. T. Estimating the net-radiation flux. Agr. Meteorol. 5(1):49-63. Ref. Jan. 1968. 340.8 Ag8  
With reference to water loss from irrigated crops.
- 85311 LOWERY, C. E., FOSTER, J. W., and JURTSCHUK, P. The growth of various filamentous fungi and yeasts on n-alkanes and ketones. I. Studies on substrate specificity. Arch. Mikrobiol. 60(3):246-254. Ref. 1968. 442.8 Ar26
- 85312 MANDY, GY. Cultivated plants and the heat sum. Acta Agron. [Budapest] 17(1/2):267-270. 1968. 19 Ac8  
Heat requirements.
- 85313 MARCHANT, R., and SMITH, D. G. The effect of chloramphenicol on growth and mitochondrial structure of *Pythium ultimum*. J. Gen. Microbiol. 50(3):391-397. Ref. Mar.1968. 448.3 J823
- 85314 MARTAKOV, A. A., and DIANOVA, O. P. A deep-seated method of fermentation of *Aspergillus niger* in connection with biosynthesis of pectolytic ferments. (Rus) Akad. Nauk Kaz. SSR. Izv. Ser. Biol. Nauk 6:54-59. Nov./Dec. 1967. 442.8 AL6
- 85315 MASINGALE, R. E., and others. Inhibitory effects of dichlorophenoxyacetones on auxin-induced growth of *Avena* coleoptile sections. Plant Physiol. 43(4):641-644. Ref. Apr.1968. 450 P692  
J. E. Lewis, S. R. Bryant, C. G. Skinner, joint authors.  
Indoleacetic acid used as growth-promoter.
- 85316 MCCOWN, B. H., BECK, G. E., and HALL, T. C. Plant leaf and stem proteins. I. Extraction and electrophoretic separation of the basic, water-soluble fraction. Plant Physiol. 43(4): 578-582. Ref. Apr.1968. 450 P692  
Tests with *Dianthus*.
- 85317 MENDOZA, C. E., and others. Thin-layer chromatographic-enzyme inhibition procedure to screen for organophosphorus pesticides in plant extracts without elaborate clean-up. Analyst 93(1104):173-177. Mar.1968. 382 An1  
P. J. Wales, H. A. McLeod, and W. P. McKinley, joint authors.
- 85318 MICHELSON, E. L., and SUYAMA, Y. Evidence for two types of 18-S ribosomal RNA in *Neurospora crassa*. Biochim. Biophys. Acta 157(1): 200-203. Mar.18,1968. 381 B522
- 85319 MIERSCH, J. Guanidine compounds in plants. (Ge) Biol. Rundsch. 6(2):72-84. 1968. 442.8 B5272  
Review of the literature.
- 85320 MIHARA, S., KIMURA, K., and HASE, E. Studies on ribonucleic acids from *Chlorella* protothecoides with special reference to the degradation of chloroplast RNA during the process of "glucose-bleaching." Plant Cell Physiol. 9(1):87-102. Ref. Mar.1968. 450 P699
- 85321 MOBERG, S., KNUTSEN, G., and GOKSOYR, J. The "point of no return" concept in cell division. The effects of some metabolic inhibitors on synchronized *Chlorella pyrenoidosa*. Physiol. Plant. 21(2):390-400. Ref. 1968. 450 P564  
Tests with dinitrophenol, chloramphenicol, and para-fluorophenylalanine.
- 85322 MOORE, J. A., and CLARKSON, R. B. Physiological and chemical factors affecting vascular aquatic plants in some acid stream drainage areas of the Monongahela River. W. Va. Acad. Sci. Proc. 39:83-89. Ref. 1967. 500 W52



- 85323 MORRIS, L. J. Fatty acid composition of *Claviceps* species; occurrence of (+)-threo-9, 10-dihydroxystearic acid. *Lipids* 3(3):260-261. Ref. May 1968. QP751.L5
- 85324 MUKERJI, S. K., and TING, I. P. Intracellular localization of CO<sub>2</sub> metabolism enzymes in cactus phylloclades. *Phytochemistry* 7(6):903-911. Ref. June 1968. 450 P5622  
Tests with *Opuntia ficus-indica*.
- 85325 NAF, U. On separation and identity of fern antheridiogens. *Plant Cell Physiol.* 9(1):27-33. Ref. Mar.1968. 450 P699  
*Pteridium aquilinum*, *Anemia phylliditis*, and *Lygodium japonicum*.
- 85326 NAKAMURA, S., and OGURA, Y. Action mechanism of glucose oxidase of *Aspergillus niger*. *J. Biochem.* 63(3):308-316. Ref. Mar.1968. 385 J822
- 85327 NICHOLAS, H. J. The biogenesis of terpenes in plants. In Bernfeld, P. Biogenesis of natural compounds, ed.2,p.829-901. 1967. QD415.B4 1967  
Review of the literature.
- 85328 NICHOLLS, P. B., and MURRAY, A. W. Adenine phosphoribosyltransferase in plant tissues: some effects of kinetin on enzymic activity. *Plant Physiol.* 43(4):645-648. Ref. Apr.1968. 450 P692  
Tests with extracts of soybean and barley tissues.
- 85329 NIELSEN, E. S., and JORGENSEN, E. G. The adaptation of plankton algae. I. General part. *Physiol. Plant.* 21(2):401-413. Ref. 1968. 450 P564  
Effects of light and temperature changes on photosynthesis.
- 85330 NISHIMURA, M. Energy- and electron-transfer systems in algal photosynthesis. II. *Biochim. Biophys. Acta* 153(4):838-847. Ref. May 28,1968. 381 B522
- 85331 NIZNA, E. The physiological effect of chloramphenicol on plants. (Cz) *Biologia [Bratislava]* 23(4):293-296. Ref. 1968. 442.8 B5265
- 85332 NJOS, A. Some characteristics of the physical milieu for outdoor plants. (No) *Gartneryrket* 58(11):214,217-218,220. Mar.15,1968. 80 G1938  
Chiefly effects of climate and soil temperature.
- 85333 NORD, F. F., and SCHUBERT, W. J. The biogenesis of lignins. In Bernfeld, P. Biogenesis of natural compounds, ed.2,p.903-940. 1967. QD415.B4 1967  
Review of the literature.
- 85334 NOTT, P. E., and ROBERTS, J. C. A synthesis of mangiferin. *Phytochemistry* 6(11):1597-1599. Ref. Nov.1967. 450 P5622  
A metabolite of wide distribution in the plant world.
- 85335 OELRICHS, P., MARSHALL, J. T. B., and WILLIAMS, D. H. 7-O- $\beta$ -D-glucosyl-8-C- $\beta$ -D-glucosyl-4'-O-methylapigenin, a new flavone from *Trema aspera*. *Chem. Soc. J. C, Org.* 8:941-947. 1968. QD241.C5  
Designated as tremasperin.
- 85336 OERTLI, J. J. Comments on active water transport. *Physiol. Plant.* 20(3):814-818. 1967. 450 P564  
Plant water relations.
- 85337 OGAWA, H., and NATORI, S. Hydroxybenzoquinones from Myrsinaceae plants. II. Distribution among Myrsinaceae plants in Japan. *Phytochem.* 7(5):773-782. Ref. May 1968. 450 P5622
- 85338 OINONEN, E. The correlation between the size of Finnish bracken (*Pteridium aquilinum* (L.) Kuhn.) clones and certain periods of site history. *Acta Forest. Fenn.* 83(2),51 p.,map. Ref. 1967. 99.9 F492
- 85339 OINONEN, E. Keltalieon (*Lycopodium complanatum* L.) itiollinen uudistuminen etela-suomessa kloonien laajuutta ja ikaa koskevan tutkimuksen valossa. Sporal regeneration of ground pine (*Lycopodium complanatum* L.) in southern Finland in the light of the dimensions and the age of its clones. *Acta Forest. Fenn.* 83(3),85 p.,map. Ref. 1967. 99.9 F492  
English summary.
- 85340 OINONEN, E. Sporal regeneration of bracken (*Pteridium aquilinum* (L.) Kuhn.) in Finland in the light of the dimensions and the age of its clones. *Acta Forest. Fenn.* 83(1),96 p.,map. Ref.,p.91-96: 1967. 99.9 F492
- 85341 OYAMA, S., KOBAYASHI, K., and TOMIYAMA, T. Studies on the phosphorus metabolism of algae. I. The nucleotides of fresh *Porphyra tenera*. (Ja) *Jap. Soc. Sci. Fish. Bull.* 34(1):59-64. Ref. Jan.1968. 414.9 J274  
English summary.
- 85342 ORTEGA, A., VIVAR, A. R. DE., and ROMO, J. Odoratin: a new pseudoguaianolide from *Hymenoxis odorata* DC. *Can. J. Chem.* 46(9):1539-1541. May 1,1968. 470 C16B
- 85343 OSHIO, J., and HASE, E. Studies on nucleic acids in chloroplasts isolated from *Chlorella protothecoides*. *Plant Cell Physiol.* 9(1):69-85. Ref. Mar.1968. 450 P699
- 85344 OTA, S. Autodigestion of the main proteolytically active component of the stem bromelain. *J. Biochem.* 63(4):494-500. Apr.1968. 385 J822
- 85345 OVODOVA, R. G., VASKOVSKY, V. E., and OVODOV, YU. S. The pectic substances of *Zosteraceae*. *Carbohydr. Res.* 6(3):328-332. Ref. Mar.1968. 385 C172
- 85346 OWENS, L. D., GUGGINHEIM, S., and HILTON, J. L. Rhizobium-synthesized phytotoxin: an inhibitor of beta-cystathionase in *Salmonella typhimurium*. *Biochim. Biophys. Acta* 158(2):219-225. Ref. May 14,1968. 381 B522
- 85347 PARKHURST, D. F., and others. Wind-tunnel modelling of convection of heat between air and broad leaves of plants. *Agr. Meteorol.* 5(1):33-47. Ref. Jan.1968. 340.8 Ag8  
P. R. Duncan, D. M. Gates, and F. Kreith, joint authors.
- 85348 PARSONS, R. F. Effect of age on root: shoot ratios in some herbaceous and woody plants—an appraisal. *Torrey Bot. Club. Bull.* 94(6):498-500. Nov./Dec.1967. 451 T63B
- 85349 PEDERSEN, M. *Ectocarpus fasciculatus*: marine brown alga requiring kinetin. *Nature* 218 (5143):776. May 25,1968. 472 N21
- 85350 PETERS, T. The biogenesis of proteins. In Bernfeld, P. Biogenesis of natural compounds, ed.2,p.477-536. 1967. QD415.B4 1967  
Review of the literature.  
Plants included.
- 85351 PILET, P. E., and DUBOIS, J. Variations in the level of acid-soluble sulfhydrylated compounds in tissue cultures. (Fr) *Physiol. Plant.* 21(2):445-454. Ref. 1968. 450 P564  
Nitrogen and thiols in carrot tissues.
- 85352 PRAKASH, N. Gametogenesis and seed development in *Hereroa hesperantha* (Dtr.) Dtr. et Schwant (Aizoaceae). *Australian J. Bot.* 15(3):425-435. Ref. Dec.1967. 450 Au72
- 85353 PRASAD, M., and CHAUDHARY, S. K. Effect of sulphur on sporulation of *Fusarium udum* Butler. *Indian Bot. Soc. J.* 46(1):45-51. Ref. 1967. 450 J821
- 85354 PRINGSHEIM, E. G. The concept "autotrophy" in plant nutrition. (Ge) *Z. Pflanzenphysiol.* 58 (4):347-352. Ref. Feb.1968. 450 Z32  
English summary.  
Applied to algae.
- 85355 PROVITA, J., SCHWARZ, V., and MARTINKOVA, J. Steroid derivatives. II. Formation of 5 beta-saturated steroid derivatives by the 11-hydroxylating fungus *Beauveria globulifera*. *Folia Microbiol.* 13(2):139-145. Ref. 1968. 448.3 C332

- 85356 RAJAGOPAL, R. Occurrence and metabolism of indoleacetylaldehyde in certain higher plant tissues under aseptical conditions. *Physiol. Plant.* 21(2):378-385. Ref. 1968. 450 P564  
Oat coleoptile and pea shoot tests for IAA, IAAld and tryptophol content.
- 85357 RAMACHANDRA ROW, L., and SANKARA ROA, C. Chemical examination of *Diospyros* species. VI. The triterpenes of the leaves of *D. sylvatica*—L. *Cur. Sci.* 37(4):104-105. Feb.20,1968. 475 Sci23
- 85358 RAMGASWAMI, S., and VENKATESWARLU, P. Crystalline chemical components of the leaves of *Rhododendron formosum* wall. *Cur. Sci.* 37(3):61-63. Feb.5,1968. 475 Sci23
- 85359 RAO, P. V. S., MOORE, K., and TOWERS, G. H. N. Degradation of aromatic amino acids by fungi. II. Purification and properties of phenylalanine ammonia lyase from *Ustilago hordei*. (Fr) *Can. J. Biochem.* 45(12):1863-1872. Ref. Dec.1967. 470 C16E
- 85360 RASCHKE, R. L. The algae in a milk-waste stabilization pond. *Iowa State J. Sci.* 42(4):325-333. Ref. May 1968. 470 I09
- 85361 REEVE, R. M. Histochemical differentiation between tyrosine and chlorogenic acid in plant tissues. I. Nitrous acid reactions and metal chelation of nitrosotyrosine. *J. Histochem. Cytochem.* 16(3):191-198. Ref. Mar.1968. 381 J8222
- 85362 REICHEL, L., and others. Chemistry and biochemistry of plant substances. XX-XXI. (Ge) *Justus Liebig's Ann. Chem.* 712:146-154. Ref. 1968. 384 An7  
K. Muller, L. Reichel, and W. Hampel, joint authors.  
XX, On the nitrification of 3',4'-dimethoxyflavanone and derivatives; XXI, On 1,4-dio-oxoisochroman.
- 85363 REIMANN, B. E. F., and VOLCANI, B. E. Studies on the biochemistry and fine structure of silica shell formation in diatoms. III. The structure of the cell wall of *Phaeodactylum tricornutum* Bohlin. *J. Ultrastruct. Res.* 21(3/4):182-193. Ref. Dec.12,1967. 440.8 J822
- 85364 REINERT, J. Morphogenesis in tissue, and cell culture media. (Ge) *Naturwissenschaften* 55(4):170-175. Ref. Apr.1968. 474 N213  
Plants.
- 85365 REINISOVA, J., and MICHALEC, C. Plant glycolipides and sphingolipids. (Cz) *Chem. Listy* 62(4):427-453. Ref. 1968. 385 C425
- 85366 RIED, A. Interactions between photosynthesis and respiration in *Chlorella*. I. Types of transients of oxygen exchange after short light exposures. *Biochim. Biophys. Acta* 153(3):653-663. Ref. Apr.2,1968. 381 B522
- 85367 RIGHELATO, R. C., and others. The influence of maintenance energy and growth rate on the metabolic activity, morphology and conidiation of *Penicillium chrysogenum*. *J. Gen. Microbiol.* 50(3):399-412. Ref. Mar.1968. 448.3 J823  
A. P. J. Trinci, S. J. Pirt, and A. Peat, joint authors.
- 85368 RODRICKS, J. V., and others. Aspertoxin, a hydroxy derivative of o-methylsterigmatocystin from aflatoxin-producing cultures of *Aspergillus flavus*. *Tetrahedron Lett.* 25:2975-2978. May 1968. 385 T29  
E. Lustig, A. D. Campbell, and L. Stoloff, joint authors.
- 85369 ROMO, J., and others. Franserin and confer-tin: new pseudoguaianolides isolated from *Franseria* and *Ambrosia* species. *Can. J. Chem.* 46(9):1535-1538. May 1,1968. 470 C16B  
A. R. Vivar de., A. Velez, and E. Ubrina, joint authors.  
Franseria ambrosioides and *Ambrosia confertiflora*.
- 85370 RONSCH, H., SCHREIBER, K., and STUBBE, H. Isolation of tomatidine from *Solanum dulcamara*. (Ge) *Naturwissenschaften* 55(4):182. Apr. 1968. 474 N213
- 85371 RUNOV, V. I., and SALIKHOVA, B. S. Change of fermentation activities in *Verticillium dahliae*, induced by alkaloids. (Rus) *Akad. Nauk Uzb. SSR. Dokl.* 9:53-54. 1967. 511 Uz1
- 85372 RÜSSEL, G. K., and GIBBS, M. Evidence for the participation of the reductive pentose phosphate cycle in photoreduction and the oxyhydro-gen reaction. *Plant Physiol.* 43(4):649-652. Ref. Apr.1968. 450 P692  
Tests with *Scenedesmus obliquus* and  $^{14}\text{C}$ -sodium bicarbonate.
- 85373 SAEBO, S. The autecology of *Rubus chamaemorus* L. I. Phosphorus economy of *Rubus chamaemorus* in an ombrotrophic mire. *Norges Landbrukshogsk. Meld.* 47(1),67 p. Ref. 1968. 104 N762M
- 85374 SATOMI, M., ARUGA, Y., and IWAMOTO, K. Effect of aging on the seasonal change in photo-synthetic activity of *Porphyra yezoensis* grown in the culture ground. *Jap. Soc. Sci. Fish. Bull.* 34(1):17-22. Ref. Jan.1968. 414.9 J274
- 85375 SATTTLER, R. A technique for the study of floral development. *Can. J. Bot.* 46(5):720-722. Ref. May 1968. 470 C16C
- 85376 SAUER, H. H., BENNETT, R. D., and HEFT-MANN, E. Pregnenolone metabolism in *Digitalis lanata*. *Phytochemistry* 6(11):1521-1526. Nov.1967. 450 P5622  
Study with radioactive carbon.
- 85377 SCHIFF, J. A., and LEVINTHAL, M. Studies of sulfate utilization by algae. 4. Properties of a cell-free sulfate-reducing system from *Chlorella* [pyrenoidosa]. *Plant Physiol.* 43(4):547-554. Ref. Apr.1968. 450 P692
- 85378 SCHOLZ, A., and HAUPT, W. Light oriented chloroplasts movement in the green alga, *Hor-midium flaccidum*. (Ge) *Naturwissenschaften* 55(4):186-187. Apr.1968. 474 N213
- 85379 SCHONBECK, F. Study on the significance of inhibitors in soils. I. (Ge) *Z. Pflanzenkr. (Pflanzenpathol.) Pflanzenschutz* 75(4):193-213. Apr.1968. 464.8 Z3  
English summary.  
Inhibitory effects of mustard oil, saponins, and toxins on plants.
- 85380 SCHREIBER, R. The most important chemical-physical regularities and the significance and effects of organic and anorganic food substances in plant- and animal nutrition. (Ge) *Tier-arzt. Umsch.* 23(5):231-232,234-239. (Concl.) May 1,1968. 41.8 T445
- 85381 SCHUTTE, H. R., and SEELIG, G. Biosynthe-sis of multiflorine in *Lupinus digitatus*. (Ge) *Justus Liebig's Ann. Chem.* 711:221-226. Mar. 1968. 384 An7
- 85382 SCHWENK, P., and BARTH, A. On amino acid-(phenylazo)-phenyl-derivatives. XVI. (Ge) *Biol. Zentralbl.* 86(6):707-713. Ref. Nov./Dec. 1967. 442.8 B523  
English summary.  
Proteolytic enzymes in plants.
- 85383 SCULTHORPE, C. D. The biology of aquatic vascular plants. New York, St. Martin's Press, 1967. 610 p.,map. QK931.S3  
Bibliography, p.523-580.  
Includes aquatic weeds and their chemical control.
- 85384 SEBANEK, J. On the research methods of plant growth correlations. (Cz) *Biologia [Bra-tislava]* 23(4):328-333. 1968. 442.8 B5265
- 85385 SEHGAL, S. N., SINGH, K., and VEZINA, C. 11 alpha-Hydroxylation of steroids by spores of *Aspergillus ochraceus*. *Can. J. Microbiol.* 14(5):529-532. Ref. May 1968. 448.8 C162
- 85386 SENSER, M., and KANDLER, O. Appearance and distribution of galactinol in leaves of higher plants. (Ge) *Phytochemistry* 6(11):1533-1540. Ref. Nov.1967. 450 P5622  
English summary.  
*Lamium maculatum*.
- 85387 SHIEH, H. S., and BLACKWOOD, A. C. Con- version of  $\alpha$ -coumaric acid to 4-hydroxycouma-rin by *Fusarium* sp. (Fr) *Can. J. Biochem.* 45(12):2045-2046. Dec.1967. 470 C16E



- 85388 SHUKHTINA, G. G., and YAZKULYEV, A. Artificial heat hardening of plant cells with different initial levels of their heat resistance. (Rus) Tsitologiya 10(1):88-94. Jan.1968. 442.8 T78  
English summary.  
Catalpa speciosa, Arundo donax, and Aristida karelini.
- 85389 SILVA, M., MEDINA, M. V., and SAMMES, P. G. Alkaloids of Sophora macrocarpa. Phytochemistry 7(4):661-663. Apr.1968. 450 P5622
- 85390 SLAVIK, J., SLAVIKOVA, L., and HÁISOVA, K. Alkaloids of Papaveraceae. XXXVI. Another alkaloid from the species Eschscholtzia douglasii (Hook. et Carn.) Walp. and E. glauca Greene and on the composition of californidin. (Ge) Collect. Czech. Chem. Commun. 32(12):4420-4438. Dec.1967. 385 C68
- 85391 SLAVIKOVA, L. Alkaloids of the poppy family (Papaveraceae). XXXIX. Further alkaloids from Glaucium elegans Fisch. et Mey. Collect. Czech. Chem. Commun. 33(2):635-641. Ref. Feb.1968. 385 C68
- 85392 SMITH, D. G., and MARCHANT, R. Chloramphenicol inhibition of Pythium ultimum and Rhodotorula glutinis. Arch. Mikrobiol. 60(3):262-274. Ref. 1968. 442.8 Ar26
- 85393 SODERGREN, A. Uptake and accumulation of C<sup>14</sup>-DDT by Chlorella (Chlorophyceae). Oikos 19(1):126-138. Ref. 1968. 410 Oi4
- 85394 SPITELLER-FRIEDMANN, M., and SPITELLER, G. Use of mass spectrometry for clarification of the structure of alkaloids. IX. Alkaloids from Strychnos henningsii Gilg. (Ge) Justus Liebigs Ann. Chem. 712:179-194. Ref. 1968. 384 An7
- 85395 SPRINGER-LEDERER, H., and ROSENFELD, D. Energy sources for the absorption of rubidium in Chlorella [pyrenoidosa]. Physiol. Plant. 21(2):435-444. Ref. 1968. 450 P564  
A study of phosphorylation and respiration.
- 85396 SRIVASTAVA, P. C., and SRIVASTAVA, J. P. Precocious germination of spores in Haplocladium subulaceum (Mitt.) Broth. and Forstroemia inclusa Card. and Dix. Cur. Sci. 37(6):175-176. Mar.20,1968. 475 Sci23
- 85397 STEINEGGER, E., MOSE, C., and WEBER, P. Structure of the new alkaloid, hystrin from Genista hystrix Lge. XV. (Ge) Phytochem. 7(5):849-853. May 1968. 450 P5622  
English summary.
- 85398 STRANSKY, K., STREIBL, M., and SORM, F. On natural waxes. VII. Scenedesmus quadricauda (Turp.) Breb. Collect. Czech. Chem. Commun. 33(2):416-424. Ref. Feb.1968. 385 C68
- 85399 STROGOV, V. P., KOMIZERKO, E. I., and BUTENKO, R. G. Introduction into tissue culture of Salicornia herbacea, Sorghum vulgare, Melilotus albus, Brassica oleracea as objects of comparative investigation to salt resistance. (Rus) Fiziol. Rast. 15(2):203-208. Mar./Apr. 1968. 450 F58  
English summary.
- 85400 STROTMANN, H. Studies on light-dependent nitrite reduction in Chlorella [fusca]. (Ge) (Condensed.) Planta 77(1):32-48. Ref. 1967. 450 P693  
English summary.
- 85401 THIAM, M. L. Dissolution of copper by an Aspergillus. (Fr) Inst. Pasteur. Ann. 114(4):468-473. Ref. Apr.1968. 448.3 An75  
English summary.
- 85402 THOMPSON, P. A. Germination of Caryophyllaceae at low temperatures in relation to geographical distribution. Nature 217(5134):1156-1157. Mar.23,1968. 472 N21
- 85403 THORNTON, D. R., and FOX, M. H. The free amino acid pools of two aquatic hyphomycetes. Experientia 24(4):393-394. Ref. Apr.15,1968. 475 Ex7  
Heliscus submersus and Tetracladium setigerum.
- 85404 THURLING, N. Population differentiation in Australian Cardamine. IV. Variation in flowering response. Australian J. Bot. 15(3):459-466. Ref. Dec.1967. 450 Au72
- 85405 TOLLIN, G. On what is the phototaxis of some algae base? (Ge) Umschau 68(8):250. Apr.11, 1968. 474 Um7  
Euglena gracilis.
- 85406 TREGUNNA, E. B., and DOWNTON, J. Carbon dioxide compensation in members of the Amaranthaceae and some related families. Can. J. Bot. 45(12):2385-2387. Dec.1967. 470 C16C  
Chenopodiaceae and Portulacaceae.
- 85407 TSCHESCHE, R., and LAST, H. Alkaloids from Rhamnaceae. V. Franganin and frangulin, two further peptide alkaloids. Tetrahedron Lett. 25:2993-2998. Ref. May 1968. 385 T29.
- 85408 TURLIER, M. F. Observations on the early foliar organogenesis of an Araceae, Scindapsus argyrea Engl. (Fr) Acad. Sci. C. R., Ser. D, 266(20):2067-2070. May 13,1968. 505 P21
- 85409 ULUBEKOVA, M. V., and others. The importance of catalase in chloroplasts. (Rus) Fisiol. Rast. 15(2):267-271. Ref. Mar./Apr.1968. 450 F58  
N. I. Shutilova, T. I. Kashkarova, and V. M. Kuturyn, joint authors.  
English summary  
Cells of Chlorella pyrenoidosa and chloroplasts of Trifolium repens used for determination of the role of catalase in photosynthesis.
- 85410 VALLEE, M. System of the transport of sulfate ion (SO<sub>4</sub><sup>2-</sup>) in Chlorella pyrenoidosa and its regulation; K<sub>M</sub> variations of velocity during sulfate deficiency. Acad. Sci. C. R., Ser. D, 17(266):1767-1768. Apr.22,1968. 505 P21
- 85411 VARM, M. M., and DICIANO, F. Kinetics of oxygen uptake by dead algae. J. Water Pollut. Contr. Fed. 40(4):613-626. Ref. Apr.1968. 293.8 Se8  
Includes discussion of photosynthesis.
- 85412 VASEK, F. C. The relationships of two ecologically marginal, sympatric Clarkia populations. Amer. Nautr. 102(923):25-40. Ref. Jan./Feb. 1968. 470 Am36  
Physiological, cytological and genetical study.
- 85413 VERNON, L. P., and BOTTOMS, J. R. Current literature survey of photosynthesis. XIII. Photochem. Photobiol. 7(4):403-411. Apr.1968. 382 P56
- 85414 VOLFOVA, O., MUNK, V., and DOSTALEK, M. Loss of the ability to oxidize hydrocarbons in protoplasts of Candida lipolytica. Experimentia 23(12):1005-1006. Dec.15,1967. 475 Ex7
- 85415 VOLK, S. L., and PHINNEY, H. K. Mineral requirements for the growth of Anabaena spiroides in vitro. Can. J. Bot. 46(5):619-630. Ref. May 1968. 470 C16C
- 85416 VOLLENWEIDER, R. A. Eutrophication of waters by phosphorus. (It) Riv. Ital. Sostanze Grasse 45(2):99-107. Feb.1968. 307.8 OL3  
English summary.  
Includes effects on algae of leached agricultural phosphorus.
- 85417 VOROBIEV, L. N. Potassium ion activity in the cytoplasm and the vacuole of cells of Chara and Griffithsia. Nature 216(5122):1325-1327. Dec.30,1967. 472 N21
- 85418 WADA, K. Studies on the flower initiation in Pharbitis seedlings, with special reference to the early stimulation of cell division at the flower-induced shoot apex. Bot. Mag. Tokyo 81(955):46-47. Jan.1968. 450 B651  
Pharbitis nil; includes effects of light.
- 85419 WALKER, J. M., and WAYGOOD, E. R. Ecology of Phragmites communis. I. Photosynthesis of a single shoot in situ. Can. J. Bot. 46(5):549-555. Ref. May 1968. 470 C16C
- 85420 WARDLAW, I. F. The control and pattern of movement of carbohydrates in plants. Bot. Rev. 34(1):79-105. Jan./Mar.1968. 450 B6527  
Review of the literature.

- 85421 WEEDEN, R. B. Dates of first flowers of Alpine plants at Eagle Creek, central Alaska. *Can. Field-Natur.* 82(1):24-31. Jan.-Mar.1968. 410.9 Ot8
- 85422 WEIMBERG, R. An electrophoretic analysis of the isozymes of malate dehydrogenase in several different plants. *Plant Physiol.* 43(4): 622-628. Ref. Apr.1968. 450 P692
- 85423 WHALLEY, W. B. The biosynthesis of fungal metabolites. In Bernfeld, P. Biogenesis of natural compounds, ed.2, p.1025-1063. 1967. QD415.B4 1967  
Review of the literature.
- 85424 WHITTON, B. A. Effect of light on toxicity of various substances to *Anacystis nidulans*. *Plant Cell Physiol.* 9(1):23-26. Ref. Mar. 1968. 450 P699
- 85425 WIERINGA, K. T. A new method for obtaining bacteria-free cultures of blue-green algae. Antonie van Leeuwenhoek J. Microbiol. Serol. 34(1):54-56. 1968. 44.8 N28A
- 85426 WILCOXSON, R. D., and SUDIA, T. W. Translocation in fungi. *Bot. Rev.* 34(1):32-50. Ref. Jan./Mar.1968. 450 B6527
- 85427 WILD, A., and EGLE, K. The magnitude of photosynthetic unit in the normal green plants and in the mutants poor in chlorophyll. (Ge) *Beitr. Biol. Pflanzen* 43(3):455-488. Ref. 1967. 450 C66  
*Antirrhinum majus* and *Chlorella pyrenoidosa*.
- 85428 WILLIAMS, A. H. Phenolic compounds of *Smilax glycyphylla*. *Phytochemistry* 6(11):1583-1584. Nov.1967. 450 P5622
- 85429 WIT, C. T. DE. Simulation of continuous processes. (Du) *Landbouwkundig Tijdschr.* 80(5): 215-218. May 1968. 105.2 Or3  
English summary.  
Plant growth examples.
- 85430 WOODCOCK, C. L. F., and BELL, P. R. The distribution of deoxyribonucleic acid in the female gametophyte of *Myosurus minimus*. *Histochemie* 12(4):289-301. 1968. 384 H622
- 85431 WOLTERS, B. The antibiotic activity of neutral steroid glycosides of and without saponin character. (Ge) *Planta Med.* 16(1):114-119. Ref. Feb.1968. 450 P697  
English summary.  
Effects on fungi.
- 85432 WRIGHT, B. E., and DAHLBERG, D. Stability in vitro of uridine diphosphoglucose pyrophosphorylase in *Dictyostelium discoideum*. *J. Bacteriol.* 95(3):983-985. Mar.1968. 448.3 J82
- 85433 ZAKREVSKII, D. A. Carbon dioxide assimilated by leaves of higher plants when illuminated by monochromatic red light. (Rus) *Akad. Nauk SSSR. Dokl.* 177(6):1482-1484. Ref. Dec.21,1967. 511 P444A  
*Tradescantia fluminensis* and *Nymphaea candida*.
- 85434 ZARETSKII, V. I., and others. Mass spectrometry of gibberellins. II. *Tetrahedron* 24(5): 2327-2337. Mar.1968. 382 T29  
N. S. Wulfson, I. B. Papernaja, I. A. Gurvich, V. F. Kucherov, I. M. Milstein, E. P. Serebryakov, and A. V. Simolin, joint authors.
- Physiology and Biochemistry of Field Crops
- 85435 BOLDYREV, N. K. Foliar diagnosis as factor of determining nutritional conditions and the yields of agricultural plants. (Rus) *Fisiol. Rast.* 15(2):368-379. Ref. Mar./Apr.1968. 450 F58  
English summary.
- 85436 CARPENTER, P. N., and others. A critical evaluation of results from spectrographic analysis of plant tissue. *Maine. Agr. Exp. Sta. Tech. Bull.* T30, 12 p. Feb.1968. 100 M28B  
A. Ellis, H. E. Young, and T. E. Byther, joint authors.  
Field crops and tomatoes.
- 85437 JAMES, E., BASS, L. N., and CLARK, D. C. Effect of variable and constant storage temperatures and subsequent room storage on the viability of certain seeds. *Crop Sci.* 7(5):495-496. Sept./Oct.1967. 64.8 C883  
--  
Field crops.
- 85438 LONERAGAN, J. F., GLADSTONES, J. S., and SIMMONS, W. J. Mineral elements in temperate crop and pasture plants. II. Calcium. *Austral. J. Agr. Res.* 19(3):353-364. Ref. May 1968. 23 Au783
- 85439 MISHRA, D., and MISRA, B. Effect of growth regulating chemicals on degradation of chlorophyll and starch in detached leaves of crop plants. *Z. Pflanzenphysiol.* 58(3):209-211. Ref. Jan.1968. 450 Z32  
Rice, cowpeas and peanuts.
- 85440 MORGAN, P. W. Plant growth control with ethylene by speeding up the natural production. *Tex. Agr. Progr.* 14(2):4-5. Spring 1968. 100 T31Te  
Field crops, citrus fruit, and nuts.
- 85441 SCHUBKEGEL, M. G. Rainfall eases tension over Argentine drought. *Foreign Agr.* 6(26):8. June 24,1968. A281.9 F76Fo  
Effects on grain, forage plants, and cattle.
- 85442 THUN, R. Effect of lime, magnesia lime, and magnesium sulphate fertilization on the uptake and efficiency of various phosphate fertilizers. 32 p. (TT 63-18117) *Transl.* 15966  
Chiefly field crops.  
Translation from *Bodenkunde und Pflanzenernahrung* 30:137-156. n.d.  
Issued by CFSTI.
- 85443 VOIGTLANDER, G. Influence of weather and soil on yields in a site comparison. II. Research years 1962-1964. (Ge) *Z. Acker-Pflanzenbau* 127(3):207-242. Apr.1968. 18 J825  
English summary.  
Field crops.
- 85444 ZEZYULINSKII, V. M., and GRECHANOVSKAYA, T. M. Inhibition and stimulation of plants exposed to acute gamma rays at different periods of ontogenesis. (Rus) *Vestnik Sel'skokhoz. Nauk. [Moscow]* 2:69-71. Ref. Feb.1968. 20 V633  
English summary.  
Barley, sunflowers and broadbeans.
- Physiology and Biochemistry - Cereals
- 85445 AHMAD, M. S., SHAD, S.-UD-D., and ASLAM, M. Correlation of yield with its components, date of heading and protein content in wheat. *West Pakistan J. Agr. Res.* 6(1):11-15. Ref. Mar.1968. 22 W52
- 85446 APEL, P. The potential photosynthetic intensity of barley varieties from Gatersleben assortment. (Ge) *Kulturpflanze* 15:161-174. Ref. 1967. 450 K95  
English summary.
- 85447 BAGGER, O. On chlorosis and some pests of grain. (Da) *Landbonyt* 22(5):209-211, 213-214. May 1968. 11 L2322  
Chlorosis caused by manganese deficiency.
- 85448 BALLA, L. Developmental physiological problems of the production of high-yielding, winter-hardy wheat varieties having a short growing season. *Acta Agron. [Budapest]* 17(1/2): 131-138. Ref. 1968. 19 Ac8  
Light effects, chiefly.
- 85449 BALUCH, M. A. A., SOOMRO, S. K., and CHANDIO, D. B. Use of plant hormones for increased agricultural production and weed control. II. Effect of "Cycocel"-a plant growth regulant, on C-591 a commercial variety of wheat for Hyderabad region. *West Pakistan J. Agr. Res.* 5(4):53-58. Dec.1967. 22 W52
- 85450 BASER, B. L., and DEO, R. Effect of superphosphate on the uptake of micronutrients by sorghum (jowar) and maize plants. *Indian Soc. Soil Sci. J.* 15(4):245-249. Dec.1967. 56.9 In2



- 85451 BELOZERSKII, M. A., VIKTOROVA, L. N., and SHPIKTER, V. O. Isolation and study of the quaternary structure of 13S buckwheat seed globulin. (Rus) *Biokhimiya* 33(1):97-101. Jan./Feb.1968. 385 B523  
English summary.
- 85452 BEST, S. M., and HULLETT, E. W. The equilibrium moisture relations of New Zealand wheat. *New Zeal. J. Sci.* 11(1):97-104. Ref. Mar.1968. 514 N482
- 85453 BJORN, L. O. The effect of blue and red light on NADP-linked glyceraldehydephosphate dehydrogenases in excised roots. *Physiol. Plant.* 20(3):519-527. Ref. 1967. 450 P564  
Wheat, corn, and peas.
- 85454 BLAIM, K., and SZYNAL, J. Influence of (2-chloroethyl)-trimethyl-ammonium chloride (CCC) on the content and distribution of calcium in wheat stalks during growth. *Acad. Polon. Sci. Bull. Ser. Sci. Biol.* 16(2):63-65. Ref. 1968. 512 W262
- 85455 BUHL, C. Partial sterility in summer barley. (Ge) *Z. Pflanzenkr. (Pflanzenpathol.) Pflanzenschutz* 75(4):224-227. Apr.1968. 464.8 Z3  
English summary.
- 85456 BUZINOV, P. A., and AGARKOVA, N. T. Effect of nitrogenous fertilizers on the quality of winter wheat. (Rus) *Vestnik Sel'skokhoz. Nauk. [Moscow]* 3:99-101. Ref. Mar.1968. 20 V633  
English summary.
- 85457 CHASE, S. S., and NANDA, D. K. Number of leaves and maturity classification in Zea mays L. *Crop Sci.* 7(5):431-432. Sept./Oct.1967. 64.8 C883  
- Tests with hybrids. --
- 85458 CHOPYAK, A. M., BUDNITSKAYA, E. V., and STOLETOV, V. N. Nucleic acid metabolism in ontogenesis of normal and gamma irradiated barley. (Rus) *Biokhimiya* 33(1):25-28. Ref. Jan./Feb.1968. 385 B523  
English summary.
- 85459 CHUIKOV, A. G., and SKAZKIN, F. D. Effect of water deficiency in soil at a critical period on the state of cell plasm in vegetative and generative organs of spring cereals. (Rus) *Akad. Nauk SSSR. Dokl.* 178(5):1208-1211. Ref. 1968. 511 P444A  
Barley and oats.
- 85460 CLARK, L. E., COLLIER, J. W., and LANGSTON, R. Dormancy in Sorghum bicolor (L.) Moench. I. Relationship to seed development. *Crop Sci.* 7(5):497-501. Ref. Sept./Oct.1967. 64.8 C883
- 85461 CLELAND, R., and OLSON, A. C. Direct incorporation of hydroxyproline into Avena coleoptile proteins. *Biochemistry* 7(5):1745-1751. May 1968. 381 B223  
Oats.
- 85462 CUNARD, A. C. Maize agronomy. 4. Other factors. *World Crops* 19(6):45-56. Dec.1967. 281.8 W892  
Review of the literature.
- 85463 DEL ROSARIO, A. R., and others. Composition and endosperm structure of developing and mature rice kernel. *Cereal Chem.* 45(3):225-235. Ref. May 1968. 59.8 C33  
V. P. Briones, A. J. Vidal, and B. O. Juliano, joint authors.
- 85464 DEZSI, L., and FARKAS, G. L. Effect of kine-tin on the level of reducing sugars in barley leaves. *Acta Biol. [Budapest]* 19(1):43-48. Ref. 1968. 475 Ac85
- 85465 DUDA, M. The effect of the interruption of full photoperiodism on the growth and development of Avena sativa L. and Sinapis alba L. (Ge) *Biologia [Bratislava]* 23(1):66-81. Ref. 1968. 442.8 B5265
- 85466 EVANS, E. J., MACK, A. R., and DEKKER, A. J. Influence of temperature on the availability of iron to an oat crop. *Can. J. Soil Sci.* 48 (2):185-192. Ref. June 1968. 56.8 C162
- 85467 FREAR, D. S., and STILL, G. G. The metabolism of 3,4-dichloropropionanilide in plants: Partial purification and properties of an aryl acylamidase from rice. *Phytochemistry* 7(6): 913-920. Ref. June 1968. 450 P5622
- 85468 FRIC, F., and FRICOVA, L. Determination of enzymes of shikimic acid dehydrogenase (reductase of 5-dehydroshikimic acids) and of specific diaphorases of nicotinamide adenine dinucleotide and nicotinamide adenine dinucleotide phosphate in their electrophoretic division on polyacrylamide gel. (Ge) *Biologia [Bratislava]* 23(4):289-292. 1968. 442.8 B5265  
Barley.
- 85469 GORBAN', I. S. Effect of indole-3-acetic acid and maleic hydrazide on the elongation and heat resistance of wheat coleoptiles. (Rus) *Tsitologiya* 10(1):76-87. Ref. Jan.1968. 442.8 T78  
English summary.
- 85470 GORDON, L. K., and BICHURINA, A. A. Certain peculiarities of the pentose phosphate mode of respiration in plants. (Rus) *Akad. Nauk SSSR. Dokl.* 179:476-478. Ref. 1968. 511 P444A  
Corn and wheat.
- 85471 GRAHL, A. Dormancy in grain: influence of ripening temperature, stratification, and germination temperature. (Ge) *Arb. Getreideforsch. Ber. Getreidechem.-Tag.* 1967:233-244. Ref., p.243-244. 389.9 Ar1
- 85472 HACKETT, C. A study of the root system of barley. I. Effects of nutrition on two varieties. *New Phytol.* 67(2):287-299. Ref. Apr.1968. 450 N42
- 85473 HOHN, K., and OBENAUER, K. The guttation of Avena sativa in function of the succinic dehydrogenase and protein biosynthesis during the oxidation period of respiration. (Ge) *Beitr. Biol. Pflanzen* 43(3):329-355. Ref. 1967. 450 C66
- 85474 HORVATH, M., and KLINDA, L. Separation of proteins in barley leaves. *Acta Agron. [Budapest]* 17(1/2):261-264. 1968. 19 Ac8
- 85475 HSIAO, T. C., SEGEL, W., and TANG, C. L. Apparent aggregation of 28-S ribosomal RNA of Zea mays. *Biochim. Biophys. Acta* 157(3): 640-643. May 21, 1968. 381 B522
- 85476 HUMPHRIES, E. C. CCC and cereals. *Field Crop Abs.* 21(2):91-99. May 1968. 241 C73  
Review of the literature.
- 85477 IGARASHI, O., NOGUCHI, M., and FUJIMAKI, M. Studies on the non-starchy polysaccharides of the endosperm of naked barley. *V. Agr. Biol. Chem.* 32(3):272-278. Mar.1968. 385 Ag8B
- 85478 INOUE, J., and ITO, K. Flower initiation in total darkness in long-day plant, *Hordeum vulgare* L. var. nudum Hook. f. *Plant Cell Physiol.* 9(1):137-142. Ref. Mar.1968. 450 P699
- 85479 JOHNSON, A. Relationships between photo-induced and gravity-induced electrical potentials in Zea mays. *Physiol. Plant.* 20(3):562-579. Ref. 1967. 450 P564
- 85480 JUDEL, G. K., and KURTEN, P. W. The effect of winter and spring rains on nitrogen supply and yields of winter rye. (Ge) *Z. Acker-Pflanz.* 127(4):303-316. Ref. May 1968. 18 J825  
English summary.
- 85481 KAUFMAN, P. B., GHOSHEH, N., and IKUMA, H. Promotion of growth and invertase activity by gibberellic acid in developing Avena [sativa] internodes. *Plant Physiol.* 43(1):29-34. Ref. Jan.1968. 450 P692
- 85482 KHAN, A. A., and FAUST, M. A. Effect of growth retardants on  $\alpha$ -amylase production in germinating barley seed. *Physiol. Plant.* 20(3): 673-681. Ref. 1967. 450 P564
- 85483 KINDLMANN, J. Biological control of the nutrition of grains. (Cz) *Agrochemia [Bratislava]* 8(2):43-45. 1968. 385 Ag88  
English summary.  
By means of transpiration.
- 85484 KLIMASHEVSKII, E. L., ZHURAVLEV, YU. N., and POPOVA, Z. S. Physiological analysis of genetically heterogenous varieties of Zea mays L. unequally resistant to increased acidity of medium. (Rus) *Fiziol. Rast.* 15(2):343-351. Ref. Mar./Apr.1968. 450 F58  
English summary.

- 85485 KOLP, B. J., and others. Relation of coleoptile structure to coleoptile strength and seedling emergence under compacted soil conditions in six varieties of winter wheat. *Crop Sci.* 7(5): 413-417. Sept./Oct.1967. 64.8 C883  
D. G. Miller, G. A. Pratt, and S. J. Hwang, joint authors.
- 85486 KORCHAGINA, O. A. Metabolism of oligosaccharide in leaves of various tiers of spring wheat, cultivated under fixed conditions. (Rus) *Fisiol. Rast.* 15(2):308-316. Ref. Mar./Apr. 1968. 450 F58  
English summary.
- 85487 KRASNOOK, N. P., and TUR, N. S. Effect of salinization on activity of structural elements of rice cells. (Rus) *Fiziol. Rast.* 15(2):366-367. Mar./Apr.1968. 450 F58
- 85488 KRENKE, A. N. Changes in respiration rate and in the content of phosphorus compounds during maturation of seeds. 19 p. Ref. (TT 67-51271) Transl. 16794  
Cereals and broadbeans.  
Translation from Moscow. *Glavnyi Botanicheskii Sad. Trudy* 8:97-112. 1961.  
Issued by CFSTI.
- 85489 LE-AN-NINH. Effects of climate on 1967 summer rice in Thai Binh. Joint Publ. Res. Serv. Transl. N. Vietnam 363:37-40. May 10,1968. (JPRS 45,318) DS557.A7J6  
Translation from Khoa Hoc Ky Thuat Nong Nghiep, Dec.1967:467-469.  
Issued by CFSTI.
- 85490 LINSER, H., and BOHRING, J. Uptake of CCC and persistence of CCC-residues in the wheat plant. (Ge) *Z. Acker- Pflanz.* 127(4):287-302. May 1968. 18 J825  
English summary.
- 85491 MAASE, E. V., MOORE, D. P., and MASON, B. J. Manganese absorption by excised barley roots. *Plant Physiol.* 43(4):527-530. Ref. Apr. 1968. 450 P692
- 85492 MACLEOD, A. M., and PALMER, G. H. Gibberellin from barley embryos. *Nature* 216 (5122):1342-1343. Dec.30,1967. 472 N21
- 85493 MATSUSHIMA, S., and others. Analysis of yield-determination process and its application to yield-prediction and culture improvement of lowland rice. 77. Relation between nitrogen content and starch content in rice plants, with special reference to a critical evaluation of the diagnosis by iodine reaction on nitrogen requirement at the panicle initiation stage. (Ja) *Crop Sci. Soc. Japan. Proc.* 36(2):248-254. Ref. June 1967. 22.5 C88  
G. Wada, A. Matsuzaki, and M. Yamaura, joint authors.  
English summary.  
Includes varieties and transplanting.
- 85494 MATUKHIN, G. R., ZHUKOVSKAYA, N. V., and GOMZHINA, S. I. Effect of salinization on accumulation of free nucleotides in barley. (Rus) *Fisiol. Rast.* 15(2):197-202. Ref. Mar./Apr. 1968. 450 F58  
English summary.  
Chlorides and sulfates.
- 85495 MCCONNEL, W. B., and MAZUREK, M. The transport of carbon in wheat plants. (Fr) *Can. J. Biochem.* 45(12):1853-1861. Ref. Dec.1967. 470 C16E
- 85496 MOISEICHIK, V. Overwintering of wheat and rye. (Rus) *Zemledelie* 3:6-13. Mar.1968. 20 Z44
- 85497 MOSOLOV, I. V., and LYSENKO, V. F. Effect of different form of nitrogen fertilizers upon metabolism and yield of corn. (Rus) *Khim. Sel'skom Khoz.* 6(4):7-9. Apr.1968. 385 K524
- 85498 MUKHERJI, S., DEV, B., and SIRCAR, S. M. Changes in nicotinic acid content and its nucleotide derivatives of rice and wheat seeds during germination. *Physiol. Plant.* 21(2):360-368. Ref. 1968. 450 P564
- 85499 MURAKAMI, Y. A new rice seedling test for gibberellins, "microdrop method," and its use for testing extracts of rice and morning glory. (Ja) *Bot. Mag. Tokyo* 81(955):33-43. Ref. Jan. 1968. 450 B651  
English summary.  
Ipomoea nil.
- 85500 NORRINGTON-DAVIES, J. Application of diallel analysis to experiments in plant competition. *Euphytica* 16(3):391-406. Dec.1967. 450 Eu6  
Tests with barley.
- 85501 NUTILE, G. E., and WOODSTOCK, L. W. The influence of dormancy-inducing desiccation treatments on the respiration and germination of sorghum. *Physiol. Plant.* 20(3):554-561. 1967. 450 P564
- 85502 ORLYUK, A. P. Formation of ears and productivity of the winter wheat sex hybrids. (Rus) *Vestnik Sel'skokhoz. Nauk.* [Moscow] 2:43-45. Ref. Feb.1968. 20 V633  
English summary.
- 85503 PALFI, G. The "blue test" marking the amino acid and protein metabolism deviating from normal in rice. (Hu) *Novenytermeles* 1:91-99. Ref. Mar.1968. 64.8 N76  
English summary.
- 85504 PAPP, E. Development and germination of the grains of winter barleys as affected by meteorological factors. *Acta Agron.* [Budapest] 17: (1/2):161-170. 1968. 19 Ac8
- 85505 PAVEL, I., ZHAKOVA, I., and TESARZHOVA, L. Change of thiamine and riboflavin content in hydroponic cultures of barley, after application of beta-indoleacetic and gibberellic acids. (Rus) *Fisiol. Rast.* 15(2):246-251. Mar./Apr. 1968. 450 F58  
English summary.
- 85506 PEARCE, R. B., BROWN, R. H., and BLASER, R. E. Net photosynthesis of barley seedlings as influenced by leaf area index. *Crop Sci.* 7 (5):545-546. Ref. Sept./Oct.1967. 64.8 C883
- 85507 PEISKER, M. On the increase of sensitivity to the radiation by the oxygen in dormant seeds. (Ge) *Kulturpflanze* 15:97-104. 1967. 450 K95  
English summary.  
Barley.
- 85508 PITMAN, M. G. Conflicting measurements of sodium and potassium uptake by barley roots. *Nature* 216(5122):1343-1344. Dec.30,1967. 472 N21
- 85509 POSKUTA, J. Photosynthesis and respiration. II. Effect of 3-(3,4-dichlorophenyl)-1,1-dimethylurea and of partial pressure of oxygen on the rates of carbon dioxide exchange in light and in darkness of detached wheat leaves. *Experientia* 24(4):344-345. Apr.15,1968. 475 Ex7
- 85510 PRIMOST, E. The influence of nitrogen fertilizing on the individual factors of baking quality of winter wheat. (Ge) *Mullerei* 21(18):255-256. (Cont.) May 4,1968. 298.8 M91
- 85511 PRIMOST, E. The influence of nitrogen fertilizing on the individual factors of winter wheat baking quality. I. (Ge) *Mullerei* 21(17):237-239. Apr.27,1968. 298.8 M91
- 85512 PRIMOST, E. The influence of nitrogen fertilizing on the individual factors of winter wheat baking quality. III. (Ge) *Mullerei* 21(19):271-272. May 11,1968. 298.8 M91
- 85513 RAKHIMBAEV, I. Carotenoids in proso. (Rus) *Akad. Nauk Kaz. SSR. Izv. Ser. Biol. Nauk* 6: 51-53. Ref. Nov./Dec.1967. 442.8 AL6
- 85514 ROLAND, M. Fertilizing with nitrogen and the course of ripening of cereal crops. (Sw) *Vaxt-Naring-Nytt* 1:5-8. 1968. 57.8 V47  
English summary, p.1-2.
- 85515 ROTH, K. The development of wheat from <sup>14</sup>C-labelled seeds and the fate of seed carbon. (Ge) *Getreide Mehl* 17:142-144. Ref. Dec.1967. 298.8 G332
- 85516 ROVIRA, A. D., and BOWEN, G. D. Anion uptake by the apical region of seminal wheat roots. *Nature* 218(5142):685-686. May 18,1968. 472 N21



- 85517 SAHU, B. N., and LENKA, D. Nutrition of rice crop by soil and foliar application of urea. India J. Agr. Sci. 37(6):437-444. Ref. Dec.1967. 22 Ag831
- 85518 SAMUILOV, F. D., and GORDON, L. K. The alteration of respiration metabolism in plants in the case of disturbance of phosphorous nutrition. (Rus) Akad. Nauk SSSR. Dokl. 179:228-230. Ref. 1968. 511 P444A  
Corn.
- 85519 SANDMEIER, M. Photobiology of the oat mesocotyl. IV. (Fr) Photochem. Photobiol. 7(4):391-401. Ref. Apr.1968. 382 P56  
English summary.
- 85520 SCHEFFER, F., KICKUTH, R., and SAOLAPURKAR, V. K. Mineral nutrition and metabolic processes in young plants. I. Effects of manganese nutrition on the levels of  $\alpha$ -keto acids in oats (*Avena sativa*) and wheat (*Triticum sativum*). Indian Soc. Soil Sci. J. 15(4):209-215. Ref. Dec.1967. 56.9 In2
- 85521 SCHRANK, A. R. Growth and geotropic responses of *Avena* [sativa] coleoptiles to 4-amino 3,5,6-trichloropicolinic acid. Physiol. Plant. 21(2):314-322. Ref. 1968. 450 P564
- 85522 SCHUSTER, W. The variability within wheat and rye crops of individual plant characteristics under different growth conditions. (Ge) Z. Acker- Pflanzenbau 127(2):131-148. Ref. p.146-148. Feb.1968. 18 J825  
English summary.
- 85523 SELIM, M. S., and others. Protein-nitrogen in tops of Neubauer barley seedlings as a measure of available soil nitrogen. 7(2):71-82. 1967. 56.8 J825  
M. A. Ali, T. El-Leithy, and H. A. El-Hamawi, joint authors.
- 85524 SEMENOV, P. S. Effect of dalapon on germination of winter wheat. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 3:102-103. Mar.1968. 20 V633  
English summary.
- 85525 SHANDS, H. L., JANISCH, D. C., and DICKSON, A. D. Germination response of barley following different harvesting conditions and storage treatments. Crop Sci. 7(5):444-446. Ref. Sept./Oct.1967. 64.8 C883
- 85526 SHLYK, A. A., and SAVCHENKO, G. E. Fractionation of protochlorophyllide-bearing particles in chloroplasts of barley. (Rus) Akad. Nauk SSR. Dokl. 176(6):1437-1440. Ref. 1967. 511 P444A
- 85527 SHUL'GIN, I. A., and SHCHERBINA, I. P. Efficiency of light of different spectrum composition in photomorphogenesis reactions. (Rus) Akad. Nauk SSSR. Dokl. 179:479-482. Ref. 1968. 511 P444A  
Wheat and Brassica.
- 85528 SOLLAZZO, G. L. C. Action of some soluble fractions on seed germination. 1. (It) Tec. Molitoria 19(2):5-9. Jan.30,1968. 298.8 Se42  
Wheat.
- 85529 STEPANOVA, L. V. Effect of sucrose on germination of isolated embryos of proso, under artificial conditions. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 3:142. Mar.1968. 20 V633
- 85530 SZABO, L., and HAITTS, E. Germination-retarding effect of phenothiazine derivatives on winter barley. Acta Agron. [Budapest] 17(1/2):274-275. 1968. 19 Ac8
- 85531 TEI, S. Relationships between rice plant growth and length and intensity of day light by artificial shading and lighting. 1. 15 p. Transl. 16799  
Translation from Agriculture and Horticulture 5(8):57-64. 1930.
- 85532 TRUNOVA, T. I. Protective action of glycerine, while freezing winter wheat. (Rus) Fisiol. Rast. 15(2):218-224. Ref. Mar./Apr.1968. 450 F58  
English summary.
- 85533 UDAGAWA, T., and ODA, K. Influences of environmental factors on lodging of wheat and barley plants. 2. Wind treatment by mobile wind tunnel and measurements of wind over fields. (Ja) Crop Sci. Soc. Japan. Proc. 36(2):198-205. Ref. June 1967. 22.5 C88  
English summary.
- 85534 UDVARDY, J., and others. The effects of sucrose and light on the level of soluble and particle-bound ribonuclease activities in excised *Avena* [sativa] leaves. Physiol. Plant. 20(3):781-788. Ref. 1967. 450 P564  
G. L. Farkas, E. Marre and G. Forti, joint authors.
- 85535 UPADHYA, M. D., and YEE, J. Isoenzyme polymorphism in flowering plants. VII. Isoenzyme variations in tissues of barley seedlings. Phytochemistry 7(6):937-943. Ref. June 1968. 450 P5622
- 85536 VAKHMISTROV, D. B., and LISTOVA, M. P. Part of the ATP molecules responsible for its direct effect on absorption apparatus of roots. (Rus) Fisiol. Rast. 15(2):288-294. Mar./Apr. 1968. 450 F58  
English summary.  
Accumulation of potassium in barley.
- 85537 VERNICK, D. M., and SMITH, R. C. The influence of initial salt status on absorption of rubidium by corn root segments of two stages of development. Torrey Bot. Club. Bull. 94(6):501-510. Ref. Nov./Dec.1967. 451 T63B
- 85538 VICHIR, J. The effect of 2-chloroethyl-trimethylammonium chloride on winter wheat and spring barley. (Cz) Uroda 16(4):129-130. Apr. 1968. 64.8 Z12
- 85539 VLASYUK, P. A., SHMAT'KO, I. G., and RUBANYUK, E. A. The role of zinc and boron in amino acid metabolism and drought resistance of wheat. (Rus) Fisiol. Rast. 15(2):281-287. Ref. Mar./Apr.1968. 450 F58  
English summary.
- 85540 VRETTA-KOUSKOLEKA, H., and OHLROGGE, A. J. Fertilizer-P utilization by corn and wheat as affected by boron and copper in the fertilizer band. Int. Superphosphate Manufacturers Ass. Agr. Comm. Bull. Doc. 49:23-34. Ref. Feb.1968. 241 In832
- 85541 WALDEN, D. B. Male gametophyte of *Zea mays* L. I. Some factors influencing fertilization. Crop Sci. 7(5):441-444. Ref. Sept./Oct. 1967. 64.8 C883  
Study of pollens.
- 85542 WELCH, L. F., and BOONE, L. V. How fertilizer affects field drying of corn. Ill. Res. 10 (2):3-4. Spring 1968. 100 IL64  
Nitrogen, phosphorus and potassium effects on moisture content.
- 85543 ZVARA, J., and HUZULAK, J. Quantity and course of the release of some ions from maize roots and coleoptiles by means of electro dialysis. Biologia [Bratislava] 23(1):23-55. Ref. 1968. 442.8 B5265

## Physiology and Biochemistry - Fiber Crops

- 85544 ARSLANOVA, S. V. Phosphorylation in the mitochondria and nucleus of cotton, under normal conditions and under radiation with gamma rays. (Rus) Akad. Nauk Uzb. SSR. Dokl. 8:44-47. 1967. 511 Uz1
- 85545 BELOUSOV, M. A., and NEMATOV, G. Development of cotton roots and their functions, as related to plowing. (Rus) Khlopkovodstvo 4:39-42. Apr.1968. 72.8 K522
- 85546 DAVENPORT, D. C., and HUDSON, J. P. Meteorological observations and Penman estimates along a 17-km transect in the Sudan Gezira. Agr. Meteorol. 4(6):405-414. Ref. Nov.1967. 340.8 Ag8  
Evaporation in cotton fields.

- 85547 FITZPATRICK, E. A. An appraisal of advective contributions to observed evaporation in Australia using an empirical approximation of Penman's potential evaporation. *J. Hydrol.* 6 (1):69-94, map. Ref. Jan. 1968. 292.8 J82  
Observations on cotton.
- 85548 HAMAWI, H. The effect of (2-chloroethyl) trimethylammonium chloride on the yield of cotton plants. *J. Soil Sci. United Arab Repub.* 7(2):105-111. Ref. 1967. 56.8 J825
- 85549 IMAMALIEV, A. I., and OTAKHANOV, I. Activity of oxidative enzymes in the absciss layer during natural leaf abscission and defoliation of cotton. (Rus) *Fisiol. Rast.* 15(2):317-321. Ref. Mar./Apr. 1968. 450 F58  
English summary.
- 85550 KARIMOV, A., and MUKHAMEDZHANOV, M. V. Penetration of oxygen to the root system of cotton, through leaves. (Rus) *Akad. Nauk Uzb. SSR. Dokl.* 9:48-50. 1967. 511 Uz1
- 85551 KHAN, M. A., and RAJA, M. I. Studies on chemical changes in developing cotton seeds. *West Pakistan J. Agr. Res.* 5(4):22-26. Ref. Dec. 1967. 22 W52
- 85552 KHAN, M. S.-UD-D., and SAROYA, R. A. The effect of sowing-time on the yield of Desi cotton in Lahore division. *West Pakistan J. Agr. Res.* 6(1):30-38. Mar. 1968. 22 W52
- 85553 MADRIMOV, A., and UL'YANOVA, T. Preparing seeds for planting in the Khorezm Region. (Rus) *Khlopkovodstvo* 3:18-19. Mar. 1968. 72.8 K522  
Several methods applied to improve germination of cotton.
- 85554 MUKHANOVA, V. L., and SIKORŠKII, A. A. Experiments with presowing treatment of cotton seeds. (Rus) *Khlopkovodstvo* 2:34-35. Feb. 1968. 72.8 K522  
Gamma rays used for better yields.
- 85555 OBEID, M., MACHIN, D., and HARPER, J. L. Influence of density on plant to plant variation in fiber flax, *Linum usitatissimum* L. *Crop Sci.* 7(5):471-473. Sept./Oct. 1967. 64.8 C883  
Study of plant weights.
- 85556 OVCHAROV, K. E., and KULIESEVA, L. Effect of vitamin B<sub>6</sub> and PP on germination of seeds. (Rus) *Khlopkovodstvo* 3:41-42. Mar. 1968. 72.8 K522  
Cotton.
- 85557 POLYANSKAYA, L. A. Biosynthesis of thiamine and oil in cotton seeds. (Rus) *Khlopkovodstvo* 2:38-39. Feb. 1968. 72.8 K522
- 85558 RAKHMANKULOV, S. Effect of maleic hydrazide on growth and development of cotton. (Rus) *Khlopkovodstvo* 4:42-43. Apr. 1968. 72.8 K522
- 85559 TUNYANTS, D. E., and EL'KIND, L. A. Determining toxicity of quercimeritrin, its aglycons and flavonoids, obtained from cotton flowers. (Rus) *Akad. Nauk Uzb. SSR. Dokl.* 8:50-51. 1967. 511 Uz1
- 85563 BEG, A. Effect of date of planting and harvesting on winter forage yield and protein percentages. *West Pakistan J. Agr. Res.* 6(1):73-82. Ref. Mar. 1968. 22 W52
- 85564 BEUERLEIN, J. E., FRIBOURG, H. A., and BELL, F. F. Effects of environment and cutting on the regrowth of a sorghum-sudangrass hybrid. *Crop Sci.* 8(2):152-155. Mar./Apr. 1968. 64.8 C833
- 85565 BRIDGENS, A. B. Aspects of shoot apex morphogenesis, development and behaviour in grasses, with reference to the utilization and management of natural grassland. *Repub. S. Agr. Dep. Agr. Tech. Serv. Tech. Commun.* 67, 44 p. Ref. 1968. 24 So863
- 85566 BROWN, R. H., and BLASER, R. E. Leaf area index in pasture growth. *Herbage Abs.* 38(1):1-9. Mar. 1968. 281 Im733  
Review of the literature.
- 85567 DANN, P. R. The effect of mowing of defoliated stems on regrowth of a first year lucerne stand. *Australian Inst. Agr. Sci. J.* 34(1):39-40. Mar. 1968. 23 Au74
- 85568 DRANENKO, I. A., and KONOVALOV, V. P. Effect of different planting dates on change of cytoplasmatic male-sterile in sorghum. (Rus) *Selek. Semenovodstvo* 2:35-37. Mar./Apr. 1968. 61.9 Se5
- 85569 GARMASHOV, V. N., GARMASHOVA, K. N., and APATOV, V. S. Fertilization of pea-wheat mixtures, grown as forage plants. (Rus) *Khim. Sel'skom Khoz.* 6(4):13-16. Apr. 1968. 385 K524  
Physiological aspect.
- 85570 GOMEZ-BRENES, R. A., ELIAS, L. G., and BRESSANI, R. Effect of maturation on the nutritive value of corn. (Sp) *Arch. Latinoamer. Nutr.* 18(1):65-79. Ref. Mar. 1968. 389.8 Ar22  
English summary.
- 85571 HANELT, P., and TSCHIERSCHE, B. Study of cyanogen glycosides in the vetch varieties from Gatersleben. (Ge) *Kulturpflanze* 15:85-96. Ref. 1967. 450 K95  
English summary.
- 85572 HIGUCHI, T., and others. Chemical properties of milled wood lignin of grasses. *Phytochemistry* 6(11):1551-1556. Nov. 1967. 450 P5622  
Y. Ito, M. Shimada, and I. Kawamura, joint authors.
- 85573 KAUL, C. L., and SINGH, S. P. Effects of sodium 2,3-dichloroisobutyrate sprays on another development and microsporogenesis of fenu-greek (*Trigonella foenum-graecum* L.). *Crop Sci.* 7(5):516-518. Ref. Sept./Oct. 1967. 64.8 C883  
Pollen abortion.
- 85574 KIRCHGESSNER, M., and others. The influence of the stage of growth on the contents of trace elements in red clover (*Trifolium pratense* L.) and lucerne (*Medicago varia* Mart.). (Ge) *Wirtschaftseigene Futter* 14(2):112-122. Ref. Apr. 1968. 389.79 F98  
G. Voigtlander, D. A. Maier, and E. Pahl, joint authors.  
English summary.
- 85575 KLEINSCHMIDT, M. G., DOBRENZ, A. K., and MCMAHON, V. A. Gas chromatography of carbohydrates in alfalfa nectar. *Plant Physiol.* 43 (4):665-667. Ref. Apr. 1968. 450 P692
- 85576 KUSHNIRENKO, YU. D. The role of fertilizers by introduction of mallow as forage plant [*Malva crispa* L.] in the South Ural. (Rus) *Khim. Sel'skom Khoz.* 6(1):14-18. Jan. 1968. 385 K524
- 85577 LOPEZ, R. R., MATCHES, A. G., and BALDRIDGE, J. D. Vegetative development and organic reserves of tall fescue [*Festuca arundinacea*] under conditions of accumulated growth. *Crop Sci.* 7(5):409-412. Ref. Sept./Oct. 1967. 64.8 C883
- 85578 MANNETJE, L. The effects of photoperiod and night temperature on flowering and growth in some African *Trifolium* species. *New Phytol.* 67(2):257-263. Ref. Apr. 1968. 450 N42

#### Physiology and Biochemistry - Forage Crops and Grasses

- 85560 ALEKSANYAN, SH. V., and others. Chemical composition and nutritive value of forage plants, grown in the southern part of Ukraine. (Rus) *Khim. Sel'skom Khoz.* 6(4):53-58. Ref. Apr. 1968. 385 K524
- 85561 BABAEVA, M. K., and SEISEBAEV, A. T. The activity of catalase and cytochrome oxidase in plants with different radiosensitivity. (Rus) *Akad. Nauk SSSR. Dokl.* 178(5):1198-1201. Ref. 1968. 511 P444A  
Effect of gamma rays on broadbeans and clover.
- 85562 BALASUBRAMANIAN, A., and RANGASWAMI, G. Foliar application of C<sup>14</sup>-glucose and P<sup>32</sup>-phosphate and detection of radioactivity in the root exudate of sorghum. *Cur. Sci.* 37(6):172-173. Mar. 20, 1968. 475 Sci23



- 85579 MCWILLIAM, J. R., and KRAMER, P. J. The nature of the perennial response in Mediterranean grasses. I. Water relations and summer survival in *Phalaris [tuberosa]*. *Austral. J. Agr. Res.* 19(3):381-395. Ref. May 1968. 23 Au783
- 85580 MCWILLIAM, J. R. The nature of the perennial response in Mediterranean grasses. II. Senescence, summer dormancy, and survival in *Phalaris*. *Austral. J. Agr. Res.* 19(3):397-409. Ref. May 1968. 23 Au783  
P. *tuberosa* and P. *minor*.
- 85581 METCALF, J. L., and HENDERLONG, P. R. Establishment and seedling growth of Kentucky 31 tall fescue on an exposed clay subsoil as influenced by fertilizer [nitrogen and phosphorus] and wood by-products. *W. Va. Acad. Sci. Proc.* 39:146-151. 1967. 500 W52  
*Festuca elatior arundinacea*.
- 85582 MILLET, B. Regulating effects of excision of leaf on the variation of length of internodes on *Vicia faba* L. (Fr) *Acad. Sci. C. R. Ser. D*, 266(19):1956-1958. May 6, 1968. 505 P21
- 85583 MORLEY, F. H. W. Pasture growth curves and grazing management. *Australian J. Exp. Agr. Anim. Husb.* 8(30):40-45. Feb. 1968. 23 Au792
- 85584 NITTLER, L. W., and KENNY, T. J. Response of seedlings of *Festuca rubra* varieties to environmental conditions. *Crop Sci.* 7(5):463-465. Sept./Oct. 1967. 64.8 C883
- 85585 PANDEY, S. N., TEOTIA, S. P. S., and GUHA, D. P. Effect of the intensity of grazing on root growth of grasses in the grasslands of Upper Damodar catchment. *J. Soil Water Conserv. India* 15(3/4):64-69. July/Dec. 1967. 56.8 J824
- 85586 PANT, R., and TULSIANI, D. R. P. Total soluble carbohydrates and reducing substances of some leguminous seeds. *Cur. Sci.* 37(3):74-75. Feb. 5, 1968. 475 Sci23  
*Phaseolus* and *Erythrina indica*.
- 85587 PARKS, O. C., and HENDERLONG, P. R. Germination and seedling growth rate of ten common turfgrasses. *W. Va. Acad. Sci. Proc.* 39:132-140. 1967. 500 W52
- 85588 PELLOT, P., and GALLAIS, A. Effects of nitrogen on the life of suckers of *Dactylis*. (Fr) *Fourrages* 32:10-28. Ref. Dec. 1967. 60.8 F82  
English summary.
- 85589 PERRY, T. W., and others. Stage of maturity of corn at time of harvest for silage yield of digestible nutrients. *J. Dairy Sci.* 51(5):799-802. May 1968. 44.8 J822  
D. M. Caldwell, J. R. Reedal, and C. B. Knott, joint authors.
- 85590 PIENAAR, C. J. Does kikuyu [*Pennisetum clandestinum*] seed in South Africa? *Farming S. Afr.* 43(10):46-47. Jan. 1968. 24 So842
- 85591 RAMAKRISHNAN, P. S. Nutritional requirements of the edaphic ecotypes in *Melilotus alba* Medic. *New Phytol.* 67(2):301-308. Ref. Apr. 1968. 450 N42  
Chiefly effects of aluminum and manganese depending on type of soil.
- 85592 RIJVEN, A. H. G. C. Randomness in the genesis of phyllotaxis. I. The initiation of the first leaf in some *Trifolieae*. *New Phytol.* 67(2):247-256. Apr. 1968. 450 N42  
Environmental influences on *Trifolium spp.*, *Medicago spp.*, and *Trigonella foenum-graecum*.
- 85593 ROZANOVA, L. I. Importance of passage in changing activities of nodule bacteria. (Rus) *Vestnik Sel'skokhoz. Nauk. [Moscow]* 2:143-145. Ref. Feb. 1968. 20 V633  
Correlation between legumes and nodule bacteria.
- 85594 SCHARER, K., and SCHREIBER, R. Pot experiments on the influence of increased potassium and magnesium fertilization on the protein yield of field beans (*Vicia faba*). 15 p. (TT 63-18121) *Transl.* 15946  
Translation from *Bodenkunde und Pflanzenernahrung* 26:129-136. 1941.  
Issued by CFSTI.
- 85595 SCHMIDT, R. E., and BLASER, R. E. Effect of temperature, light, and nitrogen on growth and metabolism of Cohansey bentgrass (*Agrostis palustris* Huds.). *Crop Sci.* 7(5):477-451. Ref. Sept./Oct. 1967. 64.8 C883
- 85596 SCHUKKING, S. The influence of nitrogen fertilizing on the results of ensiling. (Du) *Neth. Dir. Landbouw. Landbouwwoorlichting* 25(5):226-233. May 1968. 12 N383M  
Effect of nitrogen on grasses.
- 85597 SHEVYAKOVA, N. I. Disturbance of sulfur metabolism of plants, under conditions of the soil salinization. (Rus) *Fiziol. Rast.* 15(2):209-217. Ref. Mar./Apr. 1968. 450 F58  
English summary.  
Broadbeans.
- 85598 TOOLE, V. K., and BORTHWICK, H. A. The photoreaction controlling seed germination in *Eragrostis curvula*. *Plant Cell Physiol.* 9(1):125-136. Mar. 1968. 450 P699
- 85599 TOROSYAN, R. N., and TYUTYUNIKOVA, V. A. Treatment of hard seeds with supersonic vibrations. (Rus) *Vestnik Sel'skokhoz. Nauk. [Moscow]* 2:109-111. Feb. 1968. 20 V633  
Red clover and mallow seeds treated for better germination.
- 85600 VACHUNOVA-MACHOVA. Study of the formation of yields in certain clover varieties. (Cz) *Czech. Min. Zemedel. Les. Hospodar. Ustav Vedeckotech. Inform. Rostlinna Vyroba* 41(2):167-178. Ref. Feb. 1968. 64.9 C33  
English summary.  
Photosynthesis and ecology.
- 85601 VINOGRADOV, V. N. Optimal leaf area of annual legumes, promising high yields. (Rus) *Fiziol. Rast.* 15(2):361-362. Mar./Apr. 1968. 450 F58  
As related to photosynthesis.

## Physiology and Biochemistry - Oil Crops

- 85602 APPELQVIST, L. A. Lipids in Cruciferae. II. Fatty acid composition of *Brassica napus* seed as affected by nitrogen, phosphorus, potassium and sulfur nutrition of the plants. *Physiol. Plant.* 21(2):455-465. Ref. 1968. 450 P564
- 85603 BRANTLEY, B., and ZEMAN, L. E. TIBA may loosen the shackles on soybean yields. *Big Farmer* 40(4):28-29, 32. Summer 1968. 58.8 B46
- 85604 BRUN, W. A., and COOPER, R. L. Effects of light intensity and carbon dioxide concentration on photosynthetic rate of soybean. *Crop Sci.* 7(5):451-454. Ref. Sept./Oct. 1967. 64.8 C883
- 85605 COOPER, R. L., and BRUN, W. A. Response of soybeans to a carbon dioxide-enriched atmosphere. *Crop Sci.* 7(5):455-457. Sept./Oct. 1967. 64.8 C883
- 85606 DAXENBICHLER, M. E., VANETTEN, C. H., and WOLFF, I. A. Diastereometric episulfides from epi-progoitrin upon autolysis of *Crambe [abyssinica]* seed meal. *Phytochemistry* 7(6):989-996. Ref. June 1968. 450 P5622
- 85607 DERBESY, M., and BUSSON, F. The fats of certain West African species. (Fr) *Oleagineux* (3):191-193. Mar. 1968. 77.8 OL2  
English summary.  
Lipide content of various oil plants.
- 85608 GIENKA-RYCHTER, A., and CHERRY, J. H. De novo synthesis of isocitritase in peanut (*Arachis hypogaea* L.) cotyledons. *Plant Physiol.* 43(4):653-659. Ref. Apr. 1968. 450 P692
- 85609 GUPTON, C. L., EMERY, D. A., and BENSON, J. A. Reproductive efficiency of Virginia type peanuts. III. (Fr) *Oleagineux* 23(4):247-250. Ref. Apr. 1968. 77.8 OL2  
English summary, p. XLIII.
- 85610 HOU, C. T., and others. Enzymatic synthesis of steryl glucoside by a particulate preparation from immature soybean seeds. *J. Biochem.* 63(3):351-360. Ref. Mar. 1968. 385 J822  
Y. Umemura, M. Nakamura, and S. Funahashi, joint authors.

- 85611 HSU, W. P., and MILLER, G. W. Iron in relation to aconitate hydratase activity in Glycine max. Merr. Biochim. Biophys. Acta 151(3): 711-713. Mar. 25, 1968. 381 B522
- 85612 JABLONSKI, M. Viability and real value of silicles of Spanish colewort (*Crambe abyssinica* Hochst.). 81 p. Ref. (TT 65-50336) Transl. 16321  
Oil plant.  
Translation from Instytut Uprawy, Nawożenia i Gleboznawstwa, Pamiętnik Pulawski. Prace 10:145-240. 1962.  
Issued by CFSTI.
- 85613 JAWIED, M. M., and SCOTT, E. G. Effect of boron on ribonucleic acid and indoleacetic acid metabolism in the apical meristems of sunflower plants. W. Va. Acad. Sci. Proc. 39:186-193. Ref. 1967. 500 W52
- 85614 KAMINSKAYA, M. E. Treatment of soybean seeds with film forming coatings. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 2:138-141. Feb. 1968. 20 V633  
For better germination.
- 85615 LONGO, C. Evidence for de novo synthesis of isocitratase and malate synthetase in germinating peanut cotyledons. Plant Physiol. 43(4): 660-664. Ref. Apr. 1968. 450 P692
- 85616 MEINX, R. The use of Stabilan (CCC) for winter rape. (Ge) Forderungsdienst 16(1):12-14. Jan. 1968. 19 F75
- 85617 SHINOZAKI, Y., and ISHII, S. On the fatty acid composition of the phospholipids of *Crambe abyssinica* seed. (Ja) Agr. Chem. Soc. Jap. J. 42(4):207-210. Apr. 1968. 285 Ag8  
English summary.
- 85618 SPITZNAGLE, L. A., and others. Study of absorption, translocation, and residue properties of 2,3,5-triiodobenzoic acid in field-grown soybeans. J. Pharm. Sci. 57(5):764-768. Ref. May 1968. 396.8 J825  
J. E. Christian, A. J. Ohlrogge, and C. E. Breckinridge, joint authors.
- 85619 SZABO, L. Formation of the size of petal and leaf in some of our oil flax varieties under the influence of different weather- and fertilizing conditions. Acta Agron. [Budapest] 17(1/2): 265-267. 1968. 19 Ac8
- 85620 VALDOVINOS, J. G., and ERNEST, L. C. Effect of gibberellic acid and Cycocel on tryptophan metabolism and auxin destruction in the sunflower seedling. Physiol. Plant. 20(3):682-687. Ref. 1967. 450 P564  
Indoleacetic acid labeled with radioactive carbon.

#### Physiology and Biochemistry - Sugar Crops

- 85621 CHOUDHRY, T. M., and ALI, B. The quality of cane juice as affected by different salinity levels in Hyderabad region. West Pakistan J. Agr. Res. 5(4):114-115. Dec. 1967. 22 W52
- 85622 FASIHI, SHAHAB-UD-DIN, and AHMAD, S. Some studies into the flowering of sugarcane at higher altitude. West Pakistan J. Agr. Res. 6(1):39-53. Ref. Mar. 1968. 22 W52
- 85623 GYURKO, P. Studies on the formation of microflora in the rhizosphere of sugar beet seedlings. Acta Agron. [Budapest] 17(1/2):101-114. 1968. 19 Ac8
- 85624 HAVEL, J. A. New, useful flowering characteristic in *Beta vulgaris* L. Euphatica 16(3):410-412. Dec. 1967. 450 Eu6  
Simultaneous flowering of all blooms in one plant of a Czechoslovak semi-sugar beet variety.
- 85625 LAKHANOV, A. P. Water in leaves of sugar beets, as related to different conditions of water supply. (Rus) Fisiol. Rast. 15(2):352-357. Ref. Mar./Apr. 1968. 450 F58  
English summary.
- 85626 TONKAL', E. A., and NAUMOVA, E. P. Effects of mineral fertilizers on accumulation of glutamic and aspartic acid and their amides in sugar beets. (Rus) Khim. Sel'skom Khoz. 6(3): 7-10. Ref. Mar. 1968. 385 K524

#### Physiology and Biochemistry - Tobacco

- 85627 BAGI, G., and FARKAS, G. L. A new aspect of the anti-stress effect of kinetin. Experientia 24(4):397-398. Ref. Apr. 15, 1968. 475 Ex7  
Tested with tobacco leaves.
- 85628 BENVENISTE, P. Biosynthesis of sterols in tobacco tissues grown in vitro; identification of cyclocecalenol and obtusifolol. (Fr) Phytochemistry 7(6):951-953. June 1968. 450 P5622
- 85629 CHAKRABORTY, M. K., RAMACHANDRUDU, B. S., and MOSES, P. Influence of maturity on some physical properties of flue-cured tobacco. Indian J. Agr. Sci. 37(6):458-464. Ref. Dec. 1967. 22 Ag83I
- 85630 COOK, C. E., TWINE, M. E., and WALL, M. E. Cholesteryl esters in flue-cured tobacco. Experimentia 23(12):987-989. Ref. Dec. 15, 1967. 475 Ex7
- 85631 HASEGAWA, H. On some experiments in raising a nicotine-free tobacco plant. 14 p. Transl. 16225  
By grafting tobacco and tomato plants.  
Translation from Botanical Magazine 51(605): 306.317. 1937.
- 85632 JOS, J. S., and SINGH, S. P. Chemical induction of male sterility in tobacco. Indian J. Agr. Sci. 37(6):504-510. Ref. Dec. 1967. 22 Ag83I
- 85633 KOMIZERKO, E. I., and BUTENKO, R. G. The effect of NaCl and Na<sub>2</sub>SO<sub>4</sub> concentrations on the tissue culture of *Nicotiana glauca*. (Rus) Akad. Nauk SSSR, Dokl. 178(3):735-736. 1968. 511 P444A
- 85634 LYTTLETON, J. W., and HOLE, F. A. The deoxyribonucleic acid content of tobacco leaves. New Zeal. J. Sci. 10(4):1061-1068. Ref. Dec. 1967. 514 N482
- 85635 MACE, K. D. Effects of oxytetracycline on oxygen uptake, inorganic phosphate uptake and ATP synthesis in leaf cells of *Nicotiana glauca* L. Tex. J. Sci. 19(4):363-367. Ref. Dec. 31, 1967. 470 T31
- 85636 MATILE, PH., and SPICHTER, J. Lysosomal enzymes in spherosomes (oil droplets) of tobacco endosperm. Z. Pflanzenphysiol. 58(3):277-280. Jan. 1968. 450 Z32
- 85637 NOGUCHI, M., and others. Studies on nitrogen metabolism in tobacco plants. IX. Effect of various compounds on proline biosynthesis in green leaves. Plant Cell Physiol. 9(1):35-47. Ref. Mar. 1968. 450 P699  
A. Kiwaki, M. Yokoyama, and E. Tamaki, joint authors.
- 85638 SOYNO, K., and FURUYA, T. Studies on plant tissue cultures. I. Relationship between inoculum sizes and growth of calluses in liquid culture. Plant Cell Physiol. 9(1):103-114. Ref. Mar. 1968. 450 P699  
Includes tests with tobacco and carrots.
- 85639 STECK, W. The biosynthetic pathway from caffeic acid to scopolin in tobacco leaves. (Fr) Can. J. Biochem. 45(12):1995-2003. Ref. Dec. 1967. 470 C16E
- 85640 WADA, Y. Changes of photosynthetic and respiratory activities and of chlorophyll content in growing leaves of some tobacco varieties. (Ja) Bot. Mag. Tokyo 81(955):25-32. Ref. Jan. 1968. 450 B651  
English summary.

#### Physiology and Biochemistry of Horticultural Crops

- 85641 COOK, D. J. Controlling plant growth. 1. Rooting compounds. World Crops 20(1):24-30. Ref. Mar. 1968. 281.8 W892  
Chiefly horticultural and field crops.
- 85642 KLAPWYK, D. Different weather coming? How to make changes in weather in our greenhouses? (Du) Groenten Fruit 23(40):1804-1805. Apr. 17, 1968. 80 G89



## Physiology and Biochemistry - Fruit Crops

- 85643 AKOPYAN, G. A. Effects of soil moisture on the quality of grapes and their yields. (Rus) Sadovodstvo 1:29. Jan.1968. 80 Sa13  
As related to weather conditions.
- 85644 AZMATHULLA KHAN, M. Effects of the latex of *Carica papaya* and *Calotropis gigantea* on the growth of the onion root. *Cur. Sci.* 37(4):110-112. Feb.20,1968. 475 Sci23
- 85645 BABRIKOV, D. Determination of accurate method of taking average grape samples for study of dynamics of sugars and titrated acids. (Bu) *Gradinar. Lozar. Nauk.* 4(5):57-69. 1967. 87 G75  
French summary.  
Study of grape maturity in fields.
- 85646 BERIASHVILI, T. D., and CHGVINADZE, T. D. Products of assimilation of radioactive carbonic acid in grapes. (Geo) *Akad. Nauk Gruz. SSR. Soobshch.* 49(3):601-606. Mar.1968. 511 Ak146  
Russian summary.
- 85647 BOOTSMA, J. Alar (B9) on apples and pears. (Du) *NFO (Ned. Fruittelers Organ.) Ber.* 24(4):97. Apr.1968. 95.9 N28
- 85648 BRUNNER, T. Appearance of sectorial material transport disorder on pruned fruit trees. *Acta Agron. [Budapest]* 17(1/2):13-24. 1968. 19 Ac8
- 85649 CALMES, J. Ion equilibrium in grapes; chasselas and muscat from Moissac. (Fr) *Acad. Sci. Compte Rendu* 266(12):1263-1265. Mar.18, 1968. 505 P21
- 85650 CARLES, J. Some biochemical aspects of rugosity of apples. (Fr) *Acad. Sci. C. R., Ser. D*, 266(20):2078-2080. May 13,1968. 505 P21  
Mineral composition.
- 85651 CARLSON, R. F. The incidence of scion-rooting of apple cultivars planted at different soil depths. *Hort. Res.* 7(2):113-115. Nov.1967. 80 H7892
- 85652 CHEBAN, A. I. Content and accumulation of nucleic acids in buds of winterized grapes in different stage of its seasonal development. (Rus) *Fisiol. Rast.* 15(2):329-335. Ref. Mar./Apr.1968. 450 F58  
English summary.
- 85653 CHILDS, W. H., SCHUBERT, O. E., and MILLER, S. S. Inhibition of strawberry runner production with Alar, Cycocel, maleic hydrazide, and TIBA. *W. Va. Acad. Sci. Proc.* 39:194-200. 1967. 500 W52
- 85654 COATS, G. E. Effects of growth regulators on germinating cotton. *Miss. Agr. Exp. Sta. Bull.* 752,8 p. Nov.1967. 100 M69
- 85655 COOK, J. A., and others. Vineyard response to phosphate-zinc foliar sprays. *Amer. J. Enol. Viticult.* 19(1):17-26. Ref. Jan./Mar.1968. 390.9 Am33  
P. P. Baranek, L. P. Christensen, and H. L. Malstrom, joint authors.
- 85656 DALMASSO, G. Physiology at the basis of efficient viticulture; an important contribution of the Bulgarian K. Stoev. (It) *Colt. G. Vinicolo Ital.* 114(1/2):24-28. Jan./Feb.1968. 16 C72
- 85657 DASS, H. C., and RANDHAWA, G. S. Effect of gibberellin on "Golden Queen" grape, a vinifera-labrusca hybrid. *Amer. J. Enol. Viticult.* 19(1):52-55. Jan./Mar.1968. 390.9 Am33
- 85658 DASS, H. C., and RANDHAWA, G. S. Response of certain seeded *Vitis vinifera* varieties to gibberellin application at postbloom stage. *Amer. J. Enol. Viticult.* 19(1):56-62. Ref. Jan./Mar.1968. 390.9 Am33
- 85659 DASS, H. C., and RANDHAWA, G. S. Response of Pusa seedless grapes to 4-CPA, kinetin, uracil and GA. *Physiol. Plant.* 21(2):298-301. 1968. 450 P564
- 85660 DEVLIN, R. M., and DEMORANVILLE, I. E. Influence of gibberellic acid and Gibrel on fruit set and yield in *Vaccinium macrocarpon* cv. Early Black. *Physiol. Plant.* 20(3):587-592. Ref. 1967. 450 P564
- 85661 DODSON, P. G. C. Effects of spacing, nitrogen and hormone treatment on pineapple in Swaziland. *Exp. Agr.* 4(2):103-115. Apr.1968. 10 Ex72
- 85662 FACHTAGUNG UBER DIE QUALITÄT DES TAFELOBSTES, 1968, ERSIGEN. Report on the Technical Meeting on the Quality of Table Fruit, by A. Wirth. (Ge) *Schweiz. Obst- Weinbau* 104(8):177-186. Mar.30,1968. 80 Sch9  
Includes On full-development and under-development of fruits of the apple variety "Golden Delicious," by K. Stoll, p.177-183.
- 85663 FADL, M. S., and HARTMANN, H. T. Effect of reciprocal bud-graft transfers between Old Home and Bartlett pears and centrifugation on translocation of endogenous growth substances in hardwood cuttings. *Physiol. Plant.* 20(3):802-813. Ref. 1967. 450 P564
- 85664 FEDERER, Z. Gibberellins in Dutch economy. (Cz) *Ziva* 16(2):45-46. Mar.1968. 409.6 Z6  
Chiefly in the production of apples and pears.
- 85665 FLIERMAN, J. Gibberellic acid. (Du) *NFO (Ned. Fruittelers Organ.) Ber.* 24(4):77. Apr. 1968. 95.9 N28  
Effects on fruit.
- 85666 GOODE, J. E. The measurement of sap tension in the petioles of apple, raspberry and black currant leaves. *J. Hort. Sci.* 43(2):231-233. Apr.1968. 80 J825
- 85667 GOODE, J. E., and HYRYCZ, K. J. The response of Malling Exploit raspberries to different soil moisture conditions and straw mulching. *J. Hort. Sci.* 43(2):215-230. Apr. 1968. 80 J825
- 85668 GORDEZIANA, M. SH. Effects of sugars and ketoanalogs on oxidizing transformation of alanine and glutamic acid in grapes. (Geo) *Akad. Nauk Gruz. SSR. Soobshch.* 49(2):363-368. Feb.1968. 511 Ak146  
Russian summary.
- 85669 HAMMETT, L. K., and INGLE, M. The organic acids of developing Stayman apple fruits. *W. Va. Acad. Sci. Proc.* 39:201-207. Ref. 1967. 500 W52
- 85670 HANSEN, P. <sup>14</sup>C-studies on apple trees. II. Distribution of photosynthates from top and base leaves from extension shoots. *Physiol. Plant.* 20(3):720-725. 1967. 450 P564
- 85671 HARTMANN, H. T., FADL, M. S., and HACKETT, W. P. Initiation of flowering and changes in endogenous inhibitors and promoters in olive buds as a result of chilling. *Physiol. Plant.* 20(3):746-759. Ref. 1967. 450 P564
- 85672 JAGIRDAR, S. A. P., and CHOUDHRY, M. R. Fruit drop control in mangoes by hormonal spray. *West Pakistan J. Agr. Res.* 5(4):33-42. Ref. Dec.1967. 22 W52
- 85673 JAUNET, J. P. Observations on the growth of the coconut palm. (Fr) *Oleagineux* 23(4):243-246. Apr.1968. 77.8 OL2  
English summary, p.XLIII.
- 85674 LOMAS, J., and GAT, Z. The effect of wind-borne salt on citrus production near the sea in Israel. *Agr. Meteorol.* 4(6):415-425, map. Nov.1967. 340.8 Ag8
- 85675 LOONEY, N. E., and PATTERSON, M. E. Changes in total ribonucleic acid during the climacteric phase in Yellow Transparent apples. *Phytochemistry* 6(11):1517-1520. Ref. Nov. 1967. 450 P5622
- 85676 LOTT, R. V. Changes in the composition of "Concord" grapes during maturation and ripening. *Hort. Res.* 7(2):126-134. Ref. Nov. 1967. 80 H7892
- 85677 MASON, D. T. Inflorescence initiation in the strawberry. II. Some effects of date and severity of post-harvest defoliation. *Hort. Res.* 7(2):97-104. Ref. Nov.1967. 80 H7892

- 85678 MASON, D. T. Inflorescence initiation in the strawberry. III. Some effects of cloching during induction. Hort. Res. 7(2):135-143. Ref. Nov. 1967. 80 H7892
- 85679 MEIGH, D. F., JONES, J. D., and HULME, A. C. The respiration climacteric in the apple; production of ethylene and fatty acids in fruit attached to and detached from the tree. Phytochemistry 6(11):1507-1515. Ref. Nov. 1967. 450 P5622
- 85680 MITTELSTADT, H. A contribution to the apple breeding research. XI-XII. (Ge) Arch. Gartenbau 16(1):37-49, 81-105. Ref. 1968. 80 Ar2  
English summary.  
XI, A method of demonstrating the hardness of apple seedlings. XII, A study of morphological and anatomical properties of young and old leaf forms.
- 85681 MOLNAR, L. Producing shoots and productive capacity. (Hu) Kertesz. Szolesz. 17(2):50-51. Jan. 1968. 80 K474  
Apricots.
- 85682 MOSESIAN, R. M., and NELSON, K. E. Effect on "Thompson Seedless" fruit of gibberellic acid bloom sprays and double girdling. Amer. J. Enol. Viticult. 19(1):37-46. Ref. Jan./Mar. 1968. 390.9 Am33
- 85683 NUTSUBIDZE, N. N. Amination and hyperamination of pyruvic acid and oxalic acid in the homogenates of roots and leaves of grapes. (Geo) Akad. Nauk Gruz. SSR. Soobsch. 48(3): 597-602. Dec. 1967. 511 AK146  
Russian summary.
- 85684 PALMER-JONES, T., and CLINCH, P. G. Honey bees essential for pollination of apple trees. New Zeal. J. Agr. 116(5):32-33. May 1968. 23 N48J
- 85685 PERRING, M. A., and WILKINSON, B. G. Mineral composition of apples. VI-VII. J. Sci. Food Agr. 19(4):182-192. Ref. Apr. 1968. 382 S012  
VI, Changes in the composition of seeds and stems of Cox's Orange Pippin apples during development and near picking time. VII, The relationship between fruit composition and some storage disorders.
- 85686 POLL, L. The effect of cytokinin N6-benzyladenine on bud break of fruit trees. (Da) Horticultura 22(1):3-12. Ref. Jan. 1968. 80 H7825  
English summary.  
Apples and pears.
- 85687 POPOV, T. Intensity and speed of accumulation of vegetative mass and consumption of nitrogen, phosphorus, and potassium by grapes depending on productivity and peculiarities of developmental cycle of the variety. (Bu) Gradinar. Lozar. Nauk. 4(5):71-80. 1967. 87 G75  
French summary.
- 85688 PREVOT, P. The application of coconut milk as growth substance of plants. (Fr) Oleagineux 23(3):177-178. Mar. 1968. 77.8 OL2  
Tested with orchids.
- 85689 RUDNICKI, R., PIENIAZEK, J., and PIENIAZEK, N. Abscisin II in strawberry plants at two different stages of growth. Acad. Polon. Sci. Bull. Ser. Sci. Biol. 16(2):127-130. 1968. 512 W262
- 85690 SACHS, R. M., and WEAVER, R. J. Gibberellin and auxin-induced berry enlargement in Vitis vinifera L. J. Hort. Sci. 43(2):185-195. Ref. Apr. 1968. 80 J825  
Tests with gibberellic acid and 4-chlorophenoxyacetic acid.
- 85691 SEGAL', F. I. Correlations and biophysiological peculiarities of mazzard cherries and sour cherries. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 1:135-136. 1968. 20 V633
- 85692 SHERER, V. A. Fixed water in the shoots of the cold-resistant and non-resistant grape varieties. (Rus) Vinodel. Vinograd. SSSR 2:24-26. 1968. 95.8 V77
- 85693 STEWART, I., and WHEATON, T. A. Formation of diacetoneamine and triacetoneamine in plant extracts. Phytochemistry 6(11):1587-1588. Nov. 1967. 450 P5622  
Tangerine leaves.
- 85694 TAMASI, J. Root development in one to six year old Jonathan apple trees standing in loam soil grafted on M IV rootstock as related to cultural practices. (Hu) Novenytermeles 1:1-24. Ref. Mar. 1968. 64.8 N76  
English summary.
- 85695 TAMASI, J. Root development investigations on Jonathan apple trees grafted on M IV stock. Acta Agron. [Budapest] 17(1/2):139-150. Ref. 1968. 19 Ac8
- 85696 VANHOOREN, A. Ten years of phenological observations in the experimental garden of Eastern Flanders at Beitem. (Fr) Rev. Agr. [Brussels] 20(11/12):1621-1642. Dec. 1967. 13 R322  
Fruit trees.
- 85697 VERSHINNIKOV, E. F. Physicomechanical properties of melon seeds. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 132:237-243. 1967. 20 M857  
Chiefly weight and size; as related to planting.
- 85698 VISSER, T. Juvenile period and precocity of apple and pear seedlings. Euphytica 16(3):319-320. Dec. 1967. 450 Eu6
- 85699 WEISE, R., REUTHER, G., and REICHARDT, A. Analytical studies of the effect of weather on the concentration and content of cell juices in young grapes in various stages of development. (Ge) Weinberg Keller 15(1):31-50. Jan. 1968. 95.8 W435  
French summaries.
- 85700 YOKOYAMA, H., and WHITE, M. J. Citrus carotenoids. VIII. The isolation of semi-beta-carotenone and beta-carotenone from Citrus relatives. Phytochemistry 7(6):1031-1034. June 1968. 450 P5622  
Murraya exotica and Triphasia trifolia.

## Physiology and Biochemistry - Nuts

- 85701 HAISMAN, D. R., KNIGHT, D. J., and ELLIS, M. J. The electrophoretic separation of the  $\beta$ -glucosidases of almond "emulsin." Phytochemistry 6(11):1501-1505. Ref. Nov. 1967. 450 P5622  
Hydrolases.
- 85702 ZIELINSKI, Q. B. Techniques for collection, handling, germinating, and storing pollen of the filbert (Corylus spp.). Euphytica 17(1):121-125. Apr. 1968. 450 Eu6

## Physiology and Biochemistry - Shade Trees and Ornamental Plants

- 85703 ANNONSEN, A. Flowering of Azalea. (No) Gartneryrket 58(10):192-193. Mar. 8, 1968. 80 G1938  
Effects of temperature and length of day.
- 85704 CHEN, H. R., and GALSTON, A. W. Growth and development of Pelargonium pith cells in vitro. I. Initiation of organized development. Physiol. Plant. 20(3):533-539. Ref. 1967. 450 P564  
Tissue culture.
- 85705 GIGANTE, R. Physiological disturbances developing in Gladiolus bulbs during transportation. (It) Agricoltura 17(2):47-54. Feb. 1968. 16 Ag8226  
English summary, p. 7-8.
- 85706 GULZ, P. G. Normal and branched alkanes in chloroplast preparations and in leaves of Antirrhinum majus. (Ge) Phytochemistry 7(6):1009-1017. Ref. June 1968. 450 P5622
- 85707 HADLEY, G., and HARVAIS, G. The effect of certain growth substances on asymbiotic germination and development of Orchis purpurella. New Phytol. 67(2):441-445. Apr. 1968. 450 N42



- 85708 HAGEMANN, R. The effect of the environmental factors on the pattern of manifestation of the mutation transcends in *Antirrhinum majus* L. (Ge) Kulturpflanze 15:367-380. Ref. 1967. 450 K95  
English summary.
- 85709 HILDRUM, H. Use of growth inhibiting substances in flower growing. (No) Gartneryrket 58(12):243-245. Mar.22,1968. 80 G1938
- 85710 HILL, G. P. Shoot formation in tissue cultures of *Chrysanthemum* "Bronze Pride." *Physiol. Plant.* 21(2):386-389. 1968. 450 P564
- 85711 HU, C. Y., and NEAL, O. M. Germination of holly seed and excised embryos. W. Va. Acad. Sci. Proc. 39:141-144. Ref. 1967. 500 W52
- 85712 KAUFMANN, H. P., and EL BAYA, A. W. Pro- and antioxidants in the field of fats. XXIII. Blossom color substances of *Helichrysum bracteatum*. (Ge) Fette-Seifen Anstrichm. 70 (4):221-225. Ref. Apr.1968. 384 C422  
English summary.
- 85713 KRISHNAMOORTHY, H. N., and NANDA, K. K. Effect of intercalated long days and light interruption of dark period on flowering, extension growth and senescence of *Impatiens balsamina*. *Physiol. Plant.* 20(3):760-770. Ref. 1967. 450 P564
- 85714 RADOUX, M. Localization of site of the apical dominance induced in *Salvia occidentalis* Sw (Labiatae) by phosfon-D. (Fr) Acad. Sci. C. R., Ser. D, 17(266):1718-1721. Apr.22,1968. 505 P21
- 85715 REHNSTROM, F. Extended days to carnations. (Da) Tidsskr. Planteavl 71(2):258-262. Ref. 1967. 11 T439  
English summary.
- 85716 SAHLSTROM, H. The photosynthetic effect with *Begonia x cheimantha* and some temperature observations under different greenhouse shadings. Uppsala. Lantbrukshogsk. Ann. 33(3):737-749. Ref. 1967. 104 Up6
- 85717 SANDVED, G. Effect of length of day and temperature on growth and flowering of *Begonia x hiemalis* Fotsch. (No) Gartneryrket 58(17):344-349. Ref. Apr.26,1968. 80 G1938
- 85718 SANDVED, G. Effect of temperature on the rate of development of *Begonia cheimantha* from visible bud to flowering. (No) Gartneryrket 58(8):148-150. Feb.23,1968. 80 G1938
- 85719 STOBART, A. K., MCLAREN, I., and THOMAS, D. R. Chlorophylls and carotenoids of colourless callus, green callus and leaves of *Kalanchoe crenata*. *Phytochemistry* 6(11):1467-1474. Ref. Nov.1967. 450 P5622
- 85720 TICKNOR, R. L. Growth and flower bud production in field-grown rhododendrons treated with growth regulators. Amer. Nurseryman 127(10):7-8. May 15,1968. 80 Am371
- 85721 VALDOVINOS, J. G., ERNEST, L. C., and PERLEY, J. E. Gibberellin effect on tryptophan metabolism, auxin destruction, and abscission in *Coleus* [blumei]. *Physiol. Plant.* 20(3):600-607. Ref. 1967. 450 P564
- 85722 WILLIS, A. J., and BALASUBRAMANIAM, S. Stomatal behaviour in relation to rates of photosynthesis and transpiration in *Pelargonium* [hortorum]. New Phytol. 67(2):265-285. Ref. Apr.1968. 450 N42
- Physiology and Biochemistry - Vegetable and Truck Crops
- 85723 ADATTHODY, K. K., and RACUSEN, D. On the extraction of peroxidase isozymes from bean leaves. Can. J. Bot. 45(12):2237-2242. Dec. 1967. 470 C16C
- 85724 ALBU, E., VERESS, E., and AUSLANDER, D. The effect of superionic waves on the culture of carrots. (Rum) Cluj. Univ. Babes-Bolyai. Stud. Ser. Biol. 13(1):17-24. Ref. 1968. 442.8 C62  
French summary.  
Effect on the germination of seeds.
- 85725 ALEKSEEV, R. V. The role of increased rates of mineral fertilizers in improvement of tomato seed quality. (Rus) Khim. Sel'skom Khoz. 6(1):11-14. Jan.1968. 385 K524
- 85726 AMBERGER, A. Current fertilizer problems in culture of potatoes grown for starch. (Ge) Kartoffelbau 19(1):2,4-5. Jan.1968. 75.8 K145  
Effects on composition.
- 85727 ANDREEVA, R. A., and KOMLEVA, V. P. Effects of growth substances upon tomatoes and cabbage under different level of mineral nutrition. (Rus) Khim. Sel'skom Khoz. 6(4):43-45. Apr.1968. 385 K524  
Indoleacetic and indolebutyric acid applied.
- 85728 APPADURAI, R. R., and RAJAKARUNA, S. B. Leaf contribution to pod yields in kidney-bean (*Phaseolus vulgaris* L.). Indian J. Agr. Sci. 37(6):524-525. Dec.1967. 22 Ag83I
- 85729 ASADA, K., DEURA, R., and KASAI, Z. Effect of sulfate ions on photophosphorylation by spinach chloroplasts. *Plant Cell Physiol.* 9 (1):143-146. Mar.1968. 450 P699
- 85730 BALINT, A., MEKHANDZIEV, A., and SUTKA, J. Effect of heat treatment and anaerobic hydration on the radio-sensitivity of peas. *Acta Agron. [Budapest]* 17(1/2):223-229. Ref. 1968. 19 Ac8  
X-ray radiation.
- 85731 BASSHAM, J. A., SHARP, P., and MORRIS, I. The effect of  $Mg^{2+}$  concentration on the pH optimum and Michaelis constants of the spinach chloroplast ribulosediphosphate carboxylase (carboxydismutase). *Biochim. Biophys. Acta* 153(4):898-900. Ref. May 28,1968. 381 B522
- 85732 BATZ, W. Quality from fertilizers. (Ge) Kartoffelbau 19(2):28. Feb.1968. 75.8 K145
- 85733 BAUDISCH, W. The content of ascorbic acid in mutant of tomato *Lycopersicon esculentum* Mill. (Ge) Kulturpflanze 15:105-114. Ref. 1967. 450 K95  
English summary.
- 85734 BEGISHVILI, TS. K. On the content of pyridoxine, pantothenic and nicotinic acids in peas. (Rus) Akad. Nauk Gruz. SSR. Soobshch. 49(3):6777-681. Mar.1968. 511 Ak146
- 85735 BEKINA, R. M., and KRASNOVSKII, A. A. Storage of isolated chloroplasts without changes in the activity of photophosphorylation. (Rus) Biokhimiya 33(1):178-181. Ref. Jan./Feb.1968. 385 B523  
English summary.  
Peas.
- 85736 BERKEL, N. VAN. CO<sub>2</sub> fertilizing of lettuce. L. (Du) Groenten Fruit 23(25):1140-1141. Jan.3,1968. 80 G89
- 85737 BERKEL, N. VAN. CO<sub>2</sub> fertilizing of lettuce. II. (Du) Groenten Fruit 23(26):1181. Jan.10, 1968. 80 G89
- 85738 BERRIE, A. M. M., and others. Studies on lettuce seed germination. I. Coumarin-induced dormancy. *Phytochemistry* 7(4):567-573. Ref. Apr.1968. 450 P5622  
W. Parker, B. A. Knights, and M. R. Hendrie, joint authors.
- 85739 BRIAN, P. W., GROVE, J. F., and MULHOLLAND, T. P. C. Relationships between structure and growth-promoting activity of the gibberellins and some allied compounds, in four test systems. *Phytochemistry* 6(11):1475-1499. Ref. Nov.1967. 450 P5622  
Dwarf peas, dwarf corn, lettuce, and cucumber.
- 85740 BYVSHIKH, N. A. Fertilization and ripening of squash after harvesting increases the quality of seeds. (Rus) Selekt. Semenovodstvo 2:11. Mar./Apr.1968. 61.9 Se5
- 85741 CHATTERJEE, B. N., and others. Environmental conditions of Ranchi plateau in early autumn and its effect on potato crop growth. J. Soil Water Conserv. India 15(3/4):48-56. Ref. July/Dec.1967. 56.8 J824  
R. D. Singh, S. B. Tewary, and D. Prasad, joint authors.
- 85742 CHENG, B. T., and OUELLETITE, G. J. Effect of various anions on manganese toxicity in *Solanum tuberosum*. Can. J. Soil Sci. 48(2):109-115. Ref. June 1968. 56.8 C162

- 85743 CONSTANTOPOULUS, G., and KENYON, C. N. Release of free fatty acids and loss of Hill activity by aging spinach chloroplasts. *Plant Physiol.* 43(4):531-536. Ref. Apr. 1968. 450 P692
- 85744 COOPER, A. J., and HURD, R. G. Effects of planting stage on fruiting of glasshouse tomatoes. *J. Hort. Sci.* 43(2):167-173. Apr. 1968. 80 J825
- 85745 CRAMER, W. A., and BUTLER, W. L. Further resolution of chlorophyll pigments in photosystems 1 and 2 of spinach chloroplasts by low-temperature derivative spectroscopy. *Biochim. Biophys. Acta* 153(4):889-891. Ref. May 28, 1968. 381 B522
- 85746 FALUDI, B. Techniques of making short-term tissue cultures of potato tubers. II. Effect of some exogenous and endogenous factors on the growth. *Acta Agron. [Budapest]* 17(1/2):71-81. Ref. 1968. 19 Ac8
- 85747 FERNANDEZ-GOMEZ, M. E. Rate of DNA synthesis in binucleate cells. *Histochemie* 12(4):302-306. 1968. 384 H622  
In onion roots.
- 85748 FICHER, R. A. Stomatal openings: role of potassium uptake by guard cells. *Science* 160(3829):784-785. Ref. May 17, 1968. 470 Sci2  
*Vicia faba*.
- 85749 FREDERICKS, W. W. Regulation of electron transport in photosynthesis. *Biochem. Biophys. Res. Commun.* 31(4):582-587. Ref. May 23, 1968. 442.8 B5236  
Spinach.
- 85750 FROST, G. M., GREENSHIELDS, R. N., and TEALE, F. W. J. Some properties of beta-fructofuranosidases partially purified from *Phaseolus vulgaris* and *Solanum tuberosum*. *Biochem. J.* 107(5):625-636. Ref. May 1968. 382 B52
- 85751 GASPARIKOVA, O. Thiamine and IAA interaction in the growth of excised roots of *Lycopersicon esculentum*. *Biologia [Bratislava]* 23(1):56-60. Ref. 1968. 442.8 B5265
- 85752 GOLBAN, N. M. Duration of vegetative period of pea hybrids. (Rus) *Vestnik Sel'skokhoz. Nauk. [Moscow]* 3:143-145. Mar. 1968. 20 V633  
As related to breeding.
- 85753 GROENEWEGEN, J. H. Promotion of fruit set of tomatoes. (Du) *Groenten Fruit* 23(40):1789. Apr. 17, 1968. 80 G89  
Chiefly cultural measures.
- 85754 GRUNWALD, C. Effects of sterols on permeability of alcohol-treated red beet tissue. *Plant Physiol.* 43(4):484-488. Ref. Apr. 1968. 450 P692
- 85755 GUPTA, U. C., and CUTCLIFFE, J. A. Influence of phosphorus on molybdenum content of brussels sprouts under field and greenhouse conditions and on recovery of added molybdenum in soil. *Can. J. Soil Sci.* 48(2):117-123. Ref. June 1968. 5f.8 C162
- 85756 GYLDEHOLM, A. O. Macromolecular physiology of plastids. V. On the nucleic acid metabolism during chloroplast development. *Hereditas* 59(1):142-168. 1968. 442.8 H42  
In beans.  
Bibliography, p.164-168.
- 85757 HABIG, W., and RACUSEN, D. A malate dehydrogenase of high molecular weight, from bean leaves. *Can. J. Bot.* 46(5):719-720. May 1968. 470 C16C
- 85758 HACKER, R. G., and others. Uptake of diethylstilbestrol by edible plants. *J. Anim. Sci.* 26(6):1358-1362. Nov. 1967. 49 J82  
D. D. Cruea, W. Shimoda, and M. L. Hopwood, joint authors.  
Cattle manures used in growing vegetables.
- 85759 HAJDU, M. New results on transpiration of potato. (Hu) *Agrartud. Kozlem.* 27(1/2):37-54. Ref. 1968. 19 B855  
German summary.
- 85760 HAVIR, E. A., and others. L-phenylalanine ammonia-lyase. I-III. *Biochemistry* 7(5):1896-1918. Ref. May 1968. 381 B523  
I, Purification and molecular size of the enzyme from potato tubers, by E. A. Havir, and K. R. Hanson; II, Mechanism and kinetic properties of the enzyme from maize seedlings, by E. A. Havir and K. R. Hanson.
- 85761 HEISSNER, A. The methodological measurement studies for the determination of the speed of flow of sap in cucumbers. (Rus) *Arch. Gartenbau* 16(1):3-15. Ref. 1968. 80 Ar2  
English summary.
- 85762 HEYDECKER, W. Response of *Phaseolus vulgaris* seeds of high and low "vigour" to seedbed conditions. *Hort. Res.* 7(2):151-154. Nov. 1967. 80 H7892  
Emergence studies.
- 85763 HILL, G. D. A requirement for chilling to induce flowering in *Dolichos lablab* cv Rongai. *Entomologist [London]* 101(1260):16-17. May 1968. 421 En8
- 85764 HIND, G. Light-induced changes in cytochrome b-559 in spinach chloroplasts. *Photochem. Photobiol.* 7(4):369-375. Ref. Apr. 1968. 382 P56
- 85765 IZHAR, S., and WALLACE, D. H. Effect of night temperature on photosynthesis of *Phaseolus vulgaris* L. *Crop Sci.* 7(5):546-547. Sept./Oct. 1967. 64.8 C883
- 85766 IZHAR, S., and WALLACE, D. H. Studies of the physiological basis for yield differences. III. Genetic variation in photosynthetic efficiency of *Phaseolus vulgaris* L. *Crop Sci.* 7(5):457-460. Ref. Sept./Oct. 1967. 64.8 C883
- 85767 JACOBI, G., and OHLERS, U. The isolation and properties of lipoic acid dehydrogenase from chloroplasts. (Ge) *Z. Pflanzenphysiol.* 58(3):193-208. Ref. Jan. 1968. 450 Z32  
English summary.  
Spinach.
- 85768 JAFFE, M. J., and GALSTON, A. W. Physiological studies on pea tendrils. V. Membrane changes and water movement associated with contact coiling. *Plant Physiol.* 43(4):537-542. Ref. Apr. 1968. 450 P692  
Studied with radioactive carbon.
- 85769 JAFFE, M. J., and ISENBERG, F. M. R. Rhythmic growth in excised sprout-leaves of onion bulbs. *Physiol. Plant.* 21(2):470-476. 1968. 450 P564
- 85770 JANES, B. E. Effects of extended periods of osmotic stress on water relationships of pepper [*Capsicum annum*]. *Physiol. Plant.* 21(2):334-345. Ref. 1968. 450 P564
- 85771 JAWORSKI, C. A., WEBB, R. E., and MORTON, D. J. Effects of storage and nutrition on tomato transplant quality, survival and fruit yield. *Hort. Res.* 7(2):90-96. Nov. 1967. 80 H7892
- 85772 JONARD, R., SCHAEVERBEKE, J., and MANANT, P. Are the substances produced during the irradiation of sugars substances of radio-mimetic type? (Fr) *Acad. Sci. C. R. Ser. D.* 266(20):2122-2125. Ref. May 13, 1968. 505 P21  
Tested with Jerusalem artichoke.
- 85773 JONES, R. L., and LANG, A. Extractable and diffusible gibberellins from light- and dark-grown pea seedlings. *Plant Physiol.* 43(4):629-634. Ref. Apr. 1968. 450 P692
- 85774 KAMISAKA, S., and MASUDA, Y. Auxin-induced growth of tuber tissue of Jerusalem artichoke. IV. Significance of gibberellin biosynthesis and basic proteins in chromatin in aging process. *Plant Cell Physiol.* 9(1):61-67. Mar. 1968. 450 P699  
Includes effects of gibberellic acid and (2-chloroethyl) trimethylammonium chloride
- 85775 KELJZER, R. de. Nitrogen: Growth inhibitor of tomatoes? (Fl) *Tuinbouwbericht* 32(4):140. Apr. 1968. 80 T817



- 85776 KHITRINSKII, V., and AVIDEV, YU. Increasing germination and shooting energy of seeds. (Rus) *Kartofel' Ovoshchi* 2:12-13. Feb.1968. 75.8 K147  
Several measures used for treatment of potato seeds.
- 85777 KIHLMAN, B. A., and HARTLEY, B. Effect of hydroxyurea and other inhibitors of DNA synthesis on *Vicia [faba]* chromosomes previously exposed to X-rays or to radiomimetic chemicals. *Hereditas* 59(2/3):439-463. Ref. 1968. 442.8 H42
- 85778 KOROVIN, A. I., and CHERNYKH, Z. P. Effect of mineral nutrition on hardness of tomato seedlings. (Rus) *Khim. Sel'skom Khoz.* 6(2): 11-13. Ref. 1968. 385 K524
- 85779 KUZNETSOVA, V., and PASHCHENKO, T. Advantages of seed coating. (Rus) *Kartofel' Ovoshchi* 2:26-27. Feb.1968. 75.8 K147  
Treatment of vegetable seeds for better germination.
- 85780 LASETER, J. L., WEBER, D. J., and ORO, J. Characterization of cabbage leaf lipids: n-alkanes, ketone, and fatty acids. *Phytochemistry* 7(6):1005-1008. June 1968. 450 P5622
- 85781 MACHOLD, O. Study of metabolism disturbances in tomato mutants. IV. The effect of redox potential of culture solutions on the chlorophyll content of different mutants. (Ge) *Kulturpflanze* 15:75-83. Ref. 1967. 450 K95  
English summary.
- 85782 MADISON, M., and RAPPAPORT, L. Regulation of bud rest in tubers of potato, *Solanum tuberosum* L. V. Absciscic acid and inhibitors of nucleic acid and protein syntheses. *Plant Cell Physiol.* 9(1):147-153. Ref. Mar.1968. 450 P699
- 85783 MANANDHAR, M. S. P., and ULRICH, V. A serological study of seed antigens of *Phaseolus vulgaris*. W. Va. Acad. Sci. Proc. 39:125-131. Ref. 1967. 500 W52
- 85784 MANCINELLI, A. L., and TOLKOWSKY, A. Phytochrome and seed germination. V. Changes in phytochrome content during the germination of cucumber seeds. *Plant Physiol.* 43(4):489-494. Ref. Apr.1968. 450 P692
- 85785 EL-MANSY, I., and others. Effects of pre- and post-harvest applications of 6-furfurylaminopurine and of N6-benzyladenine on physiological and chemical changes in lettuce (*Lactuca sativa* L.). *Hort. Res.* 7(2):81-89. Ref. Nov.1967. 80 H7892
- 85786 MARGULIES, M. M., GANTT, E., and PARENTI, F. In vitro protein synthesis by plastids of *Phaseolus vulgaris*. II. The probable relation between ribonuclease insensitive amino acid incorporation and the presence of intact chloroplasts. *Plant Physiol.* 43(4):495-503. Ref. Apr.1968. 450 P692
- 85787 MARGULIES, M. M., and PARENTI, F. In vitro protein synthesis by plastids of *Phaseolus vulgaris*. III. Formation of lamellar and soluble chloroplast protein. *Plant Physiol.* 43(4):504-514. Ref. Apr.1968. 450 P692
- 85788 MATILE, PH. Aleurone vacuoles as lysosomes. *Z. Pflanzenphysiol.* 58(4):365-368. Feb.1968. 450 Z32  
From pea seeds.
- 85789 MATSUTANI, Y., and others. Study on the effect of ultrasonic wave irradiation on the ascorbic acid content of vegetable tissue. (Ja) *Jap. Soc. Food Nutr. J.* 20(1):69-73. 1967. 389.9 J27  
S. Yuki, M. Tada, Y. Ogawa, and M. Ogawa, joint authors.  
English summary.  
Parsley and carrots.
- 85790 MCHALE, J. S., and DOVE, L. D. Mobilization-independent effects of a cytokinin on senescing tomato leaves. *Naturwissenschaften* 55(3):141. Mar.1968. 474 N213
- 85791 MEILERS, C. P. How can we pregerminate our planting stock? (Du) *Pootaardappelhandel* 21(6):7-12. Jan.1968. 286.83 P79  
Potatoes.
- 85792 MEYNAUD, A., VILLE, A., and PACHECO, H. Biosynthesis of anthraquinone in higher plants. (Fr) *Acad. Sci. C. R., Ser. D*, 17(266):1783-1786. Ref. Apr.22,1968. 505 P21  
In *Rheum rhabonticum* and *Rhamnus frangula*.
- 85793 MICA, B. Influence of fertilizing and cultural conditions on the viscosity of potato starch. (Ge) *Starke* 20(3):91-93. Mar.1968. 309 St22  
English summary.
- 85794 MORGAN, J. V., and BINCHY, A. Influence of supplementary light, carbon dioxide enrichment and CCC on the height and dry weight of tomato plants. *Irish J. Agr. Res.* 7(1):15-22. Ref. Apr.1968. 10.5 Ir45
- 85795 MUKHIN, E. N., and POPOVA, N. B. Phosphodoxin from leaves of *Pisum Sativum* L. (Rus) *Akad. Nauk SSSR. Izv. Ser. Biol.* 1:133-136. Jan./Feb.1968. 511 Sa2B  
English summary.
- 85796 NAGAO, M., and OHWAKI, Y. Auxin transport in the elongation zone of *Vicia* roots. *Bot. Mag. Tokyo* 81(955):44-45. Ref. Jan.1968. 450 B651  
IAA treatment of *Vicia faba*.
- 85797 NILOVSKAYA, N. T., and BOKOVAYA, M. M. Photosynthesis and respiration of some vegetables at various partial oxygen tensions. (Rus) *Fisiol. Rast.* 15(2):258-266. Ref. Mar./Apr. 1968. 450 F58  
English summary.  
Cabbage and beets.
- 85798 NORGAARD, M. J., and MONTGOMERY, M. W. Some esterases of the pea (*Pisum sativum* L.). *Biochim. Biophys. Acta* 151(3):587-596. Ref. Mar.25,1968. 381 B522
- 85799 OLSSON, R., and BOULTER, D. Nucleic acid metabolism of *Vicia faba* during germination and growth. *Physiol. Plant.* 21(2):428-434. Ref. 1968. 450 P564
- 85800 PATON, D., and SMITH, J. E. The effect of 4-hydroxy-3,5-diiodobenzonitrile (ioxynil) on the respiratory electron transport in *Vicia faba* L. (Fr) *Can. J. Biochem.* 45(12):1891-1899. Ref. Dec.1967. 470 C16E
- 85801 PERRY, D. A. Vigour of germination in vitro as an indicator of field emergence ability in peas. *Hort. Res.* 7(2):148-150. Nov.1967. 80 H7892
- 85802 PETRASH, I. P., and METLITSKII, L. V. Variations in respiration process during gamma radiation of plant tissue. 5 p. Ref. (NASA TT F-462) Transl. 16748  
Tomatoes.  
Translation from *Akademiya Nauk SSSR. Doklady* 170(3):711-713. 1966.  
Issued by CFSTI.
- 85803 POLACH, J. The effect of rate of mineral fertilizers on keeping quality of stored onions. (Cz) *Zahradnicke Listy* 61(4):118. 1968. 80 Z12
- 85804 POLTER, C. The effect of high concentrations of penicillin upon the growth and uptake of oxygen by roots of peas grown in vitro. (Ge) *Kulturpflanze* 15:293-309. Ref. 1967. 450 K95  
English summary.
- 85805 RAJAGOPAL, R. Occurrence of indoleacetaldehyde and tryptophol in the extracts of etiolated shoots of *Pisum [sativum]* and *Helianthus [annus]* seedlings. *Physiol. Plant.* 20(3):655-660. Ref. 1967. 450 P564
- 85806 RAJU, P. V., and DAS, V. S. R. Natural and GA-induced changes in levels of gibberellin-like substances and nucleic acids during growth and development of the pepper fruit. *Z. Pflanzenphysiol.* 58(3):266-276. Ref. Jan.1968. 450 Z32  
Bush redpeppers.
- 85807 RAVESTIJN, W. VAN. Aspects of fruiting of tomatoes. (Du) *Groenten Fruit* 23(32):1449. Feb.21,1968. 80 G89  
Chiefly pollination.

- 85808 RAYMUNDO, L. C., GRIFFITHS, A. E., and SIMPSON, K. L. Effect of dimethyl sulfoxide (DMSO) on the biosynthesis of carotenoids in detached tomatoes. *Phytochemistry* 6(11):1527-1532. Ref. Nov.1967. 450 P5622
- 85809 ROYAN-SUBRAMANIAM, S., and others. The mode of inoculation and growth of excised roots of *Phaseolus aureus* Roxb. in stab cultures. *Cur. Sci.* 36(23):646-648. Dec.5,1967. 475 Sci23  
S. Subramanyam, G. Meenakshi, and P. M. Gopinath, joint authors.
- 85810 RYAN, C. A., HUISMAN, O. C., and VAN DEN BURGH, R. W. Transitory aspects of a single protein in tissues of *Solanum tuberosum* and its coincidence with the establishment of new growth. *Plant Physiol.* 43(4):589-596. Apr. 1968. 450 P692  
Study of chymotrypsin inhibitor, chiefly in Solanaceae.
- 85811 SAGROMSKY, H. The pigmentation and dry-matter production of the mutant dwarf *crispata* of tomato variety "Condine Red." (Ge) *Kulturpflanze* 15:267-274. 1967. 450 K95  
English summary.
- 85812 SAKANO, K., ASAH, T., and URITANI, I. Heterogeneity of mitochondrial particles in fresh and wounded tissues of sweet potato roots. *Plant Cell Physiol.* 9(1):49-60. Ref. Mar.1968. 450 P699
- 85813 SCHAEFER, R. The absorption of amino acids by the roots of vegetables. (Fr) *Ann. Biol.* (ser.4)7(3/4):147-187. Mar./Apr.1968. 442.8 An7  
Bibliography, p.176-187.
- 85814 SCHOLZ, G. Physiological studies of the mutant *chloronerva* of *Lycopersicon esculentum* Mill. II. The quantitative aspects of the uptake and distribution of iron and their relation to phenotypic normalization. (Ge) *Kulturpflanze* 15:255-266. Ref. 1967. 450 K95  
English summary.
- 85815 SCHREIBER, K., and RIPPERGER, H. The isolation of alkaloids jurubine, neochlorogenin and paniculogenin from *Solanum torvum* Swartz. LXXXIV. (Ge) *Kulturpflanze* 15:199-204. Ref. 1967. 450 K95  
English summary.
- 85816 SCOTT, E. G. The relative effect of N,N-dimethyl-2,2-diphenylacetamide on root and shoot growth. *W. Va. Acad. Sci. Proc.* 39:208-215. 1967. 500 W52  
Tested with wheat, tomato, and onion.
- 85817 SCOTTER, D. R., THURTELL, G. W., and TANNER, C. B. Measuring oxygen uptake by the roots of intact plants under controlled conditions. *Soil Sci.* 104(5):374-378. Ref. Nov. 1967. 56.8 So3  
Peas.
- 85818 SECHENSKA, M. S., and VECHER, A. S. Photochemical and oxidase activity of chloroplasts of two tomato mutants. (Rus) *Akad. Nauk Belorussk. SSR. Dokl.* 11(11):1027-1030. Nov. 1967. 511 M663D
- 85819 SELISKAR, C. J., and KE, B. Photochlorophyllide aggregation in solution and associated spectral changes. *Biochim. Biophys. Acta* 153(3):685-691. Ref. Apr.2,1968. 381 B522  
From bean leaves.
- 85820 SEMIKHATOVA, O. A., and YUDINA, O. S. Application of 2,4-D for determination of leaf respiration energy at various temperatures. (Rus) *Fisiol. Rast.* 15(2):252-257. Mar./Apr.1968. 450 F58  
English summary.  
Peas.
- 85821 SINHA, M. N., and SINGH, A. Effect of different methods of phosphate placement on growth and yield of pea crop. *Indian J. Agr. Sci.* 37(6):511-519. Ref. Dec.1967. 22 Ag831
- 85822 SMEDT, A. DE. Growth factors of tomatoes. (Fl) *Tuinbouwberichten* 32(2):48-49. Feb.1968. 80 T817  
Effects of light, temperature and humidity.
- 85823 SOMOS, A., and ZATYKO, F. Effect of carbon-dioxide fertilizing on the growth and development of bush redpepper. (Hu) *Agrartud. Közlem.* 27(1/2):25-36. 1968. 19 B855  
German summary.
- 85824 STALFELT, M. G. The components of the CO<sub>2</sub>-induced stomatal movements. *Physiol. Plant.* 20(3):634-642. Ref. 1967. 450 P564  
*Vicia faba*.
- 85825 STEWARD, K. K., and KOONTZ, H. V. Transport of rubidium absorbed by the apex of bean root. *Plant Physiol.* 43(4):583-588. Apr.1968. 450 P692  
Tests with rubidium-68.
- 85826 STEWART, B. W., and RIENITS, K. G. Light-triggered, thiol-dependent ADP-ATP exchange activity in spinach chloroplasts. *Biochim. Biophys. Acta* 153(4):907-909. May 28,1968. 381 B522
- 85827 STILL, G. G. Metabolic fate of 3,4-dichloropropionanilide in plants: The metabolism of the propionic acid moiety. *Plant Physiol.* 43(4):543-543-546. Apr.1968. 450 P692  
Tests with pea and rice roots using radioactive carbon.
- 85828 STROGONOVA, L. E. The amount of organic substances, expended by respiration or plants, cultivated under different conditions of the mineral nutrition. (Rus) *Fisiol. Rast.* 15(2):272-280. Ref. Mar./Apr.1968. 450 F58  
English summary.  
Beans and sunflowers.
- 85829 TABATA, K., and TAKASE, N. Influences of heavy application of nitrogen and phosphoric acid on the growth and yield of the potatoes. (Ja) *Hokkaido Nat. Agr. Exp. Sta. Res. Bull.* 92:1-20. Ref. Feb.1968. 107.6 H68
- 85830 TANNER, W., SEIFARTH, H., and KANDLER, O. The metabolism of oligosaccharides in ripening and germinating seeds of *Phaseolus vulgaris*. (Ge) *Z. Pflanzenphysiol.* 58(4):369-377. Ref. Feb.1968. 450 Z32  
English summary.
- 85831 TRINKLER, YU. G. On the problem of physiology of potato aging. (Rus) *Fisiol. Rast.* 15(2):322-328. Ref. Mar./Apr.1968. 450 F58  
English summary.  
Degeneration.
- 85832 ULRICH, J. M., and MACKINNEY, G. Photo-conversion of polycopene in the tangerine tomato. *Photochem. Photobiol.* 7(3):315-318. Mar.1968. 382 P56
- 85833 VARTAPETYAN, B. B., and others. Transportation of molecular oxygen from above-ground parts to the roots of *Cucurbita pepo*. (Rus) *Akad. Nauk SSSR. Dokl.* 177(6):1478-1481. Ref. Dec.21,1967. 511 P444A  
I. N. Andreeva, N. G. Davtyan, and I. P. Maslova, joint authors.
- 85834 VECHER, A. S., and RAITSINA, G. I. Phosphorus compounds in chloroplasts of different-age leaves. (Rus) *Akad. Nauk Belorussk. SSR. Dokl.* 12(1):70-73. Ref. Jan.1968. 511 M663D  
Potatoes and kohlrabi.
- 85835 VEIGA, L. A. Phosphorylation and acetylation of glucosamine in germinating mung bean seeds. *Plant Cell Physiol.* 9(1):9-12. Ref. Mar.1968. 450 P699
- 85836 VILLEMEZ, C. L., MCNAB, J. M., and ALBERSHEIM, P. Formation of plant cell wall polysaccharides. *Nature* 218(5144):878-880. Ref. June 1,1968. 472 N21  
In *Phaseolus aureus*.
- 85837 WIEMANN, K. High phosphate fertilizing improves health and quality. (Ge) *Kartoffelbau* 19(1):10. Jan.1968. 75.8 K145
- 85838 WILEY, L., and ASHTON, F. M. Influence of the embryonic axis on protein hydrolysis in cotyledons of *Cucurbita maxima*. *Physiol. Plant.* 20(3):688-696. Ref. 1967. 450 P564
- 85839 WILMAR, M. J. C., and HELLENDORF, M. Embryo culture of Brussels sprouts for breeding. *Euphytica* 17(1):28-37. Ref. Apr.1968. 450 Eu6



- 85840 YU, M. H., OLSON, I. E., and SALUNKHE, D. K. Precursors of volatile components in tomato fruit. I. Compositional changes during development. *Phytochemistry* 6(11):1457-1465. Ref. Nov.1967. 450 P5622
- 85841 ZHABONOS, L. D. Application of potassium iodide and other minor elements to cucumbers, grown in greenhouses. (Rus) *Khim. Sel'skom Khoz.* 6(2):14-16. Ref. 1968. 385 K524  
Seed treatment for better yields.

**Physiology and Biochemistry of Miscellaneous Economic Plants (Coffee, Tea, Cacao, Etc.)**

- 85842 ABRAHAM, A., and others. A chemotaxonomic study of *Withania somnifera* (L.) Dun. *Phytochemistry* 7(6):957-962. Ref. June 1968. 450 P5622  
I. Kirson, E. Glotter, and D. Lavie, joint authors.  
Drug plants; study of chemical types occurring in Israel.
- 85843 ANDRASFALVY, A. Analysis of the photoperiodical response of poppy. I. Experimental distinction of the types of photoperiodical response. *Acta Agron. [Budapest]* 17(1/2):83-99. Ref. 1968. 19 Ac8
- 85844 BAHL, C. P., BANERJEE, A., and SESHADRI, T. R. Chemical observations of some Indian plant drugs. *Cur. Sci.* 37(1):1-2. Jan.5,1968. 475 Sci23  
*Mimosa elengi*, *Ricinus communis*, and *Pluchea lanceolata*.
- 85845 BICKOFF, E. M. Flavonoid estrogens in plants. *Amer. Perfum. Cosmet.* 83(5):59-64. Ref. May 1968. 308.8 Am3
- 85846 BOHLMANN, F., and RODE, K. M. Polyacetylene compounds. CXLI. The polyenes from *Opopanax chironium* Kch. (Ge) *Chem. Ber.* 101(2):525-531. 1968. 384 B45
- 85847 CHRISTERSSON, L., and PETTERSSON, S. Water and sulphate uptake at root reduction in *Ricinus communis*. *Physiol. Plant.* 21(2):414-422. Ref. 1968. 450 P564
- 85848 CLOOS, W. The field horsetail *Equisetum arvense*. (Ge) *Lebendige Erde* 2:71-73. Mar./Apr.1968. 18 L49  
Physiology and biochemistry.
- 85849 DHAR, K. L., and ATAL, C. K. Occurrence of N-isobutyldeca-trans-2-trans-4-dienamide in *Piper longum* Linn. & *Piper peepuloides* Royle. *Indian J. Chem.* 5(11):588-589. Ref. Nov.1967. 385 In294
- 85850 GARG, H. S., and MITRA, C. R. *Putranjiva roxburghii*. I. Constituents of the seed coat. *Planta Med.* 16(1):17-18. Feb.1968. 450 P697
- 85851 GLOTZBACH, B., and RIMPLER, H. The flavonoids in *Passiflora incarnata* L., *Passiflora quadeangularis* L. and *Passiflora pulchella* H.B.K.: A chromatographic study. (Ge) *Planta Med.* 16(1):1-7. Feb.1968. 450 P697  
English summary.
- 85852 GOGORICI, E., and EFTIMESCU, M. The present stage of agrometeorological research in apiculture. (Rum) *Hidroteh. Gospod. Apelor Meteorol.* 13(2):92-96, map. Feb.1968. 345 M562  
English summary, p.115.  
Phenology and honey plants.
- 85853 GORIS, A., and FRIGOT, P. Recent analysis of some roots of Primulaceae. (Fr) *Ann. Pharm. Franc.* 26(2):123-129. Ref. Feb.1968. 396.8 An7
- 85854 HAGIWI, J., and others. Alkaloids of *Gardenia mutans* Sieb. et Zucc. (Ja) *Pharm. Soc. Jap. J.* 87(12):1484-1488. Dec.1967. 396.9 P49  
S. Sakai, A. Kubo, and T. Hamamoto, joint authors.  
English summary.
- 85855 HARTLEY, R. D., and NEVE, R. A. Chemical analysis and breeding value of male hops (*Humulus lupulus* L.). *J. Hort. Sci.* 43(2):153-156. Apr.1968. 80 J825  
Chiefly alpha-acid content.
- 85856 JAIN, S. R. Hypoglycaemic principle in *Musa sapientum* L. and its isolation. *Planta Med.* 16(1):43-47. Feb.1968. 450 P697
- 85857 KARLSEN, J., and SVENDSEN, A. B. The composition of essential oils in leaves of *Rosmarinus officinalis* L. I. Monoterpene hydrocarbons, terpenes and related substances. (Ge) *Planta Med.* 16(1):95-98. Feb.1968. 450 P697  
English summary.
- 85858 KNOEPFFLER, L. P., and BARBAULT, R. A. successful method for quantitative collecting of amphibian larvae. (Fr) *Vie Milieu, Ser. C, Biol. Terrestre* 18(1):239-245. 1967, pub.1968. QH 301.V5  
With extracts of *Tephrosia vogeli*.
- 85859 KOJIMA, M., AKAHORI, Y., and ICHIKAWA, I. Studies on the volatile components of *Wasabia japonica*. I. Gas-liquid chromatographic studies on synthetic isothiocyanates. (Ja) *Agr. Soc. Jap. J.* 42(4):185-189. Ref. Apr.1968. 285 Ag8  
English summary.
- 85860 KUPCHAN, S. M., and others. Crotepoxide, a novel cyclohexane diepoxide tumor inhibitor from *Croton macrostachys*. *Amer. Chem. Soc. J.* 90(11):2982-2983. May 22,1968. 381 Am33J  
R. J. Hemingway, P. Coggon, A. T. McPhail, and G. A. Sim, joint authors.
- 85861 LADO, P., SCHWENDIMANN, M., and MARRE, E. Repression of isocitrate lyase synthesis in seeds germinated in the presence of glucose. *Biochim. Biophys. Acta* 157(1):140-148. Ref. Mar.18,1968. 318 B522  
Castorbeans.
- 85862 LANGE, H., and STEINER, A. M. Interaction between hydroxyproline inhibition and phytochrome dependent accumulation of anthocyanin in mustard seedlings (*Sinapis alba* L.). *Naturwissenschaften* 55(4):188. Apr.1968. 474 N213
- 85863 LAROS, Z. Plants and medicine. III. Glycosides. (Cz) *Ziva* 16(2):43-45. Mar.1968. 409.6 Z6
- 85864 LASSANYI, ZS., and LORINCZ, K. Test on terpenoids present in parts of *Coriandrum sativum* L. II. Thin-layer chromatographic and histochemical examinations of the linalool and the aldehydes. *Acta Agron. [Budapest]* 17(1/2):215-222. Ref. 1968. 19 Ac8
- 85865 LOSSNER, G. Majorana hortensis phytochemically considered. (Ge) *Planta Med.* 16(1):54-57. Ref. Feb.1968. 450 P697  
English summary.
- 85866 MONYA, M., SABAU, M., and RACZ, G. The antibiotic properties of extracts from *Centaurea* varieties. (Ge) *Planta Med.* 16(1):58-62. Ref. Feb.1968. 450 P697  
English summary.
- 85867 PARIS, R., and ETCHEPARE, S. On the flavonoids of the leaves of *Rauwolfia vomitoria* Afzel. (Fr) *Ann. Pharm. Franc.* 25(12):779-782. Dec.1967. 396.8 An7
- 85868 RABECHAU, H., AHEE, J., and GUENIN, G. Research on the culture in vitro of oil palm embryos (*Elaeis guineensis* Jacq.). IV. (Fr) *Oleagineux* 23(4):233-237. Ref. Apr.1968. 77.8 OL2  
English summary, p. XLIII.
- 85869 RAMANAMANJARY, W., and BOITEAU, P. Protective activity of *Drosera ramentacea* against bronchus spasm. (Fr) *Acad. Sci. C. R., Ser. D*, 17(266):1787-1789. Apr.22,1968. 505 P21
- 85870 RAMSTAD, E., and others. Norsetoclavine, a new clavine-type alkaloid from *Pennisetum ergot*. *Lloydia* 30(4):441-444. Ref. Dec.1967. 442.8 L77  
W. N. C. Lin, H. R. Shough, K. J. Goldner, R. P. Parikh, and E. H. Taylor, joint authors.
- 85871 RAO, A. N., and ENG, L. L. Pollen germination in oil palm, *Elaeis guineensis* Jack. *Cur. Sci.* 36(23):641-643. Dec.5,1967. 475 Sci23

- 85872 REINHARD, E., CORDUAN, G., and VOLK, O. H. Tissue culture of *Ruta graveolens*. (Ge) *Planta Med.* 16(1):8-16. Feb.1968. 450 P697  
English summary.  
For essential oils and coumarin.
- 85873 ROHDE, H., and BRUCKER, W. Effects of X-irradiation on growth and RNA nucleotide composition in *Datura [innoxia]* tissue cultures. (Ge) *Z. Pflanzenphysiol.* 58(4):327-330. Ref. Feb.1968. 450 Z32  
English summary.
- 85874 RONDEST, J., and others. Plants of Madagascar. III. Study of constituents of *Evodia belae* Baillon (Rutaceae). (Fr) *Phytochemistry* 7(6):1019-1026. Ref. June 1968. 450 P5622  
B. C. Das, M. N. Ricroch, C. Kan-Fan, P. Potier, and J. Polonsky, joint authors.  
Alkaloids and coumarins.
- 85875 SCHNELLE, F. J., and HORSTER, H. The analysis of essential oils of *Mentha requienii*. (Ge) *Planta Med.* 16(1):48-53. Feb.1968. 450 P697  
English summary.
- 85876 SCHRODER, P., and LUCKNER, M. On the physiology of formation of chinoline alkaloid echinorin in *Echinops ritro* L. (Ge) *Planta Med.* 16(1):99-108. Ref. Feb.1968. 450 P697  
English summary.
- 85877 SHALASHVILI, A. G. Obtaining flavonoids from leaves of *Rhododendron ponticum* and *R. caucasicum*. (Geo) *Akad. Nauk Gruz. SSR. Soobshch.* 48(3):603-608. Ref. Dec.1967. 511 AK146  
Russian summary.
- 85878 SHELLARD, E. J., and others. The *Mitragyna* species of Asia. XI-XII. *Planta Med.* 16(1):20-28,63-74. Feb.1968. 450 P697  
XI, The alkaloids of the leaves of *Mitragyna parvifolia* (Roxb.) Korth, obtained from the Maharashtra State of India; XII, The anatomy of the leaves of *Mitragyna hirsuta* Havil.
- 85879 SPEDDING, D. J., and WILSON, A. T. Studies of the early reactions in the germination of *Sinapis alba* seeds. *Phytochemistry* 7(6):897-901. Ref. June 1968. 450 P5622  
Using tritiated water as germination medium.
- 85880 STAHL, W., and SCHEU, D. Chemical varieties in drug plants. VI. Sesquiterpene derivatives in the essential oil of tansy [*Chrysanthemum vulgare*]. (Ge) *Arch. Pharm.* 38(4):306-308. Apr. 1968. 396.8 Ar2A
- 85881 STEINER, A. M., and LANGE, H. Interaction between hydroxyproline and phytochrome controlling hypocotyl elongation in mustard seedlings (*Sinapis alba* L.). *Naturwissenschaften* 55(4):187-188. Apr.1968. 474 N213
- 85882 STEPHEN, A. M., and DE BRUYN, D. C. The gum exudate of *Encephalartos longifolius* Lehm. (female) (family Cycadaceae). *Carbohydr. Res.* 5(3):256-265. Ref. Nov.1967. 385 C172
- 85883 TAKEMOTO, T., and others. The isolation of ecdysterone from the radix of *Achyranthes obtusifolia* Lam. (Ja) *Pharm. Soc. Jap. J.* 87(12):1521-1523. Dec.1967. 396.9 P49  
S. Ogawa, N. Nishimoto, K. Y. Yen, K. Abe, T. Sato, K. Osawa, and M. Takahashi, joint authors.  
English summary.
- 85884 TAKEMOTO, T., OGAWA, S., and NISHIMOTO, N. Studies on the constituents of *Achyranthes radix*. I. (Ja) *Pharm. Soc. Jap. J.* 87(12):1463-1468. Ref. Dec.1967. 396.9 P49  
English summary.  
*Achyranthes fauriei*.
- 85885 TAKEMOTO, T., OGAWA, S., and NISHIMOTO, N. Studies on the constituents of *Achyranthes radix*. II. Isolation of the insect-moulting hormones. (Ja) *Pharm. Soc. Jap. J.* 87(12):1469-1473. Ref. Dec.1967. 396.9 P49  
English summary.  
*Achyranthes fauriei*.
- 85886 TAKEMOTO, T., OGAWA, S., and NISHIMOTO, N. Studies on the constituents of *Achyranthes radix*. III. Structure of inokosterone. (Ja) *Pharm. Soc. Jap. J.* 87(12):1474-1477. Dec. 1967. 396.9 P49  
English summary.  
*Achyranthes fauriei*.
- 85887 TAKEMOTO, T., and others. Studies on the constituents of *Achyranthes radix*. IV. Isolation of the insect-molting hormones from Formosan *Achyranthes* spp. (Ja) *Pharm. Soc. Jap. J.* 87(12):1478-1480. Dec.1967. 396.9 P49  
S. Ogawa, N. Nishimoto, and S. Taniguchi, joint authors.  
English summary.
- 85888 TAKEMOTO, T., and others. Studies on the constituents of *Achyranthes radix*. V. Insect hormone activity of ecdysterone and inokosterone on the flies. (Ja) *Pharm. Soc. Jap. J.* 87(12):1481-1483. Dec.1967. 396.9 P49  
S. Ogawa, N. Nishimoto, and K. Mue, joint authors.  
English summary.  
*Achyranthes fauriei*.
- 85889 TAKEMOTO, T., and KUSANO, G. Studies on the constituents of *Cimicifuga* spp. II. Constituents of *Cimicifuga acerina*. 2. Structure of Cimigenol. (Ja) *Pharm. Soc. Jap. J.* 87(12):1569-1572. Dec.1967. 396.9 P49  
English summary.
- 85890 TAKEMOTO, T., KUSANO, G., and YAMAMOTO, N. Studies on the constituents of *Cimicifuga* spp. III. Constituents of *Cimicifuga acerina*. 3. Structure of Acerinol. (Ja) *Pharm. Soc. Jap. J.* 87(12):1489-1492. Dec.1967. 396.9 P49  
English summary.
- 85891 TOMITA, M., JU-ICHI, M., and FURUKAWA, H. Studies on the alkaloids of Menispermaceae plants. 248. Alkaloids of *Limacia oblonga* (Miers) Hook f. et. Thoms. (Ja) *Pharm. Soc. Jap. J.* 87(12):1560-1561. Dec.1967. 396.9 P49  
English summary.  
Borneo and Sarawak.
- 85892 VERZAR-PETRI, G., VARADI, J., and SZARVAS, T. Incorporation of 2-<sup>14</sup>C tryptophan into the free amino acid spectrum of *Vinca minor* L. *Acta Biol. [Budapest]* 19(1):75-81. Ref. 1968. 475 Ac85
- 85893 VIRMANI, O. P., and DATTA, S. C. Seasonal variations in oil of peppermint at Lucknow. *Perfumery Essent. Oil Rec.* 59(4):272-274. Apr.1968. 308.8 P41  
Effects of weather.
- 85894 WALKER, J. R. L. Phytochemical studies on New Zealand hops. 2. Phenolic constituents (or "tannins"). *New Zeal. J. Sci.* 11(1):63-71. Ref. Mar.1968. 514 N482
- 85895 WEISGERBER, I., SIEPER, H., and KORTE, F. Chemical classification of plants. XXXII. Isolation and structural investigations of polyhydroxyanthroquinones in *Rhamnus fallax*. (Ge) *Arch. Pharm.* 301(1):87-94. 1968. 396.8 Ar2A  
English summary.

#### Physiology and Biochemistry of Forest Trees

- 85896 ALVES, H. M., and others. Chemistry of Brazilian Leguminosae. IX. *Duartina*, an isoflavone of *Machaerium opacum*. (Por) *Acad. Brasil. Cienc. An.* 39(1):127-130. 1967. 516 R463A  
W. D. Ollis, W. B. Eyton, O. R. Gottlieb, and M. T. Magalhaes, joint authors.  
English summary.
- 85897 ANJANEYULU, V., and ROW, L. R. The triterpenes of *Calotropis gigantea* Linn. *Cur. Sci.* 37(6):156-157. Mar.20,1968. 475 Sci23
- 85898 BABALOLA, O., BOERSMA, L., and YOUNGBERG, C. T. Photosynthesis and transpiration of Monterey pine [*Pinus radiata*] seedlings as a function of soil water suction and soil temperature. *Plant Physiol.* 43(4):515-521. Apr.1968. 450 P692



- 85899 BACHELARD, E. P. Effects of gibberellic acid, kinetin, and light on the germination of dormant seeds of some Eucalyptus species. Australian J. Bot. 15(3):393-401. Ref. Dec.1967. 450 Au72
- 85900 BANERJEE, S. N. Effect of ionizing radiation on developing embryo-gametophyte complex of *Pinus resinosa* Ait. Bot. Mag. Tokyo 81(955): 11-21. Ref. Jan.1968. 450 B651
- 85901 BARSKAYA, E. I. Izmeneniya khloroplastov i vyzrevanie pobegov v svyazi s morozoustoichivost'yu drevesnykh rastenii [Change of chloroplasts and maturing of shoots, as related to hardness of woody plants]. Moskva, Nauka, 1967. 224 p. QK725.B3  
Bibliography, p.197-223.
- 85902 BOHLMANN, F., and RODE, K. M. Polyacetylene compounds. 150. Notice on the polyenes from *Pittosporum buchanani* Hook. fil. (Ge) Chem. Ber. 101(5):1889-1891. 1968. 384 B45
- 85903 BORCHERT, R. The cultivation of tissues of *Cupressus lusitanica* in vitro. Physiol. Plant. 20(3):608-616. Ref. 1967. 450 P564
- 85904 BOWEN, G. D. Chloride efflux along *Pinus radiata* roots. Nature 218(5142):686-687. May 18, 1968. 472 N21
- 85905 BROWN, J. H. Watershed forests get thirsty, too; but certain trees leave more water for us than others. R. I. Agr. 14(2):6-7. Apr.1968. 100 R342
- 85906 CARMAN, R. M., and DENNIS, N. Diterpenoids. XV. Trans-abienol. Australian J. Chem. 21(3): 823-825. Mar.1968. 475 Au73  
Isolated from *Abies balsamea*.
- 85907 CHEUNG, H. T., and FENG, M. C. Constituents of Dipterocarpaceae resins. I. Triterpene acids of *Dryobalanops aromatica*. Chem. Soc. J. C, Org. 9:1047-1051. Ref. 1968. QD241.C5
- 85908 DAVID, R., and BROQUEDIS, M. Carrying out propagation by auxiblastic cutting of maritime pine [*Pinus pinaster*] without previously preparation on tree; differentiation of vegetative radicular points without callus formation. (Fr) Acad. Sci. C. R., Ser. D, 17(266):1715-1717. Apr.22, 1968. 505 P21
- 85909 DRIESCHE, R. VAN DEN. A comparison of growth responses of Douglas fir and Sitka spruce of different nitrogen, phosphorus, and potassium levels in sand culture. Can. J. Bot. 46(5):531-537. May 1968. 470 C16C
- 85910 ETVERK, I. On the phenological forms of spruce-fir (*Picea abies*). (Es) Est. Sel'skokhoz. Akad. Sb. Nauch. Tr. 50:105-120. Ref. 1968. 106 Es83  
German summary.
- 85911 FLOROV, R. I. An attempt to determine the potential productivity of natural forests on the basis of the energy dissipation law. (Rus) Akad. Nauk SSSR. Dokl. 179(3):736-738. 1968. 511 P444A  
Study of photosynthesis in relation to increment of spruce and pine.
- 85912 FRANKLIN, J. F., and KRUEGER, K. W. Germination of true fir and mountain hemlock [*Tsuga mertensiana*] seed on snow. J. Forest. 66(5):416-417. May 1968. 99.8 F768
- 85913 GAGNAIRE, J. Study of vegetative rhythms of *Populus nigra* L 214. (Fr) Acad. Sci. Compt. Rend. Ser. D, 265(19):1387-1390. Nov.6, 1967. 505 P21
- 85914 GIVAN, C. V., and TORREY, J. G. Respiratory response of *Acer pseudoplatanus* cells to pyruvate and 2,4-dinitrophenol. Plant Physiol. 43 (4):635-640. Ref. Apr.1968. 450 P692
- 85915 GODNEV, T. N., and others. Protochlorophyll-holochrome of etiolated leaves in *Quercus robur* L. (Rus) Akad. Nauk SSSR. Dokl. 179:465-467. Ref. 1968. 511 P444A  
N. K. Akulovich, K. L. Orlovskaya, and V. I. Raskin, joint authors.
- 85916 GREGONIS, D. E., and others. Volatile oils from foliage of coast redwood [*Sequoia sempervirens*] and big trees [*Sequoiadendron giganteum*]. Phytochemistry 7(6):975-961. Ref. June 1968. 450 P5622  
R. D. Portwood, W. H. Davidson, D. A. Durfee, and A. S. Levinson, joint authors.
- 85917 GROB, E. C., and CSUPOR, L. Lipides in leaves of *Acer platanoides* L. during turning yellow in fall. (Ge) Experimentia 23(12):1004-1005. Ref. Dec.15, 1967. 475 Ex7
- 85918 IVANOV, L. A., and YURINA, E. V. The transpiration intensity of trees as affected by various wavelengths of the spectrum. 11 p. Ref. (TT 66-51083) Transl. 16271  
Translation from Akademiya Nauk SSSR. Laboratoriya Lesovedeniya. Soobshcheniya 5: 53-61. 1961.  
Issued by CFSTL.
- 85919 JARRETT, J. M., and WILLIAMS, A. H. The flavonoid glycosides of *Salix purpurea*. Phytochemistry 6(11):1585-1586. Nov.1967. 450 P5622
- 85920 KHAN, A. G. Effects of added growth substances on seedlings of *Podocarpus falcatus* R. Br. and *P. spiculosus* (Sm.) R. Br. ex Mirb. grown in pure culture from excised embryos. Australian J. Sci. 30(9):372-373. Ref. Mar. 1968. 475 Au72
- 85921 KOCH, W. Temperature relation of photosynthesis. (Ge) Mitt. Staatsforstverwaltung. Bayerns 36:129-135. 1967. 99.9 B342  
Forest trees.
- 85922 KOVAC, P., and others. Hemicelluloses from twigs of the white willow (*Salix alba* L.). III. Wood xylans. Chem. Vestii 22(3):198-205. Ref. 1968. 385 C4232  
F. Rendos, G. N. Persina, and E. Pavlova, joint authors.
- 85923 KRASAVTSEV, O. A. The amount of non-frozen water in woody plants at different temperature. (Rus) Fisiol. Rast. 15(2):225-233. Ref. Mar./Apr.1968. 450 F58  
English summary.  
Betula verrucosa and fruit; calorimetry used.
- 85924 LERMAN, J. C., MOOK, W. G., and VOGEL, J. C. Effect of the Tunguska meteor and sunspots on radiocarbon in tree rings. Nature 216 (5119):990-991. Ref. Dec.9, 1967. 472 N21  
In *Populus balsamifera*.
- 85925 MENDEZ, J., and others. Growth substances isolated from woody cuttings of *Alnus glutinosa* Medic. and *Fraxinus excelsior* L. Phytochemistry 7(4):575-579. Ref. Apr.1968. 450 P5622  
M. D. V. Giesto, A. Vazquez, E. Vieitez, and E. Seoane, joint authors.
- 85926 MICHNIEWICZ, M., and SAMEK, T. The effect of auxin and gibberelin upon the growth of English oak [*Quercus robur*] seedlings. (Pol) Sylwan 112(2):55-61. Ref. 1968. 99.8 Sy52  
English summary.  
Indoleacetic acid.
- 85927 MILLINGTON, D. S., and SHEPPARD, R. C. Addendum: Spectroscopic characterization of two new amino acids from *Aesculus californica*. Phytochemistry 7(6):1027-1029. Ref. June 1968. 450 P5622  
2-amino-6-hydroxy-4-methylhex-4-enoic acid and 2-amino-3-(methylenecyclopropyl) butyric acid.
- 85928 MOLOZHNIKOV, N. N. Seed productivity of dwarf *Pinus sibirica* in the vicinity of the bay Sosnovka, Baikal Lake. (Rus) Bot. Zhur. [Moscow] 53(4):543-546. Ref. Apr.1968. 451 R523
- 85929 NANDA, K. K., and others. Seasonal rooting response of stem cuttings of some forest tree species to auxins. Indian Forest. 94(2):154-162. Ref. Feb.1968. 99.8 In2  
A. N. Purohit, A. Bala, V. K. Anand, joint authors.
- 85930 REDHEAD, J. F. *Inocybe* sp. associated with ectotrophic mycorrhiza on *Afzelia bella* in Nigeria. Commonwealth Forest. Rev. 47(1):63-65. Mar.1968. 99.8 Em72

- 85931 RED'KO, G. I. Influence of the black adler (*Alnus glutinosa* Gaertn.) on the productivity of the Canadian poplar (*Populus canadensis* Mnch.). 4 p. (TT 66-51093) Transl. 16290 Allelopathy.  
Translation from Akademiya Nauk Ukrayins'-koyi RSR. Dopovidi 3:343-346. 1958.  
Issued by CFSTI.
- 85932 RICHARDS, B. N., and BEVEGE, D. I. The productivity and nitrogen economy of artificial ecosystems comprising various combinations of perennial legumes and coniferous tree species. *Australian J. Bot.* 15(3):467-480. Ref. Dec.1967. 450 Au72
- 85933 RIFFER, R., and ANDERSON, A. B. Chemistry of the genus *Sequoia*. IV. The structures of the C<sub>17</sub> phenols from *Sequoia sempervirens*. *Phytochemistry* 6(11):1557-1562. Ref. Nov.1967. 450 P5622
- 85934 RITTER, G., and MIETHING, E. On the effect of economic poisons on the germination of pollen in pine and spruce. (Ge) *Arch. Pflanzenschutz* 3(2):131-141. Ref. 1967. 464.8 Ar2  
English summary.  
*Pinus sylvestris* and *Picea abies*.
- 85935 ROHMEDER, E. Relations between fruit and seed production and wood production of forest trees. (Ge) *Mitt. Staatsforstverwalt. Bayerns.* 36:266-268. Ref. 1967. 99.9 B342
- 85936 RUSSELL, J. S., MOORE, A. W., and COAL-DRAKE, J. E. Relationship between subtropical semiarid forest of *Acacia harpophylla* (brigalow), microrelief, and chemical properties of associated gilgai soil. *Australian J. Bot.* 15(3):481-498. Ref. Dec.1967. 450 Au72
- 85937 SAUTER, J. J., and BRAUN, H. J. Enzymatic polarity in ray parenchyma cells of conifers in spring. *Z. Pflanzenphysiol.* 58(4):378-381. Feb.1968. 450 Z32  
In the cambium-facing cells of *Pseudotsuga menziesii*, *Pinus sylvestris*, and *Abies grandis*.
- 85938 TABACIK-WLOTZKA, C., and LAPORTHE, Y. Diterpenes of *Juniperus phoenicea* L. I. Hydroxy-6 $\alpha$ -sandaracopimaric acid. (Fr) *Tetrahedron Lett.* 21:2531-2534. Apr.1968. 385 T20
- 85939 THIELGES, B. A. Altered polyphenol metabolism in the foliage of *Pinus sylvestris* associated with European pine sawfly [*Neodiprion setifer*] attack. *Can. J. Bot.* 46(5):724-725. May 1968. 470 C16C
- 85940 TURNER, N. C. Reducing evaporation from a forest. *Frontiers Plant Sci. [Conn. Sta.]* 20(2):8-9. May 1968. 100 F92
- 85941 WINTON, L. L. Plantlets from aspen tissue cultures. *Science* 160(3833):1234-1235. June 14, 1968. 470 Sci2
- 85942 WOODING, F. B. P. Radioautographic and chemical studies of incorporation into sycamore vascular tissue walls. *J. Cell Sci.* 3(1):71-80. Ref. Mar.1968. QH301.J6  
Of tritiated glucose and phenylalanine.
- 85943 WORRALL, J., and MERGEN, F. Environmental and genetic control of dormancy in *Picea abies*. *Physiol. Plant.* 20(3):733-745. Ref. 1967. 450 P564
- AGRONOMY (FIELD CROPS)
- 85944 ABRAHAM, T. P., and AGARWAL, K. N. Yield, effect of soil fertility and economics of crop rotations with and without groundnut. *Indian J. Agr. Sci.* 37(6):560-571. Dec.1967. 22 Ag83I India.
- 85945 BARAEV, A. I. Virgin land and the science. (Rus) *Vestnik Sel'skokhoz. Nauk. [Moscow]* 1:1-9. 1968. 20 V633  
English summary.  
Agronomic research.
- 85946 DUONG HONG HIEN. New scheduling in agricultural production. Joint Publ. Res. Serv. Transl. N. Vietnam 292:1-6. Dec.8, 1967. (JPRS 43,639) DS557.A7J6  
Field crop culture.  
Translation from Nhan Dan, Oct.10, 1967:2. Issued by CFSTI.
- 85947 GAIR, R. The conduct of field variety trials involving fertilizers and pesticides or both. *PANS (Pest Articles News Sum.) Sect. A, Insect Contr.* 14(2):216-230. Ref. May 1968. 423.92 G798
- 85948 GEORGIA. AGRICULTURAL EXPERIMENT STATION. 1966 field crops variety trials. *Ga. Agr. Exp. Sta. Res. Rep.* 1,67 p. Jan.1967. S51.E22
- 85949 HANIS, M., and HOLENDÁ, F. Among the Swedish breeders. (Cz) *Uroda* 16(6):58-60. Feb.1968. 64.8 Z12  
Field crops.
- 85950 HOSEK, K. Notes on the study of experimental bases for mutual utilization of conditions of Tropics and Palearctic zones for an increase in intensity and production of field crops in Cuba and Czechoslovakia. (Cz) *Czech. Min. Zemedel. Les. Hospodar. Ustav Vedeckotech. Inform. Rostlinna Vyroba* 41(2):217-225. Feb. 1968. 64.9 C33  
English summary.  
Plant introduction.
- 85951 JAIN, K. C., and JAIN, D. L. Effectiveness of composite demonstration in Pali district, (Rajasthan). *Rural India* 31(2):21-22. Feb.1968. 281.28 R889  
Trials with field crops.
- 85952 KREJCI, J. A contribution to the agréotechnique of summer catch crops planted after early potato varieties in dry regions. (Cz) *Czech. Min. Zemedel. Les. Hospodar. Ustav Vedeckotech. Inform. Rostlinna Vyroba* 41(2):179-192. Ref. Feb.1968. 64.9 C33  
English summary.
- 85953 MURESAN, T. Scientific cultivation of agricultural plants. 12 p. (JPRS 37,408; TT 66-33836) Transl. 16247  
Research programs in Romania.  
Translation from Probleme Agricole 5:4-13. May 1966.  
Issued by CFSTI.
- 85954 NORSKE MYRSELSKAP. FORSOKSSTASJON, Maere. Report of the Experimental Station of the Norwegian Heath Society at Maere, 1967. (No) *Norske Myrselsk. Medd.* 66(2):52-54. Apr.1968. 11 N813  
Chiefly crop culture.
- 85955 OTTO, H. J., and others. Crop production guide for Minnesota. *Minn. Univ. Ext. Ext. Pam. EP 194, rev., chart, map.* 1967. 275.29 M66P  
J. R. Justin, G. R. Miller, C. J. Overdahl, and L. D. Hanson, joint authors.
- 85956 PEARCE, S. C. The mean efficiency of equi-replicate designs. *Biometrika* 55(1):251-253. Mar.1968. 442.8 B522  
Experiments in agronomy.
- 85957 ROSS, G. J. S. Statistical models and designs for varietal, fertilizer, and pesticide trials. *PANS (Pest Articles News Sum.) A, Insect Contr.* 14(2):231-243. May 1968. 423.92 G798  
Field crops.
- 85958 SAMVIRKENDE SJAELANDSKE LANDBOFORENINGER. PLANTEAVLSUDVALGET. Beretning om landboforeningernes virksomhed for planteavl pa Sjaelland [Report on the crop trials of the farm associations at Zealand], 1967, v. 69. Kobenhavn, 1968. 359 p. 11 Z1B
- 85959 STOBBE, F. High yields through suitable crop rotations. (Ge) *Mitt. Deut. Landwirt.-Ges.* 83(14):476,478-479. Apr.4, 1968. 18 N39
- 85960 SVAB, J., and SZABO, M. Simple transformation of a monofactorial experiment to a polyfactorial one. (Hu) *Novenytermeles* 1:25-34. Ref. Mar.1968. 64.8 N76  
English summary.  
Agronomy application.



- 85961 TASUGI, H. An outline of major crop culture of Java. 1. The agricultural experiment station, under the jurisdiction of the Java Military Government Inspection Bureau (Industrial Division). (Ja) Agr. Asia 5(12):20-25. Dec. 1967. 22.5 Aj5
- 85962 TEXAS RESEARCH FOUNDATION. Agricultural mimeographs 1944-1966. Renner, 1967. 1 v. various pagings. S543.T4T4  
A collection of several series: its Corn mimeograph (59.9 T313) Grain sorghum mimeograph (67.9 T31) Grass mimeograph (60.9 T31) Oil-seed mimeograph (77.9 T51) and Soils mimeograph.
- 85963 VOISEY, P. W. A calendar date calculator. Can. Agr. Eng. 10(1):42. May 1968. 58.8 C164  
For determining planting dates, gestation records, ect.
- 85964 VOROB'EV, S. A., and others. Praktikum po zemledeliyu [A handbook of agronomy]. Ed. 3, rev. and enl. Moskva, Kolos, 1967. 319 p. S591.V6 1967  
V. E. Egorov, A. N. Kiselev, S. I. Dolgov, and B. A. Dospekhov, joint authors.
- 85965 ZHELEZNOV, V. Struggle for the high quality of seeds. (Rus) Selekt. Semenovodstvo 2:6-7. Mar./Apr.1968. 61.9 Se5  
Field crops.
- 85966 ZIMOVA, D., and KOHOUT, V. Vyznam korenoveho systemu jako kriteria pri slechteni polnich plodin; studijni zprava [Roots as a criterion in the breeding of field crops; reviews] Praha, Ustredi Zemedelskeho a Potravinarskeho Vyzkumu, 1968. 87 p. Ref. SB123.A1S8  
English summary.
- Cereals
- 85967 AGARWAL, K. N., and DESHPANDE, M. R. Size and shape of plots and blocks in field experiments with dibbled paddy. Indian J. Agr. Sci. 37(6):445-455. Dec.1967. 22 Ag831  
India.
- 85969 ALESHIN, E. P., and SMETANIN, A. P. The All-Union Research Institute of Rice [Vsesoyuznyi Nauchno-Issledovatel'skii Institut Risa]. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 11:113-115. Nov.1967. 20 V633
- 85969 ALVELID, S. Selection of spring grain varieties; results of field trials in Kalmar Province. (Sw) Kalmar Lans Hushallningssallsk. Tidskr. 2:5-17. Apr.1968. 11 K123
- 85970 ANDREWS, O. N. Wheat production on Alabama farms. Auburn Univ. Ext. Circ. P-78,6 p.-folder. Aug.1967. 275.29 AL14Cp
- 85971 BACHRATI, V., and SZAMAK, S. Oves gratus, a new oat variety. (Cz) Uroda 16(4):133. Apr. 1968. 64.8 Z12
- 85972 BARES, I. Soviet varieties of winter wheat in Czechoslovakia. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 604:7-10. Nov.15,1967. (JPRS 43,340) 173 J663Ste  
Translation from Socialisticke Zemedelstvi 39:7. Sept.1967.  
Issued by CFSTI.
- 85973 BIRCH, E. B., and ROMER, A. A. Maize hybrids for the Eastern Cape. Farming S. Afr. 43(10):36-38. Jan.1968. 24 So842
- 85974 BOCKSTAELE, L. 1967 malting barley research in West Flanders. (Fl) Int. Tijdschr. Brouwerij Mouterij 27(4):124-127. 1967/68. 390.8 R32Af  
Cultural.
- 85975 BOULWARE, J. H. India harvests record wheat crop. Foreign Agr. 6(19):2-4. May 6, 1968. A281.9 F76Fo  
Includes storage.
- 85976 BOYD, W. J. R. New thoughts on cereal breeding. Farmer's Sci. Joint Conf. [Proc.], 7th Conf. :51-52. 1967. 27 F22  
Includes discussion.
- 85977 BRIGGLE, L. W., COX, E. L., and HAYES, R. M. Performance of a spring wheat hybrid, F<sub>2</sub>, F<sub>3</sub>, and parent varieties at five population levels. Crop Sci. 7(5):465-470. Sept./Oct.1967. 64.8 C883
- 85978 BRIGGLE, L. W., PETERSEN, H. D., and HAYES, R. M. Performance of a winter wheat hybrid, F<sub>2</sub>, F<sub>3</sub>, and parent varieties at five population levels. Crop Sci. 7(5):485-490. Sept./Oct.1967. 64.8 C883
- 85979 BRONNIMANN, A. Possibilities of breeding wheat for Septoria resistance. (Ge) Schweiz. Landwirt. Monatsh. 46(4):158-168. Apr.1968. 17 Sch93
- 85980 BUI HUY DAP. The 1966-1967 fifth month rice crops. Joint Publ. Serv. Transl. N. Vietnam 311:1-11. Feb.12,1968. (JPRS 44,318) DS557.A7J6  
Culture.  
Translation from Khoa Hoc Ky Thuat Nong Nghiep 70:363-368. Oct.1967.  
Issued by CFSTI.
- 85981 BUI-HUY-DAP. Spring rice campaign of 1966-1967. Joint Publ. Res. Serv. Transl. N. Vietnam 363:1-15. May 10,1968. (JPRS 45,318) DS557.A7J6  
Translation from Khoa Hoc Ky Thuat Nong Nghiep, Dec.1967:443-449.  
Issued by CFSTI.
- 85982 CENTRO INTERNACIONAL DE MEJORAMIENTOS DE MAIZ Y TRIGO. Against world hunger: Astonishing result of U.S.-Mexico joint effort. (Sp) Agr. Amer. 17(6):22-24,26-28, map. June 1968. 58.8 Ag832  
Work of the Center in corn and wheat research.
- 85983 CORTELLA, C. Corn culture in the Province of Padova. (It) Raccolto 9(4):92-94. Apr.1968. 16 R11
- 85984 DAVIER, G. VON. Has culture of grain corn a future in northern Germany? (Ge) Mitt. Deut. Landwirt.-Ges. 83(5):112,114. Feb.1,1968. 18 N39
- 85985 DAY, K. M., and others. Small grain varieties for Indiana; characteristics and performance for 1963-67 and recommendations for 1968. Ind. Agr. Exp. Sta. Res. Bull. 840, 11 p., map. Jan.1968. 100 In2P  
R. K. Stivers, F. L. Patterson, O. W. Luetke-meier, W. D. Reiss, L. E. Compton, R. M. Caldwell, J. F. Schafer, J. J. Roberts, and R. L. Gallun, joint authors.
- 85986 DEMIDENKO, B., and SHEPEL', N. A. Some features of sorghum breeding in the South Ukraine. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 2:57-63. Feb.1968. 20 V633  
English summary.  
As cereals and forage plants.
- 85987 DENMARK. STATENS FORSOGSVIRKSOMHED I PLANTEKULTUR. Trials with barley varieties 1961-66. (Da) Tidsskr. Planteavl 71(2):267-270. 1967. 11 T439
- 85988 DENMARK. STATENS FORSOGSVIRKSOMHED I PLANTEKULTUR. Trials with oat varieties 1963-66. (Da) Tidsskr. Planteavl 71(2):271-272. 1967. 11 T439
- 85989 DREWS, E. Investigations on rye varieties and strains with regard to their quality features. (Ge) Deut. Muller-Zeitung 66(1):5-9. Jan.11, 1968. 298.8 Su2
- 85990 DUFF, W. P., and HARRIS, J. Barley yields of 35 cwt. +. Agr. Northern Ireland 42(1):352-354. Mar.1968. 256.13 Ag82M  
Culture.
- 85991 DUONG-HONG-HIEN. Fifth-month rice seedlings. Joint Publ. Res. Serv. Transl. N. Vietnam 302:45-47. Jan.24,1968. (JPRS 44,138) DS557.A7J6  
Translation from Nhan Dan, Dec.8,1967:2.  
Issued by CFSTI.
- 85992 DUONG HONG HIEN. Spring rice, a rice species with good prospects. Joint Publ. Res. Serv. Transl. N. Vietnam 316:36-40. Feb.28, 1968. (JPRS 44,523) DS557.A7J6  
Translation from To Quoc, Oct.1967.  
Issued by CFSTI.

- 85993 DUONG HONG HIEN. Use proper techniques in cultivating fall rice. Joint Publ. Res. Serv. Transl. N. Vietnam 366:71-76. May 16, 1968. (JPRS 45,399) DS557.A7J6  
Translation from Nhan Dan, Apr. 14, 1968:2. Issued by CFSTI.
- 85994 ESKEW, E. B. Performance of grain sorghum hybrids in South Carolina. S. C. Agr. Exp. Sta. Agron. Soils Res. Ser. 66,13 p. Mar. 1968. 56.9 So84
- 85995 FAJERSSON, F. Breeding aims and problems of wheat breeding for northern and western Europe. (Ge) Muhle 105(11):154-155. (Cont.) Mar. 14, 1968. 298.8 M89
- 85996 FAJERSSON, F. Breeding goals and problems of wheat breeding for northern and western Europe. (Concl.) (Ge) Muhle 105(12):166-168. Ref. Mar. 21, 1968. 298.8 M89
- 85997 FAJERSSON, F. Problems of quality in breeding wheat for resistance. (Ge) Muhle 105(21):310-312. May 23, 1968. 298.8 M89
- 85998 FISCHBECK, G. Problems of quality and yield in grain cultivation in the German Federal Republic. (Ge) Z. Acker-Pflanzenbau 127(3):180-206, map. Ref., p. 203-206. Apr. 1968. 18 J825  
English summary.
- 85999 FRANKE, G., and HERRMAN, M. Possibilities of increasing the rice yields with special consideration to dry rice. (Ge) Getreide Mehl 18(3):21-26. Ref. Mar. 1968. 298.8 G332  
Culture.
- 86000 FREY, K. J., and MALDONADO, U. Relative productivity of homogeneous and heterogeneous oat cultivars in optimum and suboptimum environments. Crop Sci. 7(5):532-535. Sept./Oct. 1967. 64.8 C883
- 86001 GODUNOVA, K. N., ZVYAGINTSEVA, I. I., and MOROZOVA, T. E. Varieties and fertilizers in the irrigated farming. (Rus) Selekt. Semenovodstvo 2:42-44. Mar./Apr. 1968. 61.9 Se5  
Cereals.
- 86002 GUNN, R. E. Break crops, grain maize. Great Brit. Min. Agr. Fish. Food. Agr. 75(2):66-70. Feb. 1968. 10 G79J  
Corn culture.
- 86003 HESKETH, R. W. Continuous barley in North-Antrim. Agr. Northern Ireland 42(11):355-356. Mar. 1968. 256.13 Ag82M  
Culture.
- 86004 HILLSON, M. T., and HUTCHCROFT, C. D. 1967 Iowa corn yield test. Iowa. Agr. Home Econ. Exp. Sta. Res. Bull. 138,23 p., map. Feb. 1968. 100 Io9  
Iowa Crop Improvement Association, Iowa State University of Science and Technology, Cooperative Extension Service, and U. S. Department of Agriculture, cooperating.
- 86005 HUU-DUC. Good tenth-month rice crop in Thanh Hoa. Joint Publ. Res. Serv. Transl. N. Vietnam 300:8-11. Jan. 22, 1968. (JPRS 44,098) DS557.A7J6  
Cultivation methods.  
Translation from Nhan Dan, Dec. 11, 1967:3. Issued by CFSTI.
- 86006 IDAHO. AGRICULTURAL EXPERIMENT STATION. Wheat research projects, 1968 summary. Idaho. Agr. Res. Progr. Rep. 136,26 p. Apr. 1968. S53.E2  
U. S. Department of Agriculture, cooperating.  
Includes projects of U. S. Agricultural Research Service.
- 86007 IGARASHI, K. Suito purasu arufa hoshiki no keiei [The alpha plastic covering method of paddy rice culture]. Tokyo, Ie no Hikari Kyokai, 1967. 230 p. (Shin Nogyo Keiei Sosho 5) S562.J3A5 v. 5 1967
- 86008 KALTHOFF, W. Is production of barley for forage taking precedence over malting barley in Rheinhessen? (Ge) Brauwelt 108(20/21):366-367. Mar. 8/13, 1968. 390.8 F732  
Culture and yields.
- 86009 KASIYYA, N. Trial with some high-yielding varieties of rice. Fert. News 13(5):23, 27. May 1968. 57.8 F4123  
India.
- 86010 KENYA. NATIONAL AGRICULTURAL RESEARCH STATION. MAIZE RESEARCH STATION, KITALE. Maize population and spacing recommendations for 1968. Kenya Farmer 139:10-11. Feb. 1968. 24 R812
- 86011 KIKUCHI, T. Ine no tanki saibai [Short-term rice cultivation]. Osaka, Fumin Kyokai, 1967. 158 p. SB191.R5K5
- 86012 KLISHSH, E. I. New Hungarian rice varieties. (Rus) Selekt. Semenovodstvo 2:55-57. Mar./Apr. 1968. 61.9 Se5
- 86013 KOPECKY, O. Cejcsky rany Ms, a new corn hybrid. (Cz) Uroda 16(3):97. Mar. 1968. 64.8 Z12
- 86014 LAFEVER, H. N. Hybrid wheat looming nearer as commercial commodity on market. Grain Age 9(5):11, 16. May 1968. 281.8 G76  
Yield trials in Ohio.
- 86015 LEKES, J., and ZENISCEVA, L. Results of the breeding of winter wheat in USSR. (Cz) Uroda 16(6):42-44. Feb. 1968. 64.8 Z12
- 86016 LE-XUAN-DIEU. On the calculation of five tons of paddy rice per hectare. Joint Publ. Res. Serv. Transl. N. Vietnam 299:24-27. Jan. 5, 1968. (JPRS 43,885) DS557.A7J6  
Translation from Thong Ke 1:13-14. 1967. Issued by CFSTI.
- 86017 MACWILLIAM, H. R., and MCCARGO, S. How to get your corn crop off to a good start. Agway Coop. 4(3):12-13. Apr. 1968. 280.28 Ag9  
Planting.
- 86018 MALIANI, C. Wheat for the South. (It) G. Agr. 78(17):217, map. Apr. 28, 1968. 16 It1G  
Culture.
- 86019 MALINOVSKII, B. N. Heterosis and cytoplasmic male sterility in sorghum and their use in breeding. (Rus) Genetika 11:3-14. Nov. 1967. QH431.A1G4  
English summary.
- 86020 MALM, N. R., and others. Performance of sorghum hybrids, 1967. N. Mex. Agr. Exp. Sta. Res. Rep. 139,20 p. Feb. 1968. 100 N465R  
C. E. Watson, D. H. Williams, and C. E. Barnes, joint authors.  
Includes varieties.
- 86021 MANDY, GY. Winter wheat, Kompolti 169. Acta Agron. [Budapest] 17(1/2):245-247. 1968. 19 Ac8
- 86022 MCMULLAN, J. L., PARRISH, J. A., and FISHER, H. M. Bussell barley. West. Australia. Dep. Agr. J. (ser. 4)9(2):47-49. Feb. 1968. 23 W52J  
Variety.
- 86023 MORISHIMA, O. Bei no zoshu gijutsu [Increased-yield techniques for rice culture]. Tokyo, Ienohikari Kyokai, 1968. 165 p. (Ie-No Hikari. v. 44, No. 1, Suppl.) 22.5 Iy3
- 86024 MORRISON, K. J., and BRUEHL, G. W. Cayuse oats. Wash. State Univ. Ext. E. M. 2899,2 p. Feb. 1968. 275.29 W27Mi
- 86025 NGO DUY DONG. Winter-spring crops in Thai Binh. Joint Publ. Res. Serv. Transl. N. Vietnam 291:36-39. (JPRS 43,577) DS557.A7J6  
Rice culture.  
Translation from Nhan Dan, Oct. 18, 1967:2. Issued by CFSTI.
- 86026 NGUYEN-VAN-LUAT. Intensive cultivation of spring rice seedlings. Joint Publ. Res. Serv. Transl. N. Vietnam 363:26-36. May 10, 1968. (JPRS 45,318) DS557.A7J6  
Translation from Khoa Hoc Ky Thuat Nong Nghiep, Dec. 12, 1967:463-467.  
Issued by CFSTI.
- 86027 OWEN, P. C. The climate of the sub-coastal plains of northern Australia; a comparison with those of other rice-growing areas. Australian Inst. Agr. Sci. J. 33(4):247-253. Dec. 1967. 23 Au74  
Effects on yields.
- 86028 PANGLISH, R. P. Growing grain seeds in the Belorussian SSR. (Rus) Selekt. Semenovodstvo 2:1-5. Mar./Apr. 1968. 61.9 Se5
- 86029 PANSE, E. Goals in breeding wheat, barley and oats in German Federal Republic. (Cz) Uroda 16(3):87-89. Mar. 1968. 64.8 Z12



- 86030 PAVLOVIC, U. Yields of late crops in 1967. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 648:13-15. May 15, 1968. (JPRS 45,381) 173 J663Ste  
Production regions, acreage of field crops in Yugoslavia.  
Translation from Ekonomika Poljoprivrede, Apr. 1968:286-287.  
Issued by CFSTI.
- 86031 PETER, V. The intensification of the production of corn for grain. (Cz) Uroda 16(3):99-100. Mar. 1968. 64.8 Z12  
With mechanization and application of fertilizers.
- 86032 PHAN QUANG. Cultivation organization suitably arranged. Joint Publ. Res. Serv. Transl. N. Vietnam 316:48-54. Feb. 28, 1968. (JPRS 44,523) DS557.A7J6  
Rice culture.  
Translation from Nhan Dan, Jan. 8, 1968:2.  
Issued by CFSTI.
- 86033 POPOW, G. Orla 234, a new early ripening corn hybrid. (Ge) Mitt. Schweiz. Landwirt. 16(3):51-56. Mar. 1968. 17 M69
- 86034 POPOW, G. Orla 272, a new medium-early corn hybrid. (Ge) Mitt. Schweiz. Landwirt. 16(3):56-59. Mar. 1968. 17 M69
- 86035 POTUCEK, O. The goal in breeding sorghum. (Cz) Uroda 16(6):46-49. Feb. 1968. 64.8 Z12  
Yields and disease resistant varieties.
- 86036 PRIEN, H. G. Considerations on corn culture. (Ge) Mitt. Deut. Landwirt.-Ges. 83(8):212,214-216. Feb. 22, 1968. 18 N39
- 86037 RASMUSSEN, D. C., BEARD, B. H., and JOHNSON, F. K. Effect of natural selection on performance of a barley population. Crop Sci. 7(5):543. Sept./Oct. 1967. 64.8 C883
- 86038 RASUMUSSEN, D. C., and OTTO, H. J. Which are best, pure varieties or mixtures? Minn. Sci. 24(1):12-13. Fall 1967. 100 M668  
Barley yields.
- 86039 REINER, L. The influence of variety on the variability of qualitative characteristics in brewing barley and wheat. (Ge) Z. Acker-Pflanzenbau 127(2):125-130. Feb. 1968. 18 J825  
English summary.
- 86040 ROBERTI, A. Tests of the Launched Hectare: 2d round. (It) Raccolto 9(4):88-91. Apr. 1968. 16 R11  
Corn culture tests.
- 86041 RONQUILLO, B. Miracle in the paddy. Far East Econ. Rev. 60(18):265-267. May 4, 1968. 280.8 F223  
Breeding of high-yield rice varieties in the Philippines.
- 86042 RUDBECK, J. P. Argentine grain crop below expectations. Foreign Agr. 6(21):2-5. May 20, 1968. A281.9 F76Fo
- 86043 RUSMINI, B. Latest results obtained in the genetic improvement of soft and hard wheats at S. Angelo Lodigiano. (It) Bull. Agr. [Milano] 102(4):2-3. Feb. 29, 1968. 16 B87
- 86044 SCHERTZ, K. F., and CLARK, L. E. Controlling dehiscence with plastic bags for hand crosses in sorghum. Crop Sci. 7(5):540-542. Sept./Oct. 1967. 64.8 C883
- 86045 SCIUMBATA, G. Hybrid corn in Ciociaria. (It) Agricoltura 17(2):55-58. Feb. 1968. 16 Ag8226  
English summary, p. 8.
- 86046 SELLSCHOP, J. P. F. Our rye types. Farming S. Afr. 43(10):44. Jan. 1968. 24 So842  
Varieties.
- 86047 SHAH, S., and AHMED, M. S. Correlation of height with yield, its components and protein content in wheat (T. vulgare L.). West Pakistan J. Agr. Res. 5(4):1-9. Ref. Dec. 1967. 22 W52  
In wheat crosses.
- 86048 SHARMA, S. M. Introducing dwarf wheats into India. World Crops 20(1):42-44. Mar. 1968. 281.8 W892
- 86049 SHARMA, S. M. Wheat cultivation in Madhya Pradesh. World Crops 19(6):32-37. Dec. 1967. 281.8 W892
- 86050 SHAW, A. F., MCNEAL, F. H., and WATSON, C. A. Fortuna spring wheat. Mont. State Univ. Ext. Folder 91,6 p.-folder, map. Feb. 1968. 275.29 M76FoL
- 86051 SHULMEISTER, K. Study of crop rotations in the arid districts of the South-East. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 2:39-42. Feb. 1968. 20 V633  
English summary.  
Grain.
- 86052 SINGH, A., and SINGH, B. Indo-Japanese paddy demonstration farms impress farmers. Fert. News 13(5):9-15. May 1968. 57.8 F4123  
Japanese method of rice culture demonstrated in India.
- 86053 SKOPIK, P. Notes on the agrotechnique of grains in France. (Cz) Uroda 16(3):89-91. (Concl.) Mar. 1968. 64.8 Z12
- 86054 SKOPIK, P. Some notes on cultural practices of grains in France. (Cz) Uroda 16(6):44-45. Feb. 1968. 64.8 Z12
- 86055 STANISAVLJEVIC, D. The leading field crop—corn—in Kosovo-Metohija. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 623:14-22. Feb. 6, 1968. (JPRS 44,258) 173 J663Ste  
Cultural methods and yields.  
Translation from Glasnik za Poljoprivredu i Zadrugarstvo 16(12):39-44. Dec. 1967.  
Issued by CFSTI.
- 86056 STRANAK, A., HOMOLKA, L., and CERMAK, J. The rolling of spring barley stands after planting. (Cz) Uroda 16(3):95-96. Mar. 1968. 64.8 Z12
- 86057 STRUTSOVSKAYA, E. S. Methods of estimating resistance of wheat initial material to lodging. (Rus) Selek. Semeonovodstvo 2:28-31. Mar./Apr. 1968. 61.9 Se5
- 86058 SZIRTES, J. Frost resistance and winter character tests with barley for breeding purposes. (Hu) Novenytermeles 1:77-89. Ref. Mar. 1968. 64.8 N76  
English summary.
- 86059 TOMS, W. J. Quality requirements in cereal breeding. Farmer's Sci. Joint Conf. [Proc.], 7th Conf.:44-50. 1967. 27 F22  
Includes discussion.
- 86060 TRENKLE, H. Climate and corn culture from a regional viewpoint. (Ge) Mitt. Deut. Landwirt.-Ges. 83(21):824-825. May 23, 1968. 18 N39  
Best areas for corn culture.
- 86061 TRIFUNOVIC, V. The work of the corn institute [Zemun Polje Zavod za Kukuruz]. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 646:35-39. May 10, 1968. (JPRS 45,315) 173 J663Ste  
Research in production aspects.  
Translation from Poljoprivrede 2:3-6. Feb. 1968.  
Issued by CFSTI.
- 86062 TRIPATHI, R. S., and MALIK, D. S. Performance of different hybrids of maize with different times and methods of sowing. J. Soil Water Conserv. India 15(3/4):10-13. July/Dec. 1967. 56.8 J824
- 86063 TUROVSKII, A. I., and KULESHOV, K. R. Sowing rates for accelerated reproduction of barley and spring wheat seeds. (Rus) Selek. Semeonovodstvo 2:70-71. Mar./Apr. 1968. 61.9 Se5
- 86064 U. S. AGRICULTURAL RESEARCH SERV. NORTHERN UTILIZATION RESEARCH AND DEVELOPMENT DIV. Publications and patents, January-June 1967. Peoria, Illinois, 1967? 47 p. 1.9321 N2L69  
Chiefly grains and oilcrops.
- 86065 VANOSSE, L. Minor cereals. (It) Tec. Molitoria 19(4):109-110. Feb. 29, 1968. 298.8 Se42
- 86066 VARENITSA, E. T. Breeding winter wheat in the central zone of the non-chernozem zone. (Rus) Selek. Semeonovodstvo 2:20-24. Mar./Apr. 1968. 61.9 Se5

- 86067 VIA COLI, J. Hybrid corn. (Sp) Cultiv. Mod. 51(4):46. Apr.1968. 15 C89
- 86068 VLACH, M. Field trials with the world varieties of wheat in regard to the lodging. (Cz) Uroda 16(4):123-125. Apr.1968. 64.8 Z12
- 86069 VONKA, Z., and FORAL, A. On some problems of harvesting spring barley. (Cz) Uroda 16(5):166-168. May 1968. 64.8 Z12
- 86070 VYTRAS, Z. Cultural practices aimed at the high yields of wheat. (Cz) Uroda 16(4):131-132. Apr.1968. 64.8 Z12
- 86071 WAGENINGEN. INSTITUUT VOOR RASSENONDERZOEK VAN LANDBOUWGEWASSEN. Aomertarwe [Summer wheat], 1968. Wageningen. Inst. Rassenonderzoek Landbouwgewassen. Ber. Rassenkeuze 407,4 p. Jan.1968. 64.9 W12 Variety trials.
- 86072 WAGENINGEN. INSTITUUT VOOR RASSENONDERZOEK VAN LANDBOUWGEWASSEN. Haver [Oats], 1968. Wageningen. Inst. Rassenonderzoek Landbouwgewassen. Ber. Rassenkeuze 409,4 p. Jan.1968. 64.9 W12 Varieties.
- 86073 WAGENINGEN. INSTITUUT VOOR RASSENONDERZOEK VAN LANDBOUWGEWASSEN. Zomergerst [Summer barley], 1968. Wageningen. Inst. Rassenonderzoek Landbouwgewassen. Ber. Rassenkeuze 408,5 p. Jan.1968. 64.9 W12 Variety trials.
- 86074 WALT, K., and GOTTFELD, F. Kleinmalzungsergebnisse mehr jähriger Sommergersten-Sortenversuche 1964-1966 [Results of field trials with varieties of summer barley regarding fine malt]. Vienna. Bundesanst. Pflanzen Samenprüfung. Mitt. Versuchsergeb. 141,53 p. Nov.1967. 64.9 V67
- 86075 WELLS, D. G., ALBRECHTSEN, R. S., and YEH, Y. Y. Jointing and survival of rye plants and clones through successive seasons. Crop Sci. 7(5):473-474. Sept./Oct.1967. 64.8 C883
- 86076 WEST OF SCOTLAND AGRICULTURAL COLLEGE. Cereal variety recommendations 1968. West Scot. Agr. Coll. County Adv. Leaflet 451, 4 p.-folder. Nov.1967. 103 W52Ad
- 86077 YATSENKO, N. Rice culture in the Uzbek SSR. (Rus) Selekt. Semenovodstvo 2:45-46. Mar./Apr.1968. 61.9 Se5
- 86078 YORK, J. O. Arkansas grain sorghum performance tests for 1967. Ark. Agr. Exp. Sta. Mimeogr. Ser. 168,14 p. Mar.1968. 100 Ar42M Hybrid yields.
- 86079 ZABAZNYI, P. Taking care of winter grain in the spring. (Rus) Zemledelie 3:14-16. Mar. 1968. 20 Z44 Cultural practices.
- 86080 ZWEIFLER, E., and HOLUBAR, G. Ergebnisse der Kornermals-Sortenversuche [Results of field trials of varieties of corn grown for grain]. Vienna. Bundesanst. Pflanzen Samenprüfung. Mitt. Versuchsergeb. 144,23 p. Jan. 1968. 64.9 V67
- Fiber Crops
- 86081 ALIBEKOV, A. Using solutions for cleaning and grading seeds before planting. (Rus) Khlopkovodstvo 3:43-44. Mar.1968. 72.8 K522 Cotton.
- 86082 ARINSHTAIN, A. I., and KHRENNIKOVA, G. A. Breeding hemp to improve the fibers. (Rus) Selekt. Semenovodstvo 2:46. Mar./Apr.1968. 61.9 Se5
- 86083 BOCSA, I. Recent results of hemp breeding in Hungary. (Hu) Magyar Textiltech. 49(2):75-78. Feb.1968. 304.8 M27 English summary, p.4 of content.
- 86084 CHAPMAN, L. J. Cotton handbook for Alabama. Auburn Univ. Ext. Circ. P-42,11 p. Mar.1968. 275.29 AL14Cp Chiefly culture.
- 86085 DE JONG, J. A guide to cotton reaping. Rhodesian Tobacco J. 20(4):41,43. Apr.1968. 69.8 R31
- 86086 DOLGOV, B. S. Crops to precede flax in the foreign countries. (Rus) Len Konoplya 4:37-38. 1968. 73.8 L542 Western Hemisphere.
- 86087 ESKEW, E. B. Performance of cotton varieties in South Carolina. S. C. Agr. Exp. Sta. Agron. Soils Res. Ser. 68,28 p. Apr.1968. 56.9 So84 Quality and yield.
- 86088 HALDERMAN, A. D., BRIGGS, R. E., and LARSEN, W. E. Will variable-row spacing cut cotton costs and save water? Progr. Agr. Ariz. 20(2):6-8. Mar./Apr.1968. 6 P9452 Irrigation.
- 86089 HARPER, J. L., and OBETD, M. Influence of seed size and depth of sowing on the establishment and growth of varieties of fiber and oil flax. Crop Sci. 7(5):527-532. Ref. Sept./Oct. 1967. 64.8 C883
- 86090 ISANOV, M. I. Combinational abilities of some cotton varieties. (Rus) Khlopkovodstvo 2:23, 26. Feb.1968. 72.8 K522 In breeding.
- 86091 KHANKISHEV, V. S. Alfalfa—as important source of accumulation of organic matter in soil. (Rus) Khlopkovodstvo 4:15-16. Apr.1968. 72.8 K522 Rotation of crops in cotton growing.
- 86092 KONISHEV, P., and TOPALOV, V. Tendencies in the development of cotton production in Bulgaria. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 619:1-14. Jan.17,1968. (JPRS 44,034) 173 J663Ste Translation from Selskostopanska Nauka 3: 9-18. July/Sept.1967. Issued by CFSTI.
- 86093 MALININ, V. M. Cotton varieties resistant to wilt. (Rus) Khlopkovodstvo 3:32. Mar.1968. 72.8 K522
- 86094 MARCIOTTE, C. V. Increased flax production through improved varieties. (Sp) Bolsa Com. Rosario. Rev. 56(1346):3-5. Feb.29,1968. 287 R71
- 86095 NIGMANKHODZHAEVA, M. S., and ZAINUTDINOV, S. Chemical and mechanical properties of cotton fibers, grown on artificially prepared soil with the polymer K-4. (Rus) Akad. Nauk Uzb. SSR. Dokl. 9:37-38. 1967. 511 U21
- 86096 PROCHAZKA, F. The breeding of flax and its perspectives. (Cz) Uroda 16(4):135. Apr.1968. 64.8 Z12
- 86097 RUDENKO, L. S. Correlation of attributes in cotton. (Rus) Khlopkovodstvo 2:20-22. Feb. 1968. 72.8 K522 Breeding.
- 86098 RYZHOV, S. N. Contemporary requirements for soil fertility and rotation of crops in the cotton zone of the Central Asia. (Rus) Khlopkovodstvo 2:10-14. Feb.1968. 72.8 K522 Cotton culture.
- 86099 SEMBRATOV, A. A. The most suitable planting date—promises high yields. (Rus) Khlopkovodstvo 3:20. Mar.1968. 72.8 K522 Cotton.
- 86100 TER-AVANESYAN, D. V., and BELOVA, Z. F. Initial material in selecting cotton varieties, resistant to wilt. (Rus) Khlopkovodstvo 2:26-28. Feb.1968. 72.8 K522
- 86101 WAGENINGEN. INSTITUUT VOOR RASSENONDERZOEK VAN LANDBOUWGEWASSEN. Vezelvlas [Fiber flax], 1968. Wageningen. Inst. Rassenonderzoek Landbouwgewassen. Ber. Rassenkeuze 411,2 p. Jan.1968. 64.9 W12 Variety trials.
- Forage Crops and Grasses
- 86102 AGADZHANYAN, G. A. Alfalfa variety the Veselopodolianskaya 11—a promising variety for the forest-steppe zone of Ukraine. (Rus) Selekt. Semenovodstvo 2:67-68. Mar./Apr. 1968. 61.9 Se5



- 86103 ALEKSEEV, E. D. Green cut cultures on the peat soils. (Rus) Zhivotnovodstvo 4:51-52. Apr.1968. 49 Z6
- 86104 ALVELID, S. Red clover and blue lucerne. (Sw) Kalmar Lans Hushallningssallsk. Tidskr. 2:21-29. Apr.1968. 11 K123  
Variety trials.
- 86105 AYRES, G. E. Harvesting alfalfa leaves. Hoard's Dairyman 113(11):699. June 10,1968. 44.8 H65
- 86106 BECKA, K., and VYSKOCIL, B. New methods of cultivation of rape for feed. (Cz) Uroda 16 (5):179-180. May 1968. 64.8 Z12
- 86107 BELEA, A. Examination of the  $F_1$  hybrids of *Aegilops cylindrica* host  $\times$  *Triticum aestivum* L. Acta Agron. [Budapest] 17(1/2):151-160. Ref. 1968. 19 Ac8
- 86108 BESSARABOV, E. Increasing productivity of pastures and meadows. (Rus) Tekh. Sel'skom Khoz. 12:25-28. 1967. 58.8 M11  
By proper management.
- 86109 BISSET, W. J. Fine stem stylo in spear grass country. Queensland Agr. J. 94(4):238-240. Apr.1968. 23 Q33  
*Stylosanthes gracilis*.
- 86110 BOTTAZZI, A. Summer herbage; hybrid corn and sorghums. (It) G. Agr. 78(17):227-228. Apr.28,1968. 16 It1G
- 86111 BOVEY, R. W., and KEHR, W. R. New desiccants for alfalfa seed production. Crop Sci. 7 (5):542. Sept./Oct.1967. 64.8 C883
- 86112 BROOKS, D. R. Townsville lucerne [*Stylosanthes humilis*] a low-cost improvement for beef areas of the Clarence Valley. Agr. Gaz. New S. Wales 79(4):199-208. Apr.1968. 23 N472  
Culture.
- 86113 BUCKNER, B. C., and THOMPSON, W. C. Grass seed production. Ky. Univ. Ext. Leaflet. 246-A, rev. 4 p. Jan.1968. 275.29 K415Le
- 86114 CAMERON, I. H., and MCGOWAN, A. A. Comparative productivity of some cultivars of subterranean clover (*Trifolium subterraneum*) in north-eastern Victoria. Australian J. Exp. Agr. Anim. Husb. 8(30):46-51. Feb.1968. 23 Au792
- 86115 CELIDONIO, C. The function of forage grains with waxy ripening in the solution of the national livestock problem. (It) Colt. G. Vinicolo Ital. 114(1/2):12-20. Jan./Feb.1968. 16 C72  
Culture and rations.
- 86116 COOPER, C. S., ROATH, C. W., and ESLICK, R. F. Red clover hay production in Montana. Mont. Agr. Exp. Sta. Bull. 615, 7 p. Apr.1967. 100 M76  
Culture.
- 86117 DAVIES, W. E., and YOUNG, N. R. The characteristics of European, Mediterranean and other populations of white clover (*Trifolium repens* L.). Euphytica 16(3):330-340, map. Ref. Dec. 1967. 450 Eu6  
Studies for a breeding program in Scotland.
- 86118 DOLGE, K. L. How to harvest the full potentials of pasture. Agway Coop. 4(3):27. Apr. 1968. 280.28 Ag9  
Pasture management.
- 86119 ENGLISH, S. A., and ARMSTRONG, D. L. Plan your grassland. Agr. Northern Ireland 42(11): 365-366. Mar.1968. 256.13 Ag82M
- 86120 FARRAGHER, M. A. Lucerne investigations. I. The agronomic behaviour of South African and other varieties of lucerne from the southern hemisphere under Irish conditions. Irish J. Agr. Res. 7(1):73-79. Ref. Apr.1968. 10.5 Ir45
- 86121 FOSTER, C. A. Ryegrass (*Lolium perenne*) hybridization: the effect of artificial isolation materials on seed yield and floral environment. Euphytica 17(1):102-109. Ref. Apr.1968. 450 Eu6  
Comparison of glassine and terylene pollination bags.
- 86122 GALINDO, A. Vetch, great resource. (Sp) Cultiv. Mod. 51(2):50-51. Feb.1968. 15 C89  
Chiefly culture.
- 86123 HASHIMOTO, T., and YOSHIDA, K. Regrowth habit and cutting time of ladino-clover. (Ja) Takada. Hokuriku Agr. Exp. Sta. Bull. 9:15-45. Ref. Mar.1968. 107.6 T134  
English summary.
- 86124 HAUSSMANN, G., and CHISCI, G. Determination of the optimum stocking-rate by means of measuring the growth of grass. (Fr) Fourrages 32:41-56. Dec.1967. 60.8 F82  
English summary, p.104.
- 86125 HAYAKAWA, Y., and ITO, I. Studies on the character and management of permanent pasture. I. On the pasturable height of herbage in accordance with time of pasturage. (Ja) Hokkaido Nat. Agr. Exp. Sta. Res. Bull. 92:62-72. Ref. Feb.1968. 107.6 H68  
English summary.
- 86126 HAYES, P. Simple grass seed mixtures. Agr. Northern Ireland 42(11):357-360. Mar.1968. 256.13 Ag82M
- 86127 HENSON, P. R., SCHOTCH, H. A., and MCKEE, R. Vetch culture and uses. U. S. D. A. Farmers' Bull. 1740, rev., 22 p. Mar.1968. 1 Ag84F  
Forage plant and feed.
- 86128 HIDALGO MAYNAR, F. The culture of alfalfa in Spain. (Sp) Inst. Agr. Catalan San Isidro. Ref. 117(1):3-11. Jan.1968. 15 Sa5
- 86129 HODGES, E. M., and MCCAULEY, J. E. Legumes are needed in our summer pastures. Fla. Cattleman Livestock J. 32(9):30. June 1968. 43.8 F66
- 86130 HOLMES, W., and others. Growing, grazing and conserving grass. I. Farmers' Club J, Mar.1968:1-14. 10 L84  
J. R. Clapham, J. S. Morrey, F. Jackson, and G. Alderman, joint authors.  
Includes grazing of sheep and dairy cattle.
- 86131 HOVELAND, C. S., and JOHNSON, W. C. Natural selection of ball clover ecotypes in reseeded pastures. Crop Sci. 7(5):544. Sept./Oct. 1967. 64.8 C883
- 86132 IVANOV, D. A. Kul'turnye pastbishcha [Cultivated pastures]. Leningrad, Lenizdat, 1967. 156 p. Ref. SB199.19
- 86133 JOHNSON, J. R. Pastures in Georgia. Ga. Univ. Ext. Bull. 573, rev., 62 p., map. Sept.1967. 275.29 G29B
- 86134 JOHNSTON, T. D. The measurement of stem toughness in marrow-stem kale using a simple laboratory penetrometer. Euphytica 16(3):365-369. Dec.1967. 450 Eu6  
Quality testing for breeding purposes.
- 86135 JOSEFSSON, E. Method for quantitative determination of p-hydroxybenzyl isothiocyanate in digests of seed meal of *Sinapis alba* L. J. Sci. Food Agr. 19(4):192-194. Ref. Apr.1968. 382 So12  
For use in plant breeding.
- 86136 KIEPE, H. Erfolgreiche Grünlandbewirtschaftung [Successful grassland management]. Mitt. Deut. Landwirt.-Ges. Illus. Beilage 2, 8 p. Nov.4,1968. 18 N39A
- 86137 KLAPP, E. The history of rotational grazing. (Ge) Wirtschaftseigene Futter 14(2):137-149. Ref. Apr.1968. 389.79 F98  
English summary.
- 86138 KOLAR, J. J., ROYLANCE, H. B., and RIDLEY, J. R. Cultural practices in alfalfa seed production. Idaho. Univ. Ext. Idaho. Curr. Inform. Ser. 65, 3 p. Feb.1968. 275.29 Id13Idc
- 86139 KUKEDI, E. Seeding rate experiments with hybrid sudangrass (Hybar Mv 301). (Hu) Növénytermelés 1:49-57. Ref. Mar.1968. 64.8 N76  
English summary.
- 86140 LAUNDERS, T. E. Don't dismiss irrigated subterranean clover for the Northwest. Agr. Gaz. New S. Wales 79(3):143-146. Mar.1968. 23 N472
- 86141 LAUNDERS, T. E. Piper—a new sudan grass that rivals hybrid forages for grazing. Agr. Gaz. New S. Wales 79(3):130-133. Mar.1968. 23 N472

- 86142 LEGGETT, E. K. Broad-leaf Paspalum [*Paspalum wettsteinii*], a new Paspalum for the north coast. Agr. Gaz. New S. Wales 78(12): 690-693. Dec.1967. 23 N472 Culture.
- 86143 LONCHAMP, J. P., BARRALIS, G., and LAIS-SUS, R. Study of the evolution of the grassland flora after seeding following a chemical tillage. (Fr) Fourrages 32:29-40. Dec.1967. 60.8 F82 English summary, p.103.
- 86144 MACADAM, R. D., and NOONAN, J. B. Lucerne growing in the Manning District. Agr. Gaz. New S. Wales 79(4):223-228. Apr.1968. 23 N472
- 86145 MALIK, O. Palava, a new variety of alfalfa. (Cz) Uroda 16(5):173-174. May 1968. 64.8 Z12
- 86146 MARUNIAK, M. H. Alfalfa. (Sp) Vida Agr. [Lima] 45(522):105-106. 1968. 9.8 V66 Culture and feed value.
- 86147 MCLACHLAN, K. D. Stocking rate and the superphosphate requirements of sown pasture on an acid soil. Australian J. Exp. Agr. Anim. Husb. 8(30):33-39. Feb.1968. 23 Au792
- 86148 MCLEOD, C. C. Cutting effect on lucerne production. New Zeal. J. Agr. 116(5):61,63. May 1968. 23 N48J
- 86149 METHODOICAL instructions concerning production of elite seeds of the perennial grasses. (Rus) Selek. Semenovodstvo 2:47-48. Mar./Apr.1968. 61.9 Se5
- 86150 MILLER, H. P., and PERRY, R. A. Preliminary studies on the establishment of Townsville lucerne (*Stylosanthes humilis*) in uncleared native pasture at Katherine, N.T. Australian J. Exp. Agr. Anim. Husb. 8(30):26-32. Feb.1968. 23 Au792
- 86151 MORRISON, K. J., and EVANS, D. W. Washoe alfalfa. Wash. State Univ. Ext. E. M. 2898, 2 p. Feb.1968. 275.29 W27Mi
- 86152 MOTT, N. Nutrient losses during pasturing season. (Ge) Mitt. Deut. Landwirt.-Ges. 83 (13):436-439. Mar.28,1968. 18 N39 Management.
- 86153 NOONAN, J. B. Fodder cane, a valuable fodder crop for the north coast. Agr. Gaz. New S. Wales 78(12):721-727. Dec.1967. 23 N472 Culture.
- 86154 PARDEE, W. D. Program for 10 tons of alfalfa. Hoard's Dairyman 113(11):693,720. June 10,1968. 44.8 H65
- 86155 POKORAY, B., and SUCHOMAN, K. Spring cultural practices for winter and perennial forage plants. (Cz) Uroda 16(6):56-57. Feb.1968. 64.8 Z12
- 86156 PRIBYL, F. The causes of low yields of alfalfa grown for seed. (Cz) Uroda 16(4):155-156. Apr.1968. 64.8 Z12
- 86157 PRIBYL, F. Cultural practices of alfalfa stands for seed. (Cz) Uroda 16(3):115-116. Mar.1968. 64.8 Z12
- 86158 PROSKURA, I. P. Effect of the size of lupine seeds on its yields. (Rus) Selek. Semenovodstvo 2:65-66. Mar./Apr.1968. 61.9 Se5
- 86159 RELWANI, L. L., and others. "Sesbania grandiflora"—a fodder tree for the Tropics. Indian Dairyman 20(1):31-32. (Concl.) Jan.1968. 44.8 In282
- 86160 ROGERS, G. L. High stocking rates; how far can we go? Dairyfarming Dig. 15(2):19-24. Mar./Apr.1968. 44.8 D1443 Dairy cattle pastures management.
- 86161 ROYLANCE, H. B. Chemical curing of alfalfa seed crops. Idaho. Univ. Ext. Idaho. Curr. Inform. Ser. 69,2 p. Mar.1968. 275.29 Id13Idc Defoliation for harvest.
- 86162 RYABOV, N. V. Catch crops in the green grazing system. (Rus) Zhivotnovodstvo 4:49. Apr.1968. 49 Z6
- 86163 SARIC, O., and BATINICA, D. The quality of hay from farms of Bosnia and Herzegovina. (Se) Arh. Poljoprivredne Nauk. 20(68):3-16. Ref. 1967. 21.5 Y9 English summary. Includes harvesting, processing and properties.
- 86164 SCHALLER, F. W., and WEDIN, W. F. Birds-foot trefoil makes good pasture. Hoard's Dairyman 113(8):524,553. Apr.25,1968. 44.8 H65 Culture.
- 86165 SCHWEIZER, E. W. Forage culture in the late spring 1968. (Ge) Grune 96(16):553-554. Apr.19,1968. 17 Sch9 Switzerland.
- 86166 SEN, S., CHAUDHURI, A. P., and ROY, S. R. Oats—a companion crop of berseem and lucerne. Gosamvardhana 15(10):14-16. Jan. 1968. 43.8 G69 Cultural trials and forage yields in India.
- 86167 SHASHKOV, A., and KHRAMOV, M. More attention to kohlrabi. (Rus) Zemledelie 3:60-61. Mar.1968. 20 Z44 As forage plant; includes culture.
- 86168 SIDDIQUE, M., KHAN, M. A., and SHAKOOR, A. Sorghum sudangrass hybrids for forage. West Pakistan J. Agr. Res. 6(1):60-72. Ref. Mar.1968. 22 W52
- 86169 SIMPSON, I. H., and ROBINSON, G. G. Increased stocking rates profitable during drought at Shannon Vale. Agr. Gaz. New S. Wales 79(4):220-222. Apr.1968. 23 N472 Sheep pastures.
- 86170 SINGH, A. Berseem: for fodder and soil fertility. Gosamvardhana 15(10):25-28. Jan. 1968. 43.8 G69
- 86171 SMID, A., and KOHOUT, V. The culture of red clover for two production years. (Cz) Uroda 16(6):69-70. Feb.1968. 64.8 Z12
- 86172 SPAHR, S. L., ORMISTON, E. E., and PETERSON, R. G. Sorghum-Sudan hybrid SX-11, Piper Sudan grass, and alfalfa-orchardgrass for dairy pastures. J. Dairy Sci. 50(12):1925-1934. Dec.1967. 44.8 J822 Management and milk production.
- 86173 STAHLIN, A., and CROSSMANN, G. Maize as a green fodder plant. (Ge) Wirtschaftseigene Futter 14(2):150-163. Ref. Apr.1968. 389.79 F98 English summary. Culture.
- 86174 STAHLIN, A. Maize as a plant for ensiling. (Ge) Wirtschaftseigene Futter 14(2):164-176. Ref. Apr.1968. 389.79 F98 English summary. Culture and ensiling.
- 86175 STEEN, E. Intensive ley farming for milk production. (Sw) Vaxt-Naring-Vytt 1:12-16. 1968. 57.8 V47 English summary, p.3.
- 86176 STOLYAROV, S. S. Growing Far East rice variety as forage plant, in shallow water. (Rus) Zhivotnovodstvo 4:53-54. Apr.1968. 49 Z6
- 86177 SUTTIE, J. M. Pasture legume research in Kenya. East Afr. Agr. Forest. J. 33(3):281-285. Ref. Jan.1968. 24 Ea74
- 86178 SVEREPOVA, G. The hybrid Melica aschersonii M. Schulze; preliminary report. (Ge) Preslia 40(1):52-59. Ref. 1968. 450 P92 Produced by the crossing of Melica nutans and M. picta.
- 86179 TEXAS. AGRICULTURAL EXPERIMENT STATION. Higgins buffelgrass. Tex. Agr. Exp. Sta. L-731,4 p.,map. Feb.1968. 275.29 T313 New variety.
- 86180 THOMPSON, W. C., and BUCKNER, R. C. Growing Clair timothy. Ky. Univ. Ext. Leaflet 252-A, rev. 4 p. Jan.1968. 275.29 K415Le
- 86181 TRNKA, M. Results of statewide field trials with oat varieties for ensiling. (Cz) Uroda 16(6):45-46. Feb.1968. 64.8 Z12



- 86182 TSUCHIYA, S., KITAHARA, S., and FUKUOKA, H. The new variety of forage turnip "kenshin kabu." (Ja) Takada, Hokuriku Agr. Exp. Sta. Bull. 9:1-13. Mar.1968. 107.6 T134  
English summary.  
Includes disease resistance.
- 86183 VEIGA, J. S. Pastures and animal health. (Por) Gaz. Agr. Angola 13(2):105,108. Feb. 1968. 24 G252  
Chiefly management.
- 86184 VOIGTLANDER, G. Uptake of nutrients and growth substances on going out to pasture. (Ge) Mitt. Deut. Landwirt.-Ges. 83(13):434-436. Mar.28,1968. 18 N39  
Pasture management and fertilizing for dairy cattle feeding.
- 86185 WAGENINGEN, INSTITUUT VOOR RASSENONDERZOEK VAN LANDBOUWGEWASSEN. Bericht over rassenkeuze [Forage beets]. Wageningen. Inst. Rassenonderzoek Landbouwgewassen. Ber. Rassenkeuze 414,6 p. Feb.1968. 64.9 W12  
Variety trials.
- 86186 WAGENINGEN, INSTITUUT VOOR RASSENONDERZOEK VAN LANDBOUWGEWASSEN. Luzerne [Alfalfa], 1968. Wageningen. Inst. Rassenonderzoek Landbouwgewassen. Ber. Rassenkeuze 413,6 p. Feb.1968. 64.9 W12  
Variety trials.
- 86187 WEST OF SCOTLAND AGRICULTURAL COLLEGE. Recommended varieties of herbage plants. West Scot. Agr. Coll. County Adv. Leaflet. 86,4 p. Jan.1968. 103 W52Ad
- 86188 WHEELER, J. L. Major problems in winter grazing. Herbage Abs. 38(1):11-18. Mar.1968. 281 Im733  
Review of the literature.
- 86189 WILLIAMS, S. G. Growing irrigated lucerne. S. Australia J. Agr. 71(9):306-318. Apr.1968. 23 So84  
Cultural methods under irrigation.
- 86190 WOLFFHARDT, D. Ergebnisse von Sortenversuchen mit Futterpflanzen 1965-1967 [Results of variety trials with forage plants, 1965-1967]. Vienna. Bundesanst. Pflanzen Samenprufung. Mitt. Versuchsergeb. 146,59 p. Feb.1968. 64.9 V67
- 86191 WREDE, H. Persian and Egyptian clover in competition. (Ge) Mitt. Deut. Landwirt.-Ges. 83(17):588,590-592. Apr.25,1968. 18 N39
- 86192 WRIGHT, C. E. Stormont Zephyr—new perennial ryegrass. Agr. Northern Ireland 42(11):361-364. Mar.1968. 256.13 Ag82M
- Oil Crops
- 86193 ABEL, G. H. Dart, new safflower for the Salt River Valley. Progr. Agr. Ariz. 20(2):24. Mar./Apr.1968. 6 P9452
- 86194 BOND, D. Peanut production guide for Alabama. Auburn Univ. Ext. Circ. P-82,19 p. Dec.1967. 275.29 AL14Cp
- 86195 CIRIMPEI, I. Aspects concerning the soybean growing in the state agricultural enterprises from the region of Suceava. (Rum) Probl. Agr. [Bucharest] 20(2):76-78. 1968. 21 R862
- 86196 DILLON, J. E., and others. 1967 soybean variety performance in Illinois. Ill. Univ. Ext. Circ. 978,10 p.,map. Feb.1968. 275.29 IL62C  
R. L. Bernard, D. W. Graffis, and W. O. Scott, joint authors.
- 86197 HARBISON, J. A place in Qld. for safflower. Queensland Agr. J. 94(4):203-211. (Cont.) Apr.1968. 23 Q33  
Culture.
- 86198 HENKES, R. Sunflowers; oil seed crop on the move. World Farming 10(4):11-14,16,34-35. Apr.1968. 30.08 W89  
Chiefly culture and breeding.
- 86199 HODGES, D. J. Oil seed rape trials. Agr. Northern Ireland 42(11):367-368. Mar.1968. 256.13 Ag82M
- 86200 HUBBARD, A. B. Seedbed preparation and weed eradication. Soybean Dig. 28(4):20. Feb. 1968. 60.38 So9  
With cultivators.
- 86201 LE GIANG. Cultivation of soybeans in Ngan Son. Joint Publ. Res. Serv. Transl. N. Vietnam 372:83-85. May 22,1968. (JPRS 45,464) DS557.A7J6  
Translation from Nhan Dan, Apr.20,1968:2. Issued by CFSTI.
- 86202 LLOYD, G. H. Canada expands acreages of most oilseeds. Foreign Agr. 6(22):6. May 27, 1968. A281.9 F76Fo
- 86203 LOOF, O., and JONSSON, R. Fall oil plant varieties. (Sw) Allmänna Svenska Utsadesaktiebol. Svalof 1:7-13. 1967. 61.9 Sv22
- 86204 PACKARD, R. L. Indian farmers reap record oilseed crop. Foreign Agr. 6(23):7-8. June 3, 1968. A281.9 F76Fo
- 86205 PHILLIPS, S. H., and SHANE, J. F. Growing soybeans in Kentucky. Ky. Univ. Ext. Leaflet. 178-D, rev., 8 p.-folder. Jan.1968. 275.29 K415Le
- 86206 VLADUTU, I. The behaviour of certain varieties and lines of soybean in the conditions of Livada Station—Region of Maramures. (Rum) Probl. Agr. [Bucharest] 20(2):20-28. 1968. 21 R862  
English summary.
- 86207 WOOD, I. M. W. The effects of seed size, seed treatment, method of shelling, and organic matter on the establishment of peanuts (*Arachis hypogaea*) at Katherine, N.T. Australian J. Exp. Agr. Anim. Husb. 8(30):81-84. Ref. Feb.1968. 23 Au792
- Sugar Crops
- 86208 BACHMANN, E., and OEHME, H. Improvement of yield and quality in sugar beet culture. (Ge) Feldwirtschaft 9(3):116-118. Mar.1968. 18 W763
- 86209 BORNESCHEUER, E. Revolution in the beet field. (Ge) Mitt. Deut. Landwirt.-Ges. 83(14):475-476. Apr.4,1968. 18 N39  
Culture.
- 86210 CHERNOV, YU. P., and STEPANENKO, I. D. Scientific approach to the determination of sugar beet harvesting and processing dates. (Rus) Sakharn. Prom. 3:57-59. Mar.1968. 65.8 Sa2
- 86211 COHEN, A. Advances in sugar beet growing. (He) Agr. Israel 13(6/7):49-52. Mar./Apr. 1968. 22.5 Ag825
- 86212 DAY, R. Environment: it's up to you. Sugar Beet 55:21-23. Spring 1968. 66.8 Su34B  
Proper cultural methods to outweigh non-controllable factors.
- 86213 EASTON, B. E. Super seed, faultless chemicals brighten beet industry's future. Sugar Beet 55:6-9. Spring 1968. 66.8 Su34B
- 86214 FASIHI, S. U. D., and AHMAD, H. Performance of some promising early maturing cane varieties at the Sugar-Cane Research Station, Risalewala, Lyallpur. West Pakistan J. Agr. Res. 5(4):10-21. Dec.1967. 22 W52
- 86215 FIEDLER, J. The culture of sugar beets in 1967 and in 1968. (Cz) Uroda 16(4):145-147. Apr.1968. 64.8 Z12  
Includes mechanization.
- 86216 INTERNATIONAL INSTITUTE FOR SUGAR BEET RESEARCH. Sugar-beet glossary, including lists of diseases, pests and weeds in English, French, German and Latin. Amsterdam, Elsevier, 1967. 178 p. (Glossaria Interpretum, 13) SB221.15
- 86217 KOELLING, M. R. Rooting ability of sugar maple cuttings depends on date of collection in each region. Tree Planters' Notes 19(1):20-22. Mar.1968. 1.962 C5T71  
Vermont.
- 86218 MELJER, E. N. C. Seed spacing in precision drilling of sugar beet. (Du) Landbouwmecanisatie 19(4):341-344. Apr.1968. 58.8 L2352  
English summary.
- 86219 MIAN, O. J., and KHAN, A. R. The yield of sugar-cane as affected by different rotations in the Peshawar valley. West Pakistan J. Agr. Res. 6(1):54-57. Mar.1968. 22 W52

- 86220 MINX, L. A contribution to the new method of cultivation of sugar beets. (Cz) Uroda 16(3): 103-105. Mar.1968. 64.8 Z12
- 86221 NYPL, J. The precision planting and spacing of seed sugar beets. (Cz) Czech. Min. Zemel. Les. Hospodar. Ustav Vedeckotech. Inform. Rostlinna Vyroba 41(2):193-200. Ref. Feb. 1968. 64.9 C33  
English summary.
- 86222 PRECHT, C. Stand counts, weed tallies show mechanization a better way to go. Sugar Beet 55:24-25. Spring 1968. 66.8 Su34B  
Mechanical thinning.
- 86223 QUEENSLAND. BUR. OF SUGAR EXPERIMENT STATIONS. 67th annual report. Brisbane, 1967. 91 p. 65.9 Q3
- 86224 SANDALOV, B. G., SHUTENKO, I. A., and MORGATSKII, E. E. Semenovodstvo sakharnoi svekly [Producing seeds of sugar beets]. Krasnodar, Krasnodarskoe Knizhnoe Izdatel'stvo, 1967. 191 p. Ref. SB220.R9S2
- 86225 ZAVADIL, S. Perspectives for the culture of sugar beets. (Cz) Uroda 16(6):62-64. Feb. 1968. 64.8 Z12

#### Tobacco

- 86226 BAILOV, D. Soviet literature on tobacco and development of tobacco science in Bulgaria. (Bu) Bulg. Tyutyun 8/9:39-45. 1967. 69.8 B872
- 86227 LEONOV, I. P. Achievements of All-Union Scientific-Research Institute of Tobacco Growing [Vsesoyuznyi Nauchno-Issledovatel'skii Institut Tabaka i Makhorki] in fifty years of the Soviet rule. (Bu) Bulg. Tyutyun 7:4-8. 1967. 69.8 B872
- 86228 MASSIE, I. E., EVERETTE, G. A., and SMILEY, J. H. Burley tobacco production. Ky. Univ. Ext. Circ. 616, 68 p. Jan.1968. 275.29 K415  
Chiefly culture.
- 86229 PERFANOV, G. The proportion of water erosion as affected by various transplanting dates of tobacco. (Bu) Bulg. Tyutyun 6:4-8. 1967. 69.8 B872  
Mountain areas.
- 86230 SCHAFFELHOFER, H. Burley experiments in Bulgaria. Tabak-J. Int. 1:12. Feb.20,1968. 286.89 T117  
Text also in German.
- 86231 SHABANOV, D., and others. Contribution of Soviet science to the development of scientific research work on tobacco in Bulgaria. (Bu) Bulg. Tyutyun 8/9:34-38. 1967. 69.8 B872  
A. Manolov, Kh. Gruncharov, N. Donev, L. Dimitrov, and A. Alkalai, joint authors.
- 86232 YANAKIEVA, E., and STOYANOVA, R. Results of testing the non-flowering and late flowering Sekirka type of tobacco. (Bu) Bulg. Tyutyun 7:22-25. 1967. 69.8 B872

#### HORTICULTURAL CROPS

- 86233 BARNETT, D. C. Allotments and the problem of rural poverty, 1780-1840. In Jones, E. L., and Mingay, G. E. Land, labour and population in the industrial revolution, p.162-183, map. Ref. 1968. HC254.5J6
- 86234 BRAZDA, F. The use of plastics in horticulture. (Cz) Zahradnicke Listy 61(4):114-115. 1968. 80 Z12
- 86235 DELVAUX, P. What about horticultural instruction? (Fl) Tuinbouwbericht 32(4):138-139. Apr.1968. 80 T817
- 86236 JORD-Groda-Djur [Soils-crops-livestock], 1968, v. 24. Stockholm, 1968. 237 p. 11 J763  
Horticulture.
- 86237 LALATTA, F. Conferences on fruit culture, viticulture, olive culture. (It) Agricoltura 17(1):77-83. Jan.1968. 16 Ag8226  
English summary, p.9.

- 86238 NAFTALIN, M. L. Historic books and manuscripts concerning horticulture and forestry in the collection of the National Agricultural Library. U. S. Natl. Agr. Libr. Libr. List 90, 106 p. June 1968. 1.916 L612
- 86239 NOBILE, S. Horticultural crops under glass on the Ragusa coast. (It) Raccolto 9(4):71-76. Apr.1968. 16 R11
- 86240 SONDERN, J. A. Interesting prospects for white light reflecting plastic as soil cover. (Du) Groenten Fruit 23(34):1539. Mar.6,1968. 80 G89  
In horticulture.
- 86241 VOLLSTEDT, R. Garden stores, 1968. I-II. Seed World 102(7):16-17; (8):20-21. Apr.26, 1968. 61.8 Se52

#### Fruit - General

- 86242 KLANG, C. A. Nursery culture. (Sw) Jord-Groda-Djur 24:127-150. 1968. 11 J763  
Fruit and roses.
- 86243 KUZHELENKO, V. The problems of scientists in Moldavia. (Rus) Sadovodstvo 12:30. Dec. 1967. 80 Sa13  
Fruit research programs.
- 86244 LOTZ, E. Education for fruit culture today and tomorrow. (Ge) Ausbildung Beratung Land-Hauswirtsch. 21(5):95-96. 1968. 18 N11
- 86245 MOORE, C. S. The course of variation in fruit tree experiments. J. Hort. Sci. 43(2):121-131. Apr.1968. 80 J825
- 86246 SIDORENKO, M. F. Experimental work performed by Melitopol scientists. (Rus) Sadovodstvo 2:31. Feb.1968. 80 Sa13  
Activities of the Melitopol Experiment Station for Fruit Growing [Melitopol'skaya Opytnaya Stantsiya Sadovodstva].
- 86247 SPANGELO, L. P. S., WATKINS, R., and DAVIES, E. J. Fruit tree propagation. Can. Dep. Agr. Publ. 1289, 56 p. 1968. 7 C16Pu
- 86248 VEBER, K. The soilless culture of fruit trees. (Cz) Zahradnicke Listy 61(4):111-112. 1968. 80 Z12
- 86249 VIA COLL, J. The re-grafting of fruit trees. (Sp) Cultiv. Mod. 41(3):46-47. Mar.1968. 15 C89
- 86250 ZIKA, J. The fruit culture of British Columbia. (Cz) Zahradnicke Listy 61(3):73-75. 1968. 80 Z12

#### Citrus and Subtropical Fruits

- 86251 AHMED, S., KHAN, M.-UD-D., and REHMAN, A.-UR. Collection of germplasm for mandarin (Sangtra) Citrus reticulata. West Pakistan J. Agr. Res. 6(1):123-124. Mar.1968. 22 W52  
Selection.
- 86252 HAWSON, M. W., and THOMAS, D. W. Papaw varieties for Carnarvon. West. Australia, Dep. Agr. J. (ser.4)9(2):85-88. Feb.1968. 23 W52J
- 86253 HUYNH THI BONG. Growing pineapple ups income. Joint Publ. Res. Serv. Transl. N. Vietnam 360:42-44. May 7,1968. (JPRS 45,288) DS557.A7J6  
Chiefly culture.  
Translation from Nhan Dan, Mar.27,1968:2.  
Issued by CFSTI.
- 86254 JAGIRDAR, S. A. P., and ANSARI, A. R. Effect of height of pseudostem cabbage on the growth and production of Basrai banana. West Pakistan J. Agr. Res. 5(4):43-46. Dec.1967. 22 W52
- 86255 JAGIRDAR, S. A. P., and ANSARI, A. R. Effect of planting material on the growth and production of Basrai banana. West Pakistan J. Agr. Res. 5(4):27-32. Dec.1967. 22 W52  
Propagation by suckers or corm bits.
- 86256 JAGIRDAR, S. A. P., and ZAKIR, S. Effect of scion variety and methods of raising stock on bud-take in mango. West Pakistan J. Agr. Res. 6(1):83-87. Mar.1968. 22 W52



- 86257 JAGIRDAR, S. M. P., and BHATTI, M. S. Effect of type of scion wood and age of stock on the success of veneer graftage in mango. West Pakistan J. Agr. Res. 6(1):88-96. Mar.1968. 22 W52
- 86258 LAWRENCE, F. P. Planting and care of young citrus. Fla. Univ. Ext. Circ. 238A, 24 p. Feb. 1968. 275.29 F66C
- 86259 MANICOT, R. The coconut palm in the New Hebrides; first results obtained by the Institute for Research on Oils and Oilbearing plants. (Fr) Oleagineux 23(3):169-176. Mar.1968. 77.8 OL2  
English summary.
- 86260 MASRIERA, J. Intensive forms of olive culture. (Sp) Cultiv. Mod. 41(3):54-55. Mar.1968. 15 C89
- 86261 MAYBERRY, K. S. Desert citrus research. Calif. Citrogr. 53(2):58-59, 61. Dec.1967. 80 C125  
Culture in California.
- 86262 NGOC THE. Oranges in the Cao Phong mountain region. Joint Publ. Res. Serv. Transl. N. Vietnam 314:134-136. Feb.26, 1968. (JPRS 44,491) DS557.A7J6  
Culture.  
Translation from Nhan Dan, Jan.19, 1968:2. Issued by CFSTI.
- 86263 NUGENT, V., MAGNUS, K. E., and BENT, C. V. The ortanique orange. Trop. Sci. 9(4):182-185. 1967, pub.1968. 26 T756  
Culture in Jamaica.
- 86264 REUTHER, W., and others. Citrus Variety Improvement Program provides wide benefits. Calif. Citrogr. 53(6):205, 222-224, 226, 228. (Cont.) Apr.1968. 80 C125  
E. C. Calavan, E. M. Nauwer, and C. N. Roistacher, joint authors.
- 86265 SALOMON, A., and MENDEL, K. Citrus propagation by leaf cuttings. (He) Agr. Israel 13 (6/7):69-70. Mar./Apr.1968. 22.5 Ag825
- 86266 SEN, P. K., and others. Rooting of mango cuttings under mist. Cur. Sci. 37(5):144-146. Mar.5, 1968. 475 Sci23  
R. N. Basu, T. K. Bose, and N. Roychoudhury, joint authors.
- 86267 TORRES M., R., and RIOS CASTANO, D. Bases for a program of papaya (Carica papaya L.) improvement in Colombia. (Sp) Agr. Trop. 23(2):107-112. Feb.1968. 26 Ag8
- 86268 TSULADZE, T. Citrus orchards. (Rus) Sadovodstvo 12:28. Dec.1967. 80 Sa13  
Culture in Georgian SSR.
- 86269 WAHLBERG, H. E. Citrus and the King of Siam. Calif. Citrogr. 53(2):66-68. Dec.1967. 80 C125  
Culture.

## Deciduous Fruits

- 86270 AKKERMAN, J. What wood produces the best fruit? NFO (Ned. Fruittelers Organ.) Ber. 24 (1):21. Jan.1968. 95.9 N28  
Pruning of apples.
- 86271 AOMORI. APPLE EXPERIMENT STATION. Annual report for 1965. Aomori, 1967. 125 p. 107.6 Ao5G
- 86272 BELL, T. J. Training of young apple trees. Orchardist New Zeal. 41(2):48. Mar.1968. 80 Or19
- 86273 BEL'SKII, A. I. Cherry varieties in the Don Region. (Rus) Sadovodstvo 2:29-30. Feb.1968. 80 Sa13
- 86274 CEJKA, G. The improved method of culture of peaches in nurseries. (Cz) Zahradnicke Listy 61(4):105-106. 1968. 80 Z12  
Includes pruning of rootstocks.
- 86275 CEJKA, G. New method of forming the crown of peach trees in nurseries. (Cz) Zahradnicke Listy 61(5):141. May 1968. 80 Z12
- 86276 ENGLERT, K. A comparison of yield performance in 8 year old Schattenmorelle trees on sweet cherry and Mahaleb cherry rootstocks. (Ge) Der Obstbau 86(11):246-247. Nov.1, 1967. 80 Ob73
- 86277 FLIERMAN, J. Pruning in narrow plantings. (Du) NFO (Ned. Fruittelers Organ.) Ber. 24(1): 5. Jan.1968. 95.9 N28  
Apples.
- 86278 GROVEN, I. Peaches and apricots. (Da) Haven 68(5):176-177. May 1968. 80 H29  
-Culture.
- 86279 GROVEN, I. Pruning of stone fruit and hazelnut. (Da) Haven 68(3):86-87. Mar.1968. 80 H29
- 86280 HAUGSE, L. Apple rootstock trials with the cultivars Gravenstein, Ingrid Marie and James Grieve: Rootstocks in common use compared with four MM-clones. (No) Forsk. Forsok Landbruket 18(4):153-163. Ref. 1967. 11 F772  
English summary.
- 86281 HOORN, R. T. C. Why close planting? NFO (Ned. Fruittelers Organ.) Ber. 24(1):7-9. Jan. 1968. 95.9 N28  
Apples.
- 86282 JANDA, L. A contribution to the study of properties of some plum varieties suitable for drying. (Se) Arh. Poljoprivredne Nauk. 20(68):62-72. Ref. 1967. 21.5 Y9  
English summary.
- 86283 JASIK, K. Preliminary results on the culture of new peach varieties. (Cz) Zahradnicke Listy 61(4):101. 1968. 80 Z12
- 86284 KRAMER, S. Results of field trials with fifteen varieties of sour cherries. (Ge) Arch. Gartenbau 16(1):51-66. Ref. 1968. 80 Ar2  
English summary.  
Includes yields and properties.
- 86285 LARSEN, E. Commercial fruit growing and trends. (Da) Erhvervsfrugtavlere 35(1):18-21. Jan.1, 1968. 80 Er3  
Apple varieties and culture chiefly.
- 86286 MIHALYFFY, J. Espalier growing of sour cherry. (Hu) Kertesz. Szolesz. 17(4):108-109. Feb.1968. 80 K474
- 86287 MISIC, P. D., and GAVRILOVIC, M. D. A contribution to the study of relations between rootstocks and some apple varieties. (Se) Arh. Poljoprivredne Nauk. 20(68):17-30. Ref. 1967. 21.5 Y9  
English summary.  
Includes effect on yields.
- 86288 NILSSON, F. Culture of apples and pears. (Sw) Jord-Groda-Djur 24:55-74. 1968. 11 J763
- 86289 OLAFFSON, G. Salicina plums. (No) Norsk Hagetidend 84(1):19. Jan.1968. 80 N81  
Culture.
- 86290 OLDEN, E. Culture of plums and cherries. (Sw) Jord-Groda-Djur 24:75-94. 1968. 11 J763
- 86291 OLDEN, E. J., and NYBOM, N. On the origin of Prunus cerasus L. Hereditas 59(2/3):327-345. Ref. 1968. 442.8 H42  
Hybridization of various varieties.
- 86292 PARRY, M. S., and ROGERS, W. S. Dwarfing interstocks: their effect on the field performance and anchorage of apple trees. J. Hort. Sci. 43(2):133-146. Ref. Apr.1968. 80 J825
- 86293 PRESTON, A. P. Pruning trials with Worcester Pearmain apple. J. Hort. Sci. 43(2): 175-183. Ref. Apr.1968. 80 J825
- 86294 REZNIK, YU. Z. Using grafting method. (Rus) Sadovodstvo 12:23. Dec.1967. 80 Sa13  
For propagation of deciduous fruit.
- 86295 UNDELAND, L. Top grafting. (No) Norsk Hagetid. 88(4):120-125. Apr.1968. 80 N81  
Apples.
- 86296 VINCIK, V. The effective culture of cherries in Lhenice area. (Cz) Zahradnicke Listy 61(5): 139-140. May 1968. 80 Z12
- 86297 WARD, P. J. Pruning and manuring apple trees. Agr. Northern Ireland 42(10):343-347. Feb.1968. 256.13 Ag82M

## Small Fruits

- 86298 AIVAZYAN, K. K. Development and yields of grapes as affected by different methods of binding fruit producing shoots. (Rus) Vinodel. Vinograd. SSSR 1:25-27. 1968. 95.8 V77

- 86299 ANDRASSY, I. Grape culture of the comitats Borsod-Abauj-Zemplen. (Hu) Kertesz. Szolesz. 17(3):62-63. Feb.1968. 80 K474
- 86300 BAUER, R. Current problems and development trends in berry breeding. (Ge) Indus. Obst- Gemuseverwertung 53(6):167-170. Mar.21,1968. 389.8 K832
- 86301 BENOIT, F. Use and misuse of cold-stored strawberries. (Fl) Tuinbouwbericht 32(4):150-152. Ref. Apr.1968. 80 T817  
Culture and yields.
- 86302 BJURMAN, B. Culture of strawberries and raspberries. (Sw) Jord-Groda-Djur 24:95-105. 1968. 11 J763
- 86303 BRADT, O. A. The grape in Ontario, Ontario. Dep. Agr. Publ. 487,44 p. Jan.1968. 7 On8P  
Culture.
- 86304 DALMASSO, G. In search of new grapevines; if they wail in France, they should weep in Italy. (It) Colt. G. Vinicolo Ital. 114(1/2):9-11. Jan./Feb.1968. 16 C72
- 86305 DUTCH strawberries grown under glass. Int. Fruit World 27(1):190,193-194,197,199-200. Spring 1968. 286.83 F9426  
Text also in French and German.
- 86306 FARAGO, T., SARAI, V., and BARTHALOS, K. Grape culture in the Lake Balaton region. (Hu) Kertesz. Szolesz. 17(4):104-106. Feb.1968. 80 K474
- 86307 FERNQVIST, I. Culture of currants and gooseberries. (Sw) Jord-Groda-Djur 24:106-117. 1968. 11 J763
- 86308 GORBACH, N. N. Yield and the quality of grapes. (Rus) Sadovodstvo 12:25. Dec.1967. 80 Sal3
- 86309 GORINI, F. L. Raspberries, a rewarding crop. (It) Avvenire Agr. 76(4):94-98. Apr.1968. 16 Av9  
Culture.
- 86310 GRINCHENKO, A. Doubling of black currants and the problems of breeding. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 2:77-80. Feb. 1968. 20 V633  
English summary.  
Caused by virus.
- 86311 HOEK, A. P. VAN DEN. Strawberry growing under glass in the Bommelerwaard. (Du) Neth. Dir. Tuinbouw. Mededel. 31(4):154-158. Apr.1968. 86 N384  
English summary, p.172.
- 86312 HUBER, H. The grapes and the wine yields of Sternenhalde in the year 1967. (Ge) Schweiz. Obst- Weinbau 104(8):195-199. Mar.30,1968. 80 Sch9
- 86313 KONDRYA, S. M. Ringing grape vines. (Rus) Sadovodstvo 12:24-25. Dec.1967. 80 Sal3  
For better yields.
- 86314 MACLEAN, G. The use of plastic mulch in developing young vineyards. Wines Vines 49(5): 22-24. May 1968. 95.8 C122
- 86315 MATTINGLEY, W. J. Harvesting of strawberries. Great Brit. Min. Agr. Fish. Food. Agr. 75(3):110-113. Mar.1968. 10 G79J
- 86316 MEYER, H. M. Wein-Bibliographie; deutschsprachiges Schrifttum 1966 in Auswahl und Nachtrage aus fruheren Jahren [Grape and wine bibliography; selected German language publications 1966, as selected, with supplements from earlier years]. Weinberg Keller 15(1),39 p. Jan.1968. 95.8 W435
- 86317 MOLNAR, T. Pruning of high-cordon grapes. (Hu) Kertesz. Szolesz. 17(4):106-107. Feb. 1968. 80 K474
- 86318 NIKIFOROVA, L. T., and GITERMAN, E. A. Grape culture on the high stems in the southern Ukraine. (Rus) Vinodel. Vinograd. SSSR 1:15-18. 1968. 95.8 V77
- 86319 PEYER, E., KOBLET, W., and ZWICKY, P. The influence of various cultural methods on grape yields. (Ge) Schweiz. Z. Obst- Weinbau 104(5):123-128. Ref. (Concl.) Mar.2,1968. 80 Sch9
- 86320 POPOVA, I. V. Gooseberries with small thorns. (Rus) Sadovodstvo 12:29. Dec.1967. 80 Sal3  
Breeding.
- 86321 REISAETER, O. European elder. (No) Norsk Hagetidend 84(1):18. Jan.1968. 80 N81  
Culture.
- 86322 ROELEFSEN, B. Strawberry growing under glass. (Du) Neth. Dir. Tuinbouw. Mededel. 31(4):167-170. Apr.1968. 86 N384  
English summary, p.172.
- 86323 RUBIN, H. M. The wine grape, U.S.A. Natur. Hist. 77(6):52-57, map. June/July 1968. 500 N483J
- 86324 SANDE, H. J. M. VAN DE. Greenhouse culture of strawberries. (Du) Groenten Fruit 23(37): 1681. Mar.27,1968. 80 G89
- 86325 SCHWEIZERISCHER WEINBAUVEREIN. Annual report for 1967, by H. Von Tscharner. (Ge) Schweiz. Obst- Weinbau 104(8):186-191. Mar.30,1968. 80 Sch9
- 86326 SPIROV, N., and NUSHEV, I. Testing Rkatsiteli grape variety in Varna Region. (Bu) Gradenar. Lozar. Nauk. 4(5):81-96. Ref. 1967. 87 G75  
French summary.
- 86327 SZEGEDI, S. For more table grapes. (Hu) Kertesz. Szolesz. 17(3):72-73. Feb.1968. 80 K474  
Home raising methods.
- 86328 TAOUFIK, B. A. Methods and principles of determining the viticultural aptitudes of a region and choice of appropriate strains. (Fr) Office Int. Vigne Vin. Bull. 41(444):135-138. Feb.1968. 390.8 B87  
Tunisian report presented at the 8th meeting of the Commission of the O.I.V., held in Mainz, September 4-11, 1967.
- 86329 TILL, M. R. Cover cropping in the Barossa Valley. S. Australia J. Agr. 71(9):324-327. Apr.1968. 23 So84  
For vineyards.
- 86330 TOMPSETT, A. A. Cheddar strawberries, the new look. Great Brit. Min. Agr. Fish. Food. Agr. 75(2):76-79. Feb.1968. 10 G79J  
Chiefly culture.
- 86331 VORONINA, N. F. Grape culture on the high stems in the Dagestan irrigation zone. (Rus) Vinodel. Vinograd. SSR 1:18-20. 1968. 95.8 V77
- 86332 WILHELMINADROP. PROEFSTATION VOOR DE FRUITTEELT IN DE VOLLE GROND. Strawberry variety trials. (Du) Groenten Fruit 23(33):1477. Feb.28,1968. 80 G89
- 86333 ZYCH, C. C., and POWELL, D. Commercial production of strawberries in Illinois. Ill. Univ. Ext. Circ. 983,63 p. Ref. Apr.1968. 275.29 IL62C  
Culture and disease and pest control.

#### Nuts

- 86334 CARDELLA, O. An exceptional almond. (Sp) Cultiv. Mod. 51(4):38, map. Apr.1968. 15 C89  
Culture.
- 86335 LIVINGSTON, R. L., FLETCHER, R. S., and ALMAND, D. Pecans in Georgia. Ga. Univ. Ext. Bull. 609, rev., 24 p., map. Oct.1967. 275.29 G29B  
Culture.
- 86336 NGOC, N. Growing more cashew trees. Joint Publ. Res. Serv. Transl. N. Vietnam 319:84-89. Mar.4,1968. (JPRS 44,583) DS557.A7J6  
Translation from Nhan Dan, Nov.29,1967:2. Issued by CFSTI.
- 86337 OLIVE CARDELLA, J. An exceptional almond. (Sp) Cultiv. Mod. 41(3):49. Mar.1968. 15 C89
- 86338 OZOL, A. The use of hybridization to obtain heterotic forms of woody plants. 7 p. (TT 67-51330) Transl. 17696  
Juglans regia.  
Translation from Akademiya Nauk Latvisskoi SSR. Izvestiya 8(181):75-80. 1962. Issued by CFSTI.
- 86339 PEROV, D. I. On the problem of introduction and determination of the areas favourable for almond culture in relation to the time of total flowering. (Rus) Meteorol. Gidrol. 1:78-80. Jan.1968. 345 M56



- 86340 SEYMOUR, W. A tree that fed the Romans. Country Life [London] 143(3708):724-725. Mar.28,1968. 80 C83  
Castanea sativa.

#### Shade Trees and Ornamental Plants

- 86341 AKIMOKHIN, N. G. Walnuts (Juglans) in the northern part of the central forest-steppe. 6 p. (TT 67-51331) Transl. 16781  
As ornamental plants.  
Translation from Moscow. Glavnyi Botanicheskii Sad. Byulleten' 41:11-16. 1961.  
Issued by CFSTI.
- 86342 ANDERSON, E. The story of the white red-bud. Mo. Bot. Gard. Bull. 56(2):5-7. Mar./Apr.1968. 451 M69B  
Cercis canadensis alba; planting.
- 86343 ASHBURNER, K. Trees for late summer foliage. Country Life [London] 143(3713):1108-1109. May 2,1968. 80 C83
- 86344 AUWERA, G. VAN DER. Greenhouse roses. (Fl) Tuinbouwberichten 32(1):15. Jan.1968. 80 T817  
Culture.
- 86345 BAJEROVA, J., and BAJER, J. On the Antirrhinum majus. (Cz) Zahradnicke Listy 61(2):35-38. 1968. 80 Z12  
Culture.
- 86346 BENZINGER, F. M. Propagation of daylilies [Hemerocallis]. Amer. Hort. Mag. 47(2):194-196. Spring 1968. 80 N216
- 86347 BERG, B. The Experiment Station for Ornamental Plants [Proefstation voor de Bloemisterij] in Aalsmeer. (Ge) Landesver. Gartenbau Landwirt. Berlin. Mitteilungsbl. 19(1):29-30. Jan.1968. 85 L233
- 86348 BERG, B. Gerbera variety Goosen. (Ge) Landsver. Gartenbau Landwirt. Berlin. Mitteilungsbl. 19(1):28. Jan.1968. 85 L233  
Netherlands.
- 86349 BERTELSEN, J. Perennials tolerating shades. (Da) Haven 68(3):93-94. Mar.1968. 80 H29
- 86350 BERTELSEN, J. Some very useful perennials. (Da) Haven 68(5):184-185. May 1968. 80 H29
- 86351 BROERTJES, C. Progress in mutation breeding. Florists' Rev. 142(3678):15-16,36. (Cont.) May 23,1968. 80 W41
- 86352 BUDLONG, W. T. Indoor gardens. New York, Hawthorn, 1967. 174 p. Ref. SB419.B82  
House plants and miniature gardens.
- 86353 CANTRILL, R. J. A feast of hibiscus (and some you can eat). J. Agr. [Melbourne] 66(3):102-105. Mar.1968. 23 V66J  
Culture.
- 86354 CAPEN, E. T. Daylilies [Hemerocallis] in flower arrangements. Amer. Hort. Mag. 47(2):219-232. Spring 1968. 80 N216
- 86355 CATHEY, H. M. Growing peonies. U. S. D. A. Home Gard. Bull. 126,12 p. Nov.1967. 1 Ag84Hg
- 86356 CHALOUPECKY, V. The culture of lily in America. (Cz) Zahradnicke Listy 61(4):122-123. 1968. 80 Z12
- 86357 CHKHAIDZE, I. I., and KAVACHANTIRADZE, A. KH. Subtropical plants in house. (Rus) Sadovodstvo 12:35. Dec.1967. 80 Sa13  
Culture.
- 86358 CLAPHAM, S. Gambling with gum trees [Eucalyptus]. Country Life [London] 143(3707):672-673. Mar.21,1968. 80 C83  
As ornamental trees in Great Britain.
- 86359 CORLISS, P. G. Cultivars of daylily [Hemerocallis]. Amer. Hort. Mag. 47(2):152-163. Spring 1968. 80 N216
- 86360 CORLISS, P. G. Recommended cultivars. Amer. Hort. Mag. 47(2):262-267, map. Spring 1968. 80 N216  
Of Hemerocallis.
- 86361 CORNMAN, J. F. Home lawns. Cornell Univ. Ext. Cornell Ext. Bull. 922,31 p. May 1968. 275.29 N48E  
Care.
- 86362 DAYLILY handbook; a special issue on Hemerocallis. Amer. Hort. Mag. 47(2):42-272, map. Ref. Spring 1968. 80 N216  
Edited by G. M. Darrow, and F. G. Meyer.
- 86363 D'EASUM, C. "Sprucing up" a town. Ext. Serv. Rev. 39(6):3. June 1968. 1 Ex892Ex  
Extension Beautification program in Idaho.
- 86364 DIXEN, H. Yucca, Adamsneedle yucca. (Da) Haven 68(3):76. Mar.1968. 80 H29  
Culture of Yucca filamentosa.
- 86365 DOOLITTLE, R., and TIEDEBOHL, H. Southwest gardening. Newly rev. ed. Albuquerque, University of New Mexico Press, 1967. 222 p. Ref. SB453.2.S6D6 1967  
Ornamentals.
- 86366 DUFF, D. T. Lawn planning and construction. R. I. Univ. Ext. Mimeogr. Circ. 159,8 p.-folder. May 1968. 275.29 R34M  
Care.
- 86367 FERRIS, MRS. R. A. Exhibiting and judging daylilies [Hemerocallis]. Amer. Hort. Mag. 47(2):233-236. Spring 1968. 80 N216
- 86368 FISCHER, H. A. Daylilies [Hemerocallis] in other countries. Amer. Hort. Mag. 47(2):250-254. Spring 1968. 80 N216  
Cultivated varieties.
- 86369 FISCHER, P. New ornamental plant species. (He) Agr. Israel 13(6/7):75. Mar./Apr.1968. 22.5 Ag825
- 86370 FLORY, W. B. Daylilies [Hemerocallis] in landscaping and for erosion control. Amer. Hort. Mag. 47(2):210-213. Spring 1968. 80 N216
- 86371 FRIBERG, P. Landscape gardening and architecture. (Sw) Jord-Groda-Djur 24:219-229. 1968. 11 J763
- 86372 GADE, H. Orchideer [Orchids]. Kobenhavn, Clausen, 1967. 69 p. Ref. SB409.G32  
Indoor culture.
- 86373 GOUIN, F. R. Chinese hollies [Ilex cornuta]. Md. Univ. Ext. Fact Sheet 200,2 p. Jan.1968. 275.29 M36Fa  
Culture.
- 86374 GOUIN, F. R. Yews [Taxus] in your landscape. Md. Univ. Ext. Fact Sheet 194,4 p. Nov.1967. 275.29 M36Fa
- 86375 HAHN, E., and OTTO, A. Spezielle Schnittblumen [Special cut flowers]. Gart. Berufspraxis 16,ed.3,rev.,127 p. Ref. 1967. 80 G1945  
Includes culture.
- 86376 HANSEN, E. Berberis. (No) Norsk Hagetid. 88(4):126-127. Apr.1968. 80 N81  
Culture.
- 86377 HANSEN, E. Climbing plants. (No) Norsk Hagetid. 88,i.e.84(3):103-105. Mar.1968. 80 N81  
Varieties and culture.
- 86378 HARDY, J. B. Breeders of tetraploid daylilies [Hemerocallis]. Amer. Hort. Mag. 47(2):260. Spring 1968. 80 N216  
Directory.
- 86379 HEIT, C. E. Propagation from seed. 14. Testing and growing less common and exotic fir species. Amer. Nurseryman 127(10):10-11, 34-38,40,42,44-45,48-51. May 15,1968. 80 Am371
- 86380 HEMEROCALLIS Growers Association (affiliate of the American Hemerocallis Society). Amer. Hort. Mag. 47(2):258. Spring 1968. 80 N216  
Directory.
- 86381 HEYERDAHL, H. Evergreen plants. (No) Norsk Hagetid. 88,i.e.84(3):80-85. Mar.1968. 80 N81  
Varieties and culture.
- 86382 HIEKE, K. Palace parks in eastern Bohemia. (Ge) Deut. Baumschule 20(1):2-6, map. Jan. 1968. 80 D486
- 86383 HILL, D. A painter's garden: St. Colomb's in Donegal. Roy. Hort. Soc. J. 93(5):219-222. May 1968. 84 L84J
- 86384 HINDLE, R. J., and KITCHIN, J. T. Planting or transplanting trees and shrubs. R. I. Univ. Ext. Mimeogr. Circ. 142,12 p. June 1967. 275.29 R34M
- 86385 HINDMAN, O. M. Terminology for daylilies [Hemerocallis]. Amer. Hort. Mag. 47(2):269-270. Spring 1968. 80 N216

- 86386 HOCKINGS, F. D. The culture of Australian plants. *Queensland Natur.* 18(5/6):81-87. Feb. 1968. 410 Q3  
Ornamentals.
- 86387 ITO, Y. Hana saboten zufu. Illustration of flower cacti. Tokyo, Seibundo, Shinkosha, 1967. 184 p. QK495.C11I8
- 86388 KALIN, E. W. Holiday plants and their care. Wash. State Univ. Ext. E. M. 500, rev., 2 p. Mar. 1968. 275.29 W27Mi
- 86389 KAMEMOTO, H., WILFRET, G. J., and ARAGAKI, M. 1966-1967 Chrysanthemum cultivar trials. Hawaii. Agr. Exp. Sta. Tech. Progr. Rep. 163, 13 p. Nov. 1967. 100 H313P
- 86390 KELWAY, C. Shrubs with a taste for sunshine. *Country Life [London]* 143(3703):412-413. Feb. 22, 1968. 80 C83  
Ornamental *Genista* spp.
- 86391 KING, W. A. Breeding of diploid daylilies. [Hemerocallis]. *Amer. Hort. Mag.* 47(2):164-166. Spring 1968. 80 N216
- 86392 KING, W. A. Long-lived daylily [Hemerocallis] blueblooms. *Amer. Hort. Mag.* 47(2):268. Spring 1968. 80 N216
- 86393 KJOLSETH, T. Some late summer flowers. (No) *Norsk Hagetid.* 88, i.e. 84(3):86-87. Mar. 1968. 80 N81
- 86394 KOBYLKA, B. Stately plants suitable for rocky gardens. (Cz) *Ziva* 16(2):47-49. Mar. 1968. 409.6 Z6  
Culture.
- 86395 KOCI, A. The present assortment and new varieties of dahlia. (Cz) *Zahradnicke Listy* 61(4):124-125. 1968. 80 Z12  
Includes breeding.
- 86396 KRIVSKY, K. On tulips. (Cz) *Ziva* 16(2):51-53. Mar. 1968. 409.6 Z6  
Culture and varieties.
- 86397 KYNCL, J. Soilless culture of carnations. (Cz) *Zahradnicke Listy* 61(3):82-84. 1968. 80 Z12
- 86398 LACEY, H. Daylily [Hemerocallis] Round Robins. *Amer. Hort. Mag.* 47(2):237-241. Spring 1968. 80 N216  
Includes history of the Midwest Hemerocallis Society.
- 86399 LEMMON, K. Cool greenhouse plants. London, Studio Vista, 1967. 192 p. (Small Garden Library) SB415.L42  
Ornamentals.
- 86400 LENANDER, S. E. Two important florist's plants. (Sw) *Jord-Groda-Djur* 24:118-126. 1968. 11 J763  
Greenhouse culture of Begonia and Cyclamen.
- 86401 LEWIS, C. E. Don't ignore stems and branches in planting design. *Amer. Nurseryman* 127(11):12-13, 36-38. June 1, 1968. 80 Am371
- 86402 LOMBARTS, J. A new Liriodendron. (Ge) *Deut. Baumschule* 20(1):10-11. Jan. 1968. 80 D486  
Cultivar of Liriodendron tulipifera in Germany.
- 86403 LUNDSTEIN, A. S. New distinctive roses. (Da) *Haven* 68(5):182-183. May 1968. 80 H29
- 86404 MARES, J. The house plant *Aralia japonica* (Fatsia japonica (Thunb.) Dcne and Planch. (Cz) *Ziva* 16(2):54-55. Mar. 1968. 409.6 Z6  
Culture.
- 86405 MAURER, K. J. Hazelnut hedges as screens. (Ge) *Der Obstbau* 86(11):252-253. Nov. 1, 1967. 80 Ob73  
Includes varieties and culture.
- 86406 MELEZINEK, K. The interest for Dahlias. (Cz) *Zahradnicke Listy* 61(5):151. May 1968. 80 Z12  
Culture and varieties.
- 86407 MINNESOTA, AGRICULTURAL EXPERIMENT STATION. The [University of Minnesota] Landscape Arboretum, a report of progress-1967. Minn. Agr. Exp. Sta. Misc. Rep. 81, 38 p., map. 1968. 100 M66
- 86408 MITCHELL, A. F. Some trees in Hyde Park and Kensington Gardens measured in 1967. *Roy. Hort. Soc. J.* 93(5):214-218. May 1968. 84 L84J
- 86409 MONROE, W. E. Introducing and registering daylilies [Hemerocallis]. *Amer. Hort. Mag.* 47(2):181-193. Spring 1968. 80 N216
- 86410 MORTON, E., and STAGEMAN, P. F. M. Humphry Repton and the Red Book of Waresley Park. *Roy. Hort. Soc. J.* 93(5):210-214. May 1968. 84 L84J  
Landscape gardening in 18th century.
- 86411 MUNSON, R. W. Selecting and evaluating daylilies [Hemerocallis]. *Amer. Hort. Mag.* 47(2):178-180. Spring 1968. 80 N216
- 86412 NELLEMAN, B. Hardy wild Rhododendron species. (Da) *Haven* 68(5):167. May 1968. 80 H29  
Culture in Denmark.
- 86413 NIELSEN, J. S. Foliaceous evergreens. (Da) *Haven* 68(2):42-44. Feb. 1968. 80 H29  
Varieties for the garden.
- 86414 NIELSEN, J. S. Some late flowering shrubs. (Da) *Haven* 68(3):74-75. Mar. 1968. 80 H29
- 86415 NORTH, F. Gardening in a cold climate. London, Collingridge, 1967. 189 p. SB453.3.G7N6  
Culture and varieties of ornamentals.
- 86416 OLSEN, O. Bromeliaceae. *Gartnereen* 40(8):10-11. Apr. 1968. 80 G1992  
Culture.
- 86417 PARRY, A. W. Hybridizers and commercial growers. *Amer. Hort. Mag.* 47(2):255-257. Spring 1968. 80 N216  
Hemerocallis.
- 86418 PECK, V. L., and ARISUMI, T. Tetraploid daylilies [Hemerocallis]. *Amer. Hort. Mag.* 47(2):169-177. Spring 1968. 80 N216
- 86419 PENNINGSFELD, F. Experiences with new potting mixtures. (Ge) *Der Obstbau* 86(11):250-251. Nov. 1, 1967. 80 Ob73  
Peat from moors for ornamental plants.
- 86420 PETERSEN, H. Pruning of garden shrubs. (Da) *Haven* 68(2):50-51. Feb. 1968. 80 H29
- 86421 PETROVA, E. Narcissi and their division. (Cz) *Zahradnicke Listy* 61(4):120-121. 1968. 80 Z12  
Includes culture.
- 86422 PRUCHA, J. The controversy on Verbena. (Cz) *Zahradnicke Listy* 61(5):154-155. May 1968. 80 Z12  
Breeding and varieties.
- 86423 PURNELL, MRS. H. A. A salute to our founders. *Amer. Hort. Mag.* 47(2):242-246. Spring 1968. 80 N216  
American Hemerocallis Society and its history.
- 86424 RASMUSSEN, T. Propagation of outdoor Chrysanthemums. (Da) *Haven* 68(3):70-71. Mar. 1968. 80 H29
- 86425 REES, A. R., BLEASDALE, J. K. A., and WALLIS, L. W. Effects of spacing on flower and bulb yield in the Narcissus. *J. Hort. Sci.* 43(2):113-120. Apr. 1968. 80 J825
- 86426 ROMINE, J. S. Tetraploid daylilies [Hemerocallis]. *Amer. Hort. Mag.* 47(2):259. Spring 1968. 80 N216
- 86427 ROPER, L. The Sunday Times gardening book. London, Nelson, 1967. 240 p. SB453.3.G7R6  
Culture and varieties of ornamentals and landscape gardening.
- 86428 ROUSSEAU, G. G. Budding of Proteas. *Farming S. Afr.* 43(10):17, 19. Jan. 1968. 24 S842
- 86429 SANDVED, G. Begonia x hiemalis varieties. (No) *Gartneryrket* 58(17):343. Apr. 26, 1968. 80 G1938
- 86430 SAUL, G. H. Copper safely controls roots of tubed seedlings. *Tree Planters' Notes* 19(1):7-9. Mar. 1968. 1.962 C5T71  
Pinus and Picea in Canada.
- 86431 SCHERY, R. W. Mechanical renovation, one method for upgrading turf. *Weeds Trees Turf* 7(4):21. Apr. 1968. 79.8 W413  
Includes equipment.
- 86432 SCHROEDER, D. Roses as I grow them. *Org. Gard. Farming* 15(6):37-39. June 1968. 57.8 Or32



- 86433 SHERK, L. C. La culture des plantes emblemes du Canada [The culture of symbolic plants of Canada]. Can. Dep. Agr. Publ. 1288, 28 p. 1968. 7 C16Pu  
Chiefly state flowers.
- 86434 SINDING-LARSEN, G. Shade tolerant perennials. (No) Norsk Hagetid. 88,i.e.84(3):89-92. Mar.1968. 80 N81
- 86435 SLOOTWEG, A. F. G. The principles of tulip forcing. (Du) Neth. Dir. Tuinbouw. Mededel. 31(4):140-142,144. Apr.1968. 86 N384  
English summary, p.172.
- 86436 SOMOGYI, I. New cultivation methods for orchids. (Hu) Kertesz. Szolesz. 17(2):52-53. Jan.1968. 80 K474  
Includes nutrient solutions and potting mixtures.
- 86437 STANGL, M. Bunte Blumenpracht der Stauden [Colorful bloom display of the perennials]. Munchen, Bayerischer Landwirtschaftsverlag, 1966. 253 p. (Ich bin Mein eigener Gartner) SB434.S8
- 86438 SURROW, E. Summer flowers—a festive cavalcade. (Da) Haven 68(3):89-90. Mar.1968. 80 H29  
Varieties.
- 86439 TAYLOR, J. C. Hints on rose growing. Ontario. Dep. Agr. Publ. 328, 12 p. Mar.1968. 7 On8P
- 86440 URBAN, J. The Garnette varieties of roses. (Cz) Zahradnicke Listy 61(4):119. 1968. 80 Z12  
Culture.
- 86441 VANEK, V. Cultivation of Anemone in gardens. (Cz) Zahradnicke Listy 61(3):88-89. 1968. 80 Z12
- 86442 VANNES, G. Perennials in Finmark. (No) Norsk Hagetid. 88,i.e.84(3):93-95. Mar.1968. 80 N81
- 86443 VAUGHN, W. P. Culture of daylilies [Hemerocallis]. Amer. Hort. Mag. 47(2):197-200. Spring 1968. 80 N216
- 86444 VYSKOCIL, J. On Euphorbia fulgens. (Cz) Zahradnicke Listy 61(5):152. May 1968. 80 Z12  
Culture.
- 86445 WARNER, M. Breeding of miniature daylilies [Hemerocallis]. Amer. Hort. Mag. 47(2):167-168. Spring 1968. 80 N216
- 86446 WATSON, W. African violets [Saintpaulia ionantha]. Agr. Gaz. New S. Wales 78(12):749-752. Dec.1967. 23 N472  
Culture.
- 86447 WHITEHEAD, S. B. A modern guide to good gardening. London, Studio Vista, 1967. 325 p. (Small Garden Library) SB453.3.G7W5  
Chiefly ornamentals.
- 86448 WISSING, L. Many different Columnea in the winter garden. (Da) Haven 68(2):54. Feb.1968. 80 H29
- 86449 WITHERS, R. M. Liliiums in Australia. Melbourne, Australian Liliium Society, 1967. 252 p.,map. Ref. SB413.L7W5  
Culture and varieties.
- 86455 BELIK, V. Seedless watermelons. (Rus) Kartofel' Ovoshchi 2:30-31. Feb.1968. 75.8 K147  
Breeding.
- 86456 BETZEMA, J., and SNOEK, N. J. Carrots for the industry. (Du) Groenten Fruit 23(37):1677. Mar.27,1968. 80 G89  
Culture.
- 86457 BETZEMA, J., and SNOEK, N. J. Growing cauliflower plants from January seeding. (Du) Groenten Fruit 23(25):1141. Jan.3,1968. 80 G89
- 86458 BETZEMA, J., and SNOEK, N. J. Seeding of cauliflower in January. (Fl) Tuinbouwberichten 32(1):13-14. Jan.1968. 80 T817  
Greenhouse culture of seedlings.
- 86459 BETZEMA, J., and COMMANDEUR, J. C. What is the best seeding and planting date for storage cabbage? (Du) Groenten Fruit 23(35):1577. Mar.13,1968. 80 G89
- 86460 BEZPALYI, I. D. Rannii kartofel' v Krymu [Early potato in the Crimea]. Simferopol', Krym, 1967. 70 p. SB211.P8B48  
Culture.
- 86461 BOIKO, V., and PONOMAREVA, A. Slightly-decomposed peat for greenhouses. (Rus) Kartofel' Ovoshchi 2:20. Feb.1968. 75.8 K147  
Used as soil for cucumbers.
- 86462 BOONEN, P. A new variety for greenhouse culture of cucumbers? (Du) Groenten Fruit 23(38):1717. Apr.3,1968. 80 G89
- 86463 BORIL, J. The Meteor, a new bean variety. (Cz) Uroda 16(6):54-56. Feb.1968. 64.8 Z12
- 86464 BREZHNEV, D. D. Zelenye ovoshchnye kul'tury [Green vegetable cultures]. Leningrad, Lenizdat, 1967. 109 p. SB323.B73
- 86465 BRINHART, B. The remarkable Chinese cucumber. Org. Gard. Farming 15(5):42-43. May 1968. 57.8 Or32  
Culture.
- 86466 BRINHART, B. Rutabagas by the bushel—organically grown. Org. Gard. Farming 15(6):46-47. June 1968. 57.8 Or32
- 86467 BUIHAND, T. Broadbean as a horticultural plant. (Du) Groenten Fruit 23(29):1319. Jan.31,1968. 80 G89  
Culture.
- 86468 BUIHAND, T. Developments in early beet culture. (Du) Groenten Fruit 23(31):1419. Feb.14,1968. 80 G89  
Varieties and culture.
- 86469 BUIHAND, T. Plastic tunnel and soil heating in outdoor vegetable culture. (Du) Groenten Fruit 23(33):1499,1501. Feb.28,1968. 80 G89
- 86470 CHENYKALEVA, E., and SPIRIDONOVA, A. Increasing yields of vegetables. (Rus) Kartofel' Ovoshchi 3:43-44. Mar.1968. 75.8 K147  
Cultural practices.
- 86471 CHERMHYKH, L., and SIMONOVA, M. Growing tomatoes on hotbeds with electric heating. (Rus) Kartofel' Ovoshchi 2:19. Feb.1968. 75.8 K147
- 86472 COCHRANE, H. S. Fresh vegetables are hard to beat. Agr. Northern Ireland 42(11):383-385. Mar.1968. 256.13 Ag82M  
Culture.
- 86473 COOMANS, A., and CERULIS, A. Comparative tomato variety trials at Rummen (Brabant). (Fl) Tuinbouwbericht 32(4):147. Apr.1968. 80 T817
- 86474 COSCI, G. Visit to greenhouses in the Province of Latina. (It) G. Agr. 58(18):237. May 5,1968. 16 It1G  
Vegetables and ornamentals.
- 86475 COYNE, D. P. Correlation studies in asparagus in relation to cumulative season yield. Hort. Res. 7(2):105-112. Ref. Nov.1967. 80 H7892  
In a breeding program.
- 86476 CUNNINGHAM, C. E., and others. Wauseon: a new potato variety resistant to golden nematode with good processing quality. Amer. Potato J. 45(4):146-149. Apr.1968. 75.8 P842  
R. V. Akeley, L. C. Peterson, and T. E. Snyder, joint authors.
- 86477 DASHEVSKII, I. Effect of the seed quality on productivity of potatoes. (Rus) Kartofel' Ovoshchi 2:2-3. Feb.1968. 75.8 K147

#### Vegetable and Truck Crops (Including Potatoes)

- 86450 ADAMS, M. W. Basis of yield component compensation in crop plants with special reference to the field bean, Phaseolus vulgaris. Crop Sci. 7(5):505-510. Ref. Sept./Oct.1967. 64.8 C883
- 86451 AKELEY, R. V., PERRY, B., and PEEL, R. D. Alamo: a new early-maturing, high-yielding, widely adapted potato variety. Amer. Potato J. 45(4):149-141. Apr.1968. 75.8 P842
- 86452 AKELEY, R. V., and others. Lenape: a new potato variety high in solids and chipping quality. Amer. Potato J. 45(4):142-145. Apr.1968. 75.8 P842  
W. R. Mills, C. E. Cunningham, and J. Watts, joint authors.
- 86453 ARMSTRONG, S. R., and HARRINGTON, F. J. Growing field beans. Agr. Northern Ireland 42(10):323-326. Feb.1968. 256.13 Ag82M
- 86454 ASHEROV, I. Squash varieties in Uzbekistan. (Rus) Kartofel' Ovoshchi 2:31-32. Feb.1968. 75.8 K147

- 86478 DAVID, S. Spring tasks with asparagus. (Hu) Kertesz. Szolesz. 17(4):92-93. Feb.1968. 80 K474
- 86479 DAVIES, H. T., and JOHNSTON, G. R. Second clonal generation potato seedling selection at two locations. Amer. Potato J. 45(4):150-153. Apr.1968. 75.8 P842
- 86480 DENEL, J. Ergebnisse der Kartoffel-Sortenversuche 1967 [Results of field trials with potato varieties in 1967]. Vienna. Bundesanst. Pflanzbau Samenprufung. Mitt. Versuchsergeb. 143,24 p. Dec.1967. 64.9 V67
- 86481 DENMARK. STATENS FORSOGSVIRKSOMHED I PLANTEKULTUR. Trials with varieties and strains of spring planted cabbage 1965-66. (Da) Tidsskr. Planteavl 71(2):277-280. 1967. 11 T439
- 86482 DILLER, J. A word about the culture of table potatoes in 1968. (Ge) Kartoffelbau 19(2):24. Feb.1968. 75.8 K145
- 86483 DODGE, J. C. Grower's guide for vegetable crops; cabbage. Wash. State Univ. Ext. E. M. 2925,5 p. Apr.1968. 275.29 W27Mi
- 86484 DUCHEYNE, H. Bitter (greenhouse) cucumbers 1967. (Fl) Tuinbouwberichten 32(3):90-92. Mar.1968. 80 T817  
Chiefly culture.
- 86485 EYNDEN, A. VAN DEN. Seeding and culture of melons. (Fl) Tuinbouwberichten 32(3):105-106. Mar.1968. 80 T817
- 86486 FISCHETTI, B. Grafting even of vegetables. (It) G. Agr. 58(18):237-238. May 5,1968. 16 It1G
- 86487 FOSTER, R. E. Muskmelon micrografts. Hort. Res. 7(2):123-125. Nov.1967. 80 H7892
- 86488 GARDNER, B. Seed potato production in Great Britain. (Ge) Kartoffelbau 19(2):48-50. Feb. 1968. 75.8 K145
- 86489 GOIKO, V., and CHAKINA, Z. Planting density of bush redpeppers. (Rus) Kartoffel' Ovoshchi 3:23-24. Mar.1968. 75.8 K147
- 86490 GRAINGER, V. F. Spring cabbage. Great Brit. Min. Agr. Fish. Food. Agr. 75(3):134-136. Mar.1968. 10 G79J  
Culture.
- 86491 GREBENSHCHIKOV, I. Quantitative and genetic analysis of components of yields in pumpkins. 3. The reciprocal crossing of two very different types of Cucurbita maxima. (Ge) Kulturpflanze 15:57-74. Ref. 1967. 450 K95  
English summary.
- 86492 HANSMANN, G. Directions for varietal selection in food potatoes. (Ge) Feldwirtschaft 9(4):159-161. Apr.1968. 18 W763
- 86493 HARDIE, M. "King Size" onions not wanted on the local market. West. Australia. Dep. Agr. J. (ser.4)9(2):65-68. Feb.1968. 23 W52J  
Chiefly cultural trials.
- 86494 HOLM, J. Vegetables in the garden. (Da) Haven 68(2):36-37. Feb.1968. 80 H29
- 86495 HOOG, G. T. OP'T. Leek trials at the experimental garden at Breda. (Du) Groenten Fruit 23(35):1581. Mar.13,1968. 80 G89
- 86496 HUNNIUS, W. Choice of variety and change in seed potatoes as seen from southern Germany. (Ge) Kartoffelbau 19(2):27-28. Feb.1968. 75.8 K145
- 86497 HUNNIUS, W. Prerequisites for proper potato culture. (Ge) Mitt. Deut. Landwirt.-Ges. 83 (5):122,124-125. Feb.1,1968. 18 N39  
Varieties, fertilizing, and plant protection.
- 86498 HUYSKES, J. A. Breeding of greenhouse lettuce. (Du) Groenten Fruit 23(29):1312-1313. Jan.31,1968. 80 G89
- 86499 JASA, B. Auspicious combination for the year-round utilization of greenhouses. (Cz) Zahradnicke Listy 61(5):144-145. May 1968. 80 Z12  
Mushroom culture combined with cucumbers.
- 86500 JENSEN, J. Culture of celeriac. (Da) Haven 68(3):84-85. Mar.1968. 80 H29
- 86501 JENSEN, J. Melon culture. (Da) Haven 68(5):175-176. May 1968. 80 H29
- 86502 JOHNSON, A. G. Self-blanching celery bred for improved quality. Euphatica 16(3):413-418. Dec.1967. 450 Eu6  
Great Britain.
- 86503 JOUBERT, T. G. LA G., and RAPPARD, C. E. Two new onion cultivars for the Transvaal. Farming S. Afr. 43(10):33-34,43. (Cont.) Jan.1968. 24 So842
- 86504 JUSCAFRESA, B. Brussels chicory or witloof. (Sp) Cultiv. Mod. 41(3):41-42. Mar.1968. 15 C89  
Culture.
- 86505 KILIMNIK, F., and GAILITIS, M. Cabbage seedlings, grown in plastic greenhouses. (Rus) Kartoffel' Ovoshchi 2:14-16. Feb.1968. 75.8 K147
- 86506 KIREEVA, L., DESHEVYKH, V., and LOMONOSOV, O. Growing tomato seedlings under plastic installations. (Rus) Kartoffel' Ovoshchi 2:16-18. Feb.1968. 75.8 K147
- 86507 KOJIMA, S. Tomato, kyuri no hausu saibai; jissen-ka no gijutsu taikei [Greenhouse culture of tomatoes and cucumbers; a technical system for workers]. Ed. 2. Tokyo, Nisan Gyoson Bunka Kyokai, 1967. 350 p. SB349.K6 1967
- 86508 KONONKOV, P. In Cuba. (Rus) Kartoffel' Ovoshchi 2:45-46. Feb.1968. 75.8 K147  
Vegetable culture.
- 86509 KOOMEN, J. P. Growing of celeriac seedlings. (Du) Groenten Fruit 23(32):1457. Feb.21,1968. 80 G89
- 86510 KOOMEN, J. P., and VLUG, J. Soil covering with plastic field culture of cucumbers. (Du) Groenten Fruit 23(38):1719-1720. Apr.3,1968. 80 G89
- 86511 KOOPMANS, W. Survey of green cucumber varieties. (Du) Groenten Fruit 23(27):1239. Jan.17,1968. 80 G89
- 86512 KOPECKY, O., and LUCKY, M. The sweetcorn. (Cz) Uroda 16(4):134. Apr.1968. 64.8 Z12  
Breeding and culture.
- 86513 KOROBOV, P. On the wideness of interrows. (Rus) Kartoffel' Ovoshchi 3:11. Mar.1968. 75.8 K147  
Potato planting.
- 86514 KRAAI, A. Selection of red cabbage worth-growing. (Du) Groenten Fruit 23(28):1273-1275. Jan.24,1968. 80 G89
- 86515 KRASAVINA, N. Bean culture in the subtropical regions. (Rus) Kartoffel' Ovoshchi 3:30-31. Mar.1968. 75.8 K147  
Includes varieties.
- 86516 KRATZIG, P. Choice of variety and change in seed potatoes in the view of northwest Germany. (Ge) Kartoffelbau 19(2):26-27. Feb. 1968. 75.8 K145
- 86517 KULAGINA, A., and ZAITSEV, V. Breeding elite seed potatoes. (Rus) Kartoffel' Ovoshchi 3:14-15. Mar.1968. 75.8 K147
- 86518 KVASNIKOV, B. Trouble in breeding vegetables. (Rus) Kartoffel' Ovoshchi 3:32-34. Mar. 1968. 75.8 K147
- 86519 LAMM, R. Vegetables under glass. (Sw) Jord-Groda-Djur 24:20-35. 1968. 11 J763
- 86520 LEZHANKINA, Z., and MALUGINA, L. Growing special onion variety. (Rus) Kartoffel' Ovoshchi 3:34-35. Mar.1968. 75.8 K147
- 86521 MACK, H. J. Spacing vegetable crops for higher yields. Agrichem. West 11(5):12-15. May 1968. 381 Ag85
- 86522 MANDY, GY. "Budai piaci" dwarf bean. Acta Agron. [Budapest] 17(1/2):279-280. 1968. 19 Ac8
- 86523 MANZHOS, D. From the experience of potato growing in the Federal Republic of Germany. (Rus) Kartoffel' Ovoshchi 3:47-48. Mar.1968. 75.8 K147
- 86524 MARTIROVA, V. P., and VERBITSKII, N. M. Considering physical and mechanical properties of peas in selection. (Rus) Selek. Semenovodstvo 2:68-69. Mar./Apr.1968. 61.9 Se5
- 86525 MELARD, V. The Belgian list of potato varieties. (Fr) Rev. Agr. [Brussels] 20(11/12):1529-1541. Dec.1967. 13 R322
- 86526 MINGES, P. A. Greater use of mechanical harvesting in the East puts emphasis on plant spacings for field-seeded tomatoes. Amer. Vegetable Grower 16(5):20. May 1968. 80 C733



- 86527 MOENS, E. Forced field culture of beans. (F1) *Tuinbouwberichten* 32(3):97-99. Mar.1968. 80 T817
- 86528 MOSHER, P. N. Bulk handling of seed and fertilizer saves labor, costs, backaches. *Amer. Vegetable Grower* 16(5):42,44. May 1968. 80 C733  
Potatoes in Maine.
- 86529 NICHOLS, M. A. A note on a plant density and fertilizer experiment with onions in New Zealand. *Hort. Res.* 7(2):144-147. Nov.1967. 80 H7892
- 86530 NOHEJL, J. Negative selection again on the agenda. (Cz) *Uroda* 16(5):175-177. May 1968. 64.8 Z12  
Breeding of potatoes for resistance to virus diseases.
- 86531 NOVOSELOV, A. Experience with hydroponics. (Rus) *Kartofel' Ovoshchi* 2:44. Feb.1968. 75.8 K147  
Vegetables.
- 86532 OTTOSSON, L. Field culture of vegetables. (Sw) *Jord-Groda-Djur* 24:36-54. 1968. 11 J763
- 86533 PAPERS of the Starch Potato Meeting. (Ge) *Starke Kartoffel* 13(1):1-3. *In Kartoffelbau* 19(2). Feb.1968. 75.8 K145  
Successful starch potato culture in Weser-Ems, by W. Rhode; Culture and processing of starch potatoes from an economic viewpoint, by H. Lompe.
- 86534 PHAN QUANG. Subsidiary food crops. Joint Publ. Res. Serv. Transl.N. Vietnam 314:115-121. Feb.26,1968. (JPRS 44,491) DS557.A7J6  
Chiefly sweetpotato culture.  
Translation from Nhan Dan, Jan.10,1968:2. Issued by CFSTI.
- 86535 PISAREV, B. Role of potatoes in rotation of crops. (Rus) *Kartofel' Ovoshchi* 3:9-10. Mar. 1968. 75.8 K147
- 86536 POMOGEVA, A. I., and CHIRKOV, A. I. Improvement of lentil breeding. (Rus) *Selek. Semenovodstvo* 2:31-32. Mar./Apr.1968. 61.9 Se5
- 86537 POPOV, K. I., and GORSHEVIKOVA, O. L. Effect of planting dates upon formation of pea yields. (Rus) *Vestnik Sel'skokhoz. Nauk. [Moscow]* 3:104-107. Ref. Mar.1968. 20 V633  
English summary.
- 86538 PRESTON, T. A. Potato harvesting damage survey. *Alberta Univ. Fac. Agr. Agr. Bull.* 7:12-14. Feb.1968. 101 AL1A
- 86539 PUSHKARSKII, G. M., and KAMAEV, I. N. Using polyethylene in growing early cucumbers and cabbage. (Rus) *Khim. Sel'skom Khoz.* 6(3):65-66. Mar.1968. 385 K524
- 86540 RIETHUS, H. Results of experiments in growing head lettuce in tower greenhouses. (Ge) *Landesver. Gartenbau Landwirt. Berlin. Mitteilungsbl.* 19(1):46. Jan.1968. 85 L233
- 86541 ROBINSON, R. W., and others. New Yorker, an early tomato variety with a bonus. *Farm Res. [N. Y. Sta.]* 32(4):6-7. Jan./Mar.1967. 100 N48A  
S. Shannon, W. T. Schroeder, R. Provvidenti, and W. B. Robinson, joint authors.
- 86542 RODENEURG, C. M. State of breeding of short day lettuce. (Du) *Groenten Fruit* 23(32):1452-1453. Feb.21,1968. 80 G89
- 86543 RUITER, D. DE. Early greenhouse French beans. (Du) *Groenten Fruit* 23(29):1307. Jan.31,1968. 80 G89
- 86544 SAKUTA, I. Nira: roji, tonneru, onsho saibai [Row, tunnel, and greenhouse culture of leeks]. Tokyo, 1967. 128 p. (Nosan Gyoson Bunka Kyokai. Tokusan Shirizu No. 11) SB351.L5S3
- 86545 SCHALES, F. D. Getting more from vegetable transplants. *Org. Gard. Farming* 15(6):82-83. June 1968. 57.8 Or32
- 86546 SEMAEVE, G. Melon pruning trials. (F1) *Tuinbouwberichten* 32(2):56-59. Feb.1968. 80 T817
- 86547 SHEEHAN, J. E. Rhode Island's potato industry—a model of efficiency; post-war expansion was built on quality potatoes for chipping. *R. I. Agr.* 14(2):1-2. Apr.1968. 100 R342  
Culture.
- 86548 SHELDRAKE, R. *Plastics California style.* *Amer. Veg. Grower* 16(4):30-31,76-77. Apr. 1968. 80 C733  
In vegetable and strawberry culture.
- 86549 SHMONIN, S. A. Injurious Colorado potato beetle. (Rus) *Zashch. Rast.* 5:45. 1968. 421 Z1  
Resistance of several potato varieties to *Lep-tinotarsa decemlineata*.
- 86550 SMITH, P. M. Growing watermelons. *Auburn Univ. Ext. Circ.* P-80,6 p.-folder. Jan.1968. 275.29 AL14Cp
- 86551 SMITH, P. M., LEEPER, R., and FARRAR, L. Irish potato production. *Auburn Univ. Ext. Circ.* P-81,8 p.-folder. Dec.1967. 275.29 AL14Cp
- 86552 SOMOS, A. Karai szabadföldi paradicsomtermesztés [Early field tomato culture]. Budapest, Akadémiai Kiadó, 1967. 135 p. Ref. SB349.S6
- 86553 SOMOS, A., and TURI, I. Modernization of plastic foils for vegetable forcing. (Hu) *Kertes. Szolesz.* 17(2):36-37. Jan.1968. 80 K474
- 86554 STEFFENS, U. Can the "Bintje" bring a solution? (Ge) *Mitt. Deut. Landwirt.-Ges.* 83(12):395-396. Mar.21,1968. 18 N39  
Potato variety.
- 86555 STENE, J. Culture in hobby greenhouse. (No) *Norsk Hagetid.* 88(4):134-137. Apr.1968. 80 N81  
Vegetables.
- 86556 STENE, J. Staking of tomatoes. (No) *Gartneryrket* 58(7):117-118. Feb.16,1968. 80 G1938
- 86557 STRYDOM, E., and OLIVIER, O. J. Asparagus. I. Farming S. Afr. 43(10):28-30. Jan.1968. 24 So842  
Culture.
- 86558 SVENTITSKII, I. I., and others. Conforming temperature of environment with optical radiation of plants. (Rus) *Mekh. Elek. Sots. Sel. Khoz.* 2:24-28. Ref. 1968. 58.8 M46  
P. I. Storozhev, V. G. Sulatskov, and V. I. Efanov, joint authors.  
Vegetables in greenhouses.
- 86559 SWEEP, J. P. M. Raising of seedlings and culture of spring endive. (Du) *Groenten Fruit* 23(28):1269. Jan.24,1968. 80 G89
- 86560 TAKASE, N. Studies in breeding potatoes for resistance to *Phytophthora infestans* with special reference to laboratory assessment of resistance. (Ja) *Hokkaido Nat. Agr. Exp. Sta. Rep.* 71:1-118. Ref. Feb.1968. 107.6 H68N  
English summary.  
Late blight in potatoes.
- 86561 TERESHKOVICH, G. Yield and physical characteristics of several vegetable crops grown in the Georgia Piedmont. *Ga. Agr. Exp. Sta. Res. Rep.* 22,15 p. Mar.1968. S51.E22  
Variety tests.
- 86562 TIRRELL, R. Carrots—even in rocky soil. *Org. Gard. Farming* 15(5):46-48. May 1968. 57.8 Or32
- 86563 TIRRELL, R. Summer squash fits any garden. *Org. Gard. Farming* 15(6):43-45. June 1968. 57.8 Or32
- 86564 TITZE, W. Wind protection for bush beans. (Ge) *Indus. Obst- Gemuseverwertung* 53(7):203-204. Apr.4,1968. 389.8 K832
- 86565 TOMAN, K., and BARES, I. Vesna, a new spring pea variety. (Cz) *Uroda* 16(3):98-99. Mar.1968. 64.8 Z12
- 86566 TRONICKOVA, E. The breeding of vegetables in the Netherlands. (Cz) *Zahradnicke Listy* 61(5):149-151. May 1968. 80 Z12
- 86567 TURNQUIST, O. C. Vegetable varieties, 1968. *Minn. Univ. Ext. Folder* 154,15 p.,map. Mar.1968. 275.29 M66Ex
- 86568 ULDAL, B. Pruning of cucumbers. (No) *Gartneryrket* 58(11):210-211. Mar.15,1968. 80 G1938
- 86569 USIK, G. Better schemes of thinning. (Rus) *Kartofel' Ovoshchi* 3:29. Mar.1968. 75.8 K147  
Tomatoes.
- 86570 VASHCHENKO, S. New methods of growing seedlings. (Rus) *Kartofel' Ovoshchi* 2:14-15. Feb.1968. 75.8 K147  
Cabbage greenhouse culture.

- 86571 VELEV, B. Study on effect of planting scheme and size of nutrient area on yield of red peppers grown on furrowy-bed surface. (Bu) Gradinar. Lozar. Nauk. 4(5):47-56. 1967. 87 G75  
English summary.
- 86572 VEREINIGUNG SCHWEIZERISCHER VER-SUCHS- UND VERMITTLUNGSSTELLEN FÜR SAATKARTOFFELN. Einunddreissigster Tätigkeitsbericht vom 1. November 1966 bis 31. Oktober 1967 [Thirty-first report of activity of the Swiss Association of Experiment Stations and Suppliers of Seed Potatoes (VSVVS) from November 1, 1966 to October 31, 1967]. Ver. Schweiz. Vers. Vermittlungsstellen Saatkartoffeln. Tätigkeitsber. 1968, 22 p. 75.9 V58  
Varieties and quality.
- 86573 VLUG, J. Lettuce in summer culture. (Du) Groenten Fruit 23(37):1673. Mar. 27, 1968. 80 G89
- 86574 VLUG, J. Prospects for field cucumbers. (Du) Groenten Fruit 23(36):1627. Mar. 20, 1968. 80 G89  
Culture.
- 86575 VOS, J. DE. Field culture of early lettuce. (Fl) Tuinbouwberichten 32(1):18-20. Jan. 1968. 80 T817  
Chiefly variety trials.
- 86576 WAGENINGEN. INSTITUUT VOOR RASSENONDERZOEK VAN LANDBOUWGEWASSEN. Erwten [Peas], 1968. Wageningen. Inst. Ras-sononderzoek Landbougewassen. Ber. Rassen-keuze 410, 4 p. Jan. 1968. 64.9 W12  
Variety trials.
- 86577 WARE, G. W. Producing vegetable crops. Dan-ville, Illinois, Interstate, 1968. 558 p., map. Ref. SB321.W3
- 86578 WEICHHOLD, R. The forcing of cucumbers. (Cz) Zahradnicke Listy 61(3):67-68; (4):116-117. 1968. 80 Z12
- 86579 WESTER, R. E. Introducing Green Fordhook 861 lima bean. Seed World 102(7):14-15. Apr. 12, 1968. 61.8 Se52
- 86580 WOODS, M. Research and the challenge in the glasshouse industry. Farm Res. News 9(1):9-12. Jan./Feb. 1968. 10.5 F223  
Tomatoes in Ireland.
- 86581 ZAMOTAIEV, A. I., and MOSINI, M. A. Effect of agricultural practices, before harvesting, on yields and lowering of mechanical injuries of potatoes. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 2:64-68. Feb. 1968. 20 V633  
English summary.
- 86582 ZEMAN, F., and HLAVACEK, J. The cultivation of potatoes in 1967 and 1968. (Cz) Uroda 16(3):108-109. Mar. 1968. 64.8 Z12  
Includes yields.
- 86583 ZIMMERMANN, I. Comparative variety trials with onion. (Hu) Novenytermeles 1:69-75. Mar. 1968. 64.8 N76  
English summary.
- 86584 ZINGSTRA, H. 25 years of potato breeding work by the Cebeco breeding farm at Hoofddorp. (Du) Pootaardappelhandel 21(92):18-19. Apr. 1968. 286.83 P79
- 86585 ZINGSTRA, H. Kapenga, a concept for the potato breeder and varietal research. (Du) Potaardappelhandel 21(92):13-15. Apr. 1968. 286.83 P79  
Includes comment by J. Kapenga.
- 86586 ZUIBAYASHI, K. Raising vegetables in the vil-lages of Laos. (Ja) Agr. Asis 6(5):21-25. May 1968. 22.5 Aj5
- 86588 BAKHTADZE, K. E. Use of heterosis in tea breeding. (Rus) Genetika 11:26-30. Nov. 1967. QH431.A1G4  
English summary.
- 86589 BERGWEN, K. Effective plant substances in cosmetics. Amer. Perfum. Cosmet. 83(5):41-43. May 1968. 308.8 Am3
- 86590 BOUHARMONT, P. The pruning of the Robusta coffee tree in the coffee areas of the Eastern Cameroons. (Fr) Cafe, Cacao, The 12(1):13-27. Jan./Mar. 1968. 68.8 C112  
English summary.
- 86591 FISCHER, G. Investigations on the prevention of serum anaphylaxis with sparteine from Scotch broom [Sarthamnus scoparius]. (Ge) Z. Biol. 116(1):60-67. Feb. 1968. 442.8 Z3
- 86592 FLACCOMIO, E. Even the culture of drug plants would bring great relief for Sicily. (It) Riv. Ital. Essenze—Profumi—Piante Offic.—Aromi—Saponi—Cosmet.—Aerosol 50(2):70-71. Feb. 1968. 308.8 R52
- 86593 FOLDESI, D., SVAB, MRS. J., and DOBY, S. Experimental results on advanced methods of the large-scale cultivation of sweet fennel [Foeniculum vulgare]. (Hu) Novenytermeles 1:59-68. Mar. 1968. 64.8 N76  
English summary.
- 86594 FRANCISCO RUBIO, J. The National Coffee Association [Asociacion Nacional del Cafe] acquires its own property. (Sp) Rev. Cafetalera 76:10-13. Dec. 1967. 68.28 R322  
As an experimental farm.
- 86595 FRIARD, R. Development of demand and pro-duction of drug plants. (Fr) Riv. Ital. Essen-ze—Profumi—Piante Offic.—Aromi—Saponi—Cosmet.—Aerosol 50(1):7-11. Jan. 1968. 308.8 R52
- 86596 FRIARD, R. Evolution of demand and produc-tion of medicinal plants. (Fr) France Par-fums 11(57):47-50. Jan./Feb. 1968. 308.8 F84  
Culture included.
- 86597 GUATEMALA. INSTITUTO DE FOMENTO DE LA PRODUCCION. The annatto tree [Bixa orellana]. (Sp) Rev. Cafetalera 76:23-27. (Cont.) Dec. 1967. 68.28 R322  
Culture and composition.
- 86598 GULATI, B. C., DUHAN, S. P. S., and BHAT-TACHARYA, A. K. Observations on the produc-tion of Eucalyptus citriodora oil. Perfumery Essent. Oil Rec. 59(4):266-271. Apr. 1968. 308.8 P41  
Culture of the tree and extraction of the oil.
- 86599 HALMAI, J. Pharmaceutical aspects of the lime tree. Acta Agron. [Budapest] 17(1/2):275-276. 1968. 19 Ac8  
Tilia cordata and T. platiphyllous.
- 86600 HARTLING, C. Poisonous plants on the fringe of pharmacy. (Ge) Acta Phytoterap. 15(3):41-47. 1968. 450 Ac88
- 86601 HARTWELL, J. L. Plants used against can-cer; a survey. Lloydia 30(4):379-436. (Cont.) Ref. Dec. 1967. 442.8 L77  
Over 3,000 plants from world literature since the beginning of writing.
- 86602 HU, S. Y. Uses of daylily [Hemerocallis] as food and in medicine. Amer. Hort. Mag. 47(2):214-218. Spring 1968. 80 N216
- 86603 JAMINET, L. V. Ginger plants and their es-sential oils. (Ge) Seifen-Ole-Fette-Wachse 41(8):209-212. Apr. 10, 1968. 307.8 Se4  
Zingiberaceae.
- 86604 KAMINEK, M., and KAMINER, L. Black mul-berry in Near East. (Cz) Ziva 16(2):59-60. Mar. 1968. 409.6 Z6  
Culture.
- 86605 KOROLOVA, V. A. In regard to the role of selection in kok-saghyz. 10 p. Transl. 16793  
Translation from Vsesoyuznaya Akademiya Sel'skokhozyaistvennykh Nauk. Doklady 13:3-6. 1940.
- 86606 LOVELL, H. B. Let's talk about honey plants. Gleanings Bee Cult. 96(5):291-292, 311. May 1968. 424.8 G47

#### Miscellaneous Economic Plants (Coffee, Tea, Cacao, Etc.)

- 86587 ALTUKHOV, M. A. A summary of the results obtained so far and the immediate problems before us in the field of Soviet rubber-bearing plants. 10 p. Transl. 16782  
Chiefly kok-saghyz culture.  
Translation from Sotsialisticheskoe Sel'skoe Khozyaistvo 1:120-127. 1939.



- 86607 MATON, A., and SACREAS, H. Cultivation of hops in Belgium. (Du) Nat. Inst. Brouwergerst, Mout Bier—T.N.O. Jaarb. 32:27-36. 1968. 390.9 N21
- 86608 METHODS of commercial production of mulberry seedlings. (Rum) Sericicultura 4(1):30-36. 1968. SF541.S4  
By grafting.
- 86609 MOSHKIN, V. A. How to grow high quality castorbean seeds. (Rus) Selekt. Semenovodstvo 2:60-62. Mar./Apr. 1968. 61.9 Se5
- 86610 RAMOS NUNEZ, G. The pepper (*Piper nigrum* L.), promising plant for Colombia. (Sp) Agr. Trop. 24(2):97-106. Ref. Feb. 1968. 26 Ag8  
Culture.
- 86611 REYNA, H. New method for coffee grafting. III. (Sp) Agr. Amer. 17(4):22,24. Ref. Apr. 1968. 58.8 Ag832
- 86612 RIVERA ERAZO, R. The annattotree, interesting secondary crop. (Sp) Tierra [Mexico] 23(4):261,315-316. (Cont.) Apr. 1968. 8 T445  
Culture.
- 86613 RUBIO, J. F. *Dioscorea floribunda*, a source of additional income from the plantation. (Sp) Rev. Cafetalera 75:27-28. Nov. 1967. 68.28  
68.28 R322  
Raised in Guatemala as source of diosgenin.
- 86614 SIVKO, T. N., and KONDRATYUK, V. G. Culture of *Chlorella vulgaris* on sewage of an oil-refinery plant. (Rus) Akad. Nauk Belorussk. SSR. Dokl. 11(12):1117-1119. Dec. 1967. 511 M663D  
Water pollution control.
- 86615 SOEPADYO, R., and TAN HONG TONG. Patchouli, a profitable catch crop. World Crops 20(1):48-54. Mar. 1968. 281.8 W892  
Chiefly culture; includes oil distillation and properties.
- 86616 SRIVASTAVA, A. K. A note on the experimental cultivation of *Dioscorea prazeri* Prain and Burk. in the plains of Uttar Pradesh. Indian Bot. Soc. J. 46(1):25-30. 1967. 450 J821  
As a drug plant.
- 86617 STESELS, L., and MALINGRAUX, C. The use of the castor oil plant as shade in oil palm nurseries in Dahomey. (Fr) Oleagineux 23(4):229-232. Apr. 1968. 77.8 OL2  
English summary, p. XLIII.
- 86618 TASUGI, H. Wild food plants of Java. (Ja) Agr. Asia 6(4):20-23. Apr. 1968. 22.5 Aj5
- 86619 TOXOPEUS, H. Establishment of cacao clones in Nigeria. Euphytica 17(1):38-45. Ref. Apr. 1968. 450 Eu6
- 86620 VERNAZZA, N. A contribution to the study of lavender oil. (Se) Arh. Poljoprivredne Nauk. 20(68):40-47. 1967. 21.5 Y9  
English summary.  
Includes culture and quality of oil.
- 86621 VERNON, A. J. Edge effects in a cocoa shade and manurial experiment. J. Hort. Sci. 43(2):147-152. Apr. 1968. 80 J825
- 86622 WAHLFELDT, B. Herbs—a garden within a garden. Org. Gard. Farming 15(6):28-30. June 1968. 57.8 Or32  
Culture.
- 86623 ZASYADNIKOV, T. Spring sowing of koksa-ghyz. 8 p. Transl. 16801  
Translation from Sotsialisticheskoe Sel'skoe Khozyaistvo 4:70-75. 1941.
- PLANT PATHOLOGY AND PROTECTION**
- 86624 AGWAY, INC. Agway chemical control guide; part 1, insects and diseases; part 2, weeds. Syracuse, New York, 1967. loose-leaf. SB951.A3  
Kept up to date by supplementary and revised sheets.
- 86625 AKAI, S., and others. Shokubutsu byogaku [Plant pathology]. Tokyo, Asakura Shoten, 1967. 217 p. SB731.S52  
J. Shiyama, M. Gondo, T. Kawamura, H. Mukai, and T. Matsuo, joint authors.
- 86626 ALTER, J., and others. On the quantitative determination of the active substances in plant protection and pest control products with the aid of combined thin-layer chromatography-Röntgen-fluorescence spectrometry. (Ge) Z. Anal. Chem. 233(3):188-193. 1968. 384 Z3  
D. Diehlmann, R. Beydatsch, P. Kohler, D. Quaas, and W. Spichale, joint authors.  
English summary.
- 86627 AMERICAN PHYTOPATHOLOGICAL SOCIETY. CARIBBEAN DIV. Abstracts of the 1967 annual meeting. Phytopathology 58(5):553-554. May 1968. 464.8 P56
- 86628 AT THE Kazakh Institute for Plant Protection [Kazazhsii Institut Zashchity Rastenii]. (Rus) Zashch. Rast. 3:60. 1967. 421 Z1
- 86629 BELTRUP, A. Experiences with the "spray saving process." (Ge) Chem. Tech. Landwirt. 19(5):169-170,172. May 1968. 384 C4292  
Use of Synergid as additive in plant protection sprays.
- 86630 BONING, K. The importance of crop rotation in the frame of integrated plant protection. (Ge) Qualitas Plant. Mater. Veg. 15(3):215-224. Aug. 3, 1968. 64.8 M41  
English summary.
- 86631 BORZINI, G. Results of experimental orienting and practical tests carried out in Piedmont during 1967 in the field of plant pathology; prospects for the 1968 season. (It) Colt. G. Vini-colo Ital. 114(1/2):21-23. Jan./Feb. 1968. 16 C72
- 86632 BRAUN, H. Plant hygiene and integrated plant protection. (Ge) Qualitas Plant. Mater. Veg. 15(3):257-272. Ref. Aug. 3, 1968. 64.8 M41  
English summary.  
Cultural measures instead of chemical control.
- 86633 BYASS, J. B. An appraisal of high, medium, and low volume methods of spray application. PANS (Pest Articles News Sum.) Sect. A. Insect Contr. 14(2):249-256. May 1968. 423.92 G798
- 86634 CHUTER, J. I., and SILK, J. A. A co-ordinate indexing system for crop protection information. PANS (Pest Articles News Sum.) Sect. C, Weed Contr. 14(2):111-116. June 1968. 79.9 G792
- 86635 CONNERS, I. L. An annotated index of plant diseases in Canada, and fungi recorded on plants in Alaska, Canada and Greenland. Can. Dep. Agr. Publ. 1251,381 p. 1967. 7 C16Pu  
Bibliography, p. 322-336.
- 86636 COX, R. S., BARDSLEY, H. C., and JOHNSON, F. A. Commercial implementation of disease control. Plant Dis. Rep. 52(5):339-340. May 1968. 1.9 P69P
- 86637 FISCHER, H. Plant protection and the economic situation in agriculture. (Ge) Gesunde Pflanzen 20(1):1-4. Jan. 1968. 464.8 G33  
Lower prices due to the European Common Market must be met by reducing costs of plant protection.
- 86638 FULDE, S. 15 years of research in the field of chemical plant protection against weeds, pests and pathogenic agents at the Institute of Organic Industry [Instytut Przemyslu Organicznego] at Warsaw. (Pol) Przemysl Chem. 47(2):53-55. Feb. 1968. 385 P952
- 86639 GILAROV, M. S. Soil zoology in relation to plant protection. (Rus) Zashch. Rast. 11: 35-36. 1967. 421 Z1
- 86640 GLAESER, G. The occurrence of important causes of injury to crop plants in Austria in the year 1967. (Ge) Pflanzenschutzberichte 37(4/6):67-85. Mar. 1968. 464.9 P48  
English summary.  
Diseases, insect pests, and rodents.
- 86641 GOODMAN, R. N., KIRALY, Z., and ZAITLIN, M. The biochemistry and physiology of infectious plant disease. Princeton, New Jersey, Van Nostrand, 1967. 354 p. SB601.G6  
Includes bibliographies.  
Fungus, bacterial and virus diseases.

- 86642 HAGIN, M. Timely questions on plant protection. (Ge) Landesver. Gartenbau Landwirt. Berlin. Mitteilungsbl. 19(1):48-49. Jan.1968. 85 L233
- 86643 INTERNATIONAL CONGRESS OF PLANT PROTECTION, 6, VIENNA, 1967. Abstracta. Wien, Wiener Medizinische Akademie, 1967. 704 p. SB951.15 1967a  
Text in English, French, and German.
- 86644 JUNG, J. Inhibiting materials from higher plants in plant protection. (Ge) Mitt. Staatsforstverwalt. Bayerns 36:105-112. 1967. 99.9 B342  
Antibiotics, chiefly.
- 86645 KANEKO, T. Protection for tea bushes. Agr. Asia 5(12):29-34. Dec.1967. 22.5 Aj5  
Includes major insect pests, nematodes, fungus diseases and their chemical control.
- 86646 KONIECZNA, H. Supply of chemical plant protection preparations for agricultural use in 1968. (Pol) Ochrona Roslin 12(2):22-24. Feb. 1968. 464.8 Oc32
- 86647 KRIVCHENKO, V. T. The Institute of Plant Protection for the Southwestern Regions of the USSR [Institut Zashchity Rastenii Yugo-Zapadnykh Raionov SSSR]. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 11:107-109. Nov. 1967. 20 V633
- 86648 MARTELLI, G. M. Conferences on plant pathology. (It) Agricoltura 17(1):96-102. Jan. 1968. 16 Ag8226  
English summary, p.9.
- 86649 MARTIN, H. Die wissenschaftlichen Grundlagen des Pflanzenschutzes [The scientific principles of crop protection]. Ed. 5, rev., and enl. Weinheim, Verlag Chemie, 1967. 606 p. Ref. SB951.M34 1967  
Translation of the 5th English edition.
- 86650 NATIONAL COUNCIL OF APPLIED ECONOMIC RESEARCH (INDIA). Pesticides in Indian agriculture. New Delhi, 1967. 146 p. SB951.N32  
Plant protection from diseases, pests, and weeds.
- 86651 NGUYEN TRUONG KHOAT. Protection of crops. Joint Publ. Res. Serv. Transl. N. Vietnam 360:35-38. May 7, 1968. (JPRS 45,288) DS557.A7J6  
Plant protection.  
Translation from Nhan Dan, Mar.24, 1968:2. Issued by CFSTI.
- 86652 PERIS PEREZ, P. The hazards of certain plant sanitation products. (Sp) Cultiv. Mod. 41(3):47. Mar.1968. 15 C89
- 86653 PHYTOPATHOLOGICAL SOCIETY OF JAPAN. Abstracts of papers accepted for presentation at the annual meeting of the Society, Sapporo, June 1-2, 1968. (Ja) Phytopathol. Soc. Jap. Ann. 34(3):163-210. May 1968. 464.9 P562  
On fungus diseases, bacterial diseases, virus diseases, and fungicides.
- 86654 POPOV, P. Organization of plant protection and forecasting in German Democratic Republic. (Bu) Rast. Zasht. 16(5):33-37. 1968. 423.92 So2
- 86655 PREECE, D. A. Nested balanced incomplete block designs. Biometrika 54(3/4):479-486. Dec.1967. 442.8 B522  
Applicable to study of plant disease.
- 86656 ROGOLL, H. The inclusion of plant protection in the Schafstadt Agrochemical Center [Agrochemisches Zentrum Schafstadt]. (Ge) Feldwirtschaft 9(3):130. Mar.1968. 18 W763
- 86657 ROIG, M. Treatment of crops: spraying and dusting. (Fr) Inform. Agr. [Paris] 380:48-50. Apr.1968. HD1945.A115
- 86658 RUSS, K. On the mode of action of integrated plant protection. (Ge) Pflanzenarzt. 21(5):67-68. May 1, 1968. 464.9 P482
- 86659 SHISHIYAMA, J., and HIRAI, T. An approach to the elucidation of host-parasite interaction. (Ja) Phytopathol. Soc. Jap. Ann. 34(2):158-160. Mar.1968. 464.9 P562  
Plant diseases.
- 86660 SOURCEBOOK of laboratory exercises in plant pathology, by A. Kelman, and others. Rev. San Francisco, Freeman, 1967. 387 p. Ref., p.372-375. SB732.S6 1967  
Sponsored by American Phytopathological Society, Committee on Teaching.
- 86661 STACHYRA, T. Extent of damage and limits of economic effectiveness of plant protection treatments. (Pol) Ochrona Roslin 12(2):16-17. Feb.1968. 464.8 Oc32
- 86662 STOYANOV, R. Protection of agricultural plants from pests. (Bu) Rast. Zasht. 16(1):4-6. 1968. 423.92 So2  
Activities of State Plant Protection Station [Durzhavnata Rastitelnozashtitna Stantsiya] at Silistra.
- 86663 THOMPSON, N. R. Plant and animal quarantine. Tasmanian J. Agr. 39(1):70-71. Feb. 1968. 23 T182T
- 86664 TRIFONOV, D. Necessity of thermo-chambers and greenhouses in the production of healthy seedlings. (Bu) Rast. Zasht. 16(5):12-14. 1968. 423.92 So2
- 86665 USPENSKAYA, G. D., D'YAKOVA, YU. T., and SEMENKOVA, I. G. Obshchaya fitopatologiya s osnovami immuniteta [General phytopathology with the fundamentals of immunity]. Moskva, Kolos, 1967. 238 p. Ref. SB731.U8
- 86666 WALKER, J., and MCLEOD, R. W. New records of plant diseases in New South Wales. Agr. Gaz. New S. Wales 79(4):239-244, map. Apr.1968. 23 N472
- 86667 ZWATZ, B. Situation and development trends of disease control in seeds. (Ge) Forderungsdienst 16(1):7-11. Jan.1968. 19 F75  
Includes treatment in Austria.

#### Diseases of Field Crops

- 86668 ATKINSON, C. Maize pests and plant disease. World Crops 19(6):59-62. Dec.1967. 281.8 W892  
Illustrations.
- 86669 BELYAEV, I. M. Mixed seed disinfectants and their effectiveness. (Rus) Khim. Sel'skom Khoz. 6(4):26-28. Apr.1968. 385 K524  
Applied to grain to control diseases and pests.
- 86670 EDGINGTON, L. V. 1968 chemicals for seed treatment of small grains. Ontario, Dep. Agr. Publ. 252,2 p.-folder. Mar.1968. 7 On8P  
For disease control.
- 86671 DELASSUS, M. Phytosanitary studies of peanuts and food grains in Senegal. (Fr) Agron. Trop. Paris 22(12):1227-1234. Dec.1967. 26 Ag86
- 86672 IVANOVA, V. How to control wildfire of tobacco seedlings. (Bu) Rast. Zasht. 16(1):19-21. 1968. 423.92 So2
- 86673 JUNEJO, U. A. K., and MALIK, M. M. S. Studies on microflora associated with sorghum seed. 1. Survey, isolations and pathogenicity. West Pakistan J. Agr. Res. 5(4):81-92, map. Ref. Dec.1967. 22 W52
- 86674 LAPTEV, N. Inability to cope with wheat blight in the virgin land regions. U. S. Joint Publ. Res. Serv. Transl. USSR Agr. 226:44-47. Nov.30, 1967. (JPRS 43,507) 173 J663Tso  
Translation from Pravda, Sept.28, 1967:2. Issued by CFSTI.
- 86675 RODRIGUEZ AMIEVA, P. J., and FRECHA, J. H. Ensayo territorial de enfermedades en trigo, cebada, avena, centeno y lino en la region cerealera Argentina en 1967 [Territorial essay of diseases of wheat, barley, oats, rye, and flax in the grain region of Argentina in 1967]. Argent. Inst. Fitotec. Bol. Inform. 27, 17 p. Jan.1968. 9 Ar36B
- 86676 YANEV, T. Aviation in the control of pests and diseases of tobacco. (Bu) Bulg. Tyutyun 6:12-13. 1967. 69.8 B872

#### Diseases of Horticultural Crops

- 86677 BRETZ, T. W. Root diseases of trees and shrubs. Arborist's News 33(3):1-7. Mar.1968. 99.8 Ar14  
From various causes.
- 86678 BROGDON, J. E., LAWRENCE, F. P., and MULLIN, R. S. Control of insects and diseases of dooryard citrus trees. Fla. Univ. Ext. Circ. 139D, 19 p. Apr.1968. 275.29 F66C



- 86679 DISEASES and pests of strawberries. (Rus) Zashch. Rast. 5:38-39. 1968. 421 Z1
- 86680 EMILIA. ISPEI TORATO COMPARTIMENTALE DELL'AGRICOLTURA. Post-flowering treatments of fruit. (It) Inform. Fitopatol. 18(7): 116-121. Apr.15,1968. 464.8 In3  
Pests and diseases.
- 86681 FARRAR, L. L., SELF, R. L., and THORN-HILL, H. B. Boxwood disease control & cultural practices. Auburn Univ. Ext. Circ. P-36, 6 p.-folder. June 1967. 275.29 AL14Cp
- 86682 GELOSI, A. Cost of antiparasitical sprays for fruit trees and grapevines in the Province of Ravenna. (It) Romagna Agr. Zootec. 53(1):3-21. Jan.1968. 16 R66
- 86683 GILL, D. L., and HEALD, C. M. Diseases of daylily [Hemerocallis]. Amer. Hort. Mag. 47 (2):207-209. Spring 1968. 80 N216
- 86684 HARRIS, E. D., and MCGLOHON, N. E. Georgia peach disease and insect control guide. Ga. Univ. Ext. Bull. 630,rev.,16 p. Jan.1968. 275.29 G29B
- 86685 HEJNDORF, F. Diseases and pests of walnuts and hazel. (Da) Haven 68(2):46-48. Feb.1968. 80 H29  
Includes chemical control.
- 86686 JONES, S. C., EVERY, R. W., and MACSWAN, I. C. 1968 spray program for apples and pears in the Willamette Valley. Oreg. State Univ. Ext. Ext. Circ. 677,rev.,18 p. Apr.1968. 275.29 Or32C  
Disease and pest control.
- 86687 JONES, S. C., EVERY, R. W., and MACSWAN, I. C. 1968 spray program for stone fruits in Oregon. Oreg. State Univ. Ext. Ext. Circ. 675, rev.,23 p. Apr.1968. 275.29 Or32C  
Disease and pest control.
- 86688 KHADZHISKI, S. Protection of grape plantings from pests. (Bu) Rast. Zashch. 16(4):3-7. 1968. 423.92 So2  
Includes diseases.
- 86689 LEMBCKE, G. The contribution of plant protection in the Schwerin district to improvement of potato quality. (Ge) Feldwirtschaft 9(4):164-165. Apr.1968. 18 W763
- 86690 MCRITCHIE, S., and O'REILLY, H. J. Walnut blight. Diamond Walnut News 50(2):17. Apr. 1968. 94.68 D34
- 86691 MOJICA B., M. Citrus diseases. (Sp) Agr. Trop. 24(2):117-121. Feb.1968. 26 Ag8  
Colombia.
- 86692 MULLER, K. W. Biologische Grundlagen des gartnerischen Pflanzenschutzes. Eine Einfuehrung in die biologie pflanzlichen und tierischen Schadlinge sowie der Virus- und nicht-parasitaeren Krankheiten im Gartenbau [Biological foundations of horticultural plant protection; an introduction to the biology of plant and animal pests as well as virus and non-viral diseases in horticulture]. Munchen, Bayerischer Landwirtschaftsverlag, 1967. 206 p. Ref. SB603.5.M8  
Includes insect pests and namatodes, fungus and bacterial diseases.
- 86693 PRICE, W. C., MARTINEZ, A. P., and ROBERTS, D. A. Reproduction of the coconut lethal yellowing syndrome by mechanical inoculation of young seedlings. Phytopathology 58(5):593-596. Ref. May 1968. 464.8 P56
- 86694 SANDVED, G. Some of the most common pests and diseases of Begonia x hiemalis. (No) Gartneryrket 58(17):350,352. Apr.26,1968. 80 G1938
- 86695 SAVORY, B. M. Fruit tree replant disease. Great Brit. Min. Agr. Fish. Food. Agr. 75(2): 80-83. Feb.1968. 10 G79J  
Causes unspecific.
- 86696 SHAPOVALOVA, G. K. Characteristic of economic poisons and their application in apple gardens in the central zone of the Russian SFSR. (Rus) Khim. Sel'skom Khoz. 6(2):67-70. 1968. 385 K524
- 86697 SHTERENBERG, P. M., and ROMANCHENKO, A. A. Protection of grapes. (Rus) Zashch. Rast. 5:30-32. 1968. 421 Z1  
Against diseases and pests.
- 86698 SWITZERLAND. EIDGENOSSISCHE VERSUCHSANSTALT FUR OBST-, WEIN- UND GARTENBAU (WADENSWIL). Grape spraying calendar 1968. (Ge) Schweiz. Z. Obst- Weinbau 104(5): 119-120. Mar.2,1968. 80 Sch9
- 86699 TASMANIA. DEPT. OF AGRICULTURE. PLANT PATHOLOGY DIV. Turf diseases. Tasmanian J. Agr. 39(1):47-49. Feb.1968. 23 T182T
- 86700 TELIZ, D., and GOHEEN, A. C. Diseases of grapevines in Mexico. Plant Dis. Rep. 52(5): 372-373. May 1968. 1.9 P69P
- 86701 TILLEMA, J. E. Tomato cultivars for the Lowveld. Farming S. Afr. 43(10):3,7,25,32. Jan. 1968. 24 So842  
Chiefly disease resistance.
- 86702 VUCHKOV, B. Control of main diseases and pests of grapes. (Bu) Rast. Zashch. 16(4):43-44. 1968. 423.92 So2

#### Diseases of Forest Trees

- 86703 BAXTER, D. V. Disease in forest plantations: thief of time. Cranbrook Inst. Sci. Bull. 51, 251 p. Ref. 1967. 410.9 C85B  
Includes control.
- 86704 JACKSON, L. W. R. Key to diseases of southern forest trees. Forest. Res. Notes 22(7):50-51. Mar.1968. 99.8 F7692
- 86705 STARK, V. N. Results and prospects of research on pests and diseases of shelterbelt forest stands. 10 p. (TT 66-51076) Transl. 16257  
Includes control.  
Translation from Vsesoyuznyi Institut Zashchity Rastenii. Trudy 8:5-17. 1957.  
Issued by CFSTI.

#### Bacterial Diseases

- 86706 FARLEY, J. D., and LOCKWOOD, J. L. The suppression of Actinomycetes by PCNB in culture media used for enumerating soil bacteria. Phytopathology 58(5):714-715. May 1968. 464.8 P56
- 86707 FUKUI, S., and HIRATA, A. Effect of manganese ion on growth energetics in Agrobacterium tumefaciens. J. Gen. Appl. Microbiol. 14(1):47-55. Ref. Mar.1968. 448.3 J824
- 86708 GRUNBERG, E. The necrosis of mulberry, a principal form of bacteriosis. (Rum) Sericultura 4(1):37-41. 1968. SF541.S4  
Includes control.
- 86709 MANASSE, R., and GERSHON, H. A convenient preparation of lysopine and its dibutyl N epsilon-trifluoroacetyl derivative. Boyce Thompson Inst. Contrib. 24(1):15-16. Oct./Dec.1967. 451 B69  
From crown gall tissues caused by Agrobacterium tumefaciens.

#### Bacterial Diseases - Field Crops

- 86710 KARSTEN, U., and MULLER-STOLL, W. R. Some components of the bacterial tumors [Agrobacterium tumefaciens]-of Vicia faba L. (Ge) Biol. Zentralbl. 86(6):691-705. Ref. Nov./Dec. 1967. 442.8 B523  
English summary.
- 86711 TABEI, H. Anatomical studies of rice plant affected with bacterial leaf blight, with special reference to wilt symptom. (Ja) Phytopathol. Soc. Jap. Ann. 34(2):137-139. Ref. Mar.1968. 464.9 P562  
English summary.

#### Bacterial Diseases - Horticultural Crops

- 86712 COOK, A. A., and STALL, R. E. Effect of Xanthomonas vesicatoria on loss of electrolytes from leaves of Capsicum annum. Phytopathology 58(5):617-619. Ref. May 1968. 464.8 P56
- 86713 DIMITROV, S. Bacterial wildfire [Pseudomonas syringae] of citrus plants—a dangerous disease imported to Bulgaria with lemon fruit. (Bu) Rast. Zashch. 16(1):21-23. 1968. 423.92 So2

- 86714 ERCOLANI, G. L. Effectiveness and measure of the transmission of *Xanthomonas vesicatoria* and *Corynebacterium michiganense* through tomato seed. (It) Indus. Conserve 43(1):15-22. Ref. Jan./Mar.1968. 389.8 In23  
English summary, Summaries, p.3.
- 86715 GUTHRIE, J. W. The serological relationship of races of *Pseudomonas phaseolicola*. Phytopathology 58(5):716-717. May 1968. 464.8 P56  
Cause of halo blight of beans.
- 86716 HEATON, J. B., and BENSON, C. W. Bacterial wilt, *Pseudomonas solanacearum* (Erw. Smith 1896) Erw. Smith 1914 of tomato in the Northern Territory. Australian Inst. Agr. Sci. J. 34 (1):37-38. Mar.1968. 23 Au74
- 86717 KOMAGATA, K., TAMAGAWA, Y., IIZUKA, H. Characteristics of *Erwinia herbicola*. J. Gen. Appl. Microbiol. 14(1):19-37. Ref. Mar.1968. 448.3 J824  
Isolated from vegetables and fruit.
- 86718 MALENIN, I. A new preparation for control of bacterial canker [*Agrobacterium tumefaciens*] on grapes. Rast. Zashch. 16(1):30-33. Ref. 1968. 423.92 So2
- 86719 NEMETH, J. The first occurrence of disease of the carnation caused by *Pseudomonas caryophylli* (Burkholder) Starr et Burkholder in Hungary. Acta Phytopathol. 3(1):45-50. 1968. SB731.A3
- 86720 O'KENNEDY, N. D., and KAVANAGH, T. Bacterial canker (*Pseudomonas mors-prunorum*) of sweet cherries. Irish J. Agr. Res. 7(1):134-136. Apr.1968. 10.5 Ir45
- 86721 ORLOVA, G. T. Blight of fruit. (Rus) Zashch. Rast. 5:44. 1968. 421 Z1  
Caused by *Erwinia amylovora*; diagnosis.
- 86722 ROED, H. Bacterial ring [*Corynebacterium sepeidonicum*] threaten our potato culture. (No) Norsk Landbruk 8:6-7,39. Apr.19,1968. 11 N8122
- 86723 THOMAS, C. E. Bacterial rind necrosis of watermelon in south Texas. Plant Dis. Rep. 52 (5):375-377. May 1968. 1.9 P69P  
Caused by *Erwinia* sp.
- 86724 VUKOVITS, G. Two important diseases of walnut trees. (Ge) Pflanzenarzt 21(5):64-65. May 1,1968. 464.9 P482  
*Xanthomonas juglandis* and *Marssonina* sp. causing bacterial and fungus diseases.
- Fungus Diseases
- 86725 ABEDI, Z. H., and MCKINLEY, W. P. Bioassay of captan by zebrafish larvae. Nature 216 (5122):1321-1322. Dec.30,1967. 472 N21
- 86726 ABELENTSEV, V. I., and others. Composition and fungicidal characteristic of some mixed ester amides of phosphorothioic acid. (Rus) Khim. Sel'skom Khoz. 6(3):30-32. Mar.1968. 385 K524  
I. L. Vladimirova, N. M. Golyshin, T. P. Krylova, N. N. Mel'nikov, and A. F. Prokof'eva, joint authors.
- 86727 BECK, W. The known effects of CCC on the development of plant parasitic fungi. (Ge) Pflanzenschutzberichte 37(10/11):145-159. Ref. June 1968. 464.9 P48  
English summary.
- 86728 BOURRET, J. A., GOLD, A. H., and SNYDER, W. C. Effect of carbon dioxide on germination of chlamydospores of *Fusarium solani* f. sp. phaseoli. Phytopathology 58(5):710-711. May 1968. 464.8 P56
- 86729 CATALINA, L. Parasitic fungi causing mildew in plants. (Sp) Cultiv. Mod. 41(3):39. Mar. 1968. 15 C89
- 86730 CHANTURIYA, N. N. Some new fungicides used for control of leaf mold of mulberry. (Rus) Akad. Nauk Gruz. SSR. Soobshch. 48(3): 673-678. Dec.1967. 511 AK146  
Caused by *Cylindrosporium maculans*.
- 86731 CHEE, K. H., and GREENWOOD, J. M. F. Phytophthora leaf fall and pod rot of *Hevea brasiliensis* in Thailand. FAO Plant Protect. Bull. 16(1):1-5, map. Feb.1968. 421 P962
- 86732 DE MEESTER, C., LAMBERT, R., and WIAUX, A. Effect of some dithiocarbamates on respiration activity of a myxomycete [*Physarum polycephalum*]. Physiol. Plant. 20(3):697-701. Ref. 1967. 450 P564  
Ferbam, Ziram, and Thiram used.
- 86733 EMECHEBE, A., and LEAKEY, C. L. A. *Verticillium dahliae* established as a cause of sudden death of cocoa. FAO Plant Protect. Bull. 16(1): 13. Feb.1968. 421 P962
- 86734 EREN, J., and PRAMER, D. Use of a fluorescent brightener as aid to studies of fungistasis and nematophagous fungi [*Arthrobotrys conoides*] in soil. Phytopathology 58(5):644-646. Ref. May 1968. 464.8 P56
- 86735 GOLYSHIN, N. M. Captan. (Rus) Zashch. Rast. 5:50-51. 1968. 421 Z1  
Its application in controlling fungus and bacterial diseases of plants.
- 86736 GREEN, R. J., and PAPAIVAS, G. C. The effect of carbon source, carbon to nitrogen ratios, and organic amendments on survival of propagules of *Verticillium albo-atrum* in soil. Phytopathology 58(5):567-570. Ref. May 1968. 464.8 P56
- 86737 IVANOVA, S. N., and ANDREVEEVA, E. I. Liquid seed disinfectants. (Rus) Khim. Sel'skom Khoz. 6(4):22-25. Ref. Apr.1968. 385 K524  
Fungicides; tested on several seeds.
- 86738 JILANI, M. B., and MALIK, M. M. S. Observations on the physiological behaviour of *Tolyposporium ehrenbergii* (Kuhn) Pat. West Pakistan J. Agr. Res. 5(4):66-73. Ref. Dec.1967. 22 W52
- 86739 KALASHNIKOV, K. YA. Treatment of seeds with granulated Ruboron [ethyl mercury phosphate]. (Rus) Khim. Sel'skom Khoz. 6(4):29-30. Apr.1968. 385 K524  
To control fungus diseases.
- 86740 KYBAL, J., and others. Phosphorus content during development of *Claviceps purpurea*. Phytopathology 58(5):647-650. Ref. May 1968. 464.8 P56  
J. Majer, I. Komersova, and W. D. Wani, joint authors.
- 86741 LAI, P., and BRUEHL, G. W. Antagonism among *Cephalosporium gramineum*, *Trichoderma* spp., and *Fusarium culmorum*. Phytopathology 58(5):562-566. Ref. May 1968. 464.8 P56
- 86742 LATHAM, A. J., and LINN, M. B. A comparison of soil column and Petri dish techniques for the evaluation of soil fungitoxics. Phytopathology 58(4):460-463. Ref. Apr.1968. 464.8 P56  
Soil-borne pathogenic fungi to plants.
- 86743 LINDBERG, G. D. A symptomless carrier of disease in *Helminthosporium victoriae*. J. Gen. Microbiol. 50(3):361-365. Mar.1968. 448.3 J823
- 86744 LOHWAG, K. Witches' broom [*Puccinia arhenatheri*] of barberry. (Ge) Pflanzenarzt. 21(5):64-65. May 1,1968. 464.9 P482
- 86745 MARSH, R. W. Moulds, mildews and men. Nature 218(5146):1017-1019. June 15,1968. 472 N21  
The development of plant pathology in Great Britain.
- 86746 MIRCETICH, S. M., ZENTMYER, G. A., and KENDRICK, J. B. Physiology of germination of chlamydospores of *Phytophthora cinnamomi*. Phytopathology 58(5):666-671. Ref. May 1968. 464.8 P56
- 86747 MORI, Y. Studies on downy mildew of hop plants. VII. Effect of autumn foliar spray of fungicides on the control of downy mildew of hops. Phytopathol. Soc. Jap. Ann. 34(2):92-97. Mar.1968. 464.9 P562  
Includes control with antibiotics.
- 86748 MULLER, R. A. The control of anthracnose in Kenya caused by a form of *Colletotrichum coffeanum* Noack. (Fr) Cafe, Cacao, The 12(1):39-52. Jan./Mar.1968. 68.8 C112  
English summary.



- 86749 NAITO, N., and ONOE, T. Nucleus of fusion body and infection structure produced by ure-dospores of three rust fungi. (Ja) Phytopathol. Soc. Jap. Ann. 34(2):103-108. Ref. Mar.1968. 464.9 P562  
English summary.  
Puccinia coronata, Uromyces alopecuri, and U. durus.
- 86750 NEWHALL, A. G. When does it pay to spray cocoa? Cocoa Growers' Bull. 10:22-26. Spring 1968. 68.38 C642  
With copper fungicides.
- 86751 NEW SOUTH WALES, DEPT. OF AGRICULTURE, BIOLOGY BR. Sclerotinia rot, Sclerotinia sclerotiorum. Agr. Gaz. New S. Wales 79 (3):3 of cover-4 of cover. Mar.1968. 23 N472
- 86752 POPKOVA, K., and BORISENOK, A. Regularities of appearance and distribution of Phytophthora races. (Rus) Kartofel' Ovoshchi 2:39-40. Feb.1968. 75.8 K147
- 86753 RAMSON, A. Brief plant protection science 2/1968. (Ge) Feldwirtschaft 9(2):86-87. Feb. 1968. 18 W763  
Fungicide types and use.
- 86754 SCHONBECK, H. The effects of application of plant protective mediums on singing birds, breeding in caves and partially in caves, in orchards. (Ge) Pflanzenschutzberichte 37 (10/11):161-178. Ref. June 1968. 464.9 P48  
English summary.  
Fungicides and insecticides.
- 86755 SMERLIS, E. The occurrence and pathogenicity of forms of Godronia cassandrae in Quebec. Can. J. Bot. 46(5):597-599. May 1968. 470 C16C
- 86756 SUMMERS, L. A. Recent advances in synthetic organic fungicides for the control of plant pathogens. Rev. Pure Appl. Chem. 18:1-16. 1968. 385 R328
- 86757 TABER, R. A., VANTERPOOL, T. C., and TABER, W. A. A comparative nutritional study of Alternaria raphani, A. brassicae, and A. brassicicola with special reference to A. raphani. Phytopathology 58(5):609-616. Ref. May 1968. 464.8 P56  
Plant pathogens.
- 86758 TATE, H. D., and SCHMELING, B. VON. Vitavax, a new systemic fungicide. (Ge) Pflanzenschutzberichte 37(12):193-196. May 1968. 464.9 P48  
English summary.
- 86759 WASTIE, R. L. Glomerella cingulata, Colletotrichum dematium and C. crassipes on Hevea in West Malaysia. FAO Plant Protect. 16(1):11-12. Feb.1968. 421 P962
- Fungus Diseases - Field Crops**
- 86760 BENADA, J. Will new systemic fungicides solve the protection of grains from lodging and rust. (Cz) Uroda 16(3):93-95. May 1968. 64.8 Z12
- 86761 BRONNIMANN, A. Investigations on Septoria nodorum Berk. of wheat. (Ge) Mitt. Schweiz. Landwirt. 16(4):65-76. Ref. Apr.1968. 17 M69
- 86762 BUSHNELL, W. R., and ROWELL, J. B. Premature death of adult rusted wheat plants in relation to carbon dioxide evolution by root systems. Phytopathology 58(5):651-658. Ref. May 1968. 464.8 P56  
Infected by Puccinia graminis tritici.
- 86763 CHIGRIN, V. V., and others. Activity of phenol-oxidizing enzymes and dynamic of reductive compounds of two wheat varieties, under normal conditions and after infection by stem rust. (Rus) Fiziol. Rast. 15(2):336-342. Ref. Mar./Apr.1968. 451 F58  
E. P. Aleshin, L. N. Prokof'eva, and D. T. Pochtar', joint authors.  
English summary.
- 86764 COLE, H., TAYLOR, B., and DUICH, J. Evidence of differing tolerances to fungicides among isolates of Sclerotinia homoeocarpa. Phytopathology 58(5):683-686. May 1968. 464.8 P56  
Isolated from Agrostis.
- 86765 COOK, R. J., and BRUEHL, G. W. Ecology and possible significance of perithecia of Calonectria nivalis in the Pacific Northwest. Phytopathology 58(5):702-703. May 1968. 464.8 P56  
Cause of snow mold of winter cereals.
- 86766 DARRAG, I. E. A., and SINCLAIR, J. B. Techniques to evaluate chemotherapeutic activity of certain fungicides against Rhizoctonia solani in cotton seedlings. Plant Dis. Rep. 52(5):399-403. May 1968. 1.9 P69P
- 86767 DIMITROV, S. Albino strain of loose smut [Ustilago nuda] of barley established in Bulgaria. (Bu) Rast. Zasht. 16(5):18-19. 1968. 423.92 So2
- 86768 ERWIN, D. C., MEE, H., and SIMS, J. J. The systemic effect of 1-(butylcarbamoyl)-2-benzimidazole carbamic acid, methyl ester, on Verticillium wilt of cotton. Phytopathology 58 (4):528-529. Apr.1968. 464.8 P56
- 86769 FARDY, A., and BASSILE, E. Tobacco mildew (Peronospora tabacina Adam) in Europe. (Fr) Rev. Pathol. Comp. 67(791/792):419-421. Oct./Dec.1967. 448.8 R326
- 86770 FERRANDO, R., and HENRY, N. The smut of corn. (Fr) Rev. Fr. Prod. Anim., Jan.1968:16-17. 47.8 C64  
Caused by Ustilaginales.
- 86771 FLEISCHMANN, G. Assessment of virulence patterns in crown rust populations. Can. J. Bot. 46(5):613-617. May 1968. 470 C16C  
Puccinia coronata pathogenic to oats.
- 86772 GROSSMANN, F. Mode of action of green manuring toward soil-borne plant diseases. (Ge) Qualitas Plant. Mater. Veg. 15(3):239-256. Aug.3,1968. 64.8 M41  
English summary.  
Ophiobolus graminis and Cercospora herpotrichoides on wheat and Fusarium oxysporum vasinfectum on cotton.
- 86773 HINE, R. B., and others. Root rot causes sugar beet loss. Progr. Agr. Ariz. 20(2):4-5. Mar./Apr.1968. 6 P9452  
D. L. Johnson, J. L. Sears, E. Ruppel, and O. C. Zirkle, joint authors.  
Caused by Pythium aphanidermatum.
- 86774 HORNE, C. W. Plant disease control makes dollar differences. Tex. Agr. Progr. 14(2):10-11. Spring 1968. 100 T31Te  
Fungus diseases of peanuts.
- 86775 HUTCHISON, J. A., and SCHAFER, J. F. A Pyrenophora-Cochliobolus (Helminthosporium) disease complex in barley. Plant Dis. Rep. 52 (5):395. May 1968. 1.9 P69P  
Indiana.
- 86776 JOHNSON, L. B., BRANNAMAN, B. L., and ZSCHEILE, F. P. Protein and enzyme changes in wheat leaves following infection with Puccinia recondita. Phytopathology 58(5):578-583. Ref. May 1968. 464.8 P56
- 86777 KAHN, T. N., and BOYD, W. J. R. Gramineae species harbouring Drechslera teres in Western Australia. Australian J. Sci. 30(9):373-374. Mar.1968. 475 Au72  
Hordeum leporinum, H. hystrix and Bromus gussonii.
- 86778 KATHIRVELU, R., and MAHADEVAN, A. Sugarcane wilt. Indian Sugar [Calcutta] 17(8):611-613. Ref. Nov.1967. 65.8 In26  
Caused by Cephalosporium sacchari and Fusarium moniliforme.
- 86779 EL-KHADEM, M. The role of aflatoxin in a seedling disease of peanuts caused by Aspergillus flavus. (Ge) Phytopathol. Z. 61(3):218-231. Ref. Mar.1968. 464.8 P562  
English summary.
- 86780 KHITROVA, A. P. Diagnosis of root rot of cotton. (Rus) Khlopkovodstvo 2:36-37. Feb. 1968. 72.8 K522  
Caused by Thielaviopsis basicola.
- 86781 KHOLODNYYUK, M. S., BOCHKAREVA, Z. A., and OSTROUKHOV, M. A. Treatment of winter wheat and barley seeds with pentachloronitrobenzene and thiram-pentachloro nitro benzene to control external smut. (Rus) Khim. Sel'skom Khoz. 6(4):28-29. Apr.1968. 385 K524  
Caused by Tilletia levis on wheat and by Ustilago hordei on barley.

- 86782 KHRISTOVA, E. Control of *Cercospora* [Beti-cola] of sugar beets based on forecasts. (Bu) Rast. Zash. 16(4):18-22. 1968. 423.92 So2
- 86783 KLUMPAR, J. Preventive chemical protection of germinating sugar beets. (Cz) Uroda 16(4): 140-142. Apr. 1968. 64.8 Z12  
Includes treatment of seeds with fungicide Hermal L.
- 86784 KOMMEDAHL, T., NYVALL, R. F., and PALMER, L. T. How molds in soil cause root rot. Minn. Sci. 24(1):20-21. Fall 1967. 100 M668  
Caused in corn by *Fusarium moniliforme*.
- 86785 KUO, C. C., and others. Occurrence and control of *Fusarium oxysporum* f. *vasinfectum* (Atk.) Snyder et Hansen in cotton in Kiangsu Province. 40 p. (JPRS 29,165; TT 65-30530) Transl. 14861  
S. L. Chu, E. C. Shen, and C. L. Chang, joint authors.  
Translation from Chung Kuo Nung Yeh K'o Hsueh 4:22-29. 1964.  
Issued by CFSTI.
- 86786 LADYZHENS KAYA, N. V., and GULIDOVA, L. A. Laboratory method of investigating seed disinfectants. (Rus) Khim. Sel'skom Khoz. 6 (3):32-33. Ref. Mar. 1968. 385 K524  
Ceresan and formaldehyde tested against *Ustilago hordei* on barley and *U. avenae* on oats.
- 86787 LIM, S. M., PAXTON, J. D., and HOOKER, A. L. Phytoalexin production in corn resistant to *Helminthosporium turcicum*. Phytopathology 58(5):720-721. May 1968. 464.8 P56
- 86788 LOEGERING, W. Q. A second gene for resistance to *Puccinia graminis* f. sp. *tritici* in the Red Egyptian 2D wheat substitution line. Phytopathology 58(5):584-586. May 1968. 464.8 P56
- 86789 NAIR, N. G. Saprophytic activity of *Drechslera* (= *Helminthosporium*) in soil. Phytopathol. Z. 61(4):331-341. Ref. Apr. 1968. 464.8 P562  
Pathogenic to grain.
- 86790 NAPHADE, S. R. A new leaf blight disease of *Crotalaria juncea* from India. Plant Dis. Rep. 52(5):377-378. May 1968. 1.9 P69P  
Caused by *Bipolaris tetramera*.
- 86791 NOVAKOVA, J. Current problems of the protection of barley from smut. (Cz) Uroda 16(6): 51-53. Feb. 1968. 64.8 Z12  
Treatment of seeds with Ustilgon.
- 86792 NOVER, I., and LEHMANN, C. O. Disease resistance of barley and wheat varieties from Gatersleben assortment. 8. Field trials with the resistance of wheat varieties to *Puccinia triticina* Erikss. (P. *recondita* Rob. ex Desm.). (Ge) Kulturpflanze 15:181-198. Ref. 1967. 450 K95  
English summary.
- 86793 NUR, E. E., and IBRAHIM, G. A note on the relative susceptibility of some groundnut (*Arachis hypogaea*) varieties to *Cercospora personata*. Plant Dis. Rep. 52(5):405-408. Ref. May 1968. 1.9 P69P
- 86794 PANDOTRA, V. R., and SASTRY, K. S. M. Wilt: a new disease of hemp in India. Indian J. Agr. Sci. 37(6):520. Dec. 1967. 22 Ag83I  
Caused by *Rhizoctonia*.
- 86795 PAULECH, C. Studies of the development of powdery mildew (*Erysiphe graminis* f. sp. *hordei* Marchal) on barley. II. Primary apres-soria formation. Biologia [Bratislava] 23(4): 281-288. Ref. 1968. 442.8 B5265
- 86796 PEACE, E., and SHAW, A. Ergot. Mont. State Univ. Ext. Circ. 294, 8 p. Nov. 1967. 275.29 M76C1  
Grain.
- 86797 PRONCHENKO, T. S., and others. Effectiveness of fentiuram and fentiuram-molybdates as disinfectants. (Rus) Khim. Sel'skom Khoz. 6 (2):20-22. Ref. 1968. 385 K524  
E. I. Andreeva, A. B. Skalozubova, and V. I. Obukhova, joint authors.  
Against fungus diseases of legumes.
- 86798 RODER, W. Relations between the weather, the occurrence of mildew (*Erysiphe graminis* DC. f. sp. *hordei* Marchal) and the yields of spring barley as resulting from long-term trials with barley varieties at Bad Lauchstadt. (Ge) Arch. Pflanzenschutz 3(2):121-130. Ref. 1967. 464.8 Ar2  
English summary.
- 86799 ROSS, J. P. Additional physiological races of *Cercospora soja* on soybeans in North Carolina. Phytopathology 58(5):708-709. May 1968. 464.8 P56
- 86800 RUBIN, B. A., and LUSHCHINSKAYA, E. N. Effect of corn infection with *Ustilago zeae* (Beckm.) on the properties of chlorophyll-protein complex. (Rus) Akad. Nauk SSSR. Dokl. 179:483-485. Ref. 1968. 511 P444A
- 86801 RUI, D. Epidemiological investigations on *Peronospora tabacina* Adam. 2. (It) Verona. Accad. Agr. Sci. Lett. Atti. Mem. (ser. 6) 18:81-87. 1966/67, pub. 1968. 16 V59
- 86802 RYDL, R. The *Peronospora brassicae* on for-age cabbage. (Cz) Uroda 16(5):186-187. May 1968. 64.8 Z12  
Includes control.
- 86803 SAXENA, S. K. Effect of different semi-solid media on the growth of monosporial lines of *Ustilago scitaminea* Syd. Indian Sugar [Calcutta] 17(8):623-624. Nov. 1967. 65.8 In26  
Isolated from sugarcane.
- 86804 SCHLOSSER, U. G. Dissemination of *Sclerotinia sclerotiorum* (Lib.) de By. with rape seeds. (Ge) Nachrichtenbl. Deut. Pflanzenschutzdienstes 20(1):8-11. Ref. Jan. 1968. 442.9 B832  
English summary.  
Germany.
- 86805 SCHOLZ, F., and NOVER, I. Genetic studies of barley lines completely resistant to mildew. (Ge) Kulturpflanze 15:243-254. Ref. 1967. 450 K95  
English summary.  
Caused by *Erysiphe graminis hordei*.
- 86806 SCHUHMANN, G. Contribution to the systemic action of derivatives of the fungicide benzimidazole in grain seed treatment. (Ge) Nachrichtenbl. Deut. Pflanzenschutzdienstes 20(1):1-5. Ref. Jan. 1968. 442.9 B832  
English summary.  
Thiabendazole and Furidazole.
- 86807 SHABANOV, D., POPKHRISTOV, V., and TOMOV, N. Hybrid varieties of Virginia tobacco resistant to downy mildew. (Bu) Bulg. Tyutyun 7:17-21. 1967. 69.8 B872
- 86808 SHIPTON, W. A. The effect of *Septoria* diseases on wheat. Australian J. Exp. Agr. Anim. Husb. 8(30):89-93. Ref. Feb. 1968. 23 Au792
- 86809 SHIPTON, W. A., and BROWN, J. F. The frequency of penetration of epidermal strips and intact wheat leaves by *Puccinia graminis* f. sp. *tritici*. Phytopathology 58(5):704-705. May 1968. 464.8 P56
- 86810 SIMONS, M. D. Crown rust [*Puccinia coronata*] resistance of the oat strain P. I. 174544. Crop Sci. 7(5):475-477. Sept./Oct. 1967. 64.8 C883
- 86811 SINGH, P. Influence of host-exudates [sugarcane] on conidial germination in *Colletotrichum falcatum*. Acta Phytopathol. 3(1):13-22. Ref. 1968. SB731.A3
- 86812 SINNER, G. T., and SCHRAMM, L. C. Preliminary phytochemical investigation of wild rice ergot. J. Pharm. Sci. 57(5):889-890. May 1968. 396.8 J825  
Claviceps on *Zizania aquatica*.
- 86813 SKAZKINA, T. P., and others. Preventive treatment of wheat seeds with mercury-type preparations. (Rus) Khim. Sel'skom Khoz. 6 (1):20-24. Ref. Jan. 1968. 385 K524  
E. I. Andreeva, N. V. Ladyzhenskaya, and L. A. Gulidova, joint authors.  
To protect against fungus diseases; several fungicides tested.
- 86814 SLEPYAN, E. I., and KARATYGIN, I. V. The productive-necrotic erythroderm [*Erythrodermia productivo-necrotica*] as a primary symptom of infection with *Ustilago maydis* (DC) on the leaves of *Zea mays* L. (Rus) Akad. Nauk SSSR. Dokl. 178(5):1212-1215. 1968. 511 P444A



- 86815 SLOVENCIKOVA, V. On the resistance of wheat varieties to the brown rust. (Cz) Uroda 16(3):91-93. Mar.1968. 64.8 Z12 Includes breeding.
- 86816 SUMI, H., and others. The controlling effect of pentachlorobenzyl alcohol on rice blast. (Ja) Phytopathol. Soc. Jap. Ann. 34(2):114-121. Mar.1968. 464.9 P562  
Y. Takahi, Y. Kondo, and K. Nakagami, joint authors.  
English summary.
- 86817 SUMI, H., TAKAHI, Y., and KONDO, Y. Inhibitory effect of pentachlorobenzyl alcohol (PCBA) on sporulation of *Piricularia oryzae* Cava. (Ja) Phytopathol. Soc. Jap. Ann. 34(2):122-128. Ref. Mar.1968. 464.9 P562  
English summary.  
Infection of rice seedlings.
- 86818 THOMPSON, S. S. Disease control in tobacco plant beds. Ga. Univ. Ext. Leaflet 19, rev., 8 p.-folder. Dec.1967. 275.29 G29L  
Damping-off and downy mildew.
- 86819 VIZAROVA, G. Study of the level of the indole type of growth regulators in barley during the pathogenesis of the powdery mildew (*Erysiphe graminis* f. sp. *hordei* Marchal). (Cz) Biologia [Bratislava] 23(1):89-94. Ref. 1968. 442.8 B5235
- 86820 WALTERS, H. J., and CAVINESS, C. E. Response of *Phytophthora* [megasperma] resistant and susceptible soybean varieties to 2,4-DB. Plant Dis. Rep. 52(5):255-357. May 1968. 1.9 P69P
- 86821 WIENK, J. F. *Phytophthora nicotianae*: a cause of zebra disease in Agave hybrid No. 11648 and other Agaves. East Afr. Agr. Forest. J. 33(3):261-268, map. Jan.1968. 24 Ea74
- 86822 WILKINSON, D. R., and HOOKER, A. L. Genetics of reaction to *Puccinia sorghi* in ten corn inbred lines from Africa and Europe. Phytopathology 58(4):605-608. May 1968. 464.8 P56
- 86823 YUNUSOV, M. The quality of seeds, as related to cotton wilt, caused by *Verticillium*. (Rus) Khlopkovodstvo 4:32-33. Apr.1968. 72.8 K522
- 86824 ZACHA, V. The present state and perspectives for the development of the protection of grains from diseases. (Cz) Uroda 16(6):49-51. Feb. 1968. 64.8 Z12  
Chiefly fungus disease.
- Fungus Diseases - Horticultural Crops**
- 86825 ACKERMAN, P. Spots on almond trees. (Cz) Zahradnicke Listy 61(3):79-80. 1968. 80 Z12  
Fungus disease caused by *Megacladosporium carpophilum* and its control.
- 86826 AICHINGER, F. More success in grafting grapes by controlling gray mold [*Botrytis cinerea*]. (Ge) Winzer (ser.1)24:8-9. Jan.1968. 95.8 W73
- 86827 BASU, P. K., and WALLEN, V. R. Factors affecting virulence and pigment production of *Xanthomonas phaseoli* var. *fuscans*. Can. J. Bot. 45(12):2367-2374. Ref. Dec.1967. 470 C16C  
Isolated from beans.
- 86828 BECKMAN, C. H. An evaluation of possible resistance mechanisms in broccoli, cotton, and tomato to vascular infection by *Fusarium oxysporum*. Phytopathology 58(4):429-433. Ref. Apr.1968. 464.8 P56
- 86829 BERTUS, A. L. Downey mildew of stocks. Agr. Gaz. New S. Wales 79(3):178-179. Mar. 1968. 23 N472  
*Peronospora parasitica* on *Matthiola incana*.
- 86830 BLACK, L. L., WILLIAMS, P. H., and POUND, G. S. Anaerobic metabolism of *Albugo candida*-infected radish cotyledons. Phytopathology 58(5):672-675. Ref. May 1968. 464.8 P56
- 86831 BOONEN, P., and HULSMAN, G. Harmful diseases in cucumber culture. (Du) Groenten 23(38):1716. Apr.3.1968. 80 G89  
Fungus and bacterial diseases.
- 86832 BORDUKOVA, M. Different types of scab on potatoes. (Rus) Kartofel' Ovoshchi 2:33-36. Feb.1968. 75.8 K147  
Caused by fungi; includes control.
- 86833 BROWN, G. E., and WILSON, W. C. Stem-end rot fungi in oranges: entry and possible use of preharvest fungicides for control. Citrus Indus. 49(5):10-11, 22. Ref. May 1968. 80 C49  
*Diplodia* and *Phomopsis*.
- 86834 BUSH, D. A., and CODNER, R. C. The nature of macerating factor of *Penicillium digitatum* Saccardo. Phytochem. 7(5):863-869. Ref. May 1968. 450 P5622  
Comparison of enzymes produced by *Penicillium digitatum* invading oranges with *P. notatum*.
- 86835 CACA, Z. *Cylindrocarpum radiclecola* on potatoes. (Cz) Zahradnicke Listy 61(3):93. 1968. 80 Z12  
Includes control.
- 86836 CARTWRIGHT, J., and CONWAY, T. J. Scab, mildew and canker in orchards. Agr. Northern Ireland 42(11):380-382. Mar.1968. 256.13 Ag82M  
Apples.
- 86837 CRISAN, A., and SINGEORZAN, E. Fungistatic and fungicidal properties of some chemicals on certain fungi, causing diseases on vegetables. (Rum) Cluj. Univ. Babes-Bolyai. Stud. Ser. Biol. 13(1):11-15. 1968. 442.9 C62  
French summary.
- 86838 CROSSE, J. E., GARRETT, C. M. E., and BURCHILL, R. T. Changes in the microbial population of apple leaves associated with the inhibition of the perfect stage of *Venturia inaequalis* after urea treatment. Ann. Appl. Biol. 61(2):203-216. Apr.1968. 442.8 An72
- 86839 DANOV, K., and SUEV, N. Our experience in control of gray mold of grapes. (Bu) Rast. Zashch. 16(4):8-9. 1968. 423.92 So2
- 86840 DRIVER, C. M. Bulk storage aggravates problem of skin spot in potatoes. New Zeal. J. Agr. 115(6):68-69. Dec.1967. 23 N48J  
*Oospora pustulans*.
- 86841 BROZDOVSKII, E. M., and KONSTANTINOVA, A. P. Necrosis of raspberry stems. (Rus) Zashch. Rast. 5:32-33. 1968. 421 Z1  
Caused by fungi *Didymella applanata*, *Leptosphaeria coniothyrium* and mosquito *Thomastiana theobaldi*.
- 86842 EIFERT, MRS. J., and EIFERT, J. Botrytis control in grafting stock production. (Hu) Kertesz. Szolesz. 17(4):103. Feb.1968. 80 K474  
Chinosol control on grapes.
- 86843 EVTYUSHKIN, N. Downy mildew of onions. (Rus) Kartofel' Ovoshchi 3:39. Mar.1968. 75.8 K137  
Caused by *Peronospora destructor*; includes control.
- 86844 FRIEND, R. J., and BOONE, D. M. Diaporthe vaccinii associated with dieback of cranberry in Wisconsin. Plant Dis. Rep. 52(5):341-344. May 1968. 1.9 P69P
- 86845 GANIN, A. P. Effect of fertilizers containing zinc, on resistance of grapes to mildew. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 132:291-296. 1967. 20 M857
- 86846 GAY, J. D., and MCCARTER, S. M. Stem rot of snap bean in southern Georgia caused by *Pythium myriotylum*. Plant Dis. Rep. 52(5):416. May 1968. 1.9 P69P
- 86847 GILL, H. S., and POWELL, D. Polyacrylamide gel (disc) electrophoresis of physiologic races A-1 to A-8 of *Phytophthora fragariae*. Phytopathology 58(5):722-723. Ref. May 1968. 464.8 P56  
Cause of root rot of strawberries.
- 86848 GOVI, G., and MARCHETTI, L. Observations on canker of pomaceous fruit trees. (It) Inform. Fitopatol. 18(5):63-64. Mar.1968. 464.8 In3  
*Nectria galligena* and its control, chiefly on apples.
- 86849 GREENE, G. L. Effect of 2-deoxy-D-glucose on the respiration of tropical anthracnose fungi. Physiol. Plant. 20(3):580-586. Ref. 1967. 450 P564  
*Gloeosporium musarum* and *Colletotrichum gloeosporioides*, isolated from banana tissue.

- 86850 GROVER, R. K., and PRASHER, R. D. Rhizoctonia leaf rot of Colocasia in India. FAO Plant Protect. Bull. 16(1):6-7. Feb. 1968. 421 P962  
Rhizoctonia bataticola isolated from Colocasia esculenta.
- 86851 HANSEN, T. Apple mildew [Podosphaera leucotricha]. (Da) Erhvervsfrugtavlren 35(2): 59-65. Feb. 1, 1968. 80 Er3  
Includes control.
- 86852 HEJNDORF, F. Diseases and pests of lawns. (Da) Haven 68(5):171-174. May 1968. 80 H29  
Chiefly fungus diseases.
- 86853 HENNER, J. Can some conclusions be drawn from the red fire epidemic in 1967 as to the occurrence of diseases this year? (Ge) Pflanzenschutz. 21(5):69. May 1, 1968. 464.9 P482  
Pseudopeziza tracheiphila in grapes.
- 86854 HENNIGER, H. Prevention of Phytophthora tuber wet rot. (Ge) Feldwirtschaft 9(4):165-168. Apr. 1968. 18 W763  
In potatoes.
- 86855 IBRAGIMOV, G., and MUSTAFAEV, B. Club-root of cabbage in Azerbaijan. (Rus) Kartoffel' Ovoshchi 3:41. Mar. 1968. 75.8 K147  
Vapam used for control.
- 86856 KADLEC, T. The anthracnose of currants should not be underestimated. (Cz) Zahradnické Listy 61(4):109. 1968. 80 Z12  
Caused by Drepanopeziza ribis.
- 86857 KAHAN, R. S., and BARKAI-GOLAN, R. Combined action of sodium orthophenylphenate and gamma radiation on the in vitro development of fungi pathogenic to citrus fruits. Phytopathology 58(5):700-701. May 1968. 464.8 P56
- 86858 KAJIWARA, T., and IWATA, Y. On the longevity of conidia of cucumber downy mildew fungus, with special reference to the influence of sunlight. (Ja) Phytopathol. Soc. Jap. Ann. 34(2): 85-91. Ref. Mar. 1968. 464.9 P562  
English summary.  
Pseudoperonospora cubensis.
- 86859 KEBADZE, N. A. To the problem of toxicity of the fungus Graphium sp. causing drying of peach branches. (Geo) Akad. Nauk Gruz. SSR. Soobshch. 49(3):671-676. Mar. 1968. 511 Ak146  
Russian summary.
- 86860 KEREKES, GY. Spraying experiments in apple orchards of medium trunk height, by the use of concentrated sprays. (Hu) Budapest. Novenyvedelmi Kutató Intézet. Evkon. 10:177-186. Ref. 1965/1967. 423.92 B85  
English summary.  
Fungicides and insecticides application.
- 86861 KHRISTOV, A. Problems involved in the control of brown spot of plums. (Bu) Rast. Zasht. 16(5):3-6. 1968. 423.92 So2
- 86862 KHRISTOV, G. Results of commercial aerial spraying of grapes for control of mildew. (Bu) Rast. Zasht. 16(4):10-12. 1968. 423.92 So2
- 86863 KOLESNIK, Z. I. Effectiveness of some preparations used for control of white leaf spots on strawberries. (Rus) Khim. Sel'skom Khoz. 6 (1):31-33. Jan. 1968. 385 K524  
Caused by Ramularia tulasnei.
- 86864 KUNDERT, J., and BOLAY, A. Fire disease of grapes and its control in the year 1967. (Ge) Schweiz. Z. Obst- Weinbau 104(7):145-149; (8): 191-195. (Concl.) Mar. 16, 1968. 80 Sch9  
Pseudopeziza tracheiphila in Switzerland.
- 86865 LO, S. L. Feng-Li Kuo-Shih Chih Ping-Hai Chi Sheng-Li Chang-Ai [Fungus diseases of pineapples and their physiological hindrance]. (Ch) Chien Yen 1:15-20. Ref. Jan. 1968. TX501.C5
- 86866 MAIER, C. R. Influence of nitrogen nutrition on Fusarium root rot of Pinto bean and on its suppression by barley straw. Phytopathology 58(5):620-625. Ref. May 1968. 464.8 P56  
Fusarium solani phaseoli.
- 86867 MALEC, K. The degree of resistance in wart disease resistant varieties of potatoes. (Pol) Ochrona Roslin 12(1):1-5. Jan. 1968. 464.8 Oc32  
Causal agent: Synchytrium endobioticum.
- 86868 MALEC, K. Potato varieties resistant to new biotypes of Synchytrium endobioticum (Schilb.) Perc. (Pol) Ochrona Roslin 12(2):6-7. Feb. 1968. 464.8 Oc32  
Cause of potato wart.
- 86869 MCONIE, K. C. Germination and infection of citrus by ascospores of Guignardia citricarpa in relation to control of black spot. Phytopathology 57(7):743-746. July 1967. 464.8 P56
- 86870 MEAGHER, R. B., DEVAY, J. E., and KOSUGE, T. Oxidative enzymes of Ceratocystis fimbriata isolates differing in host specificity. Physiol. Plant. 20(3):726-732. Ref. 1967. 450 P564  
Peroxidase, catalase, and polyphenol oxidase activity in sweetpotatoes; fungus obtained from black rot lesions.
- 86871 MUSIL, J. Timely control of fungus diseases of potatoes. (Cz) Uroda 16(5):177-178. May 1968. 64.8 Z12
- 86872 NEW SOUTH WALES. DEPT. OF AGRICULTURE. BIOLOGY BR. Rust of stone fruits. Agr. Gaz. New S. Wales 78(12):3-4 of cover. Dec. 1967. 23 N472  
Caused by Tranzschelia discolor; control.
- 86873 NISHIHARA, N. Leafspot of Cucurbita pepo caused by Alternaria cucumerina. (Ja) Phytopathol. Soc. Jap. Ann. 34(2):152-155. Ref. Mar. 1968. 464.9 P562
- 86874 PIDOPLICHKO, V. N. Root rot of cucumbers. (Rus) Zashch. Rast. 5:16. 1968. 421 Z1  
Caused by fungi; includes control.
- 86875 POLSPOEL, A. Club root control. (Fl) Tuinbouwberichten 32(3):103-104. Mar. 1968. 80 T817  
Of cauliflower and brussels sprouts.
- 86876 RAABEL, R. D., LERT, P. J., and MCCAIN, A. H. Armillaria [mellea] stem rot of carnation [Dianthus caryophyllus]. Plant Dis. Rep. 52(5):415. May 1968. 1.9 P69P
- 86877 RATIL, S. S., and DIMOND, A. E. Repression of polygalacturonase synthesis in Fusarium oxysporum f. sp. lycopersici by sugars and its effect on symptom reduction in infected tomato plants. Phytopathology 58(5):676-682. Ref. May 1968. 464.8 P56
- 86878 RUGGERI, D. Alternaria disease of carrots. (It) Inform. Fitopatol. 18(5):65-67. Mar. 1968. 464.8 In3  
Caused by A. dauci and A. porri f. dauci.
- 86879 SAHAI, D. A new disease of potato tubers caused by Gilmaniella humicola Barron. Cur. Sci. 36(23):645-646. Dec. 5, 1967. 475 Sci23
- 86880 SATO, N., and others. Isolation of rishitin from tubers of interspecific potato varieties containing different late-blight resistance genes. Phytopathol. Soc. Jap. Ann. 34(2):140-142. Mar. 1968. 464.9 P562  
K. Tomiyama, N. Katsui, and T. Masamune, joint authors.
- 86881 SCHNEIDER, R., and PLATE, H. P. Fusarium moniliforme var. subglutinans as the causal organism of bulb rot in Nerine bowdenii. (Ge) Nachrichtenbl. Deut. Pflanzenschutzdienstes 20(1):5-8. Jan. 1968. 442.9 B832  
English summary.
- 86882 SHAPA, V. A. Effectiveness of aerial spraying in control of grape mildew under conditions of Moldavia. (Bu) Rast. Zasht. 16(1):33-36. 1968. 423.92 So2
- 86883 SIRADHANA, B. S., ELLETT, C. W., and SCHMITTHENNER, A. F. Pathogenic and cultural variation in Phytophthora nicotianae var. parasitica from greenhouse plants. Phytopathology 58(5):718-719. May 1968. 464.8 P56
- 86884 STANOVA, M. Study of the biology of fungus Leucocytospora cincta (Sacc.) Hohn. in relation to the necrosis of common laurelcherry (Prunus laurocerasus). (Ge) Biologia [Brislava] 23(1):82-88. 1968. 442.8 B5285
- 86885 STEPANOVA, T. V., and LANETSKII, V. P. Determination of resistance to Phytophthora. (Rus) Zashch. Rast. 5:43. 1968. 421 Z1  
Potatoes.
- 86886 THIES, H. On club root of cabbage and its secondary action. (Ge) Lebendige Erde 2:69-71. Mar./Apr. 1968. 18 I49



- 86887 UTYUGOVA, T. I. Dates for control of scab. (Rus) Zashch. Rast. 5:55. 1968. 421 Z1  
Apples and pears: Bordeaux mixture used.
- 86888 VIDHYASEKARAN, P., and MUTHUSWAMY, G. Fungicidal control of late blight of potato in the Nilgiris. Indian J. Agr. Sci. 37(6):483-487. Dec.1967. 22 Ag831
- 86889 WALLEN, V. R., WONG, S. I., and JEUN, J. Isolation, incidence, and virulence of *Ascochyta* spp. of peas from the soil. Can. J. Bot. 45(12): 2243-2247. Ref. Dec.1967. 470 C16C  
*Ascochyta pinodella* and *A. pinodes*.
- 86890 YANG, S. M., and HAGEDORN, D. J. Cultural and pathogenicity studies of induced variants of bean and pea root rot *Fusarium [solani]* species. Phytopathology 58(5):639-643. Ref. May 1968. 464.8 P56
- Fungus Diseases - Forest Trees
- 86891 BRENER, W. D., and BECKMAN, C. H. A mechanism of enhanced resistance to *Ceratocystis ulmi* in American elms treated with sodium trichlorophenylacetate. Phytopathology 58(5):555-561. Ref. May 1968. 464.8 P56
- 86892 CASTELLANI, E. Comments on the behavior of *Populus euramericana* clone I-214 in the presence of *Marssonina brunnea*. (Fr) Schweiz. Z. Forstwesen 119(3):220. Mar.1968. 99.8 J82
- 86893 CHWALINSKI, K. Observations on the biology and control of needle-cast *Lophodermium pinastri* Schrad. Chevall. performed in the year 1963. (Pol) Poznanski Tow. Przyjaciol Nauk. Wyd. Nauk Roln. Lesn. Komis. Nauk Roln. Komis. Nauk Lesn. Prace 21(2):377-397. Ref. 1967. 20.5 P872  
English summary.
- 86894 DOMANSKI, S. Preliminary study on the butt rot in a spruce stand. (Pol) Sylwan 112(2):13-27. Ref. 1968. 99.8 Sy52  
English summary.  
Various fungi isolated from *Picea abies*.
- 86895 DRIVER, C. H., and WOOD, R. E. Occurrence of *Fomes annosus* in intensively managed young-growth western hemlock [*Tsuga heterophylla*] stands. Plant Dis. Rep. 52(5):370-372, map. May 1968. 1.9 P69P
- 86896 ERIKSEN, M. The heart rot fungi [*Fomes annosus*]. (Da) Haven 68(2):40-41. Feb.1968. 80 H29  
On conifers.
- 86897 GADGIL, P. D. Infection of *Pinus radiata* needles by *Dolhistrroma pini*. New Zeal. J. Bot. 5(4):498-503. Dec.1967. 450 N48
- 86898 HANSO, M. Phenological observations of sporulation and dissemination of microfungi in pine forests. (Es) Est. Sel'skokhoz. Akad. Sb. Nauch. Tr. 50:194-209. 1968. 106 Es83  
English summary.  
*Lophodermium pinastri*, causal agent of leaf cast disease on *Pinus sylvestris*.
- 86899 HART, J. H. A new control for Dutch elm disease? Farm Chem. 131(6):98. June 1968. 57.8 Am3  
Thiabendazole as systemic fungicide.
- 86900 HOCKING, D. Damping-off in pine nurseries; losses attributable to pricking-out, and their avoidance. East Afr. Agr. Forest. J. 33(3): 257-260. Ref. Jan.1968. 24 Ea74
- 86901 IVORY, M. H. Reaction of pines in Kenya to attack by *Dolhistrroma pini* var. *keniensis*. East Afr. Agr. Forest. J. 33(3):236-244. Jan. 1968. 24 Ea74
- 86902 JAGIELSKI, A. Control of oak mildew. (Pol) Las Polski 42(6):7-8. Mar.16/31,1968. 99.8 L33  
*Microsphaera alphitoides*.
- 86903 LAINE, L. Occurrence and damage done by *Rhizina undulata* Fr. especially in Finland. (Fi) Metsataloudellinen Aukakaustehti 85(4):133-135, 137, map. Apr.1968. 99.9 F49  
English summary.  
Coniferae.
- 86904 LORENZ, I. Study of biology and pathogenicity of *Cenangium ferruginosum* Fr. (Ge) Arch. Pflanzenschutz. 3(2):143-153. Ref. 1967. 464.8 Ar2  
English summary.  
*Pinus*.
- 86905 MILLER, D. R. *Bifusella linearis* found on both limber and whiteoak pine [*Pinus flexilis* and *P. albicaulis*] in California. Plant Dis. Rep. 52(4):305. Apr.1968. 1.9 P69P
- 86906 MILLER, D. R., and VEIRS, E. I. *Verticicladiella wagneri* found on Douglas-fir [*Pseudotsuga menziesii*] in El Dorado County, California. Plant Dis. Rep. 52(5):393. May 1968. 1.9 P69P
- 86907 MILLER, D. R. White pine blister rust found on foxtail pine [*Pinus balfouriana*] in northwestern California. Plant Dis. Rep. 52(5):391-392. May 1968. 1.9 P69P  
Caused by *Cronartium ribicola*.
- 86908 MOSIN, V. I. Treatment of seeds of the common pine tree with fungicides. 9 p. Ref. Transl. 16706  
Translation from Lesnoi Zhurnal 5:45-48. 1964.
- 86909 PETERSON, G. W., and WYSONG, D. S. *Cercospora [sequoiae]* blight of junipers [*Juniperus*]; damage and control. Plant Dis. Rep. 52(5):361-362. May 1968. 1.9 P69P
- 86910 PETERSON, G. W., and WYSONG, D. S. *Diplodia [pinea]* tip blight to pines [*Pinus*] in the central Great Plains; damage and control. Plant Dis. Rep. 52(5):359-360. May 1968. 1.9 P69P
- 86911 PETERSON, G. W., STEWART, J. L., and WILLIS, W. G. Oak wilt distribution in Nebraska and Kansas. Plant Dis. Rep. 52(5):357-358, map. May 1968. 1.9 P69P  
Caused by *Ceratocystis fagacearum*.
- 86912 PETERSON, R. S. The *Peridermium* species on pine stems. Torrey Bot. Club. Bull. 94(6): 511-542. Ref. Nov./Dec.1967. 451 T63B
- 86913 RANDALL, H., NAGEL, C. M., and WOOD, L. S. Dutch elm disease found in South Dakota. Plant Dis. Rep. 52(5):349. May 1968. 1.9 P69P  
Caused by *Ceratocystis ulmi*.
- 86914 ROLL-HANSEN, F., and ROLL-HANSEN, H. A species of *Rhizoctonia* DC. ex Fr. damaging spruce plants in nurseries in Southern Norway. Norway. Skogforsoksv. Medd. 82,440 p. Ref. 1968. 99.8 N833  
*Picea abies*.
- 86915 RONCADORI, R. W. The pathogenicity of secondary and tertiary basidiospores of *Cronartium fusiforme*. Phytopathology 58(5):712-713. May 1968. 464.8 P56  
Pathogenic to trees.
- 86916 SMERLIS, E. Pathogenicity of *Phacidium taxicolum* on Canadian yew [*Taxus canadensis*]. Plant Dis. Rep. 52(5):403-404. May 1968. 1.9 P69P
- 86917 TARIS, B. Some remarks concerning the anatomical modifications caused on the leaves of *Populus* by *Taphrina aurea* (Pers.) Fr. (Fr) Acad. Sci. C. R., Ser. D, 17(266):1726-1729. Apr.22,1968. 505 P21
- 86918 THYGESEN, T. Gall midge [*Thecodiplosis brachyntera*] on pine. (Da) Haven 68(2):45. Feb.1968. 80 H29  
Includes its relation to fungus diseases.
- 86919 TWAROWSKI, Z. Investigations on the annual development dynamics of mycorrhizae in 40-year-old spruce stands. 11 p. (TT 66-57030) Transl. 16741  
In relation to *Armillaria mellea* control.  
Translation from Warsaw. Instytut Badawczy Lesnictwa. Prace 260:72-102. 1963.  
Issued by CFSTI.
- 86920 WAGN, O. The root rot fungi [*Fomes annosus*] threaten Denmark's forests and shelterwoods. (Da) Dansk Landbrug 87(2):44-47. Feb.1968. 280.28 V91  
Coniferae chiefly.

- 86921 WEISGERBER, H. The importance of shoot blight disease of poplar of the section *Leuce* Duby. I. (Ge) *Holzzucht* 22(1/2):1-6. Feb. 1968. 99.8 H743  
English summary.  
Caused by *Pollacia radiosia*.

#### Nematodes

- 86922 BRZESKI, M. W. How to spot nematode injuries in plants. (Pol) *Ochrona Roslin* 12(2): 9,24. Feb. 1968. 464.8 Oc32
- 86923 COOKE, R. C., and PRAMER, D. Interactions of *Aphelenchus avenae* and some nematode-trapping fungi in dual culture. *Phytopathology* 58(5):659-661. May 1968. 464.8 P56
- 86924 PARAMONOV, A. A., BARANOVSKAYA, I. A., and KRYLOV, P. S. The methods of studying fauna of phytonematodes. (Rus) *Zool. Zh.* 47(4):501-509. Ref. Apr. 1968. 410 R92  
English summary.
- 86925 SALY, A. A contribution to the evaluation of the biological effect of nematocides on the cyst-forming plant nematodes under laboratory conditions. (Cz) *Agrochemia* 8(2):50-53. 1968. 385 Ag88  
English summary.
- 86926 SALY, A. Rastlinne hadatka a moznosti chemické ochrany rastlin proti nim; studijná zpráva [Plant nematodes and possibilities of their chemical control; reviews]. Praha, Ustredi Zemedelskeho a Potravinarskeho Vyzkumu, 1968. 88 p. SB599.S8  
English summary.  
Bibliography, p.64-88.
- 86927 YASSIN, A. M. A study of some factors influencing extraction of the needle nematode, *Longidorus elongatus*, from soil. *Plant Dis. Rep.* 51(12):1028-1030. Ref. Dec. 1967. 1.9 P69P  
Scotland.

#### Nematodes - Field Crops

- 86928 BARANOVSKAYA, I. A. *Aphelenchoides graminis* a new species (Nemadota, Aphelenchoididae). (Rus) *Zool. Zh.* 47(4):631-634. Apr. 1968. 410 R92  
English summary.  
Found on wheat and rye in the Moscow area.
- 86929 COLBRAN, R. C. Nematodes, important pests of peanuts. *Queensland Agr. J.* 94(3):174-177. Mar. 1968. 23 Q33
- 86930 MANSER, P. D. *Meloidogyne graminicola*, a cause of root knot of rice. *FAO Plant Protect. Bull.* 16(1):11. Feb. 1968. 421 P962
- 86931 MILNE, D. L., and HONEY, A. DE S. Further trials with nematocides in tobacco. *Farming S. Afr.* 43(10):20-21. Jan. 1968. 24 So842  
Nematocides tested for *Meloidogyne javanica* control.
- 86932 SHABANOV, D., TOMOV, N., and POPKHRI-STOV, V. Testing hybrid combinations and varieties of tobacco in terms of resistance to root nematodes [*Meloidogyne*]. (Bu) *Bulg. Tyutyun* 6:25-31. 1967. 69.8 B872
- 86933 SMET, L. A. H. DE, and SOESBERVEN, G. A. VAN. T-disease and soil condition. (Du) *Neth. Dir. Landbouw. Landbouwvoorlichting* 25(2):94-99. Ref. Feb. 1968. 12 N383M  
Field crop disease caused by the nematode *Trichodorus teres*; includes types of soils in which it is prevalent.
- 86934 THOMPSON, S. S. Controlling nematodes on flue-cured tobacco. *Ga. Univ. Ext. Leaflet* 24, rev., 12 p.-folder. Jan. 1968. 275.29 G29L  
*Meloidogyne* spp. and *Pratylenchus* spp.
- 86935 TIKYANI, M. G., and KHERA, S. A survey of plant-parasitic nematodes around roots of great millet (*Sorghum vulgare*) from Rajasthan, India. *Plant Dis. Rep.* 52(5):396-398, map. May 1968. 1.9 P69P
- 86936 WILSKI, A. Eelworms—pests of rye. (Pol) *Ochrona Roslin* 12(1):7-8. Jan. 1968. 464.8 Oc32  
*Pratylenchus* spp.

#### Nematodes - Horticultural Crops

- 86937 BAKKER, I. The influence of soil disinfection with DD on nitrogen fertilizing. (Du) *Neth. Dir. Landbouw. Landbouwvoorlichting* 25(2):87-88. Feb. 1968. 12 N383M  
For control of potato fatigue, caused by nematodes.
- 86938 BRUIN, H. J. DE. New policy on potato fatigue. (Du) *Neth. Dir. Landbouw. Landbouwvoorlichting* 25(2):83-86. Feb. 1968. 12 N383M  
Eelworms.
- 86939 DUCHARME, E. P., SUIT, R. F. Population fluctuations of burrowing nematodes in Florida citrus groves. *Citrus Indus.* 49(5):5-7. Ref. May 1968. 80 C46
- 86940 EFFICIENT method of treating garlic for control of the bulb nematode. (Pol) *Ochrona Roslin* 12(1):12-13. Jan. 1968. 464.8 Oc32  
*Ditylenchus dipsaci* control with formaldehyde solution.
- 86941 FENWICK, H. S., and OHMS, R. E. Root-knot nematode [*Meloidogyne*] in potatoes. Idaho. *Univ. Ext. Idaho. Curr. Inform. Ser.* 77,2 p. Apr. 1968. 275.29 Id13Idc
- 86942 GREAT BRITAIN. MINISTRY OF AGRICULTURE, FISHERIES AND FOOD. Hot water treatment of plant material. *Great Brit. Min. Agr. Fish. Food. Bull.* 201,42 p. Ref. 1967. 10 G794B  
Chiefly for control of nematodes on ornamentals, vegetables, and fruit.
- 86943 HANKS, R. W., and FELDMAN, A. W. Quantitative changes in organic acids in roots and leaves from grapefruit seedlings infected with *Rhizopholus similis*. *Phytopathology* 58(5): 706-707. May 1968. 464.8 P56
- 86944 JEFFERKS, C. V. An alert to potato growers on the golden nematode. *Agway Coop.* 4(3):16-17. Apr. 1968. 280.28 Ag9
- 86945 JONES, F. G. W., and PARROTT, D. M. Potato production using resistant varieties on land infested with potato cyst-eel worm, *Heterodera rostochiensis* Woll. *Outlook Agr.* 5(5):215-222, map. Ref. 1968. 10 Ou8  
Great Britain.
- 86946 KUNDE, R. M., LIDER, L. A., and SCHMITT, R. V. A test of Vitis resistance to *Xiphinema* index. *Amer. J. Enol. Viticult.* 19(1):30-36. Ref. Jan./Mar. 1968. 390.9 Am33
- 86947 LIPES, J. E. Discovery of golden nematode [*Heterodera rostochiensis*]. *FAO Plant Protect. Bull.* 16(1):12-13. Feb. 1968. 421 P962  
Isolated from potatoes in Panama.
- 86948 MEINL, G., and STELTER, H. Influence of varying water supply on elongation and dry matter production in potato plants infected with nematodes [*Heterodera rostochiensis*] together with population dynamics of the parasite. (Ge) *Biol. Zentralbl.* 86(6):723-734. Ref. Nov./Dec. 1967. 442.8 B523  
English summary.
- 86949 MEL'NIKOVA, A., and ERSHOV, I. Stem nematode of onions. (Rus) *Kartofel' Ovoshchi* 2:37-39. Feb. 1968. 75.8 K147  
*Ditylenchus allii* Beij; includes control.
- 86950 O'BANNON, J. H. The influence of an organic soil amendment on infectivity and reproduction of *Tylenchulus semipenetrans* on tow citrus rootstocks. *Phytopathology* 58(5):597-601. Ref. May 1968. 464.8 P56
- 86951 PALMITER, D. H., BRAUN, A. J., and KEP-LINGER, J. A. Nematodes cause problems with apple trees in Hudson Valley. *Farm Res. [N. Y. Sta.]* 32(4):14-16. Jan./Mar. 1967. 100 N48A  
Control.
- 86952 PARASITIC nematodes of mushroom in New South Wales. *Agr. Gaz. New S. Wales* 79(4): 237-238. Apr. 1968. 23 N472
- 86953 RHOADES, H. L. Pathogenicity and control of *Pratylenchus penetrans* on leatherleaf fern [*Polystichum adiantiforme*]. *Plant Dis. Rep.* 52(5):383-385. May 1968. 1.9 P69P  
Ornamental.
- 86954 SHEPSHELEV, Z. Potato stem nematode. (Rus) *Kartofel' Ovoshchi* 2:36-37. Feb. 1968. 75.8 K147



- 86955 STEFAN, K. Potato rot nematode [*Ditylenchus destructor*]. (Pol) *Ochroa Roslin* 12(1):5-6. Jan. 1968. 464.8 Oc32
- 86956 STRUMPEL, H. Etiology of strawberry disease caused by *Aphelenchoides fragariae* and *Corynebacterium fascians*. (Ge) *Nachrichtenbl. Deut. Pflanzenschutzdienstes* 20(2):17-21. Feb. 1968. 442.9 B832  
English summary.
- 86957 U. S. AGRICULTURAL RESEARCH SERV. PLANT PEST CONTROL DIV. The golden nematode of potatoes and tomatoes. U. S. D. A. PA-816,4 p. Dec. 1967. 1 Ag84Pro  
*Heterodera rostochiensis*.
- 86958 WAGENINGEN, INSTITUUT VOR RASSENONDERZOEK VAN LANDBOUWGEWASSEN. Aardappelrassen met resistente tegen aardepelmoeheid (A.M.-rassen) [Potato varieties resistant to nematodes (A.M.-races)], 1968. Wageningen. Inst. Rassenonderzoek Landbouwgewassen. Ber. Rassenkeuze 406,6 p. Jan. 1968. 64.9 W12  
*Heterodera rostochiensis*.
- 86959 WONG, K. Y., and FERRIS, J. M. Factors influencing the population fluctuation of *Pratylenchus penetrans* in soil. III. Host plant species. *Phytopathology* 58(5):662-665. Ref. May 1968. 464.8 P56  
Potatoes, onions, and *Mentha piperita*.
- Virus Diseases
- 86960 DUNIN, M. S., and GORDEICHUK, A. I. Use of isolators of different types in the production of antiviral sera. (Rus) *Vestnik Sel'skokhoz. Nauk. [Moscow]* 2:46-53. Ref. Feb. 1968. 20 V633  
English summary.  
Serological tests in plant virus research.
- 86961 FRITZSCHE, R. Methods of transmitting plant pathogenic viruses with nematodes. (Ge) *Biol. Zentralbl.* 86(6):753-759. Nov./Dec. 1967. 442.8 B523  
English summary.
- 86962 KAHN, R. P., and BARTELS, R. The Colombian *Datura* virus--a new virus in the potato virus Y group. *Phytopathology* 58(5):587-592. Ref. May 1968. 464.8 P56  
Isolated from *Datura candida* and *D. sanguinea*.
- 86963 LUFTIG, R., and HASELKORN, R. Comparison of green blue algae [*Plectonema boryanum*] virus LPP-1 and the morphologically related viruses G111 and coliphage T7. *Virology* 34(4):675-678. Apr. 1968. 448.8 V81
- 86964 MCKINNEY, H. H., and SILBER, G. Methods of preservation and storage of plant viruses. In *Maramorosch, K., and Koprowski, H. Methods in virology*, v.4, p.491-501. 1968. QR360.M3  
Review of the literature.
- 86965 ORLOB, G. B. Relationship between *Tetranychus urticae* Koch and some plant viruses. *Virology* 35(1):121-133. Ref. May 1968. 448.8 V81
- 86966 OSHIMA, N., and KANAZAWA, Y. Preliminary report on the amino acid composition of TMV-C protein. *Phytopathol. Soc. Jap. Ann.* 34(2):155-157. Mar. 1968. 464.9 P562  
A virus isolated from *Radicula sylvestris* and identified as a strain of tobacco mosaic virus.
- 86967 PAUL, H. L., and others. Investigations of a new isometric virus from *Atropa belladonna* L. I. Symptoms, purification, morphology, physical and chemical properties. (Ge) *Phytopathol. Z.* 61(4):342-361. Ref. Apr. 1968. 464.8 P562  
O. Bode, M. Jankulowa, and J. Brandes, joint authors.  
English summary.
- 86968 REINECKE, C. J., and others. Chain initiation during polypeptide synthesis in a cell-free bacterial system programmed with plant viral messengers. I-II. *Biochim. Biophys. Acta* 157(3):566-588. May 21, 1968. 381 B522  
R. Van Reisen, H. O. Voorma, L. Bosch, B. W. Hoogendam, J. C. Van R. Classen, and A. Bosselaar, joint authors.
- 86969 YANKULOVA, M. Serology of plant viruses. (Bu) *Rast. Zashit.* 16(5):7-11. 1968. 423.92 So2
- 86970 YUN, T. G., and HIRAI, T. Studies on the chemotherapy for plant virus diseases. XII. Methods of applying antiviral chemicals against infected plants. (Ja) *Phytopathol. Soc. Jap. Ann.* 34(2):109-113. Ref. Mar. 1968. 464.9 P562  
English summary.
- Virus Diseases - Field Crops
- 86971 ALBISER, G., and others. X-rays diffraction study of a mutant of tobacco mosaic virus. (Fr) *Acad. Sci. C. R., Ser. D.* 266(11):1179-1181. Mar. 11, 1968. 505 P21  
F. Colonna-Cesari, P. Horn, G. Lebeurier, and L. Hirth, joint authors.
- 86972 BENJAMINI, E., SHIMIZU, M., and YOUNG, J. D. Immunochemical studies on the tobacco mosaic virus protein. VI-VII. *Biochemistry* 7(4):1253-1264. Ref. Apr. 1968. 381 B523
- 86973 CHEO, P. C., LINDNER, R. C., and MCRITCHIE, J. J. Effect of foreign RNA on tobacco mosaic virus local lesion formation. *Virology* 35(1):82-86. Ref. May 1968. 443.8 V81
- 86974 FANGUY, H. P., and TIPPETT, R. L. Variety yield trials used to measure rate of mosaic spread in sugar cane. *Sugar Azucar* 63(5):56-57. May 1968. 65.8 F11  
Louisiana.
- 86975 GUMPF, D. J., and HAMILTON, R. I. Isolation and characterization of barley stripe mosaic virus protein. *Virology* 35(1):87-93. Ref. May 1968. 448.8 V81
- 86976 HIRAI, T., and others. Inhibition by Blasticidin S of the ability of leafhoppers to transmit rice stripe virus. *Phytopathology* 58(5):602-604. May 1968. 464.8 P56  
T. Saito, H. Onda, K. Kitani, and A. Kiso, joint authors.
- 86977 HSI, D. C. H., and SHANNON, E. L. Occurrence of maize dwarf mosaic virus in New Mexico. *Plant Dis. Rep.* 52(5):365-366. May 1968. 1.9 P69P  
On grain.
- 86978 JOCKUSCH, H. Two mutants of tobacco mosaic virus, temperature sensitive in two different functions. *Virology* 35(1):94-101. Ref. May 1968. 448.8 V81
- 86979 KISLEV, N., HARPAZ, L., and KLEIN, M. Electron microscopic study of the cytopathology of maize plants infected with the Maize rough dwarf virus (MRDV). *Acta Phytopathol.* 3(1):1-12. Ref. 1968. SB731.A3
- 86980 KOSUGE, K., and HOSAKA, Y. Effect of treating rice seedlings with "drin" insecticides for control of *Delphacodes striatella* and rice stripe disease. 3 p. Transl. 16698  
Translation from Kanto-Tosan Plant Protection Society. Proceedings 8:16. 1961.
- 86981 KUHN, C. W. Corn viruses in Georgia. Ga. Agr. Exp. Sta. Res. Rep. 23, 25 p., map. Ref. Mar. 1968. S51.E22  
Corn stunt virus and maize dwarf mosaic virus.
- 86982 LOGINOVA, L. N., VLASOV, YU. I., and ANTONOVA, O. G. Oxidative processes in plant tissues, infected by tobacco mosaic virus of peas and yellows. (Rus) *Fiziol. Rast.* 15(2):358-360. Ref. Mar./Apr. 1968. 450 F58  
Broadbeans.
- 86983 MARCUS, A., LUGNBILL, B., and FEELEY, J. Polysome formation with tobacco mosaic virus RNA. *Nat. Acad. Sci. Proc.* 59(4):1243-1250. Ref. Apr. 1968. 500 N21P
- 86984 MERRETT, M. J., and SUNDERLAND, D. W. The metabolism of carbon-14 specifically labelled glucose in leaves showing tobacco mosaic virus induced local necrotic lesions. *Physiol. Plant.* 20(3):593-599. Ref. 1967. 450 P564
- 86985 MICZYNSKI, K. A. Detection of free viral nucleic acid in the potato virus X infected tobacco by gel electrophoresis. *Phytopathol. Z.* 61(4):309-330. Ref. Apr. 1968. 464.8 P562

- 86986 MUKHERJEE, A. K., SOANS, L. C., and CHES-  
SIN, M. Effects of kinetin and actinomycin D on  
the susceptibility of *Nicotiana glutinosa* L. to  
infection by tobacco mosaic virus. *Nature* 216  
(5122):1344-1345. Ref. Dec.30,1967. 472 N21
- 86987 NEW SOUTH WALES. DEPT. OF AGRICUL-  
TURE. BIOLOGY BR. Barley yellow dwarf vi-  
rus. *Agr. Gaz. New S. Wales* 79(4):3 of cover-  
4 of cover. Apr.1968. 23 N472  
On grain and grasses.
- 86988 PARLINI, S., and LAUFFER, M. A. Polymeri-  
zation-depolymerization of tobacco mosaic vi-  
rus protein. XI. *Biochemistry* 7(5):1827-1835.  
Ref. May 1968. 381 B223
- 86989 RICHARDSON, B., and others. Sterol metabo-  
lism in normal and tobacco mosaic virus-in-  
fected tobacco plants. *Steroids* 11(3):231-244.  
Ref. Mar.1968. 381 St4  
J. R. Baur, R. S. Halliwell, and R. Langston,  
joint authors.
- 86990 ROSS, J. P. Effect of single and double infec-  
tions of soybean mosaic and bean pod mottle  
viruses on soybean yield and seed characters.  
*Plant Dis. Rep.* 52(5):344-348. Ref. May 1968.  
1.9 P69P
- 86991 SCHANK, S. C. Virus can affect Pangola. *Fla.*  
*Cattleman Livestock J.* 32(9):32. June 1968.  
43.8 F66
- 86992 SCHUMANN, K. Isolation of mosaic virus  
from Agropyron in German Democratic Repub-  
lic. (Ge) *Arch. Pflanzenschutz* 3(2):83-88.  
Ref. 1967. 464.8 Ar2  
English summary.  
Agropyron repens.
- 86993 SINGER, B., and GREENBERG, J. Reaction  
of nitrosoguanidine (N-Methyl-N'-nitro-N-  
nitrosoguanidine) with tobacco mosaic virus  
and its RNA. *Science* 160(3833):1235-1236.  
June 14,1968. 470 Sci2
- 86994 TAKEBE, I., OTSUKI, Y., and AOKI, S. Iso-  
lation of tobacco mesophyll cells in intact and  
active state. *Plant Cell Physiol.* 9(1):115-124.  
Ref. Mar.1968. 450 P699  
From tobacco mosaic virus-inoculated  
leaves.
- 86995 TANDON, I. N., and BANERJEE, A. K. Control  
of phyllody and leaf curl of *Sesamum orientale*.  
*Plant Dis. Rep.* 52(5):367-369. May 1968.  
1.9 P69P
- 86996 THOMAS, P. E., and FULTON, R. W. Resis-  
tance to spread of virus from cell to cell in  
T. I. 245 tobacco. *Virology* 35(1):108-111. Ref.  
May 1968. 448.8 V81
- 86997 TOMARU, K., and UDAGAWA, A. A new strain  
of potato virus Y isolated from Burley tobacco  
in Japan. (Ja) *Phytopathol. Soc. Jap. Ann.* 34  
(2):77-84. Ref. Mar.1968. 464.9 P562  
English summary.
- Virus Diseases - Horticultural Crops
- 86998 ALLEN, W. R., and DAVIDSON, T. R. Tomato  
bushy stunt virus from *Prunus avium* L. I. *Can.*  
*J. Bot.* 45(12):2375-2383. Ref. Dec.1967.  
470 C16C
- 86999 BENOIT, F. The virus problem in strawberry  
culture. (Fl) *Tuinbouwbericht* 32(4):143-145.  
Apr.1968. 80 T817
- 87000 BENSON, A. P., and HOOKER, W. J. Carbohy-  
drate distribution in grafted potato plants rep-  
resenting two types of resistance to virus X.  
*Phytopathology* 58(5):571-574. Ref. May 1968.  
464.8 P56
- 87001 BISHOP, G. W., and O'KEEFFE, L. E. Potato  
leaf roll and the green peach aphid in 1968.  
*Idaho. Univ. Ext. Idaho. Curr. Inform. Ser.* 76,  
4 p. Apr.1968. 275.29 Id13Idc  
*Myzus persicae*.
- 87002 CAMPBELL, R. N. Transmission of tomato  
bushy stunt virus unsuccessful with *Olpidium*.  
*Plant. Dis. Rep.* 52(5):379-380. May 1968.  
1.9 P69P
- 87003 CAPOOR, S. P., RAO, D. G., and VISWANATH,  
S. M. *Diaphorina citri* Kuway., a vector of the  
greening disease of citrus in India. *Indian J.*  
*Agr. Sci.* 37(6):572-576. Dec.1967. 22 Ag83I  
Virus disease.
- 87004 COOK, A. A. Virus disease resistance in some  
*Capsicum* species from South America. *Plant*  
*Dis. Rep.* 52(5):381-383. May 1968. 1.9 P69P
- 87005 CROPLEY, R. Varietal reactions to viruses  
causing star crack and russet rings on apple  
fruits. *J. Hort. Sci.* 43(2):157-165. Ref. Apr.  
1968. 80 J825
- 87006 DEMETRIADES, S. D., and CATSIMBAS, C.  
Sarka disease of apricot. *FAO Plant Protect.*  
*Bull.* 16(1):10-11. Feb.1968. 421 P962
- 87007 FULTON, R. W. Serology of viruses causing  
cherry necrotic ringspot, plum line pattern,  
rose mosaic, and apple mosaic. *Phytopathology*  
58(5):635-638. Ref. May 1968. 464.8 P56
- 87008 GABORJANYI, R., and BENCSICS, M. SZ.  
Preparation of antiserum against stolbur virus.  
*Acta Phytopathol.* 3(1):31-33. 1968. SB731.A3  
Infecting tomatoes and potatoes.
- 87009 GHEORGHU, A., and IONESCU-MATIU, E.  
Influence of viral infection on the content in  
vincalucoblastine of *Vinca rosea* L., as well  
as on the morphological and anatomical char-  
acteristics of this plant. (Fr) *Ann. Pharm.*  
*Franc.* 25(12):807-816. Ref. Dec.1967.  
396.8 An7
- 87010 GILMER, R. M., and others. Insects and X-  
disease of peach and cherry. *Farm Res.*  
[N. Y. Sta.] 32(4):12-13,16. Jan./Mar.1967.  
100 N48A  
D. H. Palmiter, G. A. Schaefer, and F. L.  
McEwen, joint authors.  
Virus disease transmission.
- 87011 GORDEICHUK, A. I. Diagnosis of potato vi-  
ruses. (Rus) *Zashch. Rast.* 5:41-42. 1968.  
421 Z1
- 87012 HANSEN, H. P., and BLOCK, P. Virus disease  
of mushroom in Denmark. (Da) *Horticultura*  
21(11):179-181. Nov.1967. 80 H7825  
English summary.
- 87013 HITCHBORN, J. H., and HILLS, G. J. A study  
of tubes produced in plants infected with a  
strain of turnip yellow mosaic virus. *Virology*  
35(1):50-70. Ref. May 1968. 448.8 V81  
Observed in Chinese cabbage.
- 87014 HORVATH, J. Data on the possibilities of  
controlling potato virus. *Acta Agron. [Buda-  
pest]* 17(1/2):115-129. 1968. 19 Ac8  
Review of literature.
- 87015 HORVATH, J. New viruses endanger potatoes.  
(Hu) *Magyar Mezogazdasag* 22(51):10-11.  
Dec.20,1967. 19 M27
- 87016 HORVATH, J. Possibilities of control of plant  
viruses with special emphasis on preventive  
methods against potato viruses. (Hu) *Agrartud.*  
*Kozlem.* 27(1/2):55-67. Ref. 1968. 19 B855  
German summary.
- 87017 JERMOLJEV, E. Diagnostika virovych chorob  
bramboru a repy cukrove [Diagnosis of virus  
diseases in potatoes and sugar beets]. *Praha,*  
*Academia*, 1967. 303 p. Ref. SB736.J4
- 87018 JOSHI, L., and THORNBERRY, H. H. Effect  
on magnesium trisilicate on the infectivity of  
tobacco mosaic virus. *Virology* 35(1):169-171.  
May 1968. 448.8 V81  
Tested with beans.
- 87019 KALOOSTIAN, G. H. A leaf drop symptom as-  
sociated with own-rooted Magness pear trees  
inoculated with pear decline virus by the pear  
psylla, *Psylla pyricola*. *Plant Dis. Rep.* 52(5):  
363-365. May 1968. 1.9 P69P
- 87020 KAPER, J. M., and JENIFER, F. G. Studies  
on the interaction of p-mercuribenzoate with  
turnip yellow mosaic virus. *V. Virology* 35(1):  
71-81. Ref. May 1968. 448.8 V81  
Isolated from Chinese cabbage.
- 87021 KEPLINGER, J. A., BRAUN, A. J., and PROV-  
IDENTI, R. Crumbly berry of red raspberry  
caused by tomato ringspot virus. *Plant Dis.*  
*Rep.* 52(5):386-390. Ref. May 1968. 1.9 P69P
- 87022 KHRISTOVA, E., KOLEVA, N., and PETKOVA,  
M. Mosaic disease on *Primula obconica* and  
*Primula malacoides* in the greenhouse and its  
control. (Bu) *Gradinar. Lozar. Nauk.* 4(5):97-  
111. Ref. 1967. 87 G75  
English summary.



- 87023 KISHI, K., TAKANASHI, K., and ABIKO, K. Studies on virus diseases of stone fruits. I. Peach necrotic ringspot and prune dwarf virus in Japan. (Ja) *Phytopathol. Soc. Jap. Ann.* 34(2):143-150. Ref. Mar.1968. 464.9 P562 English summary.
- 87024 KOENIG, R., and BERCKS, R. Changes in the heterologous reactions of antisera against members of the potato virus X group during the immune response. (Ge) *Phytopathol. Z.* 61(4):382-398. Ref. Apr.1968. 464.8 P562 English summary.
- 87025 KOMURO, Y., and IWAKI, M. Strains of tobacco mosaic virus contained in cigarettes, with special reference to the infection source for mosaic disease of tomato. (Ja) *Phytopathol. Soc. Jap. Ann.* 34(2):98-102. Ref. Mar.1968. 464.9 P562 English summary.
- 87026 LAWSON, R. H. Cineraria [*Senecio cruentus*] varieties as starch lesion test plants for Chrysanthemum stunt virus. *Phytopathology* 58(5): 690-695. Ref. May 1968. 464.8 P56
- 87027 MEIER, W. Epidemiology and control of pea virus diseases. (Ge) *Mitt. Schweiz. Landwirt.* 16(3):37-50. Ref. Mar.1968. 17 M69
- 87028 MILBRATH, G. M., and NELSON, M. R. Watermelon mosaic virus 2 and cucurbit latent virus: a new evaluation. *Phytopathology* 58(5): 687-689. Ref. May 1968. 464.8 P56
- 87029 MURANT, A. F., TAYLOR, C. E., and CHAMBERS, J. Properties, relationships, and transmission of a strain of raspberry ringspot virus infecting raspberry cultivars immune to the common Scottish strain. *Ann. Appl. Biol.* 61(2):175-186. Ref. Apr.1968. 442.8 An72
- 87030 PAPASOLOMONTOS, A., and ECONOMIDES, C. V. The presence of Tristeza virus in certain species of citrus in Cyprus. *FAO Plant Protect. Bull.* 16(1):8-9. Feb.1968. 421 P962
- 87031 RODENBURG, C. M., and HOYSKES, J. A. Lettuce varieties resistant to lettuce mosaic. (Du) *Groenten Fruit* 23(34):1540-1541. Mar.6, 1968. 80 G89
- 87032 ROTHACKER, D. The ablation grafting as a versatile method of virus infection of potatoes. (Ge) *Arch. Pflanzenschutz* 3(1):71-76. 1967. 464.8 Ar2 English summary.
- 87033 SCHMID, G. Sharka, a newly introduced virus disease of plum trees. (Ge) *Schweiz. Z. Obst-Weinbau* 104(5):121-123. Mar.2,1968. 80 Sch9 Transmitted by aphids.
- 87034 SCHNEIDER, I. R., and DIENER, T. O. In vivo and in vitro decline of specific infectivity of tobacco ringspot virus correlated with nucleic acid degradation. *Virology* 35(1):150-157. Ref. May 1968. 448.8 V81 Beans.
- 87035 SCMD, G. "Sharka," a newly introduced virus disease of plum trees. (Ge) *Grune.* 96(10): 322-324. Mar.8,1968. 17 Sch9 Switzerland.
- 87036 SEIDL, V. Signs of virus diseases on apples. (Cz) *Zahradnicke Listy* 61(4):104-105. 1968. 80 Z12
- 87037 SINGH, R. P., and BAGNALL, R. H. Infectious nucleic acid from host tissues infected with the potato spindle tuber virus. *Phytopathology* 58(5):696-699. Ref. May 1968. 464.8 P56
- 87038 SMITH, S. H., MCCALL, S. R., and HARRIS, J. H. Alterations in the auxin levels of resistant and susceptible hosts induced by the curly top virus. *Phytopathology* 58(5):575-577. May 1968. 464.8 P56 Tomatoes, beets, and beans.
- 87039 SREENIVASAN, T. N., and NARIANI, T. K. Relationship of pea mosaic virus with its vector *Aphis craccivora* Koch. *Indian J. Agr. Sci.* 37(6):476-481. Dec.1967. 22 Ag83I
- 87040 TANAKA, S. A color test for citrus exocortis in Japan. *Phytopathol. Soc. Jap. Ann.* 34(2):151-152. Mar.1968. 464.9 P562
- 87041 THOMAS, C. E. Luffa acutangula, a new host for tobacco ringspot virus. *Plant Dis. Rep.* 52(5):374. May 1968. 1.9 P69P
- 87042 THOMPSON, L. S. Strawberry green petal virus transmission in the field. *Plant Dis. Rep.* 52(5):393-394. May 1968. 1.9 P69P
- 87043 THURESSON, B. Are the seed potatoes fit for use this year? (Sw) *Kalmar Lans Hushallningssallsk. Tidskr.* 2:20. Apr.1968. 11 K123 With reference to virus diseases.
- 87044 TOCHIHARA, H. Radish enation mosaic virus. (Ja) *Phytopathol. Soc. Jap. Ann.* 34(2):129-136. Ref. Mar.1968. 464.9 P562 English summary. Includes transmission by insects.
- 87045 TREMAINE, J. H., and STACE-SMITH, R. Chemical composition and biophysical properties of tomato ringspot virus. *Virology* 35(1): 102-107. Ref. May 1968. 448.8 V81 Isolated from cucumber.
- 87046 YAMUGUCHU, A. Viral lesion formation on chlorophyll deficient leaf area. *Phytopathol. Z.* 61(4):399-400. Apr.1968. 464.8 P562 *Vicia faba*.

## Virus Diseases - Forest Trees

- 87047 MILINKO, I., and SCHMELZER, K. Some new statements on distribution and harmfulness of black locust [*Robinia pseudoacacia*] mosaic in Hungary. *Acta Phytopathol.* 3(1):23-29. Ref. 1968. SB731.A3
- 87048 NAVRATIL, S., and BOYER, M. G. The identification of poplar mosaic virus in Canada. *Can. J. Bot.* 46(5):722-723. Ref. May 1968. 470 C16C

## Physiological Diseases

- 87049 HAVELKA, B., and BRYCHTA, J. The effect of zinc on the drop of flowers and fruit in Jonathan apple variety. (Cz) *Zahradnicke Listy* 61(4):108. 1968. 80 Z12
- 87050 HOUTER, J. Chlorosis of apples and pears. (Du) *NFO (Ned. Fruittelers Organ.) Ber.* 24(4):89. Apr.1968. 95.9 N28
- 87051 KITIPOV, A., and CHERESHAROV, D. Barakovo type of tobacco black shank. (Bu) *Bulg. Tyutyun* 7:15-17. 1967. 69.8 B872 Physiological disease.
- 87052 KOBLET, W., and LAUBER, H. P. Further investigations on stem paralysis in grapes. (Ge) *Schweiz. Z. Obst.-Weinbau* 104(9):223-230. Apr.13,1968. 80 Sch9 Physiological disease treated with calcium chloride and magnesium chloride.
- 87053 MOSS, H. J. The pre-disposition to mottling of certain wheats. *Australian J. Exp. Agr. Anim. Husb.* 8(30):85-88. Ref. Feb.1968. 23 Au792
- 87054 PASINA, G. The effect of boron fertilizers on corky spots of apples. (Cz) *Zahradnicke Listy* 61(4):102-103. 1968. 80 Z12
- 87055 SOGIYAMA, N., and others. Altenin. V. Pathogenic activity of reductiones to the pear. *Bull. Chem. Soc. Jap.* 40(11):2594-2596. Ref. 1967. 385 T57B C. Kashima, M. Yamamoto, T. Takano, and R. Mohri, joint authors.
- 87056 TARASOV, V. M., and KOVALENKO, V. F. Drying of apple branches. (Rus) *Zashch. Rast.* 5:16-17. 1968. 421 Z1 Caused by copper deficiency.
- 87057 YAKOVENKO, N. P. Effect of mineral fertilizers on glassiness and yellow berry of wheat kernels of the Bezostaya 1 variety. (Rus) *Selek. Semenovodstvo* 1:69-70. Jan./Feb.1968. 61.9 Se5
- 87058 YASAITIENE, D. K. Activity of some oxidative fermentations in cabbage and their changes by dotted necrosis. (Rus) *Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl.* 132:273-277. Ref. 1967. 20 M857

Injuries

- 87059 AGAFONOV, N. V. Regeneration of root system in grafted and self-rooted cherry, as related to the mechanical injuries. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 132:67-72. 1967. 20 M857
- 87060 AHRENS, J. F., and KRING, J. B. Activated carbon adsorbs pesticides. *Frontiers Plant Sci.* [Conn. Sta.] 20(2):13. May 1968. 100 F92 To protect plants from injuries.
- 87061 BALAGUROVA, N. I. Changes in the chloroplasts of potato leaves under the effect of frosts on the plants. (Rus) *Tsitologiya* 10(1):95-101. Ref. Jan. 1968. 442.8 T78 English summary. Includes injuries.
- 87062 BATZLI, G. O. Dispersion patterns of mice in California annual grassland. *J. Mammal.* 49 (2):239-250. Ref. May 1968. 410 J823
- 87063 BERKEL, N. VAN. Injuries to tomatoes from CO<sub>2</sub>-application. (Du) *Groenten Fruit* 23(28): 1267. Jan. 24, 1968. 80 G89
- 87064 BRAVOC, M. Possible toxicity of boron for sugarcane. (Sp) *Turrialba* 18(1):72-73. Jan./Mar. 1968. 8 T86 English summary.
- 87065 BUCHHOLTZ, K. P. Reduce injury from soil residues. *Soybean Dig.* 28(4):16, 18. Feb. 1968. 60.38 So9 From herbicides.
- 87066 CHRISTIANSEN, M. N., and CARNS, H. R. Preconditioning cottonseed offers protection against chilling injury. *Cotton Gin Oil Mill Press* 69(7):10. Apr. 6, 1968. 304.8 C822 304.8 C822
- 87067 DASSLER, H. G., and GRUMBACH, H. Injuries to fruit caused by air pollution of fluorine works. (Ge) *Arch. Pflanzenschutz* 3(1):59-69. Ref. 1967. 464.8 Ar2 English summary.
- 87068 DRIEST, J. P. VAN. Noxious snails in brussels sprout culture. (Du) *Groenten Fruit* 23(36): 1633. Mar. 20, 1968. 80 G89
- 87069 FILIPPOV, L. A. Drying of tree crown, connected with stem blight. (Rus) *Sadovodstvo* 12: 16. Dec. 1967. 80 Sa13 Caused by frost on deciduous fruit.
- 87070 GOUIN, F. R. Winterizing plants. *Md. Univ. Ext. Fact Sheet* 201, 2 p. Jan. 1968. 275.29 M36Fa Cultural prevention of injuries to ornamentals.
- 87071 HAMILTON, K. C., and ARLE, H. F. Herbicide residues in irrigated soils. *Progr. Agr. Ariz.* 20(2):16-17. Mar./Apr. 1968. 6 P9452 Injuries to field crops.
- 87072 HENKES, R. Wings of destruction; here's what they're doing about bird control in agriculture. *World Farming* 10(6):28-30, 32. June 1968. 30.08 W89 Crop pests.
- 87073 JUILLET, J. Notes on the dispersion of the slug *Arion ater* (L.) (Fr) *Phytoprotection* 49 (1):38-40. Feb. 1968. 464.8 P566 Pest of plants.
- 87074 JUSCAFRESA, B. Control of frost by overhead irrigation. (Sp) *Cultiv. Mod.* 51(4):45-46. Apr. 1968. 15 C89
- 87075 MAAS, G. Injuries to the anchor roots (crown roots) of grain after treatment with herbicides. (Ge) *Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz.* Sonderheft 4:139-144. 1968. 464.8 Z33 English summary. Causing lodging in rye and wheat.
- 87076 MADSEN, H. F., and WILLIAMS, K. The effects of petroleum oils on Bartlett pears and on pear psylla, *Psylla prycola*. *Can. Entomol.* 100(3):290-295. Mar. 1968. 421 C16 Phytotoxicity.
- 87077 MELI, T. Frost protection with paraffin candles. (Ge) *Schweiz. Z. Obst-Weinbau* 104(9): 230-232. Apr. 13, 1968. 80 Sch9
- 87078 MILLER, R. A., and LESKOSKY, S. T. Wildlife damage and control. *Amer. Vegetable Grower* 16(5):15-18, 46, 48. May 1968. 80 C733 Massachusetts.
- 87079 POLYAKOV, I. M., VLADIMIRSKAYA, M. E., and OLKER, M. D. Possible negative aftereffect caused by soil fumigation and the measures of its overcoming. (Rus) *Khim. Sel'skom Khoz.* 6(1):27-31. Jan. 1968. 385 K524 Effects of Tridipam, Vapam and DMTT on vegetable injuries.
- 87080 SCHONBECK, H. Are traps suitable for preventing damage by birds? (Ge) *Pflanzenarzt.* 21(4):48. Apr. 1, 1968. 464.9 P482
- 87081 SMITH, F. F. Insects and related pests of day-lilies [Hemerocallis]. *Amer. Hort. Mag.* 47(2): 201-206. Ref. Spring 1968. 80 N216 Includes slugs, snails, and nematodes.
- 87082 SZWEJDA, J. Protecting planted seeds from birds. (Pol) *Ochrona Roslin* 12(2):11-12. Feb. 1968. 464.8 Oc32
- 87083 TRAEGER, F. W. Bad weather cuts Philippine coconut production. *Foreign Agr.* 6(21):5. May 20, 1968. A281.9 F76Fo
- 87084 UDAGAWA, T. Nosagi no gai to sono bogiho [Hares as pests and their control]. *Saikin No Ringyo Gigitsu* 16, 50 p., map. Mar. 1968. 88.8 Sa2 Forest tree pests.
- 87085 WESTER, H. V., and COHEN, E. E. Salt damage to vegetation in the Washington, D. C. area during the 1966-67 winter. *Plant Dis. Rep.* 52(5):350-354. May 1968. 1.9 P69P

## SYSTEMATIC AND GEOGRAPHIC BOTANY

- 87086 ALETSEE, L. Conceptual and floristic fundamentals of geographic analysis of vegetation of rain moors of Europe, with a discussion of floristic gradients of European vegetation of mountain moors. II. (Ge) *Beitr. Biol. Pflanzen* 43(2):161-283, map. 1967. 450 C66 Bibliography, p. 274-283.
- 87087 ALIZADE, M. M. Conservation of relict plants of Azerbaijan. (Rus) *Les. Khoz.* 1:68-70. Jan. 1968. 99.8 L5622
- 87088 BRONDEGAARD, V. J. Rock garden plants in the Pyrenees. (Da) *Haven* 68(3):72-73. Mar. 1968. 80 H29
- 87089 FEJDIOVA, V. A contribution to the study of vegetation of iron ore dumps in Nadabula near Roznava. (Cz) *Biologia [Bratislava]* 23(4):301-304. 1968. 442.8 B5265 German summary.
- 87090 HORVAT, A. O. Report on the plant geography research at Mecsek. (Hu) *Agrartud. Kozlem.* 27(1/2):235-237. 1968. 19 B855
- 87091 JACOBS, M. Systematics, solipsism, society. (Du) *Vakl. Biol.* 48(4):55-63. Apr. 1968. 442.8 V22 Botany and botanists.
- 87092 KAWADA, A. Reminiscences of plants of Southeast Asia. 6. (Ja) *Agr. Asia* 5(12):26-27. Dec. 1967. 22.5 Aj5
- 87093 KAWADA, A. Reminiscences of plants of Southeast Asia. 10. (Ja) *Agr. Asia* 6(4):28-29. Apr. 1968. 22.5 Aj5
- 87094 KAWADA, A. Reminiscences of plants of Southeast Asia. 11. (Ja) *Agr. Asia* 6(5):26-27. May 1968. 22.5 Aj5
- 87095 LEHR, J. H. Additions and corrections to a flora of Rockland County, New York. *Torrey Bot. Club. Bull.* 94(6):543-544. Nov./Dec. 1967. 451 T63B
- 87096 MOYLENBROCK, R. H. A floristics study of Bell Smith Springs, Pope County, Illinois. *Ill. State Acad. Sci. Trans.* 61(1):53-79, map. 1968. 500 IL6
- 87097 POP, I., and HODISAN, I. New and rare flora of the Banat region. (Rum) *Cluj. Univ. Babes-Bolyai. Stud. Ser. Biol.* 13(1):3-6. Ref. 1968. 442.9 C62 French summary.
- 87098 SIMORA, S. Interesting flora in Belanske Tatra Mountains. (Cz) *Ziva* 16(2):55-56. Mar. 1968. 409.6 Z6



- 87099 TWISSELMANN, E. C. A flora of Kern County, California. Wasmann J. Biol. 25(1/2):395 p. Ref. Spring/Fall 1967. 442.8 W28
- Spermatophytes
- 87100 ABID, M. A. A revision of Symphoremata. Verbenaceae. Gard. Bull. 22(2):153-171. Dec.29, 1967. 22.5 St8
- 87101 ALLEN, D. E. Neotinia intacta (Link) Reich. f. in the Isle of Man. Bot. Soc. Brit. Isles. Proc. 7(2):165-168. Ref. Apr.1968. 451 B658Pr
- 87102 ARAI, M., and NAKAMURA, K. Trees and shrubs in the "Oyasan" University forest. (Ja) Tokyo Univ. Agr. Technol. Bull. Exp. Forests 7:15-39. Jan.1968. 99.9 T575  
English summary.
- 87103 ASHTON, P. S. Notes on Bornean Dipterocarpaceae. III. Gard. Bull. 22(2):259-352. Dec.29, 1967. 22.5 St8  
Includes n. spp. in Anisoptera, Dipterocarpus, Vatica, Hopea, and Shorea.
- 87104 BAHADUR, K. N., and DAYAL, R. A note on the occurrence of Solanum khasianum Clarke var. chatterjeeanum Sen Gupta in North-West India. Indian Forest. 94(2):186-188. Feb.1968. 99.8 In2
- 87105 BOVIN, B. Flora of the Prairie Provinces. II. Digitatae, Dimerae, Liberae. Phytologia 16(3): 219-261. Mar.1968. 450 P563
- 87106 BRAUN, E. L. The Monocotyledoneae. Columbus, Ohio State University Press, 1967. 464 p., map. Ref. (The Vascular Flora of Ohio, v. 1) QK180.V3
- 87107 BURGER, W. C. Notes on the flora of Costa Rica. I. Fieldiana. Bot. 31(11/14):273-275. Feb.22,1968. 500 C432B  
Macrolobium costaricense n. sp.
- 87108 CHUKSANOVA, N. A., SVESHNIKOVA, L. I., and ALEKSANDROVA, T. V. Data on karyology of the family Compositae. (Rus) Tsitologiya 10(2):198-206. Ref. Feb.1968. 442.8 T78  
English summary.  
Chromosome numbers in relation to taxonomy.
- 87109 CHUKSANOVA, N. A., SVESHNIKOVA, L. I., and ALEKSANDROVA, T. V. New data on the chromosome numbers in the species of the family Compositae. (Rus) Tsitologiya 10(3): 381-386. Mar.1968. 442.8 T78  
English summary.  
In relation to taxonomy.
- 87110 CLIFFORD, H. T., and GOODALL, D. W. A numerical contribution to the classification of the Poaceae. Australian J. Bot. 15(3):499-519. Ref. Dec.1967. 450 Au72
- 87111 CREECH, J. L. Exploring for daylilies [Hemerocallis] in Japan. Amer. Hort. Mag. 47(2): 247-249. Spring 1968. 80 N216
- 87112 CROVELLO, T. J. The effect of alteration of technique at two stages in a numerical taxonomic study. Kan. Univ. Sci. Bull. 47(12):761-785. Feb.15,1968. 500 K132S  
Based on data from 30 taxospecies of Salix.
- 87113 DONY, J. G. Flora of Hertfordshire: the wild plants of the county of Hertford and the adjoining areas included in Watsonian vice-county 20. Hitchin, England, Hitchin Urban District Council, 1967. 112 p.,map. Ref. QK306.D6  
Spermatophyta and Pteridophyta.
- 87114 EDLIN, H. L. A modern sylvia or a discourse of forest trees. 25. Hemlocks, western red cedar, and incense cedar: Tsuga, Thuja and Libocedrus genera. Quart. J. Forest. 62(2): 145-154. Apr.1968. 99.8 Q2
- 87115 FERAKOVA, V. Further notes on the distribution and karyology of Iva xanthifolia Nutt. (Cz) Biologia [Bratislava] 23(4):317-319. 1968. 442.8 B5265  
German summary.
- 87116 EL-GAZZAR, A., and others. The taxonomy of Salvia: a test of two radically different numerical methods. Linn. Soc. London. J. Bot. 60 (383):237-250. Ref. Feb.1968. 451 L64J  
L. Watson, W. T. Williams, and G. N. Lance, joint authors.
- 87117 GLASSMAN, S. F. New species in the palm genus Syagrus Mart. II. Fieldiana. Bot. 31 (11/14):285-299. Feb.22,1968. 500 C432B
- 87118 GRANT, W. F., and ZANDSTRA, I. I. The biosystematics of the genus Lotus (Leguminosae) in Canada. II. Numerical chemotaxonomy. Can. J. Bot. 46(5):584-589. May 1968. 470 C16C
- 87119 GREENWOOD, E. F. The British herbarium of flowering plants and ferns at the City of Liverpool Museums. Bot. Soc. Brit. Isles. Proc. 7 (2):169-172. Ref. Apr.1968. 451 B658Pr
- 87120 GRIMM, W. C. Familiar trees of America. New York, Harper & Row, 1967. 240 p. Ref. QK481.G69  
North America.
- 87121 HADFIELD, M. The grey alder [Alnus incana]. Quart. J. Forest. 62(2):170-172. Apr.1968. 99.8 Q2
- 87122 HELLER, A. H. A new Eurystyles from Nicaragua. Fieldiana. Bot. 31(11/14):279-281. Feb.22,1968. 500 C432B  
Eurystyles borealis n. sp.
- 87123 HEYN, C. C., and HERRNSTADT, I. The Lotus creticus group. Kew. Roy. Bot. Gard. Kew Bull. 21(2):299-309. Ref. 1967. 451 K51B
- 87124 HOFMAN, J. On the origin of yews near Chudenice. (Cz) Preslia 40(1):94-99, map. Ref. 1968. 450 P92  
German summary.  
Geographic distribution.
- 87125 HOFFMANOVA, E. Rediscovery of the shore drugsquill [Urginea maritima]. (Cz) Ziva 16 (2):50. Mar.1968. 409.6 Z6
- 87126 HOLCOMB, C. J., and MCSELFRESH, W. A. How trees get their names. Va. Polytech. Inst. Ext. Leaflet. 118, rev., 7 p. Dec.1967. 275.29 V81L  
Pinus virginiana, example used.
- 87127 HOTTA, M. Notes on the wild banana of Borneo. J. Jap. Bot. 42(11):24-32. Nov.1967. 450 J8223  
Includes Musa muluensis and M. tuberculata, n. spp.
- 87128 HU, S. Y. An early history of daylily [Hemerocallis]. Amer. Hort. Mag. 47(2):51-85, map. Spring 1968. 80 N216  
Includes taxonomy.
- 87129 HU, S. Y. The species of Hemerocallis. Amer. Hort. Mag. 47(2):86-120. Spring 1968. 80 N216
- 87130 JABLONSKI, E. Notes on neotropical Euphorbiaceae. 3. Synopsis of Caribbean Sapium. Phytologia 16(5):393-434, map. May 1968. 450 P563
- 87131 JEFFREY, C. Notes on Compositae. II. The Mutisieae in east tropical Africa. Kew. Roy. Bot. Gard. Kew Bull. 21(2):177-223. Ref. 1967. 451 K51B  
Includes n. spp. in Pleiotaxis and Erythrocephalum.
- 87132 JONES, E. W. The taxonomy of the British species of Quercus. (Condensed.) Bot. Soc. Brit. Isles. Proc. 7(2):183-194. Apr.1968. 451 B658Pr
- 87133 JOSEPH, J., and YOGANARASIMHAN, S. N. Corybas purpureus a new species of orchid from United Khasi and Jaintia Hills, Assam. Indian Forest. 93(12):815-817. Dec.1967. 99.8 In2
- 87134 KASAPLIGIL, B. Trees and shrubs of Mills College. Oakland, California, Mills College, 1967. 56 p. Ref. QK484.C3K3
- 87135 KRAL, M. Systematic position of Sedum cepaea L. Preslia 40(1):18-20. Ref. 1968. 450 P92
- 87136 KUNSTOVNY, P. Another location of Gentiana kochiana Perr. and Song. in Czechoslovakia. (Cz) Preslia 40(1):102-103. 1968. 450 P92  
German summary.
- 87137 LA ROI, G. H., and DUGLE, J. R. A systematic and genealogical study of Picea glauca and P. engelmannii, using paper chromatograms of needle extracts. Can. J. Bot. 46(5):649-687, map. Ref. May 1968. 470 C16C

- 87138 LEBRETON, P., and BOUCHEZ, M. P. Chemo-taxonomic research on vascular plants. V. Distribution of polyphenols in Parietales. (Fr) *Phytochemistry* 6(12):1601-1608. Ref. Dec. 1967. 450 P5622
- 87139 LEIFERTOVA, I., and BUCKOVA, H. On the chemotaxonomy of tannin characteristics in the order Geranium; determination of tannins in *Geranium sanguineum* L. III. (Cz) *Preslia* 40 (1):60-63. 1968. 450 P92  
German summary.
- 87140 LORIYA, M. L. Some Caucasus species of section *Anastraea* V. Engl. of genus *Tilia* L. (Rus) *Akad. Nauk Gruz. SSR. Soobshch.* 49(3): 665-670. Mar. 1968. 511 Ak146
- 87141 LOUSLEY, J. E. A glabrous perennial *Sonchus* in Britain. *Bot. Soc. Brit. Isles. Proc.* 7(2): 151-157. Ref. Apr. 1968. 451 B658Pr  
Taxonomic discussion on *S. arvensis* and *S. uliginosus*.
- 87142 LUNDELL, C. L. Undescribed species and notes on other plants from Middle America. *Phytologia* 16(5):442-446. May 1968. 450 P563  
Includes n. spp. in *Xylosma*, *Calyptranthes*, *Eugenia*, and *Matelea*.
- 87143 MACCLINTOCK, D. Further notes on *Erica ciliaris* in Ireland. *Bot. Soc. Brit. Isles. Proc.* 7(2):177-178. Ref. Apr. 1968. 451 B658Pr
- 87144 MACHOVEC, F. *Epipactis palustris* in Blaten area. (Cz) *Ziva* 16(2):58. Mar. 1968. 409.6 Z6
- 87145 MANNETJE, L. 'T. A comparison of eight numerical procedures applied to the classification of some African *Trifolium* taxa based on *Rhizobium* affinities. *Australian J. Bot.* 15(3): 521-528. Ref. Dec. 1967. 450 Au72
- 87146 MASON, R. The species of *Ruppia* in New Zealand. *New Zeal. J. Bot.* 5(4):519-531. Ref. Dec. 1967. 450 N48  
Includes new spp.
- 87147 MIZUSHIMA, M. Correction of my version on *Malaxis monophyllos* Sw. (Ja) *J. Jap. Bot.* 42 (11):23. Nov. 1967. 450 J8223
- 87148 MOLDENKE, H. N. Additional materials toward a monograph of the genus *Callicarpa*. VIII. *Phytologia* 16(3):216-218. Mar. 1968. 450 P563
- 87149 MOLDENKE, H. N. Additional materials toward a monograph of the genus *Callicarpa*. X. *Phytologia* 16(5):447-456. May 1968. 450 P563
- 87150 MOLDENKE, H. N. Additional notes on the genus *Verbena*. VII. *Phytologia* 16(3):183-215. Mar. 1968. 450 P563
- 87151 MORAN, R. Cardon [*Pachycereus pringlei*]. *Pacific Discovery* 21(2):2-9. Mar./Apr. 1968. 500 P112  
Mexico.
- 87152 MULLIGAN, G. A. Transfers from *Physaria* to *Lesquerella* (Cruciferae). *Can. J. Bot.* 46(5): 527-530. May 1968. 470 C16C
- 87153 MURAKAMI, N., and HAMADA, T. A study on the fruits and seeds of *Mucuna sempervirens* Hemsl. (Ja) *J. Jap. Bot.* 42(11):7-14. Nov. 1967. 450 J8223  
English summary.
- 87154 ODLOZILIKOVA-PACLOVA, L. On the occurrence of buttercup (*Ranunculus pygmaeus* Wahlb.) in High Tatras. (Cz) *Biologia [Bratislava]* 23(4):320-323, map. Ref. 1968. 442.8 B5265
- 87155 OI, J. A glabrous variety of *Lonicera strophophora* Franch. (Ja) *J. Jap. Bot.* 42(11):22-23. Nov. 1967. 450 J8223
- 87156 PICKERING, J. L., and FAIRBROTHERS, D. E. A serological and disc electrophoretic investigation of *Magnolia* taxa. *Torrey Bot. Club. Bull.* 94(6):468-479. Ref. Nov./Dec. 1967. 451 T63B
- 87157 POTUCEK, O. A new form of *Orchis militaris* L. (Ge) *Preslia* 40(1):64-67. Ref. 1968. 450 P92  
New for Leutra valley, near Jena.
- 87158 PSAREVA, E. N. New principles for the classification of *Nicotiana tabacum* L. (according to the initial material). (Bu) *Bulg. Tyutyun* 8/9:23-30. Ref. 1967. 69.8 B872  
Russian summary.
- 87159 ROBERTY, G. E. Logical analysis and angiospermic families. *New Phytol.* 67(2):349-364. 364. Apr. 1968. 450 N42
- 87160 RUDD, V. E. *Mimosa albida* and its varieties. *Phytologia* 16(5):435-441. May 1968. 450 P563
- 87161 SATAKE, Y. *Genshoku shizen no techo; no no hana* [Books of nature in color; flowers in the field]. Tokyo, Kodansha, 1967. 212 p. SB439.S3
- 87162 SAXENA, H. O. Some new combinations of plant names. *Indian Forest.* 93(12):798-799. Dec. 1967. 99.8 In2  
*Viburnum* and *Rubus* spp.
- 87163 SHAW, E. A. A new species of *Eremophila* from South Australia. *Roy. Soc. S. Australia Trans.* 91:111-114. Dec. 1967. 514 Ad3  
*Eremophila hillii*.
- 87164 SHISHNIASHVILI, R. M. Karyotypic analysis of *Pinus sosnowskyi* Nakai. (Rus) *Tsitologiya* 10(2):255-258. Feb. 1968. 442.8 T78  
English summary.  
Chromosome numbers in relation to taxonomy.
- 87165 SINCLAIR, J. A note on *Myriophyllum*. *Gard. Bull.* 22(2):229-230. Dec. 29, 1967. 22.5 St8  
Taxonomic.
- 87166 SINCLAIR, J. Notes on *Sapotaceae*. *Gard. Bull.* 22(2):213-228. Dec. 29, 1967. 22.5 St8  
Taxonomic.
- 87167 SOUREK, J. The genus *Pulsatilla* Mill. in Krkonose Mountains. (Cz) *Preslia* 40(1):76-79. Ref. 1968. 450 P92  
German summary.
- 87168 STEYERMARK, J. A., and MAGUIRE, B. Botany of the Chimanta massif. II. N. Y. Bot. Gard. Mem. 17(1):440-464. Dec. 22, 1967. 451 N48  
Spermatophyta of Venezuela; includes n.spp. in *Smilax*, *Myrica*, *Phthirusa*, *Phoradendron*, *Struthanthus*, *Magnolia*, *Dacryodes*, *Cupania*, *Matayba*, *Meliosma*, *Rhamnus*, *Daphnopsis*, *Passiflora*, *Didymopanax*, *Styrax*, *Symplocos*, *Lisianthus*, *Markea* and *Talisia*.
- 87169 STONE, B. C. Materials for a monograph of *Freycinetia* (Pandanaceae). I. *Gard. Bull.* 22 (2):129-152. Dec. 29, 1967. 22.5 St8  
Includes n. spp.
- 87170 TOWNSEND, C. C. A remarkable new species of *Chesneya* Lindl. (Leguminosae) from Afghanistan. *Kew. Roy. Bot. Gard. Kew Bull.* 21(2): 293-294. 1967. 451 K51B  
*Chesneya vesiculifera*.
- 87171 TUYAMA, T., and ASAI, Y. On the true status of *Erigeron canadensis* L. var. *levis* Makino. 1. *J. Jap. Bot.* 42(11):15-22. Nov. 1967. 450 J8223  
Taxonomy and nomenclature.
- 87172 VAN SCHAAK, G. B. *Narcissus*. V. *Mo. Bot. Gard. Bull.* 56(2):3-4. Mar./Apr. 1968. 451 M69B  
*Tulipa gesneriana*.
- 87173 VARGA, G. *Metasequoia glyptostroboides* Hu and Cheng. (Ge) *Int. Holzmarkt* 59(3):13-14. Feb. 15, 1968. 99.81 In82
- 87174 WALLACE, E. C., comp. Plant records. *Bot. Soc. Brit. Isles. Proc.* 7(2):195-199. Apr. 1968. 451 B658Pr  
New localities for vascular plants of Great Britain.
- 87175 WALTERS, S. M. *Betula* L. in Great Britain. (Condensed.) *Bot. Soc. Brit. Isles. Proc.* 7(2): 179-180. Apr. 1968. 451 B658Pr
- 87176 WILLIS, A. J., and KING, S. M. A broad-leaved variety of *Festuca rubra* L. *Bot. Soc. Brit. Isles. Proc.* 7(2):143-149. Ref. Apr. 1968. 451 B658Pr  
Chiefly taxonomy and morphology.
- 87177 WURDACK, J. J. *Certamen Melastomataceis*. XII. *Phytologia* 16(3):169-183. Mar. 1968. 450 P563  
Text in English.  
*Tibouchina inopinata*, n. sp. from Costa Rica, *Conostegia inusitata*, n. sp. from Peru and *Miconia* n. spp.
- 87178 ZAHRADNIKOVA-ROSETZKA, K. Geographic distribution of varieties of the genus *Callitriche* in Slovakia. (Cz) *Biologia [Bratislava]* 23(4):257-266. Ref. 1968. 442.8 B5265  
German summary.



- 87179 ZANDSTRA, I. I., and GRANT, W. F. The bio-systematics of the genus *Lotus* (Leguminosae) in Canada. I. Cytotaxonomy. *Can. J. Bot.* 46(5): 557-583, map. Ref. May 1968. 470 C16C

### Pteridophytes

- 87180 ALLEN, B. M. Malayan fern notes. V. *Gard. Bull.* 22(2):173-185. Dec. 29, 1967. 22.5 St8  
Taxonomic description.
- 87181 FAJMONOVA, E. *Thelypteris palustris* (S.F. Gray) Schott in northern part of White Carpathian Mountains. (Cz) *Biologia [Bratislava]* 23(4):324. 1968. 442.8 B5265
- 87182 NAIR, N. C. Nomenclature of some Indian ferns. *Indian Forest.* 94(2):169-170. Feb. 1968. 99.8 In2
- 87183 SLEDGE, W. A. The Hymenophyllaceae of Ceylon. *Linn. Soc. London. J. Bot.* 60(383):289-308. Feb. 1968. 451 L65J

### Bryophytes

- 87184 BAPNA, K. R. A new record of *Petalophyllum indicum* Kash. from western Ghats. *Cur. Sci.* 37(6):173-175. Mar. 20, 1968. 475 Sci23
- 87185 DUDA, J. A contribution to the knowledge of Hepaticae of Mongolia. (Ge) *Preslia* 40(1):100-101. 1968. 450 P92
- 87186 HOLMEN, K., and SCOTTER, G. W. *Sphagnum* species of the Thelon River and Kaminuriak Lake regions, Northwest Territories. *Bryologist* 70(4):432-437. Ref. Winter 1967. 450 B84
- 87187 LAWTON, E. *Grimmia occidentalis*, a new species from western North America. *Torrey Bot. Club. Bull.* 94(6):461-463. Nov./Dec. 1967. 451 T63B
- 87188 PAYNE, G. F., TAYLOR, J. E., and WHITMER, D. E. Distribution of dense clubmoss (*Selaginella densa* Rydb.) in Montana. *Mont. Agr. Exp. Sta. Circ.* 247, 6 p.-folder., map. Ref. 1967. 100 M76
- 87189 VITT, D. H. The Hepaticae of the Pickle Springs area, Southeastern Missouri. *Bryologist* 70(4):437-439. Winter 1967. 450 B84
- 87190 WALLER, W. T., and BASS, J. C. *Sphagnum cuspidatum* new to Kansas and Missouri. *Bryologist* 70(4):440. Winter 1967. 450 B84
- 87191 ZANDER, R. The New World distribution of *Scopelophila* (= *Merceya*). *Bryologist* 70(4):405-413. Ref. Winter 1967. 450 B84

### Algae

- 87192 BAKER, A. N. Algae from Lake Miers, a solar-heated Antarctic lake. *New Zeal. J. Bot.* 5(4):453-468. Ref. Dec. 1967. 450 N48
- 87193 CHAPMAN, V. J., and CAMERON, H. *Compsopogon* in New Zealand. *New Zeal. J. Bot.* 5(4):548-442. Dec. 1967. 450 N48
- 87194 DRUEHL, L. D. Taxonomy and distribution of northeast Pacific species of *Laminaria*. *Can. J. Bot.* 46(5):539-547. Ref. May 1968. 470 C16C
- 87195 RIETH, A. The *Ochromonas ornamentata* n.sp. (Ge) *Kulturpflanze* 15:139-149. Ref. 1967. 450 K95  
English summary.
- 87196 SKVORTZOV, B. V. Notes on the flagellata of Hongkong. *Gard. Bull.* 22(2):187-191. Dec. 29, 1967. 22.5 St8  
Includes n. spp. in *Chlorogonium*.
- 87197 VAIDYA, B. S. A note of record of *Compsopogon coeruleus* Mont. from Gujarat. *Cur. Sci.* 37(5):144. Mar. 5, 1968. 475 Sci23

### Fungi (Including Lichens)

- 87198 ASAHINA, Y. Lichenological notes 206. Occurrence of *Usnea undulata* Stirt. in Oceania and Pacific districts of Asia. *J. Jap. Bot.* 42(11): 1-6. Nov. 1967. 450 J8223
- 87199 AWASTHI, D. D., and AGARWAL, M. R. A new species of *Mycoblastus* from India. *Cur. Sci.* 37(3):84-85. Feb. 5, 1968. 475 Sci23  
*Mycoblastus indicum*.

- 87200 BECHET, M. Erysiphaceae (Mycophyta) of the nature reservation Cheile Turzii. (Rum) *Cluj. Univ. Babes-Bolyai. Stud. Ser. Biol.* 13(1):57-62. Ref. 1968. 442.9 C62  
French summary.
- 87201 BOEREMA, G. H., and JONG, C. B. DE. On the seed-borne Phoma species of *Valerianella* [locusta var. *oleracea*]. (Ge) *Phytopathol. Z.* 61(4):362-371. Apr. 1968. 464.8 P562  
English summary.  
*Phoma valerianellae* n. sp.
- 87202 BRODIE, H. J. The *Nidulariaceae* of Canada. *Can. Field-Natur.* 82(1):2-14. Ref. Jan.-Mar. 1968. 410.9 Ot8
- 87203 CHMELICEK, J. Poisonous fungi. (Cz) *Mykol. Sb.* 1/2:21. Mar./Apr. 1968. 450 C27
- 87204 CODOREANU, V., CIURCHEA, M., and BUR-LACU, L. Lichen flora and vegetation of siliceous rocks of Cozla, in the district Moldova Noua. (Rum) *Cluj. Univ. Babes-Bolyai. Stud. Ser. Biol.* 13(1):25-35. Ref. 1968. 442.9 C62  
French summary.
- 87205 CRISAN, A. A contribution to the study of mycoflora of Apuseni Mountains. (Rum) *Cluj. Univ. Babes-Bolyai. Stud. Ser. Biol.* 13(1):7-10. Ref. 1968. 442.9 C62  
French summary.
- 87206 CULBERSON, W. L. Recent literature on lichens. 64. *Bryologist* 70(4):441-443. Winter 1967. 450 B84
- 87207 DE FIGIO, D. A. Some resupinate Basidiomycetes found in Pennsylvania. *Ill. State Acad. Sci. Trans.* 61(1):94-95. 1968. 500 IL6
- 87208 DE LEON, P. P. A revision of the family Geastraceae. *Fieldiana. Bot.* 31(11/14):303-349. Ref. Feb. 22, 1968. 500 C432B
- 87209 DERMEK, A. A contribution to the study of Boletaceae of Zahorska plains and environs of Bratislava. (Cz) *Ceska Mykol.* 22(2):106-111. Ref. Apr. 1968. 450 C333  
English summary.
- 87210 DOMBROVSKAYA, A. V., and SHLYAKOV, R. N. Lishainiki i mkhi Severa Evropeiskoi chasti SSSR; kratkii opredelitel' [Lichens and mosses in the north of European part of USSR; a brief identification key]. Leningrad, Nauka, 1967. 182 p. Ref. QK590.R9D6
- 87211 EMBREE, R. W., and INDOH, H. *Aquamortierella*, a new genus in the Mucorales. *Torrey Bot. Club. Bull.* 94(6):464-467. Nov./Dec. 1967. 451 T63B  
Includes *A. elegans* n. sp.
- 87212 FIASSON, J. L., and BOUCHEZ, M. P. Chemo-taxonomical study of mushrooms; carotene content of *Omphalia chrysophylla*. (Fr) *Acad. Sci. C. R., Ser. D.* 266(13):1379-1381. Mar. 23, 1968. 505 P21
- 87213 FLEK, J. The *Gomphidius maculatus* (Scop.) Fr. (Cz) *Mykol. Sb.* 1/2:12. Mar./Apr. 1968. 450 C27
- 87214 FLEK, J. The *Pluteus pellitus* Pers. 1801. (Cz) *Mykol. Sb.* 1/2:11. Mar./Apr. 1968. 450 C27
- 87215 FUNK, A. *Coccomyces heterophyllae* n. sp., a hypodermataceous fungus from the periderm of western hemlock [*Tsuga heterophylla*]. *Can. J. Bot.* 45(12):2263-2266. Dec. 1967. 470 C16C
- 87216 FUNK, A. *Diaporthe lokoyae* n. sp., the perfect state of *Phomopsis lokoyae*. *Can. J. Bot.* 46(5):601-603. May 1968. 470 C16C  
In association with *Pseudotsuga menziesii* and *Tsuga heterophylla*.
- 87217 GRIFFIN, H. D. The genus *Ceratocystis* in Ontario. *Can. J. Bot.* 46(5):689-718, map. Ref. May 1968. 470 C16C  
Includes n. spp.
- 87218 HALE, M. E. New taxa in *Cetraria*, *Parmelia*, and *Parmeliopsis*. *Bryologist* 70(4):414-422, map. Winter 1967. 450 B84  
Includes n. spp. in *Cetraria* and *Parmelia*.
- 87219 HANUS, L. An interesting finding of *Amanita viridis*. (Cz) *Mykol. Sb.* 1/2:21-22. Mar./Apr. 1968. 450 C27  
German summary.

- 87220 HANUS, L. The *Psathyrella hydrophylla* Mre. (Cz) Mykol. Sb. 1/2:12-13. Mar./Apr.1968. 450 C27
- 87221 HUGHES, S. J. New Zealand fungi. 10. *Acrogenotheca elegans*. New. Zeal. J. Bot. 5(4):504-518. Ref. Dec.1967. 450 N48
- 87222 JEZEK, B. Notes on the identification of fungi. (Cz) Mykol. Sb. 1/2:7-9. Mar./Apr.1968. 450 C27
- 87223 KENDRICK, W. B., COLE, G. T., and BHATT, G. C. Conidium ontogeny in Hyphomycetes; *Gonatobotryum apiculatum* and its botryose blastospores. Can. J. Bot. 46(5):591-596. Ref. May 1968. 470 C16C  
Taxonomic study.
- 87224 KOTLABA, F., and POUZAR, Z. *Leucopaxillus lepistoides* (R. Maire) Sing. in Czechoslovakia. (Cz) Ceska Mykol. 22(2):95-104. Apr.1968. 450 C333  
English summary.
- 87225 KOTLABA, F., and POUZAR, Z. *Tyromyces balsameus* (Peck) Murrill in Bohemia. (Cz) Ceska Mykol. 22(2):121-128, map. Apr.1968. 450 C333
- 87226 LENTZ, M. E., and LENTZ, P. L. The National Fungus Collection. BioScience 18(3):194-200. Mar.1968. 500 Am322  
At the Mycology Investigation Unit, Crops Protection Research Branch, Crops Research Division, Agricultural Research Serv., U. S. D. A. in Beltsville.
- 87227 MCNABB, R. F. R. The Strobilomycetaceae of New Zealand. New Zeal. J. Bot. 5(4):532-547. Ref. Dec.1967. 450 N48  
Includes new spp. in *Porphyrellus*.
- 87228 OVERHOLTS, L. O. The Polyporaceae of the United States, Alaska, and Canada. Ann Arbor, 1967. 466 p. (Michigan. University. Studies; scientific series, v. 19) QK629.P708 1967  
Bibliography, p.431-444.  
Includes wood-destroying spp.  
Reprint of 1953 ed. with new foreword.
- 87229 PARMELEE, J. A. The autoecious species of *Puccinia* on *Heliantheae* in North America. Can. J. Bot. 45(12):2267-2327. Ref. Dec.1967. 470 C16C  
Includes n. spp.
- 87230 PEBERDY, J. F., and TURNER, M. The esterases of *Mortierella ramanniana* in relation to taxonomy. J. Gen. Microbiol. 51(2):303-312. Ref. Apr.1968. 448.3 J824
- 87231 PILAT, A. *De agarico velenovskyi* sp. nov. [= *Agaricus meleagris* var. *nigricans* (Velen.) Pilat 1951]. Ceska Mykol. 22(2):81-86. Apr. 1968. 450 C333
- 87232 PILAT, A. *De collecto novo Leucopaxilli alboalutacei* (Moller) Moller in Bohemia. Ceska Mykol. 22(2):105. Apr.1968. 450 C333
- 87233 PONNAPPA, K. M., and RAJ, T. R. N. A new record of *Chaetomella circinoseta* for India. Cur. Sci. 37(5):147. Mar.5,1968. 475 Sci23
- 87234 ROMAGNESI, H. A European species, new in the Madagascar section of *Archaeinae* Heim, *Russula camarophylla* Romagn., n. sp. (Fr) Soc. Linn. Lyon. Bull. Mens. 37(3):104-108. Mar.1968. 505 L992B
- 87235 SAVILE, D. B. O. Species of *Puccinia* attacking *Veronicaeae* (Scrophulariaceae). Can. J. Bot. 46(5):631-642, map. Ref. May 1968. 470 C16C  
Includes n. spp.
- 87236 SEDIVY, J. *Leucocoprimus brinbaumii* (Corda) in doctor's study. (Cz) Mykol. Sb. 1/2:9-10. Mar./Apr.1968. 450 C27
- 87237 SMOTLACHA, H. A survey of fungi. (Cz) Mykol. Sb. 1/2:1-6. Mar./Apr.1968. 450 C27
- 87238 SVRCEK, M. *Galactinia moravecii* n.sp., a new species from Czechoslovakia. Ceska Mykol. 22(2):90-92. Apr.1968. 450 C333
- 87239 SVRCEK, M., and MORAVEC, J. *Helvella* (*Leptopodia*) *branzeziana* n.sp., a new species from Bohemia. (Ge) Ceska Mykol. 22(2):87-89. Apr.1968. 450 C33
- 87240 SZASZ, E., and MOCAN, S. Mycofloristic studies in the environs of the community Albac. (Rum) Cluj. Univ. Babes-Bolyai. Stud. Ser. Biol. 13(1):45-50. Ref. 1968. 442.9 C62  
French summary.
- 87241 UBRIZSY, G. Review of the mycoflora of Hungary. Acta Phytopathol. 3(1):73-138. 1968. SB731.A3
- 87242 VERONA, O., and BENEDEK, T. Iconographia mycologica. XX. Mycopathol. Mycol. Appl., Dec.18,1967(sup.), 50 plates. 450 M994 Suppl.
- 87243 WICHANSKY, E. The Czechoslovak species of the genus *Arcyria* (Myxomycetes). (Cz) Ceska Mykol. 22(2):129-145. Apr.1968. 450 C333  
English summary.

## WEEDS AND POISONOUS PLANTS

- 87244 ALPIN, T. E. H. Poison plants in the West Midlands. West. Australia. Dep. Agr. J. (ser.4) 9(1):24-26. Jan.1968. 23 W52J  
Toxic to livestock.
- 87245 HULSENBERG, C. Preliminary results concerning the influence of weeds on crop losses in some vegetable crops. (Ge) Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz. Sonderheft 4:55-60. 1968. 464.8 Z33  
English summary.
- 87246 HYDE-WYATT, B. H. Cotton thistle [*Onopordum acanthium*]. Tasmanian J. Agr. 39(1):43-45. Feb.1968. 23 T182T  
Weed.
- 87247 KERR, C. F. Turf enemy No.1. *Poa annua*. Weeds Trees Turf 7(3):13-16, 43. Mar.1968. 79.8 W413
- 87248 NEWCOMER, J. L., and PAROCHETTI, J. V. Noxious weeds in Maryland. Md. Univ. Ext. Ext. Bull. 221, 11 p. Jan.1968. 275.29 M36B
- 87249 NORTH, P. M. Poisonous plants and fungi in colour. London, Blanford Press, 1967. 161 p. Ref. QK100.G7N6  
The Pharmaceutical Society of Great Britain, cooperating.
- 87250 WEED SCIENCE SOCIETY OF AMERICA. Abstracts, 1968 meeting, New Orleans, Louisiana, February 5-8, 1968. n. p., 1968. 241 W41  
--

## Weeds - Biology

- 87251 BACHTHALER, G. Development of field weeds in relation to changed cultural methods. II. Investigations on the spread of grassy weeds and their control. (Ge) Z. Acker- Pflanz. 127(4):327-358. May 1968. 18 J825  
English summary.  
Bibliography, p.354-358.
- 87252 DANCAU, B., and BACHTHALER, G. Ecological and agricultural observations of the weed flora in crop rotation trials in four field crop sites in southern Bavaria (preliminary report). (Ge) Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz. Sonderheft 4:37-53. 1968. 464.8 Z33  
English summary.
- 87253 DEUTSCHE ARBEITSBESPRECHUNG UBER FRAGEN DER UNKRAUTBIOLOGIE UND BEKAMPFUNG, 7. STUTTGART-HOHENHEIM, 1968. Ergebnisse [Results of the German Working Conference on Problems of Weed Biology and Control], edited by B. Rademacher and W. Koch. Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz. Sonderheft 4, 278 p. Ref. 1968. 464.8 Z33  
English summaries.
- 87254 HAFNER, K. On the effect of varying strength in competition of *Sinapis alba* or *Galium aparine* on grain. (Ge) Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz. Sonderheft 4:75-77. 1968. 464.8 Z33
- 87255 HANF, M. Influence of unwanted grasses on grain yields. (Ge) Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz. Sonderheft 4:61-70, map. 1968. 464.8 Z33  
English summary.  
*Avena fatua*, *Alopecurus myosuroides*, and *Apera spica-venti*.



- 87256 KEES, H. Competition between silky bentgrass (*Apera spica-venti* P. B.) and winter wheat (southern Bavaria test results 1962-1967). (Ge) Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz. Sonderheft 4:71-74. 1968. 464.8 Z33 English summary.
- 87257 KOCH, W., and KOCHER, H. The importance of nutrient factors in the competition between crop plants and weeds. (Ge) Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz. Sonderheft 4:79-86. Ref. 1968. 464.8 Z33 English summary.
- 87258 MULLER, F., and OZER, Z. Translocation of C14-labelled MCPA and metabolism of reserves in *Cirsium arvense*. (Ge) Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz. Sonderheft 4:119-129. Ref. 1968. 464.8 Z33 English summary.
- 87259 NIETO H., J., BRONDO, M. A., and GONZALEZ, J. T. Critical periods of the crop growth cycle for competition from weeds. PANS (Pest Articles News Sum.) Sect. C, Weed Contr. 14(2):159-166. June 1968. 79.9 C792 Tests with corn and beans.
- 87260 POWELL, J. M. Natural infection of Scots Pine [*Pinus sylvestris*] by lodgepole pine dwarf mistletoe [*Arceuthobium americanum*] in Canada. Plant Dis. Rep. 52(5):409-410. May 1968. 1.9 P69P

### Weed Control

- 87261 BEILIN, I. G. Bor'ba s povilikami i zarazikhami [Control of *Cuscuta* and *Orobancha*]. Moskva, Kolos, 1967. 87 p. SB615.D6B4
- 87262 DE BEER, H. P. J., and VAN RENSBURG, P. H. J. J. Intrusive plants in the Highveld region. Farming S. Afr. 43(10):31-32. Jan. 1968. 24 S842 Pasture weed control.
- 87263 DVORAK, J. Holcus mollis, a dangerous weed of field crops in mountain areas. (Cz) Uroda 16(5):195-197. May 1968. 64.8 Z12 Includes control.
- 87264 FRIESEN, G. Weed control in forage crops. Can. Cattlemen 31(5):9. May 1968. 49 C16
- 87265 JURGENS-GSCHWIND, S. Wild oats—the "black devil" threatens the field! (Ge) Mitt. Landwirt.-Ges. 83(14):468,470,472, map. Apr. 4, 1968. 18 N39 Avena fatua and its control.
- 87266 KUNZ, R. The economic importance of early weed control in grain. (Ge) Grune 96(9):290-296. Mar. 1, 1968. 17 Sch9 Switzerland.
- 87267 LITTLE, E. C. S. The Garden of Eden concept: Agriculture in a weed-free environment. PANS (Pest Articles News Sum.) Sect. C, Weed Contr. 14(2):107-108. June 1968. 79.9 G792
- 87268 LITTLE, E. C. S. Tology—the science of weed research and control. II. PANS (Pest Articles News Sum.) Sect. C, Weed Contr. 14(2):116-117. June 1968. 79.9 G792
- 87269 MUHLETHALER, P., and MEIER, L. Weed control in potato culture. (Ge) Grune 96(16):562-563. Apr. 15, 1968. 17 Sch9 Switzerland.
- 87270 WAX, L. M., and MCWHORTER, C. G. Prescription for weed control. Soybean Dig. 28(4):12-15. Feb. 1968. 60.38 So9
- 87271 ABBASOV, YA. M. Dates for application of TCA. (Rus) Khlopkovodstvo 4:20-21. Apr. 1968. 72.8 K522 Cotton weed control.
- 87272 ABRAMOV, N. G. Herbicides on flax crops. (Rus) Zashch. Rast. 5:33-34. 1968. 421 Z1 MCPA and TCA used.
- 87273 ANDERSEN, A. H. The inactivation of simazine and linuron in soil by charcoal. Weed Res. 8(1):58-60. Mar. 1968. 79.8 W412
- 87274 BALUCH, A. A., SOOMRO, S. K., and CHANDIO, D. B. A preliminary note on the chemical control of monocot weeds. West Pakistan J. Agr. Res. 6(1):127-129. Mar. 1968. 22 W52
- 87275 BALUCH, A. A. A., SOOMRO, S. K., and CHANDIO, D. B. Use of plant hormones for increased production and weed control. West Pakistan J. Agr. Res. 6(1):113-117. Mar. 1968. 22 W52
- 87276 BALUCH, M. A. A., and SOOMRO, S. K. Note on the effect of U-46 and gramoxone weedicides on the rabi weeds of Hyderabad region. West Pakistan J. Agr. Res. 6(1):125-126. Mar. 1968. 22 W52 Wheat.
- 87277 BARTELS, and SPIESS, C. F. Chemical weed control in grape production. (Ge) Chem. Tech. Landwirt. 19(5):182-185. May 1968. 384 C4292
- 87278 BASKANOV, YU., and MEL'NIKOV, I. A. New herbicides—derivatives of s-triazine. (Rus) Khim. Sel'skom Khoz. 6(1):46-51. Jan. 1968. 385 K524
- 87279 BAYER, G. H. Weed control in corn for 1968. Agway Coop. 4(3):24-25. Apr. 1968. 280.28 Ag9 Chemical.
- 87280 BELL, A. R., and others. Variations in shape of perennial sowthistle [*Sonchus arvensis*]. N. Dak. Farm Res. 25(4):6-7. Mar./Apr. 1968. 100 N813B J. D. Nalewaja, A. B. Schooler, and S. Alam, joint authors.
- 87281 BOER, W. DEN. Tips for Tenoran for tomatoes and cucumbers. (Du) Groenten Fruit 23(37):1683. Mar. 27, 1968. 80 G89 Includes application.
- 87282 BRADY, K. Cotoran - a new herbicide against unwanted grasses in grain. (Ge) Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz. Sonderheft 4:257-264. 1968. 464.8 Z33 English summary.
- 87283 BRAY, W. E. Herbicides in sugar beet production. Great Brit. Min. Agr. Fish. Food. Agr. 75(2):71-75. Feb. 1968. 10 G79J
- 87284 BRIQUET, M., and others. Study of translocation of 2,4-dichlorophenoxybutyric acid-1-14C in *Phaseolus vulgaris* L. I-II. (Fr) Weed Res. 8(1):61-67. Ref. Mar. 1968. 79.8 W412 G. Scheller, E. Crevecoeur, and A. Wiaux, joint authors.
- 87285 BYLTERUD, A. Control of weeds in a timothy seed meadow should start in the planting year. (No) Norsk Landbruk 9:8-9. Mar. 3, 1968. 11 N8122 Chemical control.
- 87286 BYLTERUD, A. Should we quit using dinitro compounds? (No) Norsk Landbruk 7:20-21, 34. Apr. 5, 1968. 11 N8122 In weed control.
- 87287 BYLTERUD, A. 2,4-dichlorophenyl-4-nitrophenyl ether, a new preparation for the control of weeds in turnips. (No) Norsk Landbruk 9:13. Mar. 3, 1968. 11 N8122
- 87288 CHKANIKOV, D. I., MAKEEV, A. M., and PAVLOVA, N. N. To the problem of selective herbicidal effect of 2,4-D. (Rus) Khim. Sel'skom Khoz. 6(1):41-43. Ref. Jan. 1968. 385 K524 Tested on different plants.
- 87289 CHUNDEROVA, A. I., SOFINSKII, A. M., and ZUBETS, T. P. Toxicity of herbicides to soil microorganisms under sugar beet crops. (Rus) Khim. Sel'skom Khoz. 6(4):40-42. Apr. 1968. 385 K524
- 87290 DARTER, I. E. Weed control with paraquat in plantation crops. Outlook Agr. 5(5):208-214. Ref. 1968. 10 O8
- 87291 DOROSHENKO, E. I., and YATSUYUK, A. F. Effect of S-triazine on yields and quality of lupine, grown for feed. (Rus) Khim. Sel'skom Khoz. 6(2):40-41. 1968. 385 K524
- 87292 DERYABIN, V. I., and AZIMBEGOV, N. Effect of small quantum of 2,4-D on cotton. (Rus) Khim. Sel'skom Khoz. 6(3):42-44. Mar. 1968. 385 K524
- 87293 DOHERTY, P. F., and CASSIDY, F. C. Linuron—a new herbicide for peas. Farm Res. News 9(1):18. Jan./Feb. 1968. 10.5 F223 Ireland.

- 87294 DVORAK, J. The control of weeds in straw-berry stands. (Cz) *Zahradnicke Listy* 61(4): 107. 1968. 80 Z12  
With simazine, tenoran and gramoxone.
- 87295 DVORAK, J. The influence of simazine on shoot and root growth of apples and plums. *Weed Res.* 8(1):8-13. Mar.1968. 79.8 W412
- 87296 DVORAK, J. The use of herbicides in nurseries. (Cz) *Zahradnicke Listy* 61(3):72-73. 1968. 80 Z12  
Simazine in fruit nurseries.
- 87297 EIDEL'NANT, N. M., and DEMURINA, A. K. Effect of 2,4-D on oxidative phosphorylation of various plants. (Rus) *Biokhimiya* 33(1):77-82. Ref. Jan./Feb.1968. 385 B523  
English summary.
- 87298 ELENKOV, E., and others. Preparation Aresin and its use for control of weeds in bean fields. (Bu) *Rast. Zashch.* 16(1):23-28. 1968. 423.92 So2  
P. Surlekov, V. Rankov, and B. Velez, joint authors.
- 87299 ELMORE, C. L., HUMPHREY, W. A., and KRETCHUM, T. Pre-emergence weed control in ground cover plantings. *Agrichem. West* 11(5):9-10. May 1968. 381 Ag85
- 87300 EUE, L. Bidisin<sup>R</sup> - a new herbicide to control wild oats [*Avena fatua*]. (Ge) *Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz. Sonderheft* 4:211-214. 1968. 464.8 Z33  
English summary.
- 87301 EVANS, S. Potatoes and herbicides. *Great Brit. Min. Agr. Fish. Food. Agr.* 75(2):55-58. Feb.1968. 10 G79J
- 87302 EVSIKOV, V. D. Application of herbicides to rice crops. (Rus) *Zashch. Rast.* 5:12-13. 1968. 421 Z1
- 87303 FEDOROV, V. G. Application of TCA and 2,4-D to potato crops. *Khim. Sel'skom Khoz.* 6(3): 40-41. Ref. Mar.1968. 385 K524
- 87304 FEYERABEND, G. Directions for application of herbicides to Beta beets. (Ge) *Feldwirtschaft* 9(3):118-121. Mar.1968. 18 W763
- 87305 FISCHER, A. New post-emergence herbicides for potatoes. (Ge) *Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz. Sonderheft* 4:227-232. 1968. 464.8 Z33  
English summary.
- 87306 FREI, R. W., and NOMURA, N. S. A comparison of new techniques for the detection and quantitative determination of triazine herbicides separated by thin-layer chromatography. *Mikrochim. Acta* 3:565-573. 1968. 384 M58
- 87307 FRIESSLEBEN, G. Uvon-Kombi in potatoes with decreased care. (Ge) *Feldwirtschaft* 9(4): 168-170. Apr.1968. 18 W763  
Active ingredient prometryne for weed control.
- 87308 GIZBULLIN, N. G., ABSATTAROV, KH. S., and SOLOV'EVA, E. P. Results of testing herbicides on sugar beet crops, under conditions of the Bashkir ASSR. (Rus) *Khim. Sel'skom Khoz.* 6(1):34-37. Jan.1968. 385 K524  
Includes effect of herbicides on soil bacteria.
- 87309 GRUNZEL, H. Brief plant protection science 1/1968. (Ge) *Feldwirtschaft* 9(1):38-39. Jan.1968. 18 W763  
Herbicides.
- 87310 GUNDERSON, R. R. Herbicides: economic tools in railroad vegetation control. *Agr. Chem.* 23(5):23-24. May 1968. 381 Ag8
- 87311 HAMAKER, J. W., YOUNGSON, C. R., and GORING, C. A. I. Rate of detoxification of 4-amino-3,5,6-trichloropicolinic acid in soil. *Weed Res.* 8(1):46-57. Ref. Mar.1968. 79.8 W412
- 87312 HAMANN, W. Brief plant protection science 3/1968. (Ge) *Feldwirtschaft* 9(3):137. Mar. 1968. 18 W763  
Herbicides.
- 87313 HARDCASTLE, W. S., and WILKINSON, R. E. Enhancement of postemergence herbicide applications in cotton with phytobland oil. *Ga. Agr. Exp. Sta. Res. Rep.* 25,10 p. Apr.1968. S51.E22  
Oil is 98% paraffinic.
- 87314 HEUVER, M. Chemical weed control in potatoes. (Du) *Loonbedrijf Land- Tuinbouw* 21(4): 291-293,295. Apr.1968. 283.8 L87
- 87315 HIEBEL, K. Possibilities of weed control in wheat with atrazine, with special consideration to the control of *Agropyron repens*, *Avena fatua* and established weeds. (Ge) *Gesunde Pflanzen* 20(4):89-91. Apr.1968. 464.8 G33
- 87316 HOCOMBE, S. D. The uptake of atrazine by germinating seeds of turnip (*Brassica rapa* L.). *Weed Res.* 8(1):68-71. Mar.1968. 79.8 W412
- 87317 HOHENER, H., HENAUER, A., and TRIGINE, H. Results of field research with a new selective grain herbicide for control of weeds and annual seed weeds. (Ge) *Schweiz. Landwirt. Monatsh.* 46(2):68-81. Feb.1968. 17Sch93
- 87318 HYAKUTAKE, H., and others. On the use of low toxic herbicides in paddy field. 14 p. Transl. 16690  
T. Inoue, S. Chikura, and S. Kojo, joint authors.  
Translation from Fukuoka Agricultural Experimental Station. Report 2. n.d.
- 87319 INDIANA, AGRICULTURAL EXPERIMENT STATION. Inspection of herbicides in Indiana for calendar year 1966. *Ind. Agr. Exp. Sta. Insp. Rep.* 66,10 p. May 1967. 280.39 In22
- 87320 IVANENKO, A. S. Effect and aftereffect of 2,4-D on spring wheat. (Rus) *Khim. Sel'skom Khoz.* 6(4):37-39. Apr.1968. 385 K524  
Abnormalities.
- 87321 JIRATKO, J. Zmeny plevelne flore nasledkem pouzivani herbicidu; studijna zprava [Changes in weed flora caused by the application of herbicides; reviews]. Praha, Ustredi Zemedelskeho a Potravinarskeho Vyzkumu, 1968. 63 p. Ref. SB599.S8  
English summary.
- 87322 JOOSTE, J. VAN DER W. An analysis of chemical weed control. *Farming S. Agr.* 43(10):45, 47. *Farming S. Afr.* 43(10):45,47-48. Jan. 1968. 24 So842  
Change in cultivation of vegetables.
- 87323 JUDEL, G. K., and KURTEN, P. W. Results of tests with neburon to control field foxtail [*Alopecurus myosuroides*] and windgrass [*Apera spica-venti*] in winter wheat. (Ge) *Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz. Sonderheft* 4:265-273. Ref. 1968. 464.8 Z33  
English summary.
- 87324 KABERSCH, W. Results of application of mecoprop to potatoes in the 1st and 2nd generations. (Ge) *Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz. Sonderheft* 4:137. 1968. 464.8 Z33  
English summary.  
Deformation and loss in yields.
- 87325 KAMPE, W. Control of *Avena fatua* L. in winter wheat and Beta beets with the phenylcarbonic acid derivative Bidisin. (Ge) *Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz. Sonderheft* 4:215-219. 1968. 464.8 Z33  
English summary.  
Sugar beets and fodder beets.
- 87326 KAMPE, W. TCA against *Avena fatua* in beets. (Ge) *Nachrichtenbl. Deut. Pflanzenschutzdienstes* 20(1):12-14. Jan.1968. 442.9 B832  
English summary.  
Pre-sowing use.
- 87327 KATES, A. H. Control of curled and musk thistle [*Carduus acanthoides* and *C. nutans*] with 2, 4-D. *Va. Polytech. Inst. Ext. Leaf.* 328,4 p., map. Jan.1968. 275.29 V81L
- 87328 KATES, A. H. 1968 herbicide recommendations; weed control in peanuts. *Va. Polytech. Inst. Ext. Leaf.* 234,rev.,2 p. Apr.1968. 275.29 V81L
- 87329 KEES, H., and WENDLAND, E. J. Joint control of *Apera spica-venti* and broadleaf weeds in winter wheat by the application of herbicides in soil. (Results of experiments in Upper Bavaria 1965-1967). (Ge) *Gesunde Pflanzen* 20(4):80-84. Apr.1968. 464.8 G33
- 87330 KOLESHNIKOV, V. A. Applying herbicides to vegetables. (Rus) *Khim. Sel'skom Khoz.* 6(4): 71-74. Apr.1968. 385 K524



- 87331 KRASHENNIKOV, N. N., and NIKITINA, G. V. Application of prometryne to pea crops. (Rus) Khim. Sel'skom Khoz. 6(2):32-33. 1968. 385 K524
- 87332 KRUSTEVA, M., VULEVA, R., and ZHELEV, I. Use of simazine for control of weeds in fruit bearing peach orchards. (Bu) Rast. Zasht. 16 (4):31-34. 1968. 423.92 So2
- 87333 KURTH, H. Destruction of weeds difficult to control in grain and in grassland with SYS67 PROP and SYS 67 MPROP. (Ge) Feldwirtschaft 9(3):128-129. Mar.1968. 18 W763  
Containing 2,4-DP and CMPP, respectively.
- 87334 KVITKO, G. P. Effectiveness of herbicides applied to weeds on soybean crops. (Rus) Khim. Sel'skom Khoz. 6(2):42-44. 1968. 385 K524
- 87335 LADONIN, V. F., and VOEVODIN, A. V. Applying herbicides to grain crops. (Rus) Khim. Sel'skom Khoz. 6(4):66-68. Apr.1968. 385 K524
- 87336 LEONARD, O. A., and MCCASKILL, B. J. Chamise (*Adenostoma fusciculatum*). Weeds Trees Turf 7(3):40. Mar.1968. 79.8 W413  
Chemical control.
- 87337 LESAK, J. Herbicides for fodder cabbage. (Cz) Uroda 16(4):157-158. Apr.1968. 64.8 Z12
- 87338 LINDEGAARD, J. Chemical weed control in the spring. (Da) Landbonyt 22(4):149-150,152-153. Apr.1968. 11 L2322
- 87339 LINDEGAARD, J. Possibilities for the control of weeds in spring grain. (Da) Landbonyt 22(5):205,207-208. May 1968. 11 L2322  
Chemical control.
- 87340 LUMB, J. M. Selective chemical control of *Amsinckia* species in wheat. Australian J. Exp. Agr. Anim. Husb. 8(30):94-100. Ref. Feb.1968. 23 Au792
- 87341 LYUBENOV, YA. More efficient control of weeds in corn plots by means of combined herbicides. (Bu) Rast. Zasht. 16(5):27-32. 1968. 423.92 So2
- 87342 MAAS, G. On chemical weed control in herbs and drug plants. (Ge) Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz. Sonderheft 4: 103-106. 1968. 464.8 Z33  
English summary.
- 87343 MANI, V. S. GAUTAM, K. C., and CHAKRABORTY, T. K. Losses in crop yield in India due to weed growth. PANS (Pest Articles News Sum.) Sect. C, Weed Contr. 14(2):142-158. Ref., p.153-156. June 1968. 79.9 G792  
Includes reports of chemical weed control tests.
- 87344 MATOLCSY, G., and GOMAA, E. A. A. The herbicidal effect of some  $\alpha$ -hydroxy- $\beta$ , $\gamma$ -trichloroethylamino-1,2,4-triazoles. Weed Res. 8(1):1-7. Ref. Mar.1968. 79.8 W412
- 87345 MCGLOMERY, M. Kill weeds in soybeans— with herbicides, plus rotary hoe and row cultivator; select the herbicide which will give the best control on your farm. Hoard's Dairyman 113(10):643,657. May 25,1968. 44.8 H65
- 87346 MEARS, A. D. Trouble in wild oat [*Avena fatua*] control. Agr. Gaz. New S. Wales 79(4): 194-198. Apr.1968. 23 N472  
Chemical control.
- 87347 MEYER, J., and HADENFELDT, P. The control of tufted hair-grass (*Deschampsia caespitosa*). (Ge) Gesunde Pflanzen 20(4):75-79. Apr.1968. 464.8 G33  
With paraquat.
- 87348 MIKALYUNENE, V. Effects of continuous application of herbicides on composition of the weed species on flax crops. (Rus) Khim. Sel'skom Khoz. 6(1):44-45. Jan.1968. 385 K524
- 87349 MILASHCHENKO, N. Z., and KHOLMOV, V. G. Improvement of the flood plain pastures with herbicides. (Rus) Khim. Sel'skom Khoz. 6(1): 37-40. Jan.1968. 385 K524  
2,4-D, MCPB and 2-(2-methyl-4-chlorophenoxy) propionic acid used.
- 87350 MILLER, J. F., and others. Weed control in field crops, 1968. Ga. Univ. Ext. Circ. 408, rev., 12 p.-folder. Jan.1968. 275.29 G29C  
J. F. McGill, W. H. Gurley, J. E. Jackson, J. E. Jernigan, and J. R. Johnson, joint authors. Chemical.
- 87351 MILLER, J. F., SPIVEY, C. D., and LIVINGSTON, R. L. Weed control in fruit crops, 1968. Ga. Univ. Ext. Circ. 569, rev., 8 p.-folder. Jan. 1968. 275.29 G29C  
Chemical.
- 87352 MILLER, J. F., and others. Weed control in vegetable crops, 1968. Ga. Univ. Ext. Circ. 544, rev., 8 p.-folder. Jan.1968. 275.29 G29C  
J. M. Barber, D. A. Hegwood, and R. L. Livingston, joint authors. Chemical.
- 87353 MILOV, M. Testing herbicides on carrot crops. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 2: 146. Feb.1968. 20 V633  
Trifluralin, dinoben and linuron.
- 87354 MONSTVILAITE, YA. YU. Controlling weeds of lupine, grown as monoculture and mixed with corn. (Rus) Khim. Sel'skom Khoz. 6(2):34-35. 1968. 385 K524  
Several herbicides tested.
- 87355 MUKHERJI, S. K. Chemical control of algae in West Bengal paddy fields. World Crops 20(1): 54-55. Mar.1968. 281.8 W892
- 87356 NEURURER, H. Timely weed control in horticulture. (Ge) Pflanzenarzt. 21(4):51-58. Apr.1,1968. 464.9 P482  
Chemical control.
- 87357 NIKOVOLA, G. Trials with chemical weed control in black currant *Ribes nigrum* l. var. *Auropeum*. (Bu) Gradinar. Lozar. Nauk. 4(5):27-35. Ref. 1967. 87 G75  
English summary.  
Simazine and strazine.
- 87358 NOVAKOVA, V. The application of herbicides in weed control of vegetables in 1968. (Cz) Zahradnicke Listy 61(3):70-71. 1968. 90 Z12
- 87359 ORTH, H. Herbicides in vegetable culture. (Ge) Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz. Sonderheft 4:97-101. Ref. 1968. 464.8 Z33  
English summary.  
Germany.
- 87360 ORTH, H. Status and tendencies in the development of chemical weed control. (Ge) Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz. Sonderheft 4:23-28. Ref. 1968. 464.8 Z33  
English summary.
- 87361 PALATINUS, L. On the problem of the application of zeazine in the weed control of corn grown under conditions of irrigation. (Cz) Czech. Min. Zemedel. Les. Hospodar. Ustav Vedeckotech. Inform. Rostlinna Vyroba 41(1): 115-124. Ref. Jan.1968. 64.9 C33  
English summary.
- 87362 PATZOLD, C. The effects of application of growth regulators and herbicides in potatoes on the properties of the potato tubers. (Ge) Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz. Sonderheft 4:131-136. Ref. 1968. 464.8 Z33  
English summary.
- 87363 RADEMACHER, B. Thoughts on further development in weed research and weed control. (Ge) Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz. Sonderheft 4:11-22. 1968. 464.8 Z33  
English summary.  
With herbicides.
- 87364 RAWSON, J. E. Keep on top of winter weeds. Queensland Agr. J. 94(3):150-153. Mar.1968. 23 Q33  
Chemical control.
- 87365 ROSIER, G. By controlling weeds with herbicides and by using machinery, beet spacing is simplified. U I (Utah-Idaho) Cult 28(1):30-31. Spring 1968. 66.8 U12  
Sugar beets.

- 87366 RUBIN, S. S., and ORITSAENKO, Z. M. Effect of 2,4-D on anatomical structure of some plants. (Rus) Bot. Zhur. [Moscow] 53(3):377-378. 1968. 451 R923
- 87367 RUZINSKY, K. Tests with herbicides on small plots. (Cz) Les [Bratislava] 24(5):201-204. 1968. 99.8 L5632  
Forest plots.
- 87368 SANNIKOV, G. P., and ZVORYKINA, L. B. Controlling brush with arboricides during the winter period. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 2:25-32. Ref. Feb. 1968. 20 V633  
English summary.  
2,4-D and 2,4,5-T used.
- 87369 SARANIN, K. I., and VEKSHIN, B. S. Applying herbicides to mixed crops of corn and broadbeans. (Rus) Khim. Sel'skom Khoz. 6(2):36-40. 1968. 385 K524  
Several herbicides tested.
- 87370 SCHALL, E. D., and RUND, R. C. Registration and inspection of herbicides, 1967. Ind. Agr. Exp. Sta. Insp. Rep. 71,15 p. 1967. 280.39 In22
- 87371 SCHIRARD, J. B. Herbicides used to control perennial grasses. Citrus Indus. 49(5):14-17. May 1968. 80 C49  
Citrus weed control.
- 87372 SCHNEBLE, H. Application technique of granulates for chemical weed control in forestry. (Ge) Forst- Holzwirt 23(5):86-91. Mar. 8, 1968. 99.8 F7724
- 87373 SEVAST'YANOVA, M. I., and ZHEMOITS, A. A. Effect of increased dosage of herbicides on the root system of carrots. (Rus) Khim. Sel'skom Khoz. 6(4):34-36. Ref. Apr. 1968. 385 K524
- 87374 SIMON, J. The care of legumes from the point of new knowledge. (Cz) Uroda 16(4):138-140. Apr. 1968. 64.8 Z12  
Weed control with Gesagard.
- 87375 SIPOS, L. Control of field foxtail [*Alopecurus myosuroides*] and weeds in winter wheat. (Ge) Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz. Sonderheft 4:275-278. 1968. 464.8 Z33  
English summary.  
With herbicides.
- 87376 SKVRNA, J. Weed control in chicory stands. (Cz) Uroda 16(5):193-195. May 1968. 64.8 Z12
- 87377 SMITH, R. J. Control of grass and other weeds in rice with several herbicides. Ark. Agr. Exp. Sta. Rep. Ser. 167,38 p. Ref. Mar. 1968. 100 Ar42R  
U. S. Department of Agriculture, cooperating.
- 87378 SOLYANOVA, E. M. How the herbicides are influencing quality of fibers and the oil content of cotton. (Rus) Khlopkovodstvo 2:28-29. Feb. 1968. 72.8 K522
- 87379 STALDER, L. Continuous application of herbicides in grape culture. (Ge) (Condensed.) Schweiz. Z. Obst- Weinbau 104(7):157-159. Mar. 16, 1968. 80 Sch9
- 87380 STALDER, L., and BARBEN, E. The importance of herbicide application and tillage in young apple orchards. (Ge) Schweiz. Z. Obst- Weinbau 104(9):213-219. Apr. 13, 1968. 80 Sch9  
English summary.
- 87381 STAMBOLIISKI, K. Economic effectiveness of application of herbicides in fruit orchards. (Bu) Rast. Zasht. 16(5):15-17. 1968. 423.92 So2
- 87382 STONOV, L. D. Application of herbicides to cotton crops (brief recommendations). (Rus) Khlopkovodstvo 4:28-29. Apr. 1968. 72.8 K522
- 87383 STRYCKERS, J., MOES, E., and HIMME, M. VAN. The possible influence of herbicides on the baking quality of wheat. 2. (Ge) Getreide Mehl 18(3):26-28. Mar. 1968. 298.8 G332  
Effect on protein content; special reference made to picloram.
- 87384 SUMMERS, L. A. Chemical constitution and activity of bipyridylum herbicides. I. Tetraedron 24(6):2697-2700. Mar. 1968. 382 T29
- 87385 SUMMERS, L. A., and BLACK, A. L. Herbicidal activity of an aromatic analogue of diquat. Nature 218(5146):1067-1068. June 15, 1968. 472 N21
- 87386 SVIRIDOV, I. S. Aftereffect of simazine and atrazine on weeds and potatoes, grown on flood plain soils. (Rus) Khim. Sel'skom Khoz. 6(3):37-39. Ref. Mar. 1968. 385 K524
- 87387 SWARTZ, E. Use thickeners for improved spray drift control. Weeds Trees Turf 7(3):32. Mar. 1968. 79.8 W413
- 87388 TAKAKUSU, T., ENOKIDA, S., and AIDA, S. Influences of application of herbicides on outbreak of rice stem borers. 3 p. Transl. 16150  
Translation from Kanto Tosan Plant Disease and Insect Pest Research Society. Annual Report 12. 1965.
- 87389 TANEV, I. Testing some herbicides for control of weeds of mint plants. Rast. Zasht. 16(1):28-30. 1968. 423.92 So2
- 87390 TARJAN, MRS. L. Forestry application of "Gramoxone" and "Reglone." (Hu) Erdo 17(1):1-5. Jan. 1968. 99.8 Er22  
German summary.
- 87391 TAUBEL, N. The reaction of some crop plants to the soil herbicides linuron and monolinuron depending upon the organic content of the soil. (Ge) Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz. Sonderheft 4:187-192. 1968. 464.8 Z33  
English summary.
- 87392 TORELL, P. J. 10 treatments for controlling dodder in alfalfa seed fields. Idaho. Univ. Ext. Idaho. Curr. Inform. Ser. 75,4 p. Apr. 1968. 275.29 Id13Idc  
Chemical.
- 87393 TRISHKIN, S. A. Effect of simazine and monuron on the quality of seed potatoes. (Rus) Khim. Sel'skom Khoz. 6(4):39-40. Apr. 1968. 385 K524
- 87394 TROJAN, V. The assortment of herbicides for weed control in sugar beet stands. (Cz) Uroda 16(4):142-144. Apr. 1968. 64.8 Z12
- 87395 TROUGHT, T. E. T. Hormone residues are dangerous. Orchardist New Zeal. 41(2):49,51. Mar. 1968. 80 Or19  
Herbicides.
- 87396 TU, S. M., and BOLLEN, W. B. Effect of paraquat on microbial activities in soils. Weed Res. 8(1):28-37. Ref. Mar. 1968. 79.8 W412
- 87397 TU, S. M., and BOLLEN, W. B. Interaction between paraquat and microbes in soils. Weed Res. 8(1):38-45. Ref. Mar. 1968. 79.8 W412
- 87398 TUROWSKI, W. Chemical control of weeds in some crop plants. (Pol) Ochrona Roslin 12(1):11-12. Jan. 1968. 464.8 Oc32
- 87399 UBRIZSY, G. Long-term experiments on the flora-changing effect of chemical weed killers in plant communities. Acta Agron. [Budapest] 17(1/2):171-193. Ref. 1968. 19 Ac8
- 87400 VAILLANT, A. Chemical control of annual weeds in rice. World Crops 19(6):38-44. Dec. 1967. 281.8 W892
- 87401 VERLAAT, J. G. Chemical control of broadbean weeds. (Du) Groenten Fruit 23(31):1423. Feb. 14, 1968. 80 G89
- 87402 VERLAAT, J. G. Chemical control of weeds in parsley and celery. (Du) Groenten Fruit 23(40):1801. Apr. 17, 1968. 80 G89
- 87403 VERLAAT, J. G. Control of weeds in leek seed beds. (Du) Groenten Fruit 23(35):1583. Mar. 13, 1968. 80 G89  
Chemical control.
- 87404 VEYERABEND, G. Influence of herbicides on the care of crops. (Ge) Feldwirtschaft 9(3):123-126. Ref. Mar. 1968. 18 W763  
Field crops.
- 87405 VIRAG, A. Some problems of chemical weed control of corn. (Hu) Magyar Mezogazdasag 23(15):13-14. Apr. 10, 1968. 19 M27



- 87406 VOEVOVIN, A. V. Application of herbicides to sugar beet crops. (Rus) Khim. Sel'skom Khoz. 6(4):69-70. Apr.1968. 385 K524
- 87407 VOS, J. DE. Chemical weed control. (Fr) Tuinbouwberichten 32(3):93-95. Mar.1968. 80 T817
- 87408 VURBANOV, TS. Profitability of using herbicides for barley plantings. (Bu) Rast. Zash. 16(4):15-18. 1968. 423.92 So2
- 87409 WAGNER, F. Chemical improvement of stands in permanent pasture. (Ge) Mitt. Deut. Landwirt.-Ges. 83(8):218,220. Feb.22,1968. 18 N39  
Control of *Polygonum bistorta*.
- 87410 WAGNER, F. Chemical improvement of stands in permanent pasture. 8. (Ge) Mitt. Deut. Landwirt.-Ges. 83(11):367-369. Mar.14,1968. 18 N39  
Weed control.
- 87411 WALLNOFER, P. Study of antimicrobial effects of diquat and paraquat. (Ge) Z. Pflanzenkr. (Pflanzenpathol.) Pflanzenschutz 75(4):218-224. Apr.1968. 464.8 Z3  
English summary.
- 87412 WEIGAND, G. Orientation study of effects of herbicides on the ear formation and yields of summer barley after early and standard spraying. (Ge) Gesunde Pflanzen 20(4):69-70,72,74. Apr.1968. 464.8 G33
- 87413 WEST INDIES UNIVERSITY (TRINIDAD). DEPT. OF CROP SCIENCE. HERBICIDE SECT. Report, October 1966-October 1967. PANS (Pest Articles News Sum.) Sect. C, Weed Contr. 14(2):176-201. June 1968. 79.9 G752
- 87414 WINNER, C., and SCHAUFFELE, W. Contribution to the problem of choosing a suitable herbicide among the new weed-killers for sugar beets. (Ge) Zucker 21(6):139-143. Mar.15, 1968. 65.8 Z82  
English summary.
- 87415 WISNIEWSKA, J. Observations on the effectiveness of herbicide derivatives of 2,4-D in combatting dicotyledonous weeds on heavily infested peat meadows. Water Econ. [Selec. Articles] 20(10):521-534. Ref. 1966. (TT 63-11363) HD1697.P7S4  
Translation from Gospodarka Wodna 20(10):473-474. 1960.  
Issued by CFSTI.
- 87416 YAMASAKI, S., TAKAHASHI, S., and TAKEDA, S. Studies on the weed control in the paddy field. 1-2. 17 p. Transl. 16734  
Chemical.  
Translation from Miyagi Agricultural Experiment Station. Technical Bulletin 32. Mar.1963.
- 87417 YURINA, L. V. Application of rodokor (sima-zine) in the fruit garden. (Rus) Khim. Sel'skom Khoz. 6(1):45-46. Jan.1968. 385 K524  
Apples.
- 87418 ZEMANEK, J. The current state and perspectives for the utilization of herbicides in grain stands. (Cz) Uroda 16(3):86-87. Mar.1968. 64.8 Z12
- Weed Control - Cultural, Biological
- 87419 GALKIN, A. V. Physical and chemical properties of roots of weeds. (Rus) Khlopkovodstvo 3:28-29. Mar.1968. 72.8 K522  
As related to cultural control on the cotton fields.
- 87420 GREATHEAD, D. J. Biological control of *Lantana* [camera]; a review and discussion of recent developments in East Africa. PANS (Pest Articles News Sum.) Sect. C, Weed Contr. 14(2):167-175. June 1968. 79.9 G792  
Chiefly use of insects.
- 87421 HAKANSSON, S. Experiments with *Agropyron repens* (L.) Beauv. I. Development and growth, and the response to burial at different developmental stages. Uppsala. Lantbrukshogsk. Ann. 33(3):823-873. Ref. 1967. 104 Up6  
Cultural control.
- 87422 MICHAEL, P. W. Perennial and annual pasture species in the control of *Silybum marianum*. Australian J. Exp. Agr. Anim. Husb. 8(30):101-105. Feb.1968. 23 Au792
- 87423 NEURURER, H. Competition between crop plants and weeds as an important and modifiable factor in progressive agriculture. (Ge) Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz. Sonderheft 4:31-36. Ref. 1968. 464.8 Z33  
English summary.  
Cultural control.
- 87424 PATZOLD, C. Mechanical or chemical weed control in potato production? (Ge) Mitt. Deut. Landwirt.-Ges. 83(17):583-584. Apr.25,1968. 18 N39
- 87425 PREUSCHEN, G. Weed control by burning. (Ge) Mitt. Deut. Landwirt.-Ges. 83(22):841-842,844. May 30,1968. 18 N39  
Use of flame throwers.
- 87426 SIEPMAN, A. H. J. Flame cultivation. (Du) Pootaardappelhandel 21(8):12-15. Mar.1968. 286.83 P79





## SOILS AND FERTILIZERS

## SOIL SCIENCE

- 87427 CERVENKA, L. Activity of the Pedological Laboratory [Laboratoria Podoznalectva] at Bratislava. (Cz) Prague. Vyzk. Ustav Zemed. Vestn. 14(5):227-230. 1967. 19.5 C333

## Soil Physics

- 87428 EL ABEDINE, A. Z., ABDALLA, M. M., and MOUSTAFA, A. T. A. Water permeability in the soils of Egypt. I. The relation of mechanical composition and pore-spaces. J. Soil. Sci. United Arab Repub. 7(2):93-103. Ref. 1967. 56.8 J825
- 87429 ARNST, A. N. Using polymers in irrigation. (Rus) Khlopkovodstvo 3:29-31. Mar.1968. 72.8 K522  
As soil conditioner for rows: cotton irrigation.
- 87430 BERWICK, P. D., and SUMNER, C. J. An accurate hydraulic-pneumatic weighing lysimeter for general field use. Agr. Meteorol. 5(1):5-16. Ref. Jan.1968. 340.8 Ag8
- 87431 BISAL, F., and FERGUSON, W. S. Monthly and yearly changes in aggregate size of surface soils. Can. J. Soil Sci. 48(2):159-164. Ref. June 1968. 56.8 C162
- 87432 BISWAS, T. D., PHARANDE, K. S., and NASKAR, G. C. Building up of soil structure by phosphate fertilization of a legume in a crop rotation. I. Development of structure at different stages of growth of the legume and its relation to soil water retention characteristics. Indian Soc. Soil Sci. J. 15(4):289-300. Ref. Dec.1967. 56.9 In2
- 87433 BOBROV, V. A. Some physical and chemical properties of steppe drainless depression soils of Turgai land. (Rus) Pochvovedenie 11:33-42. Nov.1967. 57.8 P34  
English summary.
- 87434 COOPER, A. W., and GILL, W. R. Characterization of soil related to compaction. Auburn, Alabama, Agricultural Research Service, National Tillage Machinery Laboratory, 1965. 11 p. Ref. PREP 1426
- 87435 GALEVA, V., and DILKOVA, R. Effect of different depths of plowing on the aeration of the leached Chernozem-Smolnitsa. (Rus) Pochvovedenie 2:82-86. Feb.1968. 57.8 P34  
English summary.  
In Bulgaria.
- 87436 GOTSHALK, YU. F. Some problems of soil hydrology. (Rus) Pochvovedenie 11:100-106. Nov.1967. 57.8 P34
- 87437 GUPTA, G. C., and DUTTA, A. K. Water stability of aggregates in a heated black cotton soil: II. Results on the basis of aggregate-size distribution in the dry state. Soil Sci. 104(5):370-373. Nov.1967. 56.8 So3
- 87438 HINMAN, W. C., and BISAL, F. Alterations of soil structure upon freezing and thawing and subsequent drying. Can. J. Soil Sci. 48(2):193-197. June 1968. 56.8 C162
- 87439 IKRAMOV, ZH. Formation of crusts in desert soils of the Karshi steppe. (Rus) Khlopkovodstvo 3:45-46. Mar.1968. 72.8 K522
- 87440 KACHINSKII, N. A. The half-century of soil physics and mechanics in the USSR. (Rus) Pochvovedenie 11:18-32. Nov.1967. 58.7 P34
- 87441 KIEL, E. Properties and structure of the soil. (Da) Haven 68(2):53. Feb.1968. 80 H29
- 87442 KROL, H. Water-air conditions in soils of the middle climatic zone of Poland. 25 p. Ref. (TT 66-57013) Transl. 16754  
Translation from Roczniki Gleboznawcze 13 (1):111-141. 1963.  
Issued by CFSTI.
- 87443 KULABUKHOVA, I. I. Infiltration by the inadequate soil saturation. (Rus) Akad. Nauk Uzb. SSR. Dokl. 8:10-12. 1967. 511 Uz1
- 87444 KULIK, N. F. Thermogradient moisture transfer in sandy soils. (Rus) Pochvovedenie 11:86-100. Ref. Nov.1967. 57.8 P34  
English summary.

- 87445 LONGLEY, R. W. Temperature increases under snow during a mild spell. Soil Sci. 104(5):379-382. Nov.1967. 56.8 So3
- 87446 MOSPAN, YU. P. Laboratory equipment for pulverization of soil samples in the agrochemical laboratories. (Rus) Khim. Sel'skom Khoz. 6(1):62-65. Jan.1968. 385 K524
- 87447 PROKOPOVICH, N. P., and MAGLEBY, D. C. Land subsidence in Pleasant Valley area, Fresno County, Calif. Amer. Water Works Ass. J. 60(4):413-424, map. Apr.1968. 292.9 Am32J  
Includes agriculture and irrigation, and ground water.
- 87448 SANDU, G. Ground water mineralization in connection with soil salination in the Namo-loasa-Maxineni Unit. (Rum) Bucharest. Inst. Cent. Cercet. Agr. Sect. Pedol. An. 34:347-360, map. 1966, pub.1967. 21 R86A  
English summary.
- 87449 SHALY, R. Use of ultrasonic vibration for dispersing soil samples. (Rus) Pochvovedenie 11:129-138. Ref. Nov.1967. 57.8 P34  
English summary.
- 87450 SHAYKEWICH, C. F., and ZWARICH, M. A. Relationships between soil physical constants and soil physical components of some Manitoba soils. Can. J. Soil Sci. 48(2):199-204. Ref. June 1968. 56.8 C162
- 87451 SINGH, B. P., and CHATTERJEE, B. N. Aggregate estimations in Bihar soils by different methods. J. Soil Water Conserv. India 15(3/4):37-41. July/Dec.1967. 56.8 J824
- 87452 STROTHIA, N. N., and SINGH, J. Relationship between vapour pressure and evaporation from U.S.D.A. type 1 pan located at Bamrauli (Allahabad). J. Soil Water Conserv. India 15(3/4):89-92. July/Dec.1967. 56.8 J824
- 87453 URSIC, S. J. Improved standards for neutron soil water meters. Soil Sci. 104(5):323-325. Nov.1967. 56.8 So3
- 87454 VANDEN BERG, G. E., and REAVES, C. A. Characterization of soil properties for tillage tool performance. Auburn, Alabama, Agricultural Research Service, National Tillage Machinery Laboratory, 1965. 9 p. PREP 1425
- 87455 VAN GROENEWOUD, H., and WEEGAR, H. H. Effect of different methods of installation of fiberglass soil moisture units on discrepancies between field and laboratory calibrations. Can. J. Soil Sci. 48(2):97-107. June 1968. 56.8 C162
- 87456 WATSON, K. K. Response behavior of a tensiometer-pressure transducer system under conditions of changing pore air pressure. Soil Sci. 104(6):439-443. Dec.1967. 56.8 So3
- 87457 YASUTOMI, R., and SUDO, S. A method of measuring some physical properties of soil with a forced oscillation viscometer. Soil Sci. 104(5):336-341. Nov.1967. 56.8 So3
- 87458 YUODIS, YU. K. The structure of soil cover of the Lithuanian SSR. (Rus) Pochvovedenie 11:50-55, map. Nov.1967. 57.8 P34  
English summary.

## Soil Chemistry and Mineralogy

- 87459 ABDOU, F. M., and OSMAN, A. Z. Soil phosphorus evaluation as estimated by L. and K. values. J. Soil Sci. United Arab Repub. 7(2):61-70. 1967. 56.8 J825
- 87460 AHMAD, M., and MIAN, M. A. Comparison of different chemical tests for the determination of available phosphorus in soil and its correlation with plant uptake. West Pakistan J. Agr. Res. 5(4):59-65. Ref. Dec.1967. 22 W52
- 87461 ALEXANDER, T. G., and ROBERTSON, J. A. Ascorbic acid as a reductant for total phosphorus determination in soils. Can. J. Soil Sci. 48(2):217-218. June 1968. 56.8 C162
- 87462 BAPAT, M. V. Contribution of iron and aluminum in phosphate sorption by alkaline soils. Cur. Sci. 37(7):201-202. Apr.5.1968. 475 Sci23
- 87463 BARROW, N. J. Studies on the adsorption of sulfate by soils. Soil Sci. 104(5):342-349. Ref. Nov.1967. 56.8 So3

- 87464 BERIDZE, A. E. Determination of acidifier rates for soils destined for cultivation of tea. (Rus) Khim. Sel'skom Khoz. 6(1):18-19. Jan. 1968. 385 K524  
Sulfuric acid used.
- 87465 BLONDEAU, R. Kinetics of formation of amino acids and water soluble vitamins in the rhizosphere of rape (*Brassica napus oleiferus*). (Fr) Acad. Sci. C. R. Ser. D, 266(19):2017-2020. Ref. May 6, 1968. 505 P21
- 87466 BOLT, G. H. Discussion of the paper by I. Shainberg and W. D. Kemper entitled "Ion exchange Equilibria on Montmorillonite" (Soil Science 103:4-9). Soil Sci. 104(6):444-453. Ref. Dec. 1967. 56.8 So3
- 87467 BORGER, R. DE, and SACKER, H. DE. Determination of mean molecular weight of fulvic acids by cryoscopy in aqueous media. (Fr) Acad. Sci. C. R. Ser. D, 266(20):2052-2055. May 13, 1968. 505 P21
- 87468 CHAUHAN, S. S., and SINGH, D. Effect of muriate of potassium on fixed ammonium in the soils of Madhya Pradesh. Indian Soc. Soil Sci. J. 15(4):257-259. Dec. 1967. 56.9 In2
- 87469 CLARK, J. S., and NICHOL, W. E. Discrepancies between calculated and determined base saturation in some strongly acid soils. Can. J. Soil Sci. 48(2):211-214. June 1968. 56.8 C162
- 87470 CLARK, J. S., and NICHOL, W. E. Reactions of iron hydrous oxide with Wyoming bentonite. Can. J. Soil Sci. 48(2):173-183. Ref. June 1968. 56.8 C162
- 87471 CLARK, J. S., and HILL, R. G. Vessel for long term soil-solution equilibration. Can. J. Soil Sci. 48(2):22. June 1968. 56.8 C162
- 87472 CLINTON, O. E. A three channel flame photometer for soil analysis. New Zeal. J. Sci. 10(4):1069-1075. Dec. 1967. 514 N482
- 87473 DAS, D. K., and DATTA, N. P. Reaction products from phosphate fertilizers in acid and calcareous soils of India. Indian J. Agr. Sci. 37(6):526-536. Ref. Dec. 1967. 22 Ag831
- 87474 DECAU, J., and PUJOL, B. Comparative distribution of principal forms of nitrogen in some profiles of Podzol soil and in washed out soils; statistical prove of differences in distribution. (Fr) Acad. Sci. C. R. Ser. D, 266(19):1963-1965. May 6, 1968. 505 P21
- 87475 FUKEL'MAN, L. M., and VOL'MAN, L. B. Methods of determining monuron and diuron in preparations, soils and grapes. (Rus) Khim. Sel'skom Khoz. 6(1):65-69. Jan. 1968. 385 K524
- 87476 GREWAL, J. S., and KANWAR, J. S. Potassium fixation in some soils of Punjab, Haryana and Himachal. Indian Soc. Soil Sci. J. 15(4):237-244. Ref. Dec. 1967. 56.9 In2
- 87477 HALVORSON, A. R. Exchangeable cations, cation exchange capacity and base saturation and it's relationship to soil fertility. Wash. State Univ. Ext. E. M. 2894, rev., 5 p. Mar. 1968. 275.29 W27M1
- 87478 HATCHER, J. T., BOWER, C. A., and CLARK, M. Adsorption of boron by soils as influenced by hydroxy aluminum and surface area. Soil Sci. 104(6):422-426. Ref. Dec. 1967. 56.8 So3
- 87479 HINGSTON, F. J., and RAUPACH, M. The reaction between monosilicic acid and aluminum hydroxide. I. Kinetics of adsorption of silicic acid by aluminium hydroxide. I. Australian J. Soil Res. 5(2):295-309. Ref. Dec. 1967. 56.8 Au7
- 87480 HUFFMAN, E. O. The reactions of fertilizer phosphate with soils. Outlook Agr. 5(5):202-207. 1968. 10 Ou8  
Review of the literature.
- 87481 HUMPHREYS, F. R. A visual method of assessing the soil reaction to the addition of phosphate ions. Australian Inst. Agr. Sci. J. 34(1):44-45. Mar. 1968. 23 Au74
- 87482 KEENEY, D. R., and BRENNER, J. M. Use of the Coleman Model 29A Analyzer for total nitrogen analysis of soils. Soil Sci. 104(5):358-363. Ref. Nov. 1967. 56.8 So3
- 87483 KHAN, A. A., and KHAN, J. Status of organic matter in the soils of Peshawar region. West Pakistan J. Agr. Res. 6(1):106-112. Ref. Mar. 1968. 22 W52
- 87484 KHAN, S., and SINGHAL, J. P. Titrations of hydrogen clays with nicotine. Soil Sci. 104(6):427-432. Ref. Dec. 1967. 56.8 So3
- 87485 KOHOUT, V. Binding of salts and esters of 2,4-D, MCPA, 2,4,5-T in soil and natural sorbents. (Cz) Agrochemia [Bratislava] 8(3):86-89. 1968. 385 Ag88  
English summary, p.3.
- 87486 KORNEVA, T. A. Mineralogy of Kurai Ridge weathering crust and soils. (Rus) Pochvovedenie 11:122-128. Nov. 1967. 57.8 P34  
English summary.
- 87487 KOSTYUKHIN, L. N., and others. Studying availability of phosphates in the Gray-Forest soils of the Irkutsk Region. (Rus) Khim. Sel'skom Khoz. 6(4):63-66. Apr. 1968. 385 K524  
N. G. Krest'yanikova, G. A. Ugarov, and L. M. Martsenyuk, joint authors.
- 87488 KOVACS, M. Nitrification capacity of the soils of marshy and hay meadows. Acta Agron. [Budapest] 17(1/2):25-36. Ref. 1968. 19 Ac8
- 87489 KRUPSKII, N. K., and others. Comparability of methods of determining mobile forms of phosphorus and potassium in soils of the Ukrainian SSR and their improvement. (Rus) Khim. Sel'skom Khoz. 6(2):52-59. Ref. 1968. 385 K524  
P. P. Levenets, E. P. Yurko, V. L. Gavrilov, and S. M. Kukoba, joint authors.
- 87490 LOWE, L. E. Soluble polysaccharide fractions in selected Alberta soils. Can. J. Soil Sci. 48(2):215-217. Ref. June 1968. 56.8 C162
- 87491 MEL'NIKOVA, M. K., ZAMANNURAD, KH., and FRID, A. S. Coefficients of diffusion in soil layers. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 2:20-24. Feb. 1968. 20 V633  
English summary.  
Translocation of salts.
- 87492 MOE, P. G., MANNERING, J. V., and JOHNSON, C. B. Loss of fertilizer nitrogen in surface runoff water. Soil Sci. 104(6):389-394. Ref. Dec. 1967. 56.8 So3
- 87493 MULLALY, J. V., SKENE, J. K. M., and JARDINE, R. An evaluation of several soil tests for predicting wheat yield response to superphosphate in Victoria. Australian J. Exp. Agr. Anim. Husb. 8(30):52-58. Feb. 1968. 23 Au792
- 87494 NAGAR, B. R., and others. Studies on the origin & structure of soil humic acids by electron spin resonance. Indian J. Chem. 5(11):587-588. Nov. 1967. 385 In294  
N. P. Datta, M. R. Das, and P. Khakhar, joint authors.
- 87495 NESMITH, J. Soil tests should be comparable. Fla. Cattleman Livestock J. 32(9):51,81. June 1968. 43.8 F66
- 87496 PISSARIDES, A., STEWART, J. W. B., and RENNIE, D. A. Influence of cation saturation on phosphorus adsorption by selected clay minerals. Can. J. Soil Sci. 48(2):151-157. Ref. June 1968. 56.8 C162
- 87497 RAD'KO, A. Radioactive tracers in hydrotechnique and soil improvement. (Rus) Khlopkovodstvo 2:32-33. Feb. 1968. 72.8 K522
- 87498 SHAINBERG, I., and KAISERMAN, A. Electrochemical potential of NaCl in NA-montmorillonite suspensions. Soil Sci. 104(6):410-415. Dec. 1967. 56.8 So3
- 87499 SHTOBE, G. G. Methods of determining pH in soil. (Rus) Khim. Sel'skom Khoz. 6(3):59-62. Mar. 1968. 385 K524
- 87500 SINGH, S. S. Sulfate ions and ion activity product (AI) (OH)<sup>3</sup> in Wyoming bentonite suspensions. Soil Sci. 104(6):433-438. Ref. Dec. 1967. 56.8 So3
- 87501 SYMPOSIUM ON SOIL AND PLANT TISSUE TESTING, CANBERRA, 1967. Proceedings. Australian Inst. Agr. Sci. J. 33(4):269-344. Ref. Dec. 1967. 23 Au74



- 87502 SZALAY, S., and SZILAGYI, M. Sorption of micronutrients in peat humic acids and importance in practical agriculture. (Hu) Agrartud. Kozlem. 27(1/2):109-114. Ref. 1968. 19 B855
- 87503 TEMBHARE, B. R., and RAI, M. M. Effect of pH, calcium carbonate, texture and organic matter on the availability of manganese. Indian Soc. Soil Sci. J. 15(4):251-256. Ref. Dec. 1967. 56.9 In2
- 87504 TEWFIK, Y., and others. The behaviour of clayey and sandy soils towards saline irrigation water. J. Soil Sci. United Arab. Repub. 7(2): 113-130, map. 1967. 56.8 J825  
S. Yousef, H. Hamdi, and A. El Shabassy, joint authors.
- 87505 TSITOVICH, I. K., and KUZ'MENKO, E. A. Ion exchange as method of determining microquantity of sodium trichloroacetate in soil and plants. (Rus) Khim. Sel'skom Khoz. 6(2):60-61. 1968. 385 K524
- 87506 TUCKER, B. M. The solubility of potassium from soil illites. III-V. Australian J. Soil Res. 5(2):173-190. Ref. Dec. 1967. 56.8 Au7
- 87507 TURNER, R. C., and BRYDON, M. E. Removal of interlayer aluminum hydroxide from montmorillonite by seeding the suspension with gibbsite. Soil Sci. 104(5):332-335. Nov. 1967. 56.8 So3
- 87508 VAN DIJK, D. C. Exploratory study of the presence of perchlorate in salty seepages in the Yass Valley. Australian Inst. Agr. Sci. J. 34(1): 41-43. Mar. 1968. 23 Au74
- 87509 VAN SCHAICK, J. C. Conductance of absorbed sodium ions in bentonite, silt, and sand mixtures. Can. J. Soil Sci. 48(2):205-210. Ref. June 1968. 56.8 C162
- 87510 VYMETAL, V., and RIMOVSKY, K. The effect of post-harvest remnants of field crops on the level of nitrogen in soils. (Cz) Uroda 16(6):60-61. Feb. 1968. 64.8 Z12
- 87511 WEED, S. B., and LEONARD, R. A. Variations in properties within single flakes of hydrobiotite-vermiculite. Soil Sci. 104(6):416-421. Ref. Dec. 1967. 56.8 So3
- 87512 WILLIAMS, B. G., and DROVER, D. P. Factors in gel formation in soil suspensions. Soil Sci. 104(5):326-331. Ref. Nov. 1967. 56.8 So3
- 87513 ZANDSTRA, H. G. Automated determination of phosphorus in sodium bicarbonate extracts. Can. J. Soil Sci. 48(2):219-220. June 1968. 56.8 C162
- Soil Biology**
- 87514 AHMAD, N., and JHA, K. K. Solubilization of rock phosphate by micro-organisms isolated from Bihar soils. J. Gen. Appl. Microbiol. 14 (1):89-95. Mar. 1968. 448.3 J824
- 87515 AMBROZ, Z. A contribution to the study of the effect of soil structure and other associated factors on soil protease. (Cz) Czech. Min. Zemedel. Les. Hospodar. Ustav Vedeckotech. Inform. Rostlinna Vyroba 41(2):201-208. Feb. 1968. 64.9 C33  
English summary.  
Rendzina soils.
- 87516 BLASCO L., M., and CORNFIELD, A. H. Effects of the addition of cellulose on the mineralization and nitrification of nitrogen in the soils of El Valle. (Sp) Agr. Trop. 24(2):113-116. Ref. Feb. 1968. 26 Ag8  
English summary.
- 87517 BUSHEVA, A. V. Soil fauna of alkali complex and its change induced by development of virgin land in the Kuibyshev District. (Rus) Zool. Zh. 47(4):548-554. Apr. 1968. 410 R92  
English summary.
- 87518 CATALINA, L. Fixation of atmospheric nitrogen in the soil by microbacteria. (Sp) Cultiv. Mod. 51(2):61-62. Feb. 1968. 15 C89
- 87519 CHANDRAMOHAN, D., and MAHADEVAN, A. Indole acetic acid metabolism in soils. Cur. Sci. 37(4):112-113. Feb. 20, 1968. 475 Sci23
- 87520 CHULAKOV, SH. A. Achievements of the soil microbiology in the Kazakh SSR. (Rus) Akad. Nauk Kaz. SSR. Izv. Ser. Biol. Nauk 6:21-28. Nov./Dec. 1967. 442.8 AL6
- 87521 DRUI, E. G., KHOKHRYAKOVA, V. S., and KOGAN, L. M. Effect of polychloropentanes on pure cultures of the soil microorganisms. (Rus) Khim. Sel'skom Khoz. 6(3):28-30. Mar. 1968. 385 K524
- 87522 FILIP, Z. The effect of the low amounts of bentonite on the development of some microorganisms in soils. (Cz) Czech. Min. Zemedel. Les. Hospodar. Ustav Vedeckotech. Inform. Rostlinna Vyroba 41(2):209-216. Ref. Feb. 1968. 64.9 C33  
English summary.
- 87523 GUNNER, H. B., and ZUCKERMAN, B. M. Degradation of "diazinon" by synergistic microbial action. Nature 217(5134):1183-1184. Mar. 23, 1968. 473 N21
- 87524 GUPTA, U. C., and REUSZER, H. W. Effect of plant species on the amino acid content and nitrification of soil organic matter. Soil Sci. 104(6):395-400. Ref. Dec. 1967. 56.8 So3
- 87525 HURLE, K. Investigations of long-term herbicide tests. I. Preliminary report on the degradation of dinitro-o-cresol (DNOC) in the soil after many years of application. (Ge) Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz. Sonderheft 4:145-146. 1968. 464.8 Z33  
English summary.
- 87526 MA CHAVARIANI, M. Z. Microbiological characteristic of soils of MTA-tusheta. (Geo) Akad. Nauk Gruz. SSR. Soobshch. 48(3):679-682. Dec. 1967. 511 AK146  
Russian summary.  
Mountain areas.
- 87527 MEIKLEJOHN, J., and WEIR, J. Nitrogen-fixers—pseudomonads and other aerobic bacteria—from Rhodesian soils. J. Gen. Microbiol. 50(3): 487-496. Ref. Mar. 1968. 448.3 J823
- 87528 MIRZONOVA, M. N., and PEROV, N. N. Effect of fumigants on microorganisms in carbon Chernozem soils and the grapes grown on it. (Rus) Vinodel. Vinograd. SSSR 1:28-29. 1968. 95.8 V77  
Hexachlorobutadiene used.
- 87529 NAGAI, Y., ELLEWAY, R. F., and NICHOLAS, D. J. D. Some properties of an NADH—benzyl viologen reductase from Azotobacter vinelandii. Biochim. Biophys. Acta 153(4):766-776. Ref. May 28, 1968. 381 B522
- 87530 OKE, O. L. Nitrogen fixing capacity of guar bean. Trop. Sci. 9(3):144-147. Ref. 1967. 26 T756
- 87531 PATTEN, B. C., and WITKAMP, M. Systems analysis of <sup>134</sup>cesium kinetics in terrestrial microcosms. Ecology 48(5):813-824. Summer 1967. 410 Ec7  
Chiefly in microorganisms of soils.
- 87532 RADU, V. Gh., and STEFAN, V. A contribution to the study of Enchytraeidae of soils. III. (Rum) Cluj. Univ. Babes-Bolyai. Stud. Ser. Biol. 13(1):75-78. 1968. 442.9 C62  
English summary.
- 87533 RESZ, A. Investigations of long-term herbicide tests. 2. Quantitative changes in the soil microflora from the use of certain herbicides for eleven years. (Ge) Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz. Sonderheft 4:147-150. 1968. 464.8 Z33  
English summary.
- 87534 RINTELEN, J. Investigations of long-term herbicide tests. 3. Does the repeated, annual application of the same herbicide cause a change in the species spectrum of the soil mycoflora? (Ge) Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz. Sonderheft 4:151-156. 1968. 464.8 Z33  
English summary.
- 87535 SANTORO, T., and STOTZKY, G. Sorption between microorganisms and clay minerals as determined by the electrical sensing zone particle analyzer. Can. J. Microbiol. 14(4):299-307. Ref. Apr. 1968. 448.8 C162

- 87536 SAWADA, Y., NITTA, K., and YOSHIOKA, S. Effects of green manure on the decomposition of straw and nitrogen release. (Ja) Hokkaido Nat. Agr. Exp. Sta. Res. Bull. 92:38-44. Ref. Feb. 1968. 107.6 H68  
English summary.
- 87537 SCHALL, E. D., SHENBERGER, L. C., and SWOPE, A. Inspection of legume inoculants and pre-inoculated seeds. Ind. Agr. Exp. Sta. Insp. Rep. 69, 7 p. Jan. 1968. 280.39 In22
- 87538 SLEZAK, K. Results of the study of activity of soil microorganisms under marginal values of the available soil moisture. (Cz) Czech. Min. Zemedel. Les. Hospodar. Ustav Vedeckotech. Inform. Rostlinna Vyroba 41(1):105-114. Jan. 1968. 64.9 C33  
English summary.
- 87539 SZEGL, J. Development and place of soil microbiology in the system of sciences. (Hu) Agrar-tud. Kozlem. 27(1/2):213-225. 1968. 19 B855  
Review of literature.
- 87540 WHEATLEY, G. A., and HARDMAN, J. A. Organochlorine insecticide residues in earthworms from arable soils. J. Sci. Food Agr. 19(4):219-225. Ref. Apr. 1968. 382 So12
- 87541 WILSON, H. A., and DOBSON, A. L. Effect of air on thermogenesis in decomposing organic matter. W. Va. Acad. Sci. Proc. 39:115-123. Ref. 1967. 500 W52
- 87542 WURZER, B., and CORBIN, F. T. Studies on microbial detoxification of the herbicides dicamba (mediben) and amiben. (Ge) Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz. Sonderheft 4:175-185. Ref. 1968. 464.8 Z33  
English summary.
- Soil-Plant-Animal Relationships**
- 87543 HELLER, L., and HELFFERICH, B. Livestock feeding even over plant fertilizing? (Ge) Mitt. Deut. Landwirt.-Ges. 83(12):397-398. Mar. 21, 1968. 18 N39  
Importance of proper fertilizing to ensure proper nutrition.
- Soil Genesis, Formation, Classification, and Mapping**
- 87544 BERDNA, Z., and MICHIAN, L. Geographical features of central and south-eastern European soils. (Rus) Pochvovedenie 11:42-49. Ref. Nov. 1967. 57.8 P34  
English summary.
- 87545 BIK, M. J. J. Structural geomorphology and morphoclimatic zonation in the central highlands, Australian New Guinea. In Jennings, J. N., and Mabbutt, J. A. Landform studies from Australia and New Guinea, p. 26-47, map. Ref. 1967. GB381.J4
- 87546 BROEK, J. M. M. VAN DEN., and WAALS, L. VAN DER. The late Tertiary peneplain of South Limburg (The Netherlands); silicifications and fossil soils; a geological and pedological investigation. Neth. Soil Surv. Inst. Soil Surv. Pap. 3, 24 p., map. Ref. 1967. 56.9 St5S
- 87547 BUTLER, B. E. Soil periodicity in relation to landform development in southeastern Australia. In Jennings, J. N., and Mabbutt, J. A. Landform studies from Australia and New Guinea, p. 231-255, map. Ref. 1967. GB381.J4
- 87548 CAIRNS, R. R., and VAN SCHAİK, J. C. Solonchetsic soils and their physical properties as influenced by different cations. Can. J. Soil Sci. 48(2):165-171. June 1968. 56.8 C162
- 87549 DANIELS, R. B., GAMBLE, E. E., and NELSON, L. A. Relation between A<sub>2</sub> horizon characteristics and drainage in some fine loamy Ultisols. Soil Sci. 104(5):364-369. Nov. 1967. 56.8 So3  
North Carolina.
- 87550 DAVIES, J. L. Tasmanian landforms and quaternary climates. In Jennings, J. N., and Mabbutt, J. A. Landform studies from Australia and New Guinea, p. 1-25, map. Ref. 1967. GB381.J4  
Includes soil genesis.
- 87551 DURAND, J. H. The gypsum crust in the Souf area [Algeria]. (Fr) Agron. Trop. Paris 22(12):1221-1226. Dec. 1967. 26 Ag86  
English summary.  
Formation and water table.
- 87552 EYLES, R. J. Laterite at Kerdau, Pahang, Malaya. J. Trop. Geogr. 25:18-23, map. Dec. 1967. 331.8 M29  
Genesis.
- 87553 FILIPOVIC, D., and ANTONOVIC, G. A contribution to the study of Red soils of eastern Serbia. (Se) Arh. Poljoprivredne Nauk. 20(68):73-84. Ref. 1967. 21.5 Y9  
English summary.
- 87554 GALLOWAY, R. W. Pre-basalt, sub-basalt and post-basalt surfaces of the Hunter Valley, New South Wales. In Jennings, J. N., and Mabbutt, J. A. Landform studies from Australia and New Guinea, p. 293-314, map. Ref. 1967. GB381.J4  
Includes soil genesis.
- 87555 GILLESPIE, J. E., and ELRICK, D. E. Micro-morphological characteristics of an Oneida soil profile. Can. J. Soil Sci. 48(2):113-142. Ref. June 1968. 56.8 C162
- 87556 GJEMS, O. Studies on clay minerals and clay-mineral formation in soil profiles in Scandinavia. (No) Norway. Skogforsoksv. Medd. 81:299-415, map. Ref. 1968. 99.9 N833
- 87557 GORSHENIN, K. Zoning. (Rus) Pochvovedenie 11:138-139. Nov. 1967. 57.8 P34  
In soil mapping.
- 87558 HELLE, R., and YLINEN, M. The black-and-white and false color airphotographs in photo-interpretation. (Fi) Terra [Helsinki] 80(1):17-22. 1968. 20 T272  
English summary.  
Peat bogs.
- 87559 HUDDLESTON, J. H., and OLSON, G. W. Soil survey interpretation for subsurface sewage disposal. Soil Sci. 104(6):401-409. Ref. Dec. 1967. 56.8 So3  
With reference to percolation tests and permeability of soils.
- 87560 INGLES, O. G., and WILLOUGHBY, D. R. An occurrence of hisingerite with evidence of its genesis. Soil Sci. 104(5):383-385. Ref. Nov. 1967. 56.8 So3
- 87561 JAMAGNE, M. Bases et techniques d'une cartographie des sols: Cartes [Bases et techniques of soil cartography: Maps]. Ann. Agron. 18(spec. no), map. 1967. 14 F8499
- 87562 JENNINGS, J. N., and MARBUTT, J. A. Landform studies from Australia and New Guinea. Cambridge, University Press, 1967. 434 p. Ref. GB381.J4  
Includes bibliographies.  
Includes soil genesis.
- 87563 KADDAH, M. T. Land form and use and characteristics of some soils in Nepal. Soil Sci. 104(5):350-357, map. Nov. 1967. 56.8 So3  
Chiefly soils.
- 87564 KASESALU, H. About silvicultural properties of soils in heath forests. (Es) Est. Sel'skokhoz. Akad. Sb. Nauch. Tr. 50:183-193. 1968. 106 Es83  
English summary.  
Soil types and their properties.
- 87565 KATSUMATA, F. Farm soils of western Java. (Ja) Agr. Asia 6(4):24-27. Apr. 1968. 22.5 Aj5
- 87566 KILLIAN, J. A textural classification of immature alluvial soils for use in Madagascar. (Fr) Agron. Trop. Paris 22(12):1187-1195. Dec. 1967. 26 Ag86  
English summary.
- 87567 KITAYARAK, S., and NONTHABUND, S. Report on the soil survey of the Nong Ya Ma Tank-irrigation area (Roi Et Province). Thailand. Min. Nat. Develop. Soil Surv. Rep. 19, 6 p., map. Sept. 1967. 56.9 Si1
- 87568 KORNBLUM, E. A. Alteration of clay minerals during soil formation in the Volga-Akhtuba flood plain. (Rus) Pochvovedenie 11:107-122. Ref. Nov. 1967. 57.8 P34  
English summary.



- 87569 LEVEN, A. A., and WILLIAMS, J. A. Hydrologic soil surveys for wildland watersheds. J. Soil Water Conserv. 22(6):239-241. Ref. Nov./Dec.1967. 56.8 J822
- 87570 MALAGON CASTRO, D. Cartography of soils. (Sp) Agr. Trop. 24(2):82-96, map. Feb.1968. 26 Ag8  
Colombia.
- 87571 MCINTOSH, J. L. Why soils differ. Vt. Farm Home Sci. 10(3):10-11. Spring 1968. 100 V593  
Chiefly genesis; some changes through management.
- 87572 MULCAHY, M. J. Landscapes, laterites and soils in southwestern Australia. In Jennings, J. N., and Mabbutt, J. A. Landform studies from Australia and New Guinea, p.211-230, map. Ref. 1967. GB381.J4
- 87573 MUSIEROWICZ, A., and others. Typology and properties of soils from boulder loams. I. Brown and pseudopodzolic forest soils. (Pol) Roczn. Gleboznawcze 17:29-129, map. 1967. 56.8 R592  
English summary.
- 87574 NAKADZE, E. K. Causes of soil salinification in the plain territory of intra Kartlia. (Rus) Akad. Nauk Gruz. SSR. Soobshch. 49(2):445-450. Feb.1968. 511 Ak146  
Effect of underground water.
- 87575 NEWMAN, J. E. Climatic influences on agricultural lands. Amer. Soc. Farm. Managers Rural Appraisers. J. 32(1):39-45, map. Apr. 1968. 281.8 Am32  
Soil genesis.
- 87576 OLLIER, C. D. Landforms of the newer volcanic province of Victoria. In Jennings, J. N., and Mabbutt, J. A. Landform studies from Australia and New Guinea, p.315-339, map. Ref. 1967. GB381.J4  
Includes soil genesis.
- 87577 PEKATOROS, L. G. Saline and Solonetz flood plain soils in the west of the Black Sea lowland. (Rus) Pochvovedenie 11:56-66. Ref. Nov.1967. 57.8 P34  
English summary.
- 87578 PELISEK, J. Soil types of drifting sands in forest areas of Czechoslovakia. (Cz) Czech. Min. Zemed. Les. Hospod. Ustav. Vedeckotech. Inform. Les. Cas. 41(2):119-132. Ref. Feb. 1968. 99.9 C334  
English summary.
- 87579 PONDEL, H. Physico-chemical and chemical properties of Brown and podzolic soils developed from boulder loam of the Kaszub lake-land. 40 p., map. Ref. (TT 65-50320) Transl. 16251  
Translation from Instytut Uprawy, Nawozenia i Gleboznawstwa. Pamietnik Pulawski 9:53-97. 1963.  
Issued by CFSTI.
- 87580 POOMVISES, V., and others. Detailed reconnaissance soil survey of the Lam Phra Phloeng Irrigation Project (Nakhon Ratchasima Province). Thailand. Min. Nat. Develop. Soil Surv. Rep. 16, 13 p., map. 1964. 56.9 Si1  
F. R. Moormann, C. Ratanaprayura, and S. Montrakun, joint authors.
- 87581 STONEMAN, T. C. The interpretation of Lands Department soil maps of the West Midlands area. West. Australia. Dep. Agr. J. (ser.4) 9(1):12-13. Jan.1968. 23 W52J
- 87582 TAMHANE, R. V., and KARALE, R. L. Studies on the basaltic soils of Bombay Deccan. Indian Soc. Soil Sci. J. 15(4):269-279. Ref. Dec. 1967. 56.9 In2
- 87583 TITOVA, N. A. The nature of dry-steppe soil humus in the middle Ergeni Hills and the north-western part of Caspian lowland. (Rus) Pochvovedenie 3:80-94. Ref. Mar.1968. 57.8 P34  
English summary.
- 87584 TOLCHELNIKOV, YU. S. Soils of drained sites in the basin of the B. Salym River middle reaches. (Rus) Pochvovedenie 12:45-57. Ref. Dec.1967. 57.8 P34  
English summary.
- 87585 USPANOV, U. U. Soil-geographical zones and the soil resources in the Kazakh SSR. (Rus) Akad. Nauk Kaz. SSR. Izv. Ser. Biol. Nauk 6: 10-20. Nov./Dec.1967. 442.8 AL6
- 87586 U. S. SOIL CONSERVATION SERV. Soil survey laboratory data and descriptions for some soils of Illinois. U. S. Soil Conserv. Serv. Soil Surv. Invest. Rep. 19, 210 p., map. Apr.1968. aS591.A2  
Illinois Agricultural Experiment Station, cooperating.
- 87587 U. S. SOIL CONSERVATION SERV. Soil surveys in rapidly expanding urban areas: Arkansas. Fort Worth, Texas, 1966. 16 p. PREP 243  
Arkansas Agricultural Experiment Station and Arkansas University Agricultural Extension Service, cooperating.
- 87588 VRIES, T. DE. The soil map of the Netherlands. (Du) Neth. Dir. Landbouw. Landbouw-voorlichting 25(1):23-26, map. Jan.1968. 12 N383M
- 87589 WAMBEKE, A. VAN. Recent developments in the classification of the soils of the Tropics. Soil Sci. 104(5):309-313. Ref. Nov.1967. 56.8 So3
- 87590 WOPFNER, H., and TWIDALE, C. R. Geomorphological history of the Lake Eyre Basin. In Jennings, J. N., and Mabbutt, J. A. Landform studies from Australia and New Guinea, p.119-143. Ref. 1967. GB381.J4
- 87591 ZIMMERMAN, W. H., and BAILEY, H. H. Soil surveys help all people. Ky. Univ. Ext. Leaflet. 311, 6 p., folder, map. Feb.1968. 275.29 K415Le  
Published jointly with Kentucky Agricultural Experiment Station.
- 87592 ZUSKA, V. A contribution to the study of pseudogley soils of Northern Moravia. (Cz) Czech. Min. Zemedel. Les. Hospodar. Ustav. Vedeckotech. Inform. Rostlinna Vyroba 41(2):125-138. Ref. Feb.1968. 64.9 C33  
English summary.

## SOIL MANAGEMENT

- 87593 BARBAROSSA, N. L. A State viewpoint on river basin planning. Amer. Soc. Civil Eng. J. 94(WW2, proc. paper 5955):217-238. Ref. May 1968. 290.9 Am3Ps
- 87594 BOTZAN, M., CANARACHE, A., and BALLY, R. J. Rumanian research in soil and land utilization. 8 p. (JPRS 37,308; TT 66-33737) Transl. 16220  
Chiefly soil management.  
Translation from Stiinta Solului 4(2):4-11. 1966.  
Issued by CFSTI.
- 87595 BRUNE, G. Geologic studies help assure safe watershed structures. Soil Conserv. 33(9):204-206. Apr.1968. 1.6 So3S
- 87596 DE SOISSONS, M. New life for waste land. Country Life [London] 143(3701):294-295. Feb.8, 1968. 80 C83  
Land reclamation.
- 87597 FRANKEN-HAUSER, R. A. Watershed project keeps Texas town safe from Hurricane Beulah's floodwaters. Soil Conserv. 33(9):206. Apr. 1968. 1.6 So3S
- 87598 HEINZE, H. Ecological aspect of the "agricultural course" of Dr. Rudolf Steiner. (Ge) Lebendige Erde 2:45-51. Mar./Apr.1968. 18 L49  
Biological aspects of soil management.
- 87599 HOMUTH, O. Melioration, turning green and planting of end slopes of strong acidous, toxic tertiary material. (Ge) Forst- Holzwirt 23(5):77-82. Mar.8, 1968. 99.8 F7724  
Reclamation of strip-mined areas.
- 87600 LIN, S. Y. Hualien Hsien Wanlung Chin he ch'uan ti kai-fa kwei-hua chih yen-chiu [The study for the development planning on the riparian land of Wanlung area in Hualien Hsien]. (Ch) Taiwan Water Conserv. 16(1):53-66, map. Aug.1968. 292.8 T13  
English summary.

- 87601 MADHAVAN, K. Calibration and development tests on a Coshocton type run off sampler. *J. Soil Water Conserv. India* 15(3/4):93-102. July/Dec.1967. 56.8 J824
- 87602 PLASS, W. T., and BURTON, J. D. Pulpwood production potential on strip-mined land in the South. *J. Soil Water Conserv.* 22(6):235-238, map. Nov./Dec.1967. 56.8 J822
- 87603 ROTHACHER, J., DYRNESS, C. T., and FREDRIKSEN, R. L. Hydrologic and related characteristics of three small watersheds in the Oregon Cascades. Ogden, Pacific Northwest Forest and Range Experiment Station, Forest Service, U. S. Department of Agriculture, 1967. 54 p. aSD427.W3R6  
Bibliography, p.36-37.
- 87604 ROZELL, B. Why give your soil a vacation? *Org. Gard. Farming* 15(6):22-23. June 1968. 57.8 Or32  
Organic gardening.
- 87605 WETSELAAR, R., and others. The effect of wet season land treatment and nitrogen fertilizer on safflower, linseed, and wheat in the Ord River Valley. *Australian J. Exp. Agr. Anim. Husb.* 8(30):59-72. Ref. Feb.1968. 23 Au792  
D. F. Beech, M. J. T. Norman, and G.A. McIntyre, joint authors.  
1, Soil and crop nitrogen; 2, Safflower and linseed; 3, Wheat.
- Soil Fertility**
- 87606 ABAEVA, S. S., STESNYAGINA, T. YA., and NARZIKULOV, A. N. Inexpensive microfertilizers on cotton fields. (Rus) *Khlopkovodstvo* 4: 44-45. Apr.1968. 72.8 K522
- 87607 ABRAHAM, T. P., and KATHURIA, O. P. Growing rice in saline-alkaline soils. *Fert. News* 13(3):15-19. Mar.1968. 57.8 F4123  
Chiefly on gypsum in soil improvement and rice yields.
- 87608 ALEKSEEV, E. D., and POLYAKOV, P. V. Effect of minor elements on yields of broadbeans, grown on peat soils. (Rus) *Vestnik Sel'skokhoz. Nauk.* [Moscow] 3:111-112. Mar.1968. 20 V633
- 87609 ANDREEV, N. G., and LJUBIMOVA, E. E. Some aspects of fertilizer application to grassland in the Soviet Union. *Outlook Agr.* 5(5): 197-201. Ref. 1968. 10 Ou8
- 87610 ARIPOV, KH. Proper application of fertilizers in the Khorezem Region. (Rus) *Khlopkovodstvo* 4:12-14. Apr.1968. 72.8 K522  
Cotton.
- 87611 ASMUS, F. Use of lowland moor peat for improvement of arable sandy soils. (Ge) *Feldwirtschaft* 9(2):74-75. Feb.1968. 18 W763
- 87612 BABENKO, N. V. Physicochemical properties and effectiveness of mixed fertilizers. (Rus) *Khim. Sel'skom Khoz.* 6(4):17-20. Apr.1968. 385 K524  
Applied to wheat.
- 87613 BAERUG, R. Nitrogen fertilizing of potatoes in South-East Norway. (No) *Norsk Landbruk* 8:10,40. Apr.19,1968. 11 N8122
- 87614 BAERUG, R., and ENGE, R. Varying nitrogen fertilizer requirements of consumer potato varieties. (No) *Norsk Landbruk* 8:12-14. Apr.19,1968. 11 N8122
- 87615 BAIER, J. The effect of the fertilization with kalium on potatoes grown in soils with different agrochemical properties. (Cz) *Agrochemia* [Bratislava] 8(3):65-69. 1968. 385 Ag88  
English summary, p.3.
- 87616 BAKERMANS, W. A. P. Research on delimiting the factors of profitable beet culture on our sandy soils; potash and phosphate varietal test fields with fodder beets in 1962. (Du) *Neth. Dir. Landbouw. Landbouwoorlichting* 25(1):27-30. Ref. Jan.1968. 12 N383M
- 87617 BALAN, I. M., and NITU, S. The differentiation of the production on the slope soils, depending of the exposure. (Rum) *Probl. Agr.* [Bucharest] 20(2):43-55. 1968. 21 R862  
English summary.  
Includes fertilizing.
- 87618 BARROW, N. J. Some aspects of the effects of grazing on the nutrition of pastures. *Australian Inst. Agr. Sci. J.* 33(4):254-262. Dec.1967. 23 Au74  
Review of the literature.
- 87619 BASHMUROV, N. A. Applying fertilizers to spring wheat locally. (Rus) *Khim. Sel'skom Khoz.* 6(4):16-17. Apr.1968. 385 K524
- 87620 BASTELARE, H. VAN, and KEIJZER, R. DE. How to bring the nutritional level up to required standard in liquid fertilizing. (Fl) *Tuinbouwberichten* 32(3):100-102. Mar.1968. 80 T817
- 87621 BAUER, R. Fertilize properly in the spring! (Ge) *Mitt. Deut. Landwirt.-Ges.* 83(7):161-162. Feb.15,1968. 18 N39
- 87622 BELYAEV, G. N. Effectiveness of granulated and grain-sized potassium chloride on light soils in a piedmont area of the Ural. (Rus) *Khim. Sel'skom Khoz.* 6(1):5-10. Jan.1968. 385 K524  
Applied to potatoes and barley.
- 87623 BENEDETTI, A. For greater and better utilization of fertilizers. (It) *Agricoltura* 17(3): 19-21. Mar.1968. 16 Ag8226
- 87624 BOCKELEEE-MORVAN, A. Annual manuring and basic corrective manuring in the Senegal groundnut zone. (Fr) *Oleagineux* 23(3):179-184. Mar.1968. 77.8 OL2  
English summary.
- 87625 BOER, J. A. DE, and BRILMAN, G. Study of fertilizing. II. (Du) *Neth. Dir. Landbouw. Landbouwoorlichting* 25(2):72-74. Feb.1968. 12 N383M
- 87626 BORMATENKOV, O. Fertilization, yields and costs. (Rus) *Kartofel' Ovoshchi* 3:13. Mar. 1968. 75.8 K147  
Potatoes.
- 87627 BOTTAZZI, A. Nitrogen conditions well-being. (It) *Avvenire Agr.* 76(4):87-90. Apr.1968. 16 Av9  
Field crop fertilizing.
- 87628 BROWN, J. W., and LEBARON, M. Zinc fertilizers for beans in southern Idaho. *Idaho. Univ. Ext. Idaho Curr. Inform. Ser.* 66,2 p. Mar. 1968. 275.29 Id13Idc
- 87629 BROWNE, D., and WALSHE, M. J. Nitrogen use on grassland. 3. Effects of nitrogen and stocking rate on production per animal and per acre. *Irish J. Agr. Res.* 7(1):121-128. Ref. Apr.1968. 10.5 Ir45
- 87630 BUBLINEC, E. Production properties of Podzol soils. (Cz) *Les* [Bratislava] 24(2):60-63. 1968. 99.8 L5632  
German summary.
- 87631 BUI HUY DAP. Growing sesbania as fertilizer. *Joint Publ. Res. Serv. Transl. N. Vietnam* 359: 26-31. May 7,1968. (JPRS 45,287) DS557.A7J6  
Translation from Nhan Dan, Mar.25,1968:2. Issued by CFSTI.
- 87632 BULATKIN, G. A. Using ammonia liquor in growing sunflowers under conditions of the Tambov Region. (Rus) *Khim. Sel'skom Khoz.* 6(3):57-59. Mar.1968. 385 K524  
As fertilizers.
- 87633 CALUIANU, C., and PASA, V. The effect of chemical fertilizers in the wheat-maize rotation of slightly podzolized Brown Forest soil, from north-west of Romanian Plain. (Rum) *Probl. Agr.* [Bucharest] 20(2):29-42. Ref. 1968. 21 R862  
English summary.
- 87634 CARROLL, P. J., and MCENROE, P. Broadcast versus placed fertiliser for sugar beet. *Irish J. Agr. Res.* 7(1):23-30. Apr.1968. 10.5 Ir45
- 87635 CHAUDHRI, N. C. B. R. Response of paddy to fertiliser application. *Fert. News* 13(2):29-31. Feb.1968. 57.8 F4123



- 87636 CRADOCK, F. W., and WEIR, R. G. Effects and behaviour of nitrogenous fertilizers. *Agr. Gaz. New S. Wales* 79(3):160-168. Mar.1968. 23 N472
- 87637 DALMASSO, G. Fertilizing of the carnation. (It) *Colt. G. Vinicolo Ital.* 114(1/2):29-33. Jan./Feb.1968. 16 C72
- 87638 DANOV, G. A., and TSOI, V. K. Increase of soil fertility according to layers. (Rus) *Khlopkovodstvo* 2:35-36. Feb.1968. 72.8 K522
- 87639 DAVIDESCU, D., and REICHBUCH, L. Contributions to the study of fertilizer efficiency in a four year rotation. (Rum) *Probl. Agr. [Bucharest]* 20(2):4-19. 1968. 21 R862  
English summary.
- 87640 DEJONGHE, P. Fertilizers for greenhouse culture of vegetables. (Fl) *Tuinbouwbericht* 32 (4):146. Apr.1968. 80 T817
- 87641 DEUSS, J. Returns from fertilizing Robusta coffee based on results of twelve years trials at the Boukoko Agronomical Research Centre (Central African Republic). (Fr) *Cafe, Cacao, The* 12(1):28-38. Jan./Mar.1968. 68.8 C112  
English summary.
- 87642 DURING, C. Fertilisers and soils in New Zealand farming. *New Zeal. Dep. Agr. Bull.* 409, 322 p.,map. Ref. 23 N48Bu
- 87643 DZHURAEV, A. D., and YUSUPOV, S. Agrochemical services in the Andizhan Region. (Rus) *Khlopkovodstvo* 3:25-26. Mar.1968. 72.8 K522  
Fertilization of cotton.
- 87644 EHLERS. Evaluation of a fertilizing experiment for decorative material. (Ge) *Forst-Holzwirt* 23(2):27-30. Jan.23,1968. 99.8 F7724  
Minerals for Douglas fir [*Pseudotsuga menziesii*].
- 87645 ELLIS, B. G. How to get the most out of your fertilizer dollar. *Hoards Dairyman* 113(11):697. June 10,1968. 44.8 H65  
Application.
- 87646 EMMOND, G. S. Equipment for the safe application of radioactive phosphorus to potatoes. *Can. J. Soil Sci.* 48(2):222-224. June 1968. 56.8 C162
- 87647 FABBRI, E. Modern techniques of grape fertilizing. (It) *Raccolto* 9(4):79-83. Apr.1968. 16 R11
- 87648 FILIP'EV, I. D. Effectiveness of local application of superphosphates under conditions of the southern steppe of Ukrainian SSR. (Rus) *Khim. Sel'skom Khoz.* 6(4):11-12. Apr.1968. 385 K524  
Effect on grain yields.
- 87649 FISCHETTI, B. Fertilizers in the South. (It) *G. Agr.* 78(17):221. Apr.28,1968. 16 It1G
- 87650 FORTE, V. Olive fertilizing in Campania. (It) *Raccolto* 9(1/2):7-10. Jan./Feb.1968. 16 R11
- 87651 GALGOCZI, J. Three-year results of sunflower fertilization trials on sandsoil in County Szabolcs. (Hu) *Novenytermeles* 1:35-47. Ref. Mar.1968. 64.8 N76  
English summary.  
Nitrogen, phosphorus, potassium effects on yield.
- 87652 GERICKE, S. Reciprocal action of fertilizer nutrients in potatoes. (Ge) *Kartoffelbau* 19 (1):6-7. Jan.1968. 75.8 K145  
Effects on yields.
- 87653 GOHAR, A. I., and others. Sodium as a guide to quick soil evaluation & determination of suitability for field crops use. *J. Soil Sci. United Arab Repub.* 7(2):83-92. Ref. 1967. 56.8 J825  
M. A. A. Hussein, H. Qowessy, S. El Sawaby, Y. Tewfik, and H. A. El Gawad, joint authors.
- 87654 GORLITZ, H., and ANSORGE, H. The optimal need of nutrients. (Cz) *Agrochemia [Bratislava]* 8(3):69-72. 1968. 385 Ag88  
English summary, p.3.  
Field crop fertilizers.
- 87655 GORSHKOV, L., and KOCHER, S. Peat as fertilizers. (Rus) *Zemledelie* 12:22-23. Dec. 1967. 20 Z44  
Tested on grain and potatoes.
- 87656 GOTZE, H. Evaluation criteria for phosphate fertilizers and their strength. (Ge) *Mitt. Deut. Landwirt.-Ges.* 83(2):30,32. Jan.11,1968. 18 N39
- 87657 GREWAL, J. R., RANDHAWA, N. S., and BHUMBLA, D. R. Response of micronutrients on wheat and maize. *Fert. News* 13(2):37-38. Feb.1968. 57.8 F4123
- 87658 GRIMES, D. W., and others. Irrigation and nitrogen for cotton; a yield surface and optimum combinations on a Panoche loam soil. *Calif. Agr.* 21(11):12-14. Nov.1967. 100 C12Cag  
L. Dickens, W. Anderson, and H. Yamada, joint authors.
- 87659 GRIMES, W. H. Insecticide-liquid fertilizer combinations. *Agrichem. West* 11(5):20-22. May 1968. 381 Ag85
- 87660 GUINARD, A. Conservation and improvement of soil fertility in Africa.3. Chemical fertilizers. *World Crops* 20(1):62-63. Mar.1968. 281.8 W892
- 87661 GUSEINOV, R. K., AKHUNDOV, F., and BAIRAMOV, M. Application of different forms of nitrogen fertilizers. (Rus) *Khlopkovodstvo* 3:22-24. Mar.1968. 72.8 K522  
To cotton.
- 87662 GUSSONE, H. A. General culture fertilizing; yes or no? (Ge) *Forst-Holzwirt* 23(5):91-94. Mar.8,1968. 99.8 F7724  
In forestry.
- 87663 HABERLAND, R. Are errors possible in pasture fertilizing? (Ge) *Mitt. Deut. Landwirt.-Ges.* 83(7):187-190. Feb.15,1968. 18 N39
- 87664 HEINTZE, R. Experience to-date with liquid manures in potato culture. (Ge) *Kartoffelbau* 19(1):12-13. Jan.1968. 75.8 K145
- 87665 HERRMANN, E. W. Intensification of grasslands through very high additions of nitrogen. (Ge) *Mitt. Deut. Landwirt.-Ges.* 83(17):584-586,588. Apr.25,1968. 18 N39
- 87666 HEWITT, A. A., BEUTEL, J. A., and LILELAND, O. Nitrogen fertilization for Bartlett pears. *Calif. Agr.* 21(12):4-5. Dec.1967. 100 C12Cag
- 87667 HOGG, D. E., and KARLOVSKY, J. The relative effectiveness of various magnesium fertilizers on a magnesium-deficient pasture. *New Zeal. J. Agr. Res.* 11(1):171-183. Ref. Feb.1968. 23 N4892
- 87668 HOLMEN, H. Forest production on peat soils. (Sw) *Vaxt-Naring-Nytt* 1:17-22. 1968. 57.8 V47  
English summary, p.4.  
Fertilizing.
- 87669 HOLOUBEK, A. Foliar application of fertilizers for fruit. (Cz) *Zahradnicke Listy* 61(5):135-136. May 1968. 80 Z12
- 87670 HOLT, E. C., and LANCASTER, J. A. Yield and stand survival of "Coastal" bermudagrass [*Cynodon dactylon*] as influenced by management practices. *Agron. J.* 60(1):7-11. Jan./Feb. 1968. 4 Am34P  
Nitrogen fertilization.
- 87671 HUBER, G. Foliar application of nitrogen fertilizer and plant protection in fruit culture. (Ge) *Chem. Tech. Landwirt.* 19(5):191-192. May 1968. 384 C4292
- 87672 HUFF, W. C. Can we modernize the oxcart farmer? *Farm Chem.* 131(6):124,126,128,130. June 1968. 57.8 Am3  
Chiefly on a fertilizer program for assisting developing areas such as Puerto Rico.
- 87673 HUPPERT, V. Win the War on Hunger with nitrogen? (Ge) *Mitt. Deut. Landwirt.-Ges.* 83 (3):49-50,58,60,62. Jan.18,1968. 18 N39  
Increasing yields with fertilizer.
- 87674 ISAKOV, K. Application of nitrogen fertilizers to pastures in the mountain areas of Kirghizia. (Rus) *Khim. Sel'skom Khoz.* 6(2):17-19. 1968. 385 K524
- 87675 IVERSEN, K. Arable land needs liming. (Sw) *Allmanna Svenska Utsadesaktiebol. Svalof* 1: 15-20. 1967. 61.9 Sv22

- 87676 JAGTENBERG, W. D. Experiences with a nitrogen quantity test on grassland. (Du) Neth. Dir. Landbouw Landbouwvoorlichting 25(4): 190-193. Apr 1968. 12 N383M  
Study of increase in yields.
- 87677 JOHANSSON, O. The favourable crop year of 1967 is affecting the planning of fertilization in 1968. (Sw) Vaxt-Naring-Nytt 1:1-4. 1968. 57.8 V47  
English summary, p.1.
- 87678 JONGHE, P. DE. Fertilizers for greenhouse culture of vegetables. Tuinbouwberichten 32(3): 95-96. (Cont.) Mar.1968. 80 T817
- 87679 KACHALOV, I. Effectiveness of fertilizers and economic poisons. (Rus) Kartofel' Ovoshchi 3: 12-13. Mar.1968. 75.8 K147  
Applied to potatoes.
- 87680 KALINENKO, I., and others. Foliar application of nitrogen. (Rus) Zemledelie 3:18-20. Mar. 1968. 20 Z44  
L. Chorba, A. Gritsenko, and K. Basova, joint authors.  
Wheat.
- 87681 KAMPE, R. Investigations of the effect of chemical plant protection agents on soil fertility. (Ge) Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz. Sonderheft 4:169-174. 1968. 464.8 Z33  
English summary.  
Soil structure and soil microorganisms.
- 87682 KARPENKO, P. V., and EREMENKO, I. K. Effects of mineral fertilizers on yields and quality of sugar beets. (Rus) Khim. Sel'skom Khoz. 6(3):10-12. Mar.1968. 385 K524
- 87683 KELTIKANGAS, M., and SEPPALA, K. Estimates on the profitability of fertilizing drained peatlands. (Fi) Suo 19(1):1-11. Feb.29,1968. 54.8 Su7  
English summary.
- 87684 KEREMIDARSKA, S. Growing of green-manure crops in irrigated apple plantings. (Bu) Gradinar. Lozar. Nauk. 4(5):3-13. Ref. 1967. 87 G75  
English summary.
- 87685 KINSELLA, M. N. Lime: how much and why. J. Agr. [Melbourne] 66(3):100-101. Mar.1968. 23 V66J
- 87686 KIUCHI, T. Fertilization for lowland rice. Agr. Asia 6(5):29-41. May 1968. 22.5 A15
- 87687 KNAUER, N. The dependence of the lactate soluble nutrient content of the soil of replenishment through manuring. (Ge) Z. Acker- Pflanzenbau 127(2):89-102. Ref. Feb.1968. 18 J825  
English summary.
- 87688 KNAUER, N. What does proper fertilizing mean? (Ge) Mitt. Deut. Landwirt.-Ges. 83(12): 383-384. Mar.21,1968. 18 N39
- 87689 KNUDSEN, H., and GREGERSEN, A. Experiments with weeding and fertilization of newly planted sheltering trees and varying thinning out and fertilization of old windbreak-trees. (Da) Tidsskr. Planteavl 71(2):231-245. 1967. 11 T439  
English summary.  
Chiefly fertilizing.
- 87690 KOREN'KOV, D. A. Mineral fertilizers applied to grain. (Rus) Khim. Sel'skom Khoz. 6(2):2-5. 1968. 385 K524
- 87691 KOSTUCH, R. Efficiency of grassland fertilization in the mountains. (Pol) Nowe Roln. 17(4): 16-17. Feb.16/29,1968. 20.5 N86
- 87692 KOTORA, M. New trends in the application of fertilizers for potatoes. (Cz) Agrochemia [Bratislava] 8(2):39-40. 1968. 385 Ag88  
English summary.
- 87693 KREUTZER, K. Nutritional status and yield formation in current long-term fertilizing experiments with pine and spruce. (Ge) Mitt. Staatsforstverwalt. Bayerns 36:153-174, map. Ref. 1967. 99.9 B342  
Includes increment studies.
- 87694 KRISTIN, J. Increasing the yield of peas grown for seed with intensified agrotechnique. (Cz) Agrochemia [Bratislava] 8(2):41-43. 1968. 385 Ag88  
English summary.  
Includes mineral fertilizers.
- 87695 KROGMAN, K. K., and MILNE, R. A. Productivity indicators for a Brown Solonetz and associated soils under irrigation. Can. J. Soil Sci. 48(2):143-150. June 1968. 56.8 C162  
With reference to barley yields.
- 87696 KURTEN, P. W., and TROST, H. Organic fertilizing in grain-rich crop rotations on sandy soils. (Ge) Mitt. Deut. Landwirt.-Ges. 83(18): 624-626, 628. May 2, 1968. 18 N39
- 87697 LÄMMERS, H. W. Phosphate and potash fertilizing of grassland. (Du) Neth. Dir. Landbouw. Landbouwvoorlichting 25(1):31-34. Jan.1968. 12 N383M
- 87698 LAZURSKII, A. V., KARDINALOVSKAYA, R. I., and LEBEDINSKAYA, V. N. Effect of complete mineral fertilization on fertility of soil and the productivity of culture involved in crop rotation. (Rus) Khim. Sel'skom Khoz. 6(4):2-6. Apr.1968. 385 K524  
Field crops.
- 87699 LEU, H. Recent aspects in fruit fertilizing. (Ge) Grune 96(5):150-162. Feb.2,1968. 17 Sch9  
Switzerland.
- 87700 LEVIN, A. M., and SVIRIDOV, A. S. Application of mineral fertilizers to corn grown for silage on leached Chernozem soils in the Tambov Region. (Rus) Khim. Sel'skom Khoz. 6(2): 8-10. 1968. 385 K524
- 87701 LICHEV, S., and ARSOV, K. Fertilizing Djebel-Basma tobacco type growing on eroded soils. (Bu) Bulg. Tyutyun 6:17-22. 1967. 69.8 B872  
Yields.
- 87702 LICHEV, S. Fertilizing tobacco on slopes and eroded lands in the region of Blagoevgrad. (Bu) Bulg. Tyutyun 8/9:4-7. 1967. 69.8 B872
- 87703 LYGSTAD, I., and EINEVOLL, O. Potassium fertilizer applied at varying rates and times to grassland. (No) Forsk. Forsok Landbruket 18 (4):165-188. 1967. 11 F772  
English summary.
- 87704 MALQUORI, A. Minor elements of fertility. (It) Agricoltura 17(2):28-36. Feb.1968. 16 Ag8226  
English summary, p.7.  
Minor elements in soils and effects on plants.
- 87705 MAMEDOV, F. S. Results of applying mineral fertilizers to winter wheat in the Azerbaijan SSR. (Rus) Khim. Sel'skom Khoz. 6(4):9-10. Apr.1968. 385 K524  
Effect on yields and the quality of grain.
- 87706 MANN, K. S. The crucial input fertilisers. Fert. News 13(2):15-18. Feb.1968. 57.8 F4123  
Field crop fertilizing.
- 87707 MAZAEVA, M. M. Supplying agricultural requirements with magnesium fertilizers. (Rus) Khim. Sel'skom Khoz. 6(3):2-7. Ref. Mar.1968. 385 K524  
Fertilization of field crops and its effect on yields.
- 87708 MEHROTRA, C. L., and LEHRI, L. K. Studies on the nutritional requirement of wheat crop. I. Limitations of foliar diagnosis techniques and variations in plant composition due to fertilizer treatment. Indian Soc. Soil Sci. J. 15(4):217-227. Ref. Dec.1967. 56.9 In2
- 87709 MENGEL, K., and FORSTER, H. The effect of intermittent timing of K applications on the yield and quality of barley. (Ge) Z. Acker-Pflanz. 127(4):317-326. May 1968. 18 J825  
English summary.
- 87710 MKHAILOVA, M. F. Fertility and microbiological activities in pea soils after treatment with herbicides. (Rus) Khim. Sel'skom Khoz. 6(3):44-46. Ref. Mar.1968. 385 K524  
Trietazine, atratone and prometryne used.



- 87711 MINEEV, V. G., and GONCHAROV, V. A. Effects of mineral fertilizers on yields and quality of the hard winter wheat. (Rus) Khim. Sel'skom Khoz. 6(1):2-4. Ref. Jan.1968. 385 K524
- 87712 MOLINA ABELA, M. Sulfur in fertilizing. (Sp) Agricultura [Madrid] 37(432):185-189. Apr.1968. 15 Ag84
- 87713 MUSAIEV, T. S., KHACHATUROV, N. A., and ISMAILOV, T. G. Plowing down green manures for cotton planting. (Rus) Khlopkovodstvo 3:26-27. Mar.1968. 72.8 K522
- 87714 NGHIEM-PHU-MON. Duckweed in Nam Ha Province. Joint Publ. Res. Serv. Transl. N. Vietnam 302:54-57. Jan.24,1968. (JPRS 44,138) DS557.A7J6  
Used as green manure.  
Translation from Nhan Dan, Dec.8,1967:2.  
Issued by CFSTI.
- 87715 NIAZI, M. H., AHMED, J., and ASGHAR, M. Effect of NPK application on the yield of zeera (Cumin cyminum). West Pakistan J. Agr. Res. 5(4):116-117. Dec.1967. 22 W52
- 87716 NILSSON, L. G. The influence of uneven spreading of nitrogen on yield and quality of cereal grains. (Sw) Vaxt-Naring-Nytt 1:23-28. 1968. 57.8 V47  
English summary, p.5.
- 87717 NIZSALOVSKY, J. Mineral fertilizing in the spring. (Hu) Magyar Mezőgazdaság 23(6):7. Feb.7,1968. 19 M27
- 87718 OOMMEN, P. K. Application of radioactive tracer technique to studies of phosphatic fertilizer utilization by maize, as revealed by field experiments. Indian J. Agr. Sci. 37(6):488-494. Dec.1967. 22 Ag831
- 87719 ORLOV, V. Local placement of fertilizers under cabbage. (Rus) Kartofel' Ovoshchi 3:24-25. Mar.1968. 75.8 K147  
Minerals.
- 87720 OUD, P. Grass and potassium. NFO (Ned. Fruittelers Organ.) Ber. 24(4):99,101. Apr. 1968. 95.9 N28
- 87721 PAL, M., and BAIRD, G. B. Crop residue management and nitrogen fertilisation in wheat-maize rotation. Fert. News 13(2):9-13. Feb. 1968. 57.8 F4123
- 87722 PATEL, C. S., PANDEY, S. N., and DARGANL, K. S. Mesta responds well to nitrogen. Fert. News 13(3):37-38. Mar.1967. 57.8 F4123
- 87723 PATEL, V. J. Effect of N and P on yield of groundnut in Gujarat. Fert. News 13(5):24-27. May 1968. 57.8 F4123
- 87724 PATTERSON, H. D. Serial factorial design. Biometrika 55(1):67-81. Mar.1968. 442.8 B522  
Design of long-term experiments in application of fertilizers to field crops.
- 87725 PEHL, P., and STURM, H. Influence of green manures in potato culture on soil performance. (Ge) Kartoffelbau 19(1):11-12. Jan.1968. 75.8 K145
- 87726 PETROV, N., and GOLINKOV, V. Mineral fertilization of cucumber seedlings. (Rus) Kartofel' Ovoshchi 3:21. Mar.1968. 75.8 K147
- 87727 PIONKE, P. B., and WALSH, L. M. When and how should we apply micronutrients? Hoard's Dairyman 113(10):644,654. May 25,1968. 44.8 H65
- 87728 POMIER, M. Application of minor elements to young coconuts planted on atoll. (Fr) Oleagineux 23(4):241-242. Apr.1968. 77.8 OL2
- 87729 PORGASAAR, V. The influence of fertilization on the growth of pine seedlings in bog soils. (Es) Est. Sel'skokhoz. Akad. Sb. Nauch. Tr. 50:153-165. 1968. 106 Es83  
English summary.
- 87730 POSTNIKOV, A. Recent activities of the state agrochemical service in the RSFSR. U. S. Joint Publ. Res. Serv. Transl. USSR Agr. 228: 5-10. Dec.22,1967. (JPRS 43,795)  
173 J663Tso  
For effective utilization of fertilizers.  
Translation from Ekonomicheskaya Gazeta 47:27. Nov.1967.  
Issued by CFSTI.
- 87731 POULSEN, E. Fertilizing of fruit trees. (Da) Erhvervsfrugtavlere 35(3):101-105. Mar.1, 1968. 80 Er3
- 87732 PRASAD, R., and BAINS, S. S. Nitrification inhibitors for increasing efficiency of fertilizer nitrogen in paddy soils. Fert. News 13(5):37-38. May 1968. 57.8 F4123
- 87733 QURESHI, I. M., and YADAV, J. S. P. Use of fertilizers and manures in forestry. Indian Forest. 93(12):777-794. Ref. Dec.1967. 99.8 In2
- 87734 RAJAGOPAL, C. K., and others. Fertility status of soils of Thanjavur District. Fert. News 13(5):17-22, map. May 1968. 57.8 F4123  
A. Natarajan, G. Rajendran, and J. Helkiah, joint authors.
- 87735 RANDA, F. Application of fertilizers to pastures on Vysocina uplands. (Cz) Uroda 16(3): 116-119. Mar.1968. 64.8 Z12  
Effect on yields.
- 87736 RAUHE, K., and ERMICH, D. Problems of organic fertilizing in cooperative communities. (Ge) Feldwirtschaft 9(2):53-56. Feb.1968. 18 W763
- 87737 RAYCHAUDHURY, S. P. Role of organic manure and green manuring in the maintenance of soil fertility in India. J. Soil Water Conserv. India 15(3/4):57-63. Ref. July/Dec.1967. 56.8 J824
- 87738 ROBINSON, J. B. D. Measuring soil nitrogen available to crops in East Africa. East Afr. Agr. Forest. J. 33(3):269-280. Jan.1968. 24 Ea74
- 87739 RUSMINI, B. The fertilizing of permanent pastures. (It) Raccolto 9(1/2):11-13. Jan./Feb. 1968. 16 R11
- 87740 SAMSONOVA, T. M. Planning method for application of fertilizers. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 128:257-262. 1967. 20 M857
- 87741 SCHMIDT, F. Commercial fertilizers and potato culture. (Ge) Kartoffelbau 19(1):1-2. Jan.1968. 75.8 K145
- 87742 SEVAST'YANOVA, V., and KHODEEVA, L. Fertilization of winter cabbage. (Rus) Kartofel' Ovoshchi 3:26. Mar.1968. 75.8 K147
- 87743 SHADMANOV, K. Response of the state farm "Savai" soils to the application of mineral fertilizers. (Rus) Akad. Nauk Uzb. SSR. Dokl. 9:55-56. 1967. 511 Uz1  
Cotton.
- 87744 SHARMA, K. C., and others. Response of Ganga hybrid maize-3 to different sources of nitrogen in Tarai. Fertiliser News 13(4):24-26. Apr.1968. 57.8 F4123  
M. C. Saxena, S. C. Modgal, and K. N. Arora, joint authors.
- 87745 SHINKAREV, I. P. Vetch seed productivity as related to application of different forms of phosphorus fertilizers. (Rus) Khim. Sel'skom Khoz. 6(3):14-16. Mar.1968. 385 K524
- 87746 SHIROSHITA, T. General aspects of the development of fertilization techniques. Agr. Asia 6(1):30-37. 1968. 22.5 Aj5  
Fertilizing of rice in Japan.
- 87747 SHIROSHITA, T., and others. Studies on the periodical alternation of lowland and upland field from the standpoint of soil and fertilizer. 130 p. Ref. Transl. 16743  
K. Ishii, K. Takahashi, and J. I. Kaneko, joint authors.  
Rice in crop rotation.  
Translation from Kanto-Tosan Agricultural Experiment Station. Journal 16:50-96. May 1960.

- 87748 SHUSTROV, V. S. Application of fertilizers in strips to sugar beets. (Rus) Khim. Sel'skom Khoz. 6(3):12-13. Mar.1968. 385 K524
- 87749 SINHA, H., and PRASAD, K. Performance, transformation and movement of urea in acid soils. Indian Soc. Soil Sci. J. 15(4):281-287. Ref. Dec.1967. 56.9 In2  
In relation to rice and wheat yields.
- 87750 SMITH, A. D., and others. Fertilizer response of fescue grassland vegetation. Can. J. Soil Sci. 48(2):125-132. Ref. June 1968. 56.8 C162  
A. Johnston, L. E. Lutwick, and S. Smoliak, joint authors.
- 87751 SMITH, A. N., and WOODWARD, H. A. Care needed in the use of new concentrated fertilizers. Agr. Gaz. New S. Wales 79(3):150-151. Mar.1968. 23 N472
- 87752 SPICKA, F. The effect of fertilizers and preceding crops on the yields of winter wheat. (Cz) Uroda 16(5):168-169. May 1968. 64.8 Z12
- 87753 SRIRAMAMURTHY, V. M. M., and KUMARASASTRY, V. V. Relative efficiency of ammonium phosphate, nitrophosphate and single superphosphate as a source of phosphate to rice. Fert. News 13(3):29-31. Ref. Mar.1968. 57.8 F4123
- 87754 STAEHLER, H. Are complete fertilizers suited to mowed meadows? (Ge) Mitt. Deut. Landwirt.-Ges. 83(13):428,430,432. Mar.28,1968. 18 N39
- 87755 STANISAVLJEVIC, D. Fertilizers and yields of the winter wheat variety San Pastore in Kosovo region. (Se) Glasnik 12(3):43-47. 1968. 280.28 Z13  
Mineral fertilizers.
- 87756 STEFANISHIN, S. The kind of fertilizers and the dates of their application. (Rus) Kartofel' Ovoshchi 2:6-7. Feb.1968. 75.8 K147  
Potatoes.
- 87757 STEPAN, M. Is the application of fertilizers from the aircraft effective? (Cz) Statni Statky. 11(2):28-29. 1968. 19.5 St2
- 87758 STOBBE, F. Soil fertility—basis of agricultural production. (Ge) Mitt. Deut. Landwirt.-Ges. 83(17):581-582. Apr.25,1968. 18 N39
- 87759 STOLYPIN, E. I., and SULEIMANOV, I. S. Dates for application of fertilizers on the meadow soils in the Samarkand Region. (Rus) Khlopkovodstvo 3:21-22. Mar.1968. 72.8 K522  
Cotton.
- 87760 STRNAD, P. The utilization of green manures. (Cz) Uroda 16(5):180-182. May 1968. 64.8 Z12
- 87761 SUPUT, M., MITROVIC, A., and VUKSANOVIC, S. The effect of fertilizers and the density of planting on the yields of soybeans. (Se) Arh. Poljoprivredne Nauk. 20(68):31-39. Ref. 1967. 21.5 Y9  
English summary.
- 87762 SYNGHAL, K. N. Diammonium phosphate; its production process, physical and chemical characteristics and agronomic performance. Fert. News 13(2):32-34. Feb.1968. 57.8 F4123
- 87763 TALLI, P. On the influence of needle litter, mineral fertilizers, and low moor peat on the growth of pine seedlings. (Es) Est. Sel'sk Khoz. Akad. Sb. Nauch. Tr. 50:166-174. 1968. 106 Es83  
German summary.
- 87764 TAMBOLI, P. M., and TULSI, M. J. S. Use of basic slag as a liming material in acid soils of Madhya Pradesh. Indian Soc. Soil Sci. J. 15(4):229-235. Ref. Dec.1967. 56.9 In2  
Includes its effect on rice yields.
- 87765 THOMAS, F. H. Why fertilize pastures? (Sp) Tierra [Mexico] 23(4):268,319. Apr.1968. 8 T445
- 87766 TOMAIER, J. Magnesium as fertilizer. (Cz) Uroda 16(5):192-193. May 1968. 64.8 Z12
- 87767 TROFIMOV, N. P. Effect of mineral fertilizers on yields of winter wheat in the Tambov Region. (Rus) Khim. Sel'skom Khoz. 6(4):62. Apr.1968. 385 K524
- 87768 TROPEA, M., and FISICHELLA, G. The current state of research on foliar diagnosis in citrus culture. (It) Agricoltura 17(2):37-46. Ref. Feb.1968. 16 Ag8226  
English summary, p.7.
- 87769 TULIN, S. A. Using magnesium containing phosphorus fertilizers in growing potatoes on sandy soils in the Bryansk Region. (Rus) Khim. Sel'skom Khoz. 6(2):6-8. 1968. 385 K524
- 87770 UEDA, M. Studies on the rate of additional "hitetsudo" for paddy rice, barley and onion. 15 p. Transl. 14769  
Effect on yields.  
Translation from Proceedings of the Meeting of Agricultural Research Workers in Tokai and Kinki. No. 5. Mar.1955.
- 87771 UNANYANTS, T. P., and KOL'CHUGINA, V. V. Production and application of minor element fertilizers in the USSR and others foreign countries. (Rus) Khim. Sel'skom Khoz. 6(3):17-19. Ref. Mar.1968. 385 K524
- 87772 UNGLAUB, H., and KLOCKER, W. The effects of a differentiated fertilizer treatment on development, quality of fodder and yield of a mountain false oat grass [Arrhenatherum montanum] meadow. (Ge) Wirtschaftseigene Futter 14(2):123-136. Ref. Apr.1968. 389.79 F98  
English summary.
- 87773 VANHA, B. The intensive application of fertilizers at the wrong date. (Cz) Uroda 16(4):147-149. Apr.1968. 64.8 Z12  
Effects on potato yields.
- 87774 VEER, J. de. The economics of use of nitrogen on grassland. (Du) Neth. Dir. Landbouw. Landbouwwoorlichting 25(4):186-189,193. Apr. 1968. 12 N383M
- 87775 VELICH, J., and others. Is the intensive application of fertilizers advantageous only on perennial pastures of high yields? (Cz) Uroda 16(4):153-155. Apr.1968. 64.8 Z12  
J. Strafelda, J. Prajzler, and A. Belohoubek, joint authors.
- 87776 VERMA, G. P. Manuring of crops under dry farming conditions in Madhya Pradesh. Fert. News 13(5):31-35. Ref. May 1968. 57.8 F4123
- 87777 VERMA, S. K. C., and THAKUR, C. Nitrogen response curve and economics of fertiliser application in early winter rice transplanted by modified techniques. Fertiliser News 13(4):36-40. Apr.1968. 57.8 F4123
- 87778 VETROMILE, E. Peach fertilizing in Campania. (It) Raccolto 9(4):76-78. Apr.1968. 16 R11
- 87779 VIRO, P. Fertilizing of moor land. (Sw) Skogsbruket 38(4):95-97. 1968. 99.8 Sk59  
Forest fertilizing in Finland.
- 87780 VIRO, P. J. Forest manuring. (Fi) Metsäaloudellinen Aukakaulehti 85(4):116-118,121, 137. Apr.1968. 99.9 F49
- 87781 VLCEK, F. Fertilizers for vegetables grown in greenhouses. (Cz) Zahradnicke Listy 61(5):142-143. May 1968. 80 Z12
- 87782 VOSKERUSA, J. Contribution to the nutrition of poppy under the conditions of large-scale production technology. (Cz) Agrochemia [Bratislava] 8(3):72-75. Ref. 1968. 385 Ag88  
English summary, p.3.
- 87783 WALKER, W. M., and WELCH, L. F. Band vs. broadcast fertilizer applications; banding phosphorus and potassium often gives better corn yields. Ill. Res. 10(2):6-7. Spring 1968. 100 IL64
- 87784 WAMANAN, P. P., and MAL, B. N. Fertiliser application and placement in chick pea. Fert. News 13(2):39-42. Ref. Feb.1968. 57.8 F4123
- 87785 WERNER, K., and TILLACK, T. A proposal for estimating the cost of applying organic matter in plant production. (Ge) Feldwirtschaft 9(2):59-61. Feb.1968. 18 W763  
Estimation of soil and plant requirements in organic fertilizers.



- 87786 YARKOVOI, A. Foliar application of fertilizers to winter grain in the Polesie. (Rus) Zemledelie 3:17-18. Mar.1968. 20 Z44  
Wheat and rye.
- 87787 YASUDA, T., and others. Effects of sodium on sugar beets. (Ja) Hokkaido Nat. Agr. Exp. Sta. Res. Bull. 92:45-53. Ref. Feb.1968. 107.6 H68  
M. Kushizaki, H. Nishi, S. Hoshi, and A. Yoshino, joint authors.  
English summary.  
Applied with various types of nitrogen fertilizers.
- 87788 YURKIN, S. N. Application of mineral fertilizers in the Gorki Region. (Rus) Khim. Sel'skom Khoz. 6(2):62-65. 1968. 385 K524  
Field crops.
- 87789 ZIYATDINOV, KH., and KUZNETSOVA, I. Contribution of the agrochemical laboratory to production. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 10:20-21. Oct.1967. 281.8 Se4  
Fertilizer advisory services of the Kazan Regional Agrochemical Laboratory [Kazanskaya Zonal'naya Agrokhimicheskaya Laboratoriya].
- 87790 ZUCCHI, G. Intensification of chemical fertilizer consumption, fundamental factor in agricultural renewal. (It) Raccolto 9(1/2):3-6. Jan./Feb.1968. 16 R11  
--
- Soil Tillth and Tillage
- 87791 ABDURAKHIMOV, R., and IBRAGIMOV, SH. Effect of petroleum mulch on soil and cotton. (Rus) Khlopkovodstvo 3:44-45. Mar.1968. 72.8 K522
- 87792 AYERZA LYNCY, R. R. B. Sod seeding, promise of the future? (Sp) Soc. Rural Argent. An. 102(1/2):11-12,14. Jan./Feb.1968. 9 Sol
- 87793 BOYLE, A. J. Deep ploughing overcomes a problem. Agr. Gaz. New S. Wales 78(12):703-707, map. Dec.1967. 23 N472  
To improve alfalfa soil.
- 87794 FOLMER, N. I. The effect of stubble coultures on the yield. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 2:54-56. Feb.1968. 20 V633  
English summary.  
Wheat culture.
- 87795 FOULON, M. A. Fallowing of permanent pastures and natural fields. (Sp) Soc. Rural Argent. An. 102(1/2):38,40-42. Jan./Feb.1968. 9 Sol
- 87796 HEINONEN, R. Repeated tillage is the most effective method for the control of couchgrass. (Sw) Jord Skog 20(3):22-23. 1968. 58.8 M373
- 87797 IPPOLITOV, D., and KOSOV, O. Deep plowing. (Rus) Kartofel' Ovoshchi 2:4-5. Feb.1968. 75.8 K147  
Potato culture.
- 87798 JIRKU, L. Notes on the preparation of soil and planting of sugar beets. (Cz) Uroda 16(3):102-103. Mar.1968. 64.8 Z12
- 87799 KAHNT, G. Seeding without plowing? (Ge) Mitt. Deut. Landwirt.-Ges. 83(14):463-465. Apr.4,1968. 18 N39  
Minimum tillage.
- 87800 KELSEY, R. F. S., and BASS, G. A. Pasture furrows make better use of rain. Queensland Agr. J. 94(4):218-220. Apr.1968. 23 Q33  
Improvement of the pastures and prevention of erosion.
- 87801 KHAN, A. M., SOLANGI, G. Y., and ANCES, S. M. Effect of post-harvest plowing on succeeding wheat crop. West Pakistan J. Agr. Res. 6(1):1-10. Ref. Mar.1968. 22 W52
- 87802 KNAP, J. Limited tillage: your path to cutting down production costs. Good Farming 19(3):54,56. Apr.1968. 7 G59
- 87803 KOTOVRASOV, I. P., and SEMCHENKOV, G. YA. The autumn tillage and the efficiency of fertilizers in crop rotations. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 2:1-12. Feb.1968. 20 V633  
English summary.
- 87804 KRUGER, K. W. Beet tillers in a single operation. (Ge) Feldwirtschaft 9(3):121-123. Mar. 1968. 18 W763
- 87805 SCAIFE, A. The effect of a cassava "fallow" and various manurial treatments on cotton at Ukiriguru, Tanzania. East Afr. Agr. Forest. J. 33(3):231-235. Jan.1968. 24 Ea74
- 87806 SCHMIDT, A. Efficient use of equipment for spring tillage through optimization with aid of an approximation method. (Ge) Feldwirtschaft 9(3):108-110. Mar.1968. 18 W763  
Linear programming.
- 87807 SCHWERDTLE, F. Direct seeding--utmost form of minimal soil tillage. (Ge) Mitt. Deut. Landwirt.-Ges. 83(7):184-187. Feb.15,1968. 18 N39
- 87808 STEVENS, W. W., ABERNATHY, C. C., and POLLOCK, J. E. Progress in minimum tillage. Soil Conserv. 33(11):246-247. June 1968. 1.6 So3S  
Sod and mulch planting of corn in North Carolina.
- 87809 SURMACH, G. P. The effect of cultural methods on the runoff of thaw waters and washout of light Chestnut soils. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 2:13-19. Feb.1968. 20 V633  
English summary.  
Chiefly plowing.
- 87810 VOTOU PAL, B. A contribution to the determination of the effect of basic tillage and preparation of soils on potato yields. (Cz) Czech. Min. Zemedel. Les. Hospodar. Ustav Vedeckotech. Inform. Rostlinna Vyroba 41(2):155-166. Ref. Feb.1968. 64.9 C33  
English summary.  
Includes fertilizers.
- Drainage, Irrigation, Water Supply, and Flood Control
- 87811 AARSLAND, S. Selection of irrigation equipment for tomatoes and cucumber. (No) Gartneryrket 58(7):118-120. Feb.16,1968. 80 G1938
- 87812 ACERBI, E., and ARDEMAGNI, G. M. Remarks on the measurement of the water distributed by sprinkling irrigation systems. (It) Irrigazione 14(4):16-20. Ref. Dec.1967. 55.8 Ir733  
English summary.
- 87813 ARREGUIN, V. I. The aquifer strata can be increased. (Sp) Panagra 7(88):14-15,32-33, map. Feb.1968. 8 P196  
Mexico.
- 87814 ARUTYUNYAN, R. N. Use of filters, made of a profiled band, in drainage. (Rus) Gidrotekh. Melior 12:72-77. Dec.1967. 290.8 G362
- 87815 ASKOCHENSKII, A. N. Role of science in developing hydrotechnical land-reclamations. (Rus) Gidrotech. Melior. 2:1-5. Feb.1968. 290.8 G362
- 87816 AVRIGEANU, GH., and VASILIU, M. Contributions to the establishment of the regime of irrigation for main crops in the zone of Braila. (Rum) Probl. Agr. [Bucharest] 20(3):56-69. 1968. 21 R862  
English summary.
- 87817 BARKER, P. W. Water conservation. Kenya Farmer 139:22. (Cont.) Feb.1968. 24 R812
- 87818 BARKER, P. W. Water conservation and storage. Kenya Farmer 140:15. (Cont.) Mar.1968. 24 R812
- 87819 BEKEN, A. VAN DER. What is, for drains in burned soils, the most economic diameter when there is a possibility of clogging. (Fr) Rev. Agr. [Brussels] 20(11/12):1587-1592. Dec.1967. 13 R322
- 87820 BENFRATELLO, G. Hydraulic aspects of soil protection. (It) Agricoltura 17(4):47-62. Apr.1968. 16 Ag8226  
English summary, p.18.  
On the need for reclamation.

- 87821 BLOEMEN, G. W. Determination of constant rate deep recharge or discharge from ground-water level data. *J. Hydrol.* 6(1):58-68. Jan. 1968. 292.8 J82
- 87822 BOBOKHIDZE, SH. S. Deformation of flume-canals, caused by changes of temperature, under conditions of the mountain areas. (Rus) *Gidrotech. Melior.* 2:78-81. Feb. 1968. 290.8 G362  
Construction of irrigation canals.
- 87823 BOIKINOV, A. Effect of some technical parameters and organizational factors on productivity of irrigation and marking devices in tobacco transplanting. (Bu) *Bulg. Tyutyun* 7:26-31. 1967. 69.8 B872
- 87824 BOONE, S. G. The Poteau River Basin survey. *Soil Conserv.* 33(9):195-196, map. Apr. 1968. 1.6 So3S  
Water and soil conservation in Oklahoma and Arkansas.
- 87825 BORISOV, V., and VASETSKII, V. Onions under irrigation. (Rus) *Kartofel' Ovoshchi* 3:27-28. Mar. 1968. 75.8 K147
- 87826 BOSI, P. Prospects for automation of irrigation systems. (It) *Genio Rurale* 31(4):295-301. Apr. 1968. 281.8 R522
- 87827 BYCROFT, C. F. Reclamation of land from The Wash. Great Brit. Min. Agr. Fish. Food. Agr. 75(2):84-87. Feb. 1968. 10 G79J
- 87828 CAZACU, E. Establishment of various development types for irrigation. (Rum) *Hidroteh. Gospod. Apelor Meteorol.* 13(1):1-4. Jan. 1968. 345 M562
- 87829 CHERKASSKAYA, E. A. Underground irrigation (USA). (Rus) *Khlopkovodstvo* 3:1-3. Mar. 1968. 72.8 K522
- 87830 CLYMA, W., and SHAW, R. J. Natural recharge in Tucson Basin. *Progr. Agr. Ariz.* 20(2):14-15, 17. Mar./Apr. 1968. 6 P9452
- 87831 DANIELYAN, A. E. Commercial calculation system in irrigation. (Rus) *Gidrotech. Melior.* 2:86-89. Feb. 1968. 290.8 G362  
Chiefly on costs.
- 87832 DOBOKU GAKKAI Tochi zosei [Land reclamation]. Ed. 2, edited by M. Suzuki. Tokyo, 1967. 252 p. HD1671.J3D6 1967
- 87833 DOOGE, J. C. I. The hydrologic cycle as a closed system. *Int. Ass. Sci. Hydrol. Bull.* 13(1):58-68. Feb. 1968. 292.9 As7  
Systems analysis approach to the cycle which includes evapotranspiration.
- 87834 DOTY, R. D., and JOHNSTON, R. S. A heating system for stream gaging stations. *J. Soil Water Conserv.* 22(6):251-252. Nov./Dec. 1967. 56.8 J822  
Utah.
- 87835 DRISSEL, J. C., and OSBORN, H. B. Variability in rainfall producing runoff from a semiarid rangeland watershed, Alamogordo Creek, New Mexico. *J. Hydrol.* 6(2):194-201, map. Apr. 1968. 292.8 J82
- 87836 DROZD, P. A., and ZAYATS, V. N. Calculation of dam settling on bogs. (Rus) *Gidrotekh. Melior.* 3:59-64. Mar. 1968. 290.8 G362  
Refers to drainage.
- 87837 DUKHOVNYI, V. A. Combined lining of canals. (Rus) *Gidrotekh. Melior.* 3:12-15. Mar. 1968. 290.8 G362  
Irrigation.
- 87838 DUNCAN, W. M., and others. Capture and diversion of runoff by subsurface channels. *W. Va. Acad. Sci. Proc.* 39:320-326. 1967. 500 W52  
G. E. Eddy, P. R. Errington, and D. B. Williamson, joint authors.
- 87839 EGOROV, V. V., and MINASHINA, N. G. Reclamation of saline soils and reclamative soil science in the USSR. (Rus) *Pochvovedenie* 11:3-18. Nov. 1967. 57.8 P34
- 87840 FEKETE, I. Correlation of planning of barrage and irrigation systems at Kiskore. (Hu) *Agartud. Kozlem.* 27(1/2):183-212. 1968. 19 B855  
Includes discussions.
- 87841 FUJIOKA, Y., and TAKAHASHI, T. Fundamental studies on the tile drainage in layered soils. III. (Ja) *Agr. Eng. Soc. (Jap.). Trans.* 23:19-24. Mar. 1968. 290.9 Ag8  
English summary.
- 87842 FURON, R. The problem of water; a world study. New York, American Elsevier Publishing Company, 1967. 207 p. GB671.F83  
Bibliography, p. 177-194.  
Underground water, runoff, irrigation, evaporation, and water requirements of vegetation.  
Translation of Le probleme de l'eau dans le monde.
- 87843 GADZHIEV, T. M. Irrigating agricultural crops with sprinklers direct from the underground irrigation system. (Rus) *Traktory Sel'khoz mashiny* 12:24-25. Dec. 1967. 58.8 T68
- 87844 GAMPERL, H. What does land consolidation bring? (Ge) *Mitt. Deut. Landwirt.-Ges.* 83(19):674, 676. May 9, 1968. 18 N39  
On reclamation.
- 87845 GARKUSHA, N. A. Water management in the Ukraine in the anniversary year. (Rus) *Gidrotekh. Melior.* 11:32-49. Nov. 1967. 290.8 G362  
Chiefly irrigation and drainage.
- 87846 GLUKHOV, V. M. New hydrotechnical constructions on the Surkhan Darya river. (Rus) *Gidrotech. Melior.* 2:67-71. Feb. 1968. 290.8 G362  
Irrigation project.
- 87847 GRAFF, J. General plan for irrigation in anterior Pfalz. (Ge) *Indus. Obst.-Gemüseverwertung* 53(6):172-174. Mar. 21, 1968. 389.8 K832
- 87848 GREFENSHTEIN, E. A. Experience with operation of drainage systems in the Voronezh Region. (Rus) *Gidrotech. Melior.* 2:45-49. Feb. 1968. 290.8 G362
- 87849 GVOZDEV, V. P. Concrete pipeline for irrigation and drainage. (Rus) *Gidrotech. Melior.* 2:72-78. Feb. 1968. 290.8 G362
- 87850 HA KE TAN. Water conservancy to serve winter-spring season. *Joint Publ. Res. Serv. Transl. N. Vietnam* 298:4-7. Dec. 29, 1967. (JPRS 43,845) DS557.A7J6  
Translation from Nhan Dan, Oct. 9, 1967:2. Issued by CFSTI.
- 87851 HAJEK, L. A contribution to the problem of yields and quality of sugar beets under conditions of irrigation. (Cz) *Czech. Min. Zemedel. Les. Hospodar. Ustav Vedeckotech. Inform. Rostlinna Vyroba* 41(1):85-94. Jan. 1968. 64.9 C33  
English summary.
- 87852 HANSMANN, J. Glass-fiber-mat used as a drainage filter. (Ge) *Z. Kulturtech. Flurbereinigung* 9(2):102-115. Ref. Mar./Apr. 1968. S605.A1Z4  
English summary.
- 87853 HAWKS, S. N., and others. Field irrigation of tobacco. *N. C. Univ. Ext. Ext. Circ.* 491, 29 p. Apr. 1968. 275.29 N811  
W. K. Collins, H. Ross, R. E. Sneed, and J. G. Allgood, joint authors.
- 87854 HORVATH, S., and PERENYI, K. The automation of sprinkling irrigation systems at Kalocsa and Balatonaliga. *Irrigazione* 14(4):21-23. Dec. 1967. 55.8 Ir733
- 87855 HRAZDIRA, Z. The irrigation of pastures. (Cz) *Czech. Min. Zemedel. Les. Hospodar. Ustav Vedeckotech. Inform. Rostlinna Vyroba* 41(1):41-52. Jan. 1968. 64.9 C33  
English summary.
- 87856 HUNG SON. Rational irrigation for the fifth-month rice crop. *Joint Publ. Res. Serv. Transl. N. Vietnam* 288:5-7. Nov. 24, 1967. (JPRS 43,442) DS557.A7J6  
Translation from Nhan Dan, Oct. 23, 1967:2. Issued by CFSTI.
- 87857 ISAEV, A. P. Control of long-range sprinklers and droplet size. (Rus) *Gidrotekh. Melior.* 12:45-51. Dec. 1967. 290.8 G362



- 87858 IVANICKA, J. The need for irrigation water of sugar beets and its distribution under field conditions of Danube lowlands. (Cz) Czech. Min. Zemedel. Les. Hospodar. Ustav Vedeckotech. Inform. Rostlinna Vyroba 41(1):5-16. Ref. Jan. 1968. 64.9 C33  
English summary.  
Effect on yields.
- 87859 JIROUT, J. The irrigation of grains in Czechoslovakia. (Cz) Uroda 16(4):126-127. Apr. 1968. 64.8 Z12
- 87860 JOITA, E. Factors in making irrigation pay off outlined. U. S. Joint Publ. Res. Serv. Transl. East European Agr. Forest. Food Indus. 609:42-60. Nov.29,1967. (JPRS 43,494) 173 J663Tou  
In Romania.  
Translation from Revista de Statistica 8:32-45. Aug.1967.  
Issued by CFSTI.
- 87861 JURIMAE, A. Ground water situation of pine forests on humic moor soils. (Es) Est. Sel'skokhoz. Akad. Sb. Nauch. Tr. 50:175-182. 1968. 106 Es83  
German summary.
- 87862 KARAMBIROV, N. A. Development of agricultural water supply and irrigation for the period of 50 years. (Rus) Gidrotekh. Melior. 11:67-71. Ref. Nov.1967. 290.8 G362
- 87863 KERR, H. A., and MURRAY, J. M. The development of an irrigation budget. Can. Agr. Eng. 10(1):12-16. Ref. May 1968. 58.8 C164  
Includes soil moisture and consumptive use.
- 87864 KHERTS, M. N., and KHAVRONIN, K. I. Effective use of irrigation water. (Rus) Gidrotekh. Melior. 2:90-95. Feb.1968. 290.8 G362  
On costs and returns chiefly, Moldavian SSR.
- 87865 KIRKBY, M. J., and CHORLEY, R. J. A comment on "throughflow, overland flow and erosion." Int. Ass. Sci. Hydrol. Bull. 13(1):69. Feb.1968. 292.9 As7  
Runoff and drainage.
- 87866 KNUDSEN, H. Irrigation in agriculture. (Da) Landbonyt 22(5):245-248. May 1968. 11 L2322
- 87867 KOLESNIK, F. I. Evaluating quality of overhead irrigation. (Rus) Gidrotekh. Melior. 2:22-31. Feb.1968. 290.8 G362  
Operation of equipment.
- 87868 KOLLER, B. G., and CRUMP, D. K. Economics of an automatic irrigation system in North Otago. New Zeal. J. Agr. 116(5):46-48. May 1968. 23 N48J
- 87869 KOMISSAROV, V. Mechanization in soil reclamation. (Rus) Tekh. Sel'skom Khoz. 11:47-52. 1967. 58.8 M11
- 87870 KOMYAGIN, I. P. Irrigation regime of soils requiring reclamation. (Rus) Pochvovedenie 11:66-73. Ref. Nov.1967. 57.8 P34  
English summary.
- 87871 KOSHKIN, V. V. Irrigation system in the Vakhsh River Valley. (Rus) Khlopkovodstvo 4:36-38. Apr.1968. 72.8 K522
- 87872 KOZLOV, B. I. Differential rating for water payments. (Rus) Gidrotekh. Melior. 2:102-103. Feb.1968. 290.8 G362  
Irrigation.
- 87873 KUDELIN, B. I. Fresh water occurrence in the Soviet Union. (Ge) Umschau 68(8):250,252. Apr.11,1968. 474 Um7
- 87874 KUMAR, J., MISRA, D. K., and MISHRA, M. N. Irrigation guide for field crops. World Crops 19(6):24-26. Dec.1967. 281.8 W892
- 87875 LAPP, H. M. An evaluation of five application methods for applying evaporation suppressants to the surface of small water storages. Can. Agr. Eng. 10(1):17-22. Ref. May 1968. 58.8 C164
- 87876 LEGOSTAEV, V. M., LIFSHIN, E. A., and KISELEVA, I. K. To the problem of planning water consumptive use. (Rus) Khlopkovodstvo 4:34-35. Apr.1968. 72.8 K522  
Irrigation of cotton.
- 87877 LEPORSKII, D. V., and NAZAROV, I. A. Conservation and utilization of water resources in the Ukraine. (Rus) Gidrotekh. Melior. 11:72-79, map. Nov.1967. 290.8 G362  
Includes irrigation water.
- 87878 LI, CH. Commercial calculation and formation of prices in water management. (Rus) Gidrotekh. Melior. 2:98-101. Feb.1968. 290.8 G362  
Costs of irrigation.
- 87879 LIE, O. Cultivation of marshland. (No) Norske Myrselsk. Medd. 66(2):25-40. Ref. Apr.1968. 11 N813  
Drainage, tillage and fertilizers.
- 87880 LIVSHITS, E. A., and KHONDROYANIS, YA. P. Cotton irrigation in the new reclaimed zone of the Golodnaya Steppe with different soil types. (Rus) Khlopkovodstvo 2:30-32. Feb.1968. 72.8 K522
- 87881 LOMAKIN, V. S., and SHEVELEV, YA. Z. Irrigation of farm crops in the suburban zone of Leningrad. (Rus) Gidrotekh. Melior. 3:27-34. Mar.1968. 290.8 G362  
Vegetables.
- 87882 LUKYANAS, A. L. Relation between drain spacing and surface slope. (Rus) Gidrotekh. Melior. 12:62-69. Dec.1967. 290.8 G362
- 87883 MANSON, P. W. How to choose and install concrete drain tile. Minn. Sci. 24(1):16-19. Fall 1967. 100 M668
- 87884 MARKO, J., and SUBOTICKI, S. The effect of the volume of exploitation of the irrigation equipment on costs. (Se) Ekon. Poljoprivrede 15(3):179-187. Mar.1968. 281.8 Ek72
- 87885 MARKOV, M. V. Rural water supply and irrigation of pastures in the USSR for 50 years. (Rus) Gidrotekh. Melior. 12:29-34. Dec.1967. 290.8 G362
- 87886 MASLENNIKOV, V. M., and PAK, G. P. Irrigation of cotton with hydroborer has no effect. (Rus) Gidrotekh. Melior. 3:48-55. Mar.1968. 290.8 G362
- 87887 MCKINNIS, D. Irrigation and what's ahead. Oreg. Agrirec. 237:4-5. Mar.1968. 2 Or3
- 87888 MECHITOV, I. I., and GERSHKOVICH, M. I. Proper usage of water in the case of water deficiency in reservoirs. (Rus) Gidrotekh. Melior. 12:35-44. Dec.1967. 290.8 G362  
Irrigation water.
- 87889 MEIN, R. G., and TURNER, A. K. A study of the drainage of irrigated sand dunes using an electrical resistance analogue. J. Hydrol. 6(1):1-14. Ref. Jan.1968. 292.8 J82  
In New South Wales.
- 87890 MINKEVICH, B. I., and USMANOV, I. U. Drainage pipes made of plastic mortar. (Rus) Gidrotekh. Melior. 11:98-103. Nov.1967. 290.8 G362
- 87891 MITCHELL, W. D., and CASSIDY, N. G. Utilization of casein wastes for pasture irrigation. Int. Dairy Congr. [Proc.], 17th Congr., Sect. E/F:745-752. 1966. SF233.15 1966 v.5
- 87892 MONTANARI, F. W., and ANDERSON, W. L. New York plans for water; regional resource development boards bring agencies together in studies of river basins. Soil Conserv. 33(9):199-200, map. Apr.1968. 1.6 So3S
- 87893 MOORE, D. O. Estimating mean runoff in ungaged semiarid areas. Int. Ass. Sci. Hydrol. Bull. 13(1):29-39, map. Feb.1968. 292.9 As7
- 87894 MOTT, F. T. Drainage improvements extend a school playground. Soil Conserv. 33(9):203. Apr.1968. 1.6 So3S  
Delaware.
- 87895 MUDRIK, S. N. Efficiency of irrigation, using local runoff. (Rus) Gidrotekh. Melior. 12:81-88. Dec.1967. 290.8 G362
- 87896 MÜNNICH, K. O. Isotope dating of ground water. (Ge) Naturwissenschaften 55(4):158-163. Ref. Apr.1968. 474 N213  
With radioactive carbon.
- 87897 MURRAY, I. D. Tobacco and irrigation in tropical Australia; the Mareeba-Dimbulah scheme. J. Trop. Geogr. 25:34-47, map. Ref. Dec.1967. 331.8 M29

- 87898 MYASISHCHEV, S. I. The technique of leaching of saline soils on large check plots. (Rus) *Gidrotekh. Melior.* 3:35-43. Mar.1968. 290.8 G362
- 87899 NAGAHAMA, K., TEJIMA, S., and TOMITA, M. On the underdrainage of ill-drained paddy field --the substantial study on the mechanism of underdrainage. II. (Ja) *Agr. Eng. Soc. (Jap.)*. Trans. 23:39-45. Mar.1968. 290.9 Ag8 English summary.
- 87900 NEFEDOV, N. I. Agricultural irrigation in Kirghizia for 50 years of the Soviet rule. (Rus) *Gidrotekh. Melior.* 12:9-29, map. Dec. 1967. 290.8 G362
- 87901 NEW SOUTH WALES. WATER CONSERVATION AND IRRIGATION COMMISSION. Report for the year ended 30th June, 1966. Sydney, 1967. 89 p. 55.9 N472
- 87902 NGUYEN TAN THU. Drought problems. Joint Publ. Res. Serv. Transl. N. Vietnam 288:8-11. Nov.24,1967. (JPRS 43,442) DS557.A7J6 Translation from Nhan Dan, Oct.23,1967:2. Issued by CFSTI.
- 87903 NOGYO DOBOKU GAKKAI. Suiri, nogyo suiri jikken [Hydraulics and experimental agricultural irrigation], edited by Y. Ishibashi. Tokyo, Corona-sha, 1967. 110 p. TC160.N6
- 87904 NORSKE MYRSELSKAP. Annual report of the Norwegian Heath Society, 1967. (No) *Norske Myrseleks. Medd.* 66(2):41-51. Apr.1968. 11 N813
- 87905 OHMS, R. E. Irrigate early for quality Russets. *Amer. Veg. Grower* 16(4):70,72. Apr.1968. 80 C733 Potatoes.
- 87906 OSBORN, H. B. Persistence of summer rainy and drought periods on a semiarid rangeland watershed. *Int. Ass. Sci. Hydrol. Bull.* 13(1): 14-19, map. Feb.1968. 292.9 As7 Arizona.
- 87907 OVSYANNIKOV, N. Land reclamation operations in the RSFSR during 1966. U. S. Joint Publ. Res. Serv. Transl. USSR Agr. 226:31-37. Nov.30,1967. (JPRS 43,507) 173 J663Tso By drainage and irrigation systems. Translation from *Ekonomicheskaya Gazeta* 43:36. Oct.1967. Issued by CFSTI.
- 87908 OWEN, L. W. Ground water management and reclaimed water. *Amer. Water Works Ass. J.* 60(2):135-144. Feb.1968. 292.9 Am32J
- 87909 PAVLENKO, T. A. Harmful activity of rodents in the irrigation system of the Golodnaya Step (Uzbekistan). (Rus) *Zool. Zh.* 47(4):646-648. Apr.1968. 410 R92 English summary. Damaging of dams.
- 87910 PETER, M. The irrigation of fruit orchards by furrows. (Cz) *Zahradnicke Listy* 61(5):133. May 1968. 80 Z12
- 87911 PETER, M. The irrigation in fruit regions. (Cz) *Zahradnicke Listy* 61(4):103. 1968. 80 Z12
- 87912 PETROV, E. G., and BAYAKINA, V. P. Effect of rice culture on the dynamic of underground water. (Rus) *Khlopkovodstvo* 3:33-36. Mar.1968. 72.8 K522 As related to the reclamation and leaching of the salty soils.
- 87913 PETTYJOHN, W. A. Geology & ground water resources of Renville and Ward Counties. 2. Ground water basic data. N. Dak. Geol. Surv. Bull. 50,302 p., map. 1968. 406 N813B
- 87914 PHAM-THANH. Tenth-month rice in Nghe An Province. Joint Publ. Res. Serv. Transl. N. Vietnam 302:48-50. Jan.24,1968. (JPRS 44,138) DS557.A7J6 Includes efforts to control drought. Translation from Nhan Dan, Dec.6,1967:2. Issued by CFSTI.
- 87915 PICONE, E. G. Estimation of the amount of discharge from small watersheds. (It) *Genio Rurale* 31(1):53-60. Ref. Jan.1968. 281.8 R522
- 87916 POROT'KIN, E. I. Experience with irrigation in the Kuibyshev Region. (Rus) *Gidrotekh. Melior.* 12:88-95. Dec.1967. 290.8 G362 Field crops and vegetables.
- 87917 POSGAY, E. Determining time and norms for plant irrigation based on evaporational data. (Hu) *Magyar Mezogazdasag* 23(52):14-15. Dec.27,1967. 19 M27
- 87918 RAJA, M. I. The quality of Kalri Lake water for irrigation. *West Pakistan J. Agr. Res.* 5 (4):74-80, map. Ref. Dec.1967. 22 W52
- 87919 RASKIN, G. F. *Ekonomika oroshaemogo zemledeliya* [Economics of irrigational farming]. Moskva, Kolos, 1967. 312 p. Ref. HD1741.U4R3
- 87920 RIVOIRA, G. The influence of soil moisture conditions on the grain production of corn. (It) *Irrigazione* 14(4):34-48. Ref. Dec.1967. 55.8 Ir733 English summary. Irrigation.
- 87921 ROGNERUD, B. Can tensiometers be of practical aid in watering? (No) *Gartneryrket* 58 (11):212-214. Mar.15,1968. 80 G1938
- 87922 RONN, A. Irrigation equipment. *Israel Econ.* 24(3):79. Mar.1968. 280.8 Is722
- 87923 SAMBIKIN, M. M., and KIRILIN, A. I. Effect of large check irrigation on radiation balance of corn field in Volgograd area. (Rus) *Meteorol. Gidrol.* 1:71-77. Jan.1968. 345 M56
- 87924 SANDU, G. Problems of land reclamation in the Danube Meadows. (Rum) *Hidroteh. Gospod. Apelor Meteorol.* 13(2):73-79. Ref. Feb.1968. 345 M562 English summary, p.115.
- 87925 SASSO, G., and CALIANDRO, A. Irrigation trial of corn for seed in relation to critical limit of soil moisture tension. (It) *Irrigazione* 14(4):24-33. Ref. Dec.1967. 55.8 Ir733 English summary.
- 87926 SAVICH, YU. P., and MIKHEEV, S. M. Machine for linings of canals with reinforced concrete slabs. (Rus) *Gidrotekh. Melior.* 3:16-20. Mar.1968. 290.8 G362
- 87927 SAWADA, T., and TSUJI, S. Studies on the joint part of composite dam. I. (Ja) *Agr. Eng. Soc. (Jap.)*. Trans. 23:25-28. Mar.1968. 290.9 Ag8 English summary.
- 87928 SCHROPP, W., and VOGT, K. F. Utilization of dairy waste water in agriculture. (Ge) *Int. Dairy Congr. [Proc.]*, 17th Congr., Sect. E/F: 735-744. 1966. SF223.15 1966 v.5 English summary, p.918. Use for irrigation and its effects on the plants.
- 87929 SELSATEN, J. A. DE. Surface and subterranean hydraulics. (Fr) *Int. Ass. Sci. Hydrol. Bull.* 13(1):49-57. Ref. Feb.1968. 292.9 As7 Belgium.
- 87930 SHEINKIN, G. YU. About underground irrigation. (Rus) *Khlopkovodstvo* 3:37-39. Mar. 1968. 72.8 K522 Cotton.
- 87931 SHIH, C. A mathematic model of the water advance function for surface irrigation based on intake rate function. (Ch) *Taiwan Water Conserv.* 16(1):14-24. Ref. Aug.1968. 292.8 T13 English summary.
- 87932 SHILEIKA, S. V. Technology of constructing plastic drainage trenches. (Rus) *Gidrotekh. Melior.* 3:64-67. Apr.1968. 290.8 G362
- 87933 SHTEPA, B. G., and ROZENBLAT, V. F. Prospects of rice cultivation in the Sarpa lowland. (Rus) *Gidrotech. Melior.* 2:6-19, map. Feb. 1968. 290.8 G362 Irrigation chiefly.
- 87934 SINYAKOV, V. K., and AGAMIRYAN, E. G. Plastic reinforcement in prestressed flumes. (Rus) *Gidrotekh. Melior.* 3:44-48. Mar.1968. 290.8 G362 Irrigation canals.
- 87935 SLEPICKA, J. The irrigation of celery under conditions of the central Laba River. (Cz) *Zahradnicke Listy* 61(4):113. 1968. 80 Z12



- 87936 SLEPICKA, J. The irrigation of early varieties of vegetables under conditions of the central Laba River. (Cz) *Zahradnicke Listy* 61 (3):68-69. 1968. 80 Z12
- 87937 SLEPICKA, J. The irrigation of late varieties of cauliflower in conditions of central Laba River area. (Cz) *Zahradnicke Listy* 61(5):147-148. May 1968. 80 Z12
- 87938 SOKOLOV, A. I. Irrigation equipment made from plastics. (Rus) *Gidrotekh. Melior.* 11: 92-97. Nov. 1967. 290.8 G362
- 87939 SOVIET melioration; on occasion of the 50th anniversary of the Soviet rule. (Rus) *Gidrotekh. Melior.* 12:1-8. Dec. 1967. 290.8 G362
- 87940 SQUIERS, K. M. Supervisory control of a ground water supply. *Amer. Water Works Ass. J.* 60(4):425-428. Apr. 1968. 292.9 Am32J Michigan.
- 87941 STAZI, G. Influence of draining on the hydrological system of a watershed. (It) *Genio Rurale* 31(1):43-52. Jan. 1968. 281.8 R522
- 87942 SUKHANOV, A. R., and others. Irrigation of orchard by pipe lines. (Rus) *Gidrotekh. Melior.* 12:55-59. Dec. 1967. 290.8 G362  
A. V. Sobolev, V. I. Kapustin, and M. F. Natal'chuk, joint authors.
- 87943 SZABO, J. Pre-irrigation of pastures. (Hu) *Magyar Mezogazdasag* 23(16):14. Apr. 17, 1968. 19 M27
- 87944 TANDA, G. Hydraulics economical comparative analysis between ramified and annular pipe networks, for the irrigation districts. (It) *Irrigazione* 14(4):50-59. Dec. 1967. 55.8 Ir733  
English summary.
- 87945 TAYLOR, A. W. Phosphorus and water pollution. *J. Soil Water Conserv.* 22(6):228-231. Ref. Nov./Dec. 1967. 56.8 J822  
With special reference to fertilizing.
- 87946 TODESCO, R. The feasibility of employing pipes network for the flowing irrigation. (It) *Irrigazione* 14(4):10-15. Dec. 1967. 55.8 Ir733  
English summary.
- 87947 TRAN HOAI QUANG. Water conservation in Tuyen Quang Province. *Joint Publ. Res. Serv. Transl. N. Vietnam* 278:42-44. Nov. 7, 1967. (JPRS 43,273; TT 64-33897) DS557.A7J6  
Translation from Nhan Dan, Oct. 3, 1967:2. Issued by CFSTI.
- 87948 TROFIN, E. Seepage face in groundwater catchment works. (Rum) *Hidroteh. Gospod. Apelor Meteorol.* 13(2):57-65. Ref. Feb. 1968. 345 M562  
English summary, p. 114.
- 87949 ULANOV, A. P. Management of irrigation systems on a self-supporting basis. (Rus) *Gidrotekh. Melior.* 2:82-86. Feb. 1968. 290.8 G362  
Chiefly on costs.
- 87950 ULISSE, B. The utilization of the used waters from the animal farms in the Democratic German Republic. (Rum) *Probl. Agr. [Bucharest]* 20(2):79-83. 1968. 21 R862  
Irrigation.
- 87951 U. S. OFF. OF WATER RESOURCES RESEARCH. WATER RESOURCES SCIENTIFIC INFORMATION CENTER. Water resources research catalog. Volume 3. Washington, 1967, pub. 1968. 1503 p. 156.872 W29
- 87952 U. S. TENNESSEE VALLEY AUTHORITY. TECHNICAL LIBRARY. Flood damage prevention; an indexed bibliography. 5th ed. Knoxville, 1967. 39 p. Z6004.P5T4 1967
- 87953 VACHKOV, G., and VASILEV, V. A highly efficient method of irrigation with automatic flow. 9 p. *Transl.* 16740  
In Bulgaria.  
Translation from *Mezhdunarodnyi Sel'skokhozyaistvennyi Zhurnal* 3:88-91. 1965.
- 87954 VALENTINI, L. A. Measuring water discharge while irrigating along furrows. (Rus) *Gidrotekh. Melior.* 2:31-41. Feb. 1968. 290.8 G362
- 87955 VERLEV, I., and MOMCHILOV, B. Flexible water pipes in irrigation. (Rus) *Khlopkovodstvo* 2:45-47. Feb. 1968. 72.8 K522  
Bulgaria.
- 87956 VISSER, W. A. The Ground-Water Survey TNO [Dienst Grondwaterverkenning TNO]. (Du) T. N. O. [Toegepast-Natuurwetensch. Onderz.] - *Nieuws* 23(4):207-209. Apr. 1968. 475 T11  
English summary.
- 87957 VOEGELIN, D. The future of the water economy has already begun in Israel. (Ge) *Mitt. Deut. Landwirt.-Ges.* 83(13):440-443. Mar. 28, 1968. 18 N39  
Policy.
- 87958 VOROB'EV, A. M. Application of stationary sprinklers with automatic pressure. (Rus) *Gidrotekh. Melior.* 11:89-92. Nov. 1967. 290.8 G362
- 87959 VORONTSOV, V. I., and MYASNIKOVA, A. F. Chemical stability of plastic filters. (Rus) *Gidrotekh. Melior.* 3:67-71. Mar. 1968. 290.8 G362  
Drainage.
- 87960 WATSON, J. R. Design is key for effective small area irrigation systems. *Weeds Trees Turf* 7(5):10-11, 14-15. May 1968. 79.8 W413
- 87961 WERMINGHAUSEN, B. Use of plastics in sprinkler irrigation. (Ge) *Landmasch.-Markt* 47(7):11-12. Apr. 3, 1967. 58.8 L239  
Pumps and hoses.
- 87962 WOLSKE, D., JOST, W., and SCHMIDT, E. Indices for investments in reclamation projects. II. (Ge) *Feldwirtschaft* 9(2):77-81. Feb. 1968. 18 W763  
Costs.
- 87963 WOLSKE, D., and SCHMIDT, E. Index figures for investment requirements of reclamation projects. I. (Ge) *Feldwirtschaft* 9(1):33-36. Jan. 1968. 18 W763
- 87964 ZAKHARKIN, F. G. Effectiveness of reclamation in the Far East. (Rus) *Gidrotekh. Melior.* 3:81-87. Mar. 1968. 290.8 G362
- 87965 ŽEKTSE, I. S., and SEMENOVA, S. M. Studying the interconnection of ground and surface waters in representative basins under the programme of the International Hydrological Decade. *Int. Ass. Sci. Hydrol. Bull.* 13(1):25-28. Feb. 1968. 292.9 As7

#### Erosion and Erosion Control

- 87966 ANDRONIKOV, V. L. Aeromethods in studying soil erosion. (Rus) *Vestnik Sel'skokhoz. Nauk. [Moscow]* 2:112-116. Ref. Feb. 1968. 20 V633  
English summary.
- 87967 BONDY, E. J. Stubble mulching moves east to play dual role in wind and water erosion control. *Soil Conserv.* 33(11):255-256. June 1968. 1.6 So3S
- 87968 BYALYI, A. M., and KAL'YANOV, L. S. Radical improvement of eroded pastures in the South-East. (Rus) *Pochvovedenie* 3:51-60. Mar. 1968. 57.8 P34  
English summary.  
Erosion control by proper plowing.
- 87969 CARTER, C. E., DOTY, C. W., and CARROLL, B. R. Runoff and erosion characteristics of the Brown loam soils. (Condensed.) *Agr. Eng.* 49(5):296. May 1968. 58.8 Ag83
- 87970 COLCLOUGH, J. D. Soil conservation and soil erosion control in Tasmania—surface mulching with straw or bitumen. *Tasmanian J. Agr.* 39 (1):13-20. Feb. 1968. 23 T182T
- 87971 DAYLA, R., and BHOLA, S. N. Soil and water loss (run-off) studies under different vegetative covers on 0.5 and 1.0 slope at Kota. *J. Soil Water Conserv. India* 15(3/4):17-23. July/Dec. 1967. 56.8 J824
- 87972 DUBBER, H. J. Investigations on the soil erosion process of marl and limestone weathering soils of the Schwabische Alb and its foreland. (Ge) *Z. Kulturtech. Flurbereinigung* 8(2):85-101, map. Ref. Mar./Apr. 1968. S605.A1Z4  
English summary.

- 87973 GALAKTIONOV, V. F. The deformation of stepped terraces. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 1:84-89. 1968. 20 V633  
English summary.  
Caused by runoff.
- 87974 GIACOMINI, V. Respect for nature in soil protection. (It) Agricoltura 17(4):37-46. Apr. 1968. 16 Ag8226  
English summary, p.18.
- 87975 GUINARD, A. Conservation and improvement of soil fertility in Africa. 2. Organic manure. World Crops 19(6):29-31. Dec.1967. 281.8 W892
- 87976 GUPTA, R. N., and SINGH, N. Selectivity of erosion processes with respect to soil phosphorus in the alluvial tracts of Uttar Pradesh. Indian Soc. Soil Sci. J. 15(4):261-268. Ref. Dec.1967. 56.9 In2
- 87977 JACOBSON, P. How bench terraces are built. World Farming 10(4):18-19,22-23,25-26. Apr. 1968. 30.08 W89
- 87978 KEBADZE, Z. G. Controlling soil erosion with grass stands. (Geo) Akad. Nauk Gruz. SSR. Soobshch. 49(2):451-456. Ref. Feb.1968. 511 Ak146  
Russian summary.
- 87979 KIMBERLIN, L. Conservation pioneers in Paraguay. Soil Conserv. 33(9):211. Apr.1968. 1.6 So35  
Soil conservation.
- 87980 LITVIN, L. F., and FOSTIKOVA, G. K. The effect of some landscape-geomorphological factors on erosional disjunction density in the Kodor Basin. (Rus) Moscow. Univ. Vestnik. Ser. 5, Geogr. 2:53-57. Mar./Apr.1968. 331.9 M85  
English summary.
- 87981 MANHANTA, G. C. Growing of sheashum [Dalbergia sissoo] on the sand dunes of Araria Plains as studied at soil conservation research station Jalalgarh. J. Soil Water Conserv. India 15(3/4):35-36. July/Dec.1967. 56.8 J824
- 87982 MIDDLESEX CONSERVATION DISTRICT. Annual report, 1967-1968. n.p., 1967. 8 p. 56.9 M583  
Includes soil conservation.
- 87983 MURTHY, B. N. Role of engineering in controlling sediment into reservoirs. J. Soil Water Conserv. India 15(3/4):70-75. July/Dec.1967. 56.8 J824
- 87984 NGUYEN THANH QUAT. Improved of eroded soil at Ha Bac. Joint Publ. Res. Serv. Transl. N. Vietnam 296:9-19. Dec.26,1967. (JPRS 43,828) DS557.A7J6  
Translation from Khoa Hoc Ky Thuat Nong Nghiep 67:247-252. July 1967.  
Issued by CFSTI.
- 87985 PUSZTAI, A., and KAZO, B. New method for soil erosion control on slopes. (Hu) Agrartud. Kozlem. 27(1/2):1-12. Ref. 1968. 19 B855  
German summary.  
Chemical and mechanical following.
- 87986 ROTINI, O. T. Agronomical aspects of soil protection. (It) Agricoltura 17(4):63-68. Apr. 1968. 16 Ag8226  
English summary, p.18.  
Soil erosion and conservation.
- 87987 ROY, D. K., and BHATTACHARYA, P. B. Use of photographs in assessing erosion in upper Damodar Valley. J. Soil Water Conserv. India 15(3/4):1-9, map. July/Dec.1967. 56.8 J824
- 87988 RUXTON, B. P. Slopewash under mature primary rainforest in northern Papua. In Jennings, J. N., and Mabbutt, J. A. Landform studies from Australia and New Guinea, p.85-94, map. Ref. 1967. GB381.J4
- 87989 SINGH, R. Rajasthan enacts a soil conservation legislation. J. Soil Water Conserv. India 15(3/4):14-16. July/Dec.1967. 56.8 J824
- 87990 SIVASUBRAMANIAM, T. Soil erosion by wind in Madurai district. J. Soil Water Conserv. India 15(3/4):42-47. July/Dec.1967. 56.8 J824
- 87991 SOKOLOV, F. A. Soil erosion and its control. (Rus) Khlopkovodstvo 4:16-18. Apr.1968. 72.8 K522
- 87992 SPENCER, G. W. Erosion prevention and control. West. Australia. Dep. Agr. J. (ser.4)9 (1):16-17. Jan.1968. 23 W52J  
In Australia.
- 87993 THOMAS, A. W., CARREKER, J. R., and LEVERETTE, W. B. Soil erosion on Tifton loamy sand. J. Soil Water Conserv. 22(6):245-248. Nov./Dec.1967. 56.8 J822
- 87994 WELCH, G. C. Diversions and tillage reduce erosion for wheat farmers. Soil Conserv. 33 (9):216. Apr.1968. 1.6 So35  
Idaho.
- 87995 ZAKHAROV, N. Effective usage of anti-erosion measures. U. S. Joint Publ. Res. Serv. Transl. USSR Agr. 227:13-19. Nov.30,1967. (JPRS 4,515) 173 J663Tso  
Translation from Finansy SSSR 9:15-18. 1967.  
Issued by CFSTI.

### Sanitation

- 87996 FEDERICO, L. G. Synthetic detergents and cultivated ground. (It) Riv. Ital. Sostanze Grasse 45(2):108-115. Ref. Feb.1968. 307.8 OL3  
English summary.
- 87997 KAMPF, R. Do chemical plant protection products endanger soil fertility? (Ge) Mitt. Deut. Landwirt.-Ges. 83(8):210-211. Feb.22,1968. 18 N39
- 87998 MAJUMDAR, J. C., and KOCH, W. Residues of linuron, monolinuron, and metobromuron in soils and in potato tubers at harvest time. (Ge) Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzen-schutz. Sonderheft 4:201-207. Ref. 1968. 464.8 Z33  
English summary.
- 87999 VANACHTER, A., ASSCHE, C. VAN. Influence of soil moisture and organic matter content on the effect of methyl bromide and a mixture of methyl bromide and chloropicrin. (Fl) Tuinbouwberichten 32(2):54-56. Feb.1968. 80 T817  
In soil fumigation.
- 88000 VEDDER, P. J. C. Experiences with pasteurization. (Ge) Champignon 8(77):13-17,20. Jan. 1968. 80 C352  
Mushroom soils.

### MATERIALS FOR SOIL IMPROVEMENT

#### Chemical Fertilizers

- 88001 HAYASE, T. Characteristics of main chemical fertilizers. Agr. Asia 6(3):31-41. 1968. 22.5 Aj5

#### Mineral Soil Amendments

- 88002 HOSKINS, K. C. Liming down under. Limestone 5(15):22-23,51. Spring 1968. 294.8 L62  
The limestone industry.

#### Fertilizer Technology and Statistics

- 88003 BALINI, G. The balance sheet of fertilizing in the 1966-67 season. (It) Raccolto 9(1/2):14-21. Jan./Feb.1968. 16 R11  
Consumption.
- 88004 BRASOVEANU, N. Distribution of chemical fertilizers by area. (Rum) Rev. Statist. 17(3):34-43. Mar.1968. 267.8 St22
- 88005 CERNY, M. New trends in the production of industrial fertilizers in U.S.A. (Cz) Agro-chemia [Bratislava] 8(3):76-77. 1968. 385 Ag88



- 88006 CLOANINGER, B. Control officials and industry must work together. *Farm Chem.* 131(6): 91-92. June 1968. 57.8 Am3  
Fertilizer regulation.
- 88007 CUNNINGHAM, H. G. New sources and developments in micronutrients and secondary elements. *Com. Fert. Plant Food Indus.* 116(4): 21-22. Apr. 1968. 57.8 C73
- 88008 DREW, J. What's really worrying the fertilizer industry? *Feed Farm Supplier* 42(5):36-37. May 1968. 47.8 H28
- 88009 ELLIS, B. G., and KILMER, V. J. Agronomic implications of new fertilizer technology. *Int. Superphosphate Manufacturers Ass. Agr. Comm. Bull. Doc.* 49:9-15. Ref. Feb. 1968. 241 In832
- 88010 ENGIBOUS, J. C. Getting fertilizer from plants to farms in developing areas. *Int. Superphosphate Manufacturers Ass. Agr. Comm. Bull. Doc.* 49:17-22. Feb. 1968. 241 In832
- 88011 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Fertilizers; an annual review of world production, consumption and trade, 1966. Rome, 1967. 223 p. 57.2 F73
- 88012 FRICKE, E. F. Fertiliser registrations, 1968. *Tasmanian J. Agr.* 39(1):72. Feb. 1968. 23 T182T
- 88013 GIL MONTERO, J. Boron in chemical fertilizers. (Sp) *Ion* 28(319):98-99. Feb. 1968. 385 Io6
- 88014 GIORGI, E. Fertilizing as a factor of economic development. (It) *Agricoltura* 17(2):19-27. Feb. 1968. 16 Ag8226  
English summary, p.7.  
World production, consumption, and trade.
- 88015 HARDESTY, J. O. The "low-down" on fertilizer conditioner. *Farm Chem.* 30(2):94,96,98, 100. Feb. 1968. 57.8 Am3
- 88016 HAYASE, T. The development of fertilizer industry. *Agr. Asia* 6(2):32-42. 1968. 22.5 Aj5  
Japan.
- 88017 HUGHES, A. R. A new look for fertilizer labels. *Queensland Agr. J.* 94(4):221-223. Apr. 1968. 23 Q33
- 88018 KOMBEREC, S. The application of liquid nitrogen fertilizers on basis of microregions. (Cz) *Uroda* 16(3):111-113. Mar. 1968. 64.8 Z12  
Costs.
- 88019 KOZLOV, B. I. Organic fertilizers and the distribution of costs. (Rus) *Uchet. Finansy Kolhoz. Sovkhoz.* 3:18. 1968. 30.69 Uc4
- 88020 MARKOVIC, P. World production and consumption of mineral fertilizers. (Se) *Ekon. Poljoprivrede* 15(1/2):101-106. Jan./Feb. 1968. 281.8 Ek72
- 88021 NIYAZOV, M. I., EROFEEVA, O. B., and LINKEVICH, V. A. The size of granules by granulating fertilizers in a boiling medium. (Rus) *Akad. Nauk Uzb. SSR. Dokl.* 9:31-32. 1967. 511 Uz1
- 88022 PESAK, M. New data on the official evaluation of the quality of fertilizers. (Cz) *Uroda* 16(5): 183. May 1968. 64.8 Z12
- 88023 POLON, J. A., and FYFFE, H. B. The big switch to suspension. 2. *Farm Chem.* 131(2): 48,50,52,54-55,58-59. Feb. 1968. 57.8 Am3  
Fertilizer manufacture.
- 88024 PROKOP, J. The economics of the application of fertilizers to spring field crops. (Cz) *Uroda* 16(3):101. Mar. 1968. 64.8 Z12
- 88025 SCHALL, E. D., CARTER, A. S., and RUND, R. C. Inspection of commercial fertilizers, January 1 to December 31, 1966. *Ind. Agr. Exp. Sta. Insp. Rep.* 68,94 p. 1966. 280.39 In22
- 88026 SHCHERBAKOV, A. M., BURMISTROVA, M. F., and TOLKACHEVA, T. D. Effect of granule size on physical and chemical properties of mineral fertilizers. (Rus) *Khim. Sel'skom Khoz.* 6(3):20-23. Mar. 1968. 385 K524
- 88027 SILAR, J. The effect of the concentration of pure nutrients in mineral fertilizers on the economics of the application of fertilizers. (Cz) *Agrochemia [Bratislava]* 8(2):33-39. Ref. 1968. 385 Ag88  
English summary.
- 88028 SLACK, A. V. Chemistry and technology of fertilizers. New York, Interscience Publishers, 1967. 142 p. Ref. S653.S6
- 88029 TERMAN, G. L. Use of isotopes in fertilizer evaluation research in the United States. *Int. Superphosphate Manufacturers Ass. Agr. Comm. Bull. Doc.* 49:1-8. Ref. Feb. 1968. 241 In832

### Manures and Composts

- 88030 BLAKEMORE, L. C., and GIBBS, H. S. Effects of gannets on soil at Cape Kidnappers, Hawke's Bay. *New Zeal. J. Sci.* 11(1):54-62. Ref. Mar. 1968. 514 N482  
Chemical.
- 88031 OVERSTIJNS, A. The substrate from a theoretical and a practical viewpoint. (Ge) (Condensed.) *Champignon* 8(77):8-9. (Concl.) Jan. 1968. 80 C352
- 88032 SCHRADER, T. Use of urban night soil for vineyard composts. (Fr) *Office Int. Vigne Vin. Bull.* 41(444):159-171. Feb. 1968. 390.8 B87  
Communication presented at the 8th meeting of Commission I of the O.I.V. held at Mainz, September 4-11, 1967.
- 88033 SHAMBAMAN, Bat guano fertilizer. *Kenya Farmer* 140:28-29. Mar. 1968. 24 R812
- 88034 SIEBER, H. Exchange of experiences on manure system in the USSR. (Ge) *Feldwirtschaft* 9(2):70-72. Feb. 1968. 18 W763  
Handling and composting.
- 88035 SUZUKI, T. Main manures. *Agr. Asia* 6(4):31-41. Apr. 1968. 22.5 Aj5
- 88036 TRAN QUANG THUYET. Encouraging the large-scale production of organic fertilizer. *Joint Publ. Res. Serv. Transl. N. Vietnam* 288: 12-14. Nov. 24, 1967. (JPRS 43,442) DS557.A7J6  
Translation from Nhan Dan, Oct. 25, 1967:2. Issued by CFSTI.
- 88037 ZALAY, A. VON. The analysis of composts before and after the pasteurization and the conclusions that follow from it. (Ge) *Champignon* 8(79):9-16. Mar. 1968. 80 C352





## MISCELLANEOUS

Publications of the U. S. Department of Agriculture, State Agricultural Experiment Stations, and State Agricultural Extension Services on home management, personnel, and other subjects not ordinarily covered in the Bibliography of Agriculture will be included in this list.

## GENERAL

- 88038 AMERICAN INSTITUTE OF BIOLOGICAL SCIENCES. Annual report for 1967. BioScience 18(5):374-379. May 1968. 500 Am322A
- 88039 AMERICAN MICROSCOPICAL SOCIETY. Directory of members as of 1 February, 1968. Amer. Microscop. Soc. Trans. 87(2):278-296. Apr. 1968. 440.9 Am33
- 88040 APPLIGATE, H. W. Pesticide at Presidio. V. Synopsis. Tex. J. Sci. 19(4):353-361, map. Dec. 31, 1967. 470 T31
- 88041 BRITISH COLUMBIA. DEPT. OF AGRICULTURE. Sixty-second annual report, 1967. Victoria, 1968. 21 p. 7 B77R
- 88042 BROWN, J. D. Dealer's & farmer's pesticide information sources. Agr. Chem. 23(6):16-17. June 1968. 381 Ag8
- 88043 BUCHINGER, M. International cooperation in natural area preservation. BioScience 18(5):388-392. May 1968. 500 Am322A
- 88044 BUMULLER, F. Modelversuche zur Absatzung der Einzelmöglichkeiten von 2-chlor-4-methyl-6-dimethylaminopyrimidin, (Castrix) bei der Feld- und Wühlmausbekämpfung [Model experiments for evaluating the application possibilities of 2-chlor-4-methyl-6-dimethylaminopyrimidine ("Castrix") in field mouse and vole control]. Munich. Univ. Tierarztl. Fak. [Inaug.-Diss.] 8,36 p. Ref. 1967. 41.2 M9222
- 88045 CAIN, S. A. Natural area preservation: national urgency. BioScience 18(5):399-401. May 1968. 500 Am322A
- 88046 CARPENTER, P. L. Microbiology. Ed. 2. Philadelphia, Saunders, 1967. 476 p. Ref. QR41.C3 1967  
Text book.
- 88047 COLES, C. L. Game in the seventies. Great Brit. Min. Agr. Fish. Food. Agr. 75(3):136-141. Mar. 1968. 10 G79J  
Management.
- 88048 DIMENY, I. Main tasks in developing agriculture, food industry, forestry and primary wood industries. (Hu) Erdo 17(4):145-154. Apr. 1968. 99.8 Er22  
English summary.
- 88049 DYK, V., and LUCKY, Z. Possibilities of Czechoslovak fish production. (Cz) Veterinarstvi 18(2):57-59. 1968. 41.8 V6439  
In farm fishponds.
- 88050 DZHANGALIEV, A. D. Scientific activity of the institutions of the Department of Biological Sciences [Otdelenie Biologicheskikh Nauk]. 15 p. (JPRS 37,436; TT 66-33864)  
Transl. 16268  
At the Academy of Sciences of Kazakh SSR [Akademiya Nauk Kazakhskoi SSR].  
Translation from Akademiya Nauk Kazakhskoi SSR. Izvestiya. Seriya Biologicheskaya 3:3-12. 1966.  
Issued by CFSTI.
- 88051 ENTOMA Europe: 1966-67 edition. Manufacturers and formulators of chemicals and chemical products for the agricultural and horticultural sector. Hilversum, Economic Documentation Office, 1967? 424 p. TP12.B8  
Economic poisons.
- 88052 ESTEVE, M. Plastics in agriculture. (Sp) Cultiv. Mod. 51(4):37-38. Apr. 1968. 15 C89
- 88053 FEED AND FARM SUPPLIER. 1968 directory of farm supplies. Feed Farm Supplier 41(12):12-118. Dec. 1967. 47.8 H28
- 88054 FLJL DEPT. OF AGRICULTURE. Annual report for the year 1966. Suva, 1967. 32 p. 25 F47
- 88055 FOSTER, C. H. W. Action by State Departments of Conservation. BioScience 18(5):418-420. May 1968. 500 Am322A
- 88056 GERBERG, E. J. Pesticides, fertilizers needed in Pakistan's drive to expand its agricultural production. Int. Com. 74(16):13-15. Apr. 15, 1968. 157.54. F763  
Trade possibilities.
- 88057 GEYER, R. E. More trained youthpower for farm supply employment. Feed Farm Supplier 42(5):22-23. May 1968. 47.8 H28
- 88058 GIBSON, F. Microbiology and biological research. Australian J. Sci. 30(9):340-345. Ref. Mar. 1968. 475 Au72
- 88059 GOLEMAN, D. L. Be prepared! when using pesticides. Ohio. State Univ. Ext. Leaflet. L-152, 8 p. Mar. 1968. 275.29 Oh32EL
- 88060 GOODWIN, R. H. The role of private agencies in natural area preservation. BioScience 18(5):393-395. May 1968. 500 Am322A
- 88061 GRUENHAGEN, R. H. Kids will eat almost anything; Virginia Extension program alerts parents to dangers of home poisonings. Ext. Serv. Rev. 39(6):12-13. June 1968. 1 Ex892Ex
- 88062 HERSKOWITZ, I. H. Basic principles of molecular genetics. Boston, Little, Brown, 1967. 302 p. Ref. QH605.H4  
Textbook.
- 88063 HIRAKI, K. Agricultural pesticide poisoning. (Ja) Food Hyg. Soc. Jap. J. 9(1):1-14. Feb. 1968. 389.9 N57
- 88064 HOLLER, J. C. Effective education through State advisory conservation education councils. J. Soil Water Conserv. 22(6):232-234. Nov./Dec. 1967. 56.8 J822  
Conservation of natural resources in South Carolina.
- 88065 KENTUCKY. DEPT. OF AGRICULTURE. 45th biennial report, July 1, 1965-June 30, 1967. Frankfort, 1968? 112 p., map. 2 K41R
- 88066 KLEIN, W., and others. On the metabolism of endrin, heptachlor, and telodrin. (Ge) Qualitas Plant. Mater. Veg. 15(3):225-228. Aug. 3, 1968. 64.8 M41  
F. Korte, I. Weisgerber, R. Kaul, W. Muller, and A. Djirsarai, joint authors.  
English summary.  
In plants, Aedes aegypti, and rats.
- 88067 KNOWLTON, G. F., and ROBERTS, R. S. Poisoning cases—the national picture. Utah. State Univ. Ext. Pestic. Ser. 23, 2 p. Sept. 1966. SB951.A1U8  
Economic poisons.
- 88068 KUNTZE, W., NITSCHKE, R., and MERTENS, H. V. Investigation of the impact strength of artificial resins. 2. 23 p. (FPL Transl. No. 65) Transl. 16837  
Translation from Kunststoffe 30(7):193-199. 1940.
- 88069 LAGLER, K. F. International opportunities for ecological research. Biologist 50(3/4):167-170. June 1968. 442.8 B5263
- 88070 LUCKHARDT, R. L. How dealers rate their services. Farm Chem. 131(6):80, 82, 84. June 1968. 57.8 Am3  
Farm chemicals industry.
- 88071 MARAMOROSCH, K., and KOPROWSKI, H. ed. Methods in virology, Volume IV. New York, Academic Press, 1968. 764 p. QR360.M3  
Review of the literature.
- 88072 MONTANER ESTEVE, J. Nuclear energy in agriculture. (Sp) Cultiv. Mod. 51(2):39. Feb. 1968. 15 C89
- 88073 MORLEY, F. H. W. Computers and designs, calories and decisions. Australian J. Sci. 30(10):405-409. Apr. 1968. 475 Au72  
Its application in agriculture, and outlook of agriculture.
- 88074 NOVAKOVA, E. Utilization of hemograms of hares as indicator of anthropogenic landscape changes. (Fr) Schweiz. Z. Forstwesen 119(1):31-44. Jan. 1968. 99.8 J82  
German summary.  
In relation to air pollution and pesticides effects.

- OPPLAND LANDBRUKSSELSKAP. Melding [Report of Oppland Agricultural Society], 1967. Otta, 1968. 93 p. 11 Op4
- SS076 OSGUTHORPE, J. Another year of dilemma at AID. Farm Chem. 131(6):28,30-31,34,78. June 1968. 57.8 Am3  
Text of an interview.  
Purchases of pesticides and fertilizers by the Office of War on Hunger, AID.
- SS077 PRECAUTIONARY measures in the use of plant protection and pest control materials in forest and medical help in poisoning cases. (Ge) Forsttech. Inform. 2:15-16. Feb.1968. 99.8 F7794
- SS078 RINEY, T. Conservation and management of African wildlife. Rome, Food and Agriculture Organization of the United Nations, 1967. 35 p. (African Special Project) S964.A3R5  
Sponsored by the Food and Agriculture Organization of the United Nations and the International Union for the Conservation of Nature and Natural Resources.
- SS079 ROBERTS, R. S., and KNOWLTON, G. F. Poisoning cases—the national picture. Utah. State Univ. Ext. Pestic. Ser. 15,1 p. Apr.1966. SB951.A1U8  
Economic poisons.
- SS080 ROBERTS, R. S. Utah's poison control center. Utah. State Univ. Ext. Pestic. Ser. 10,rev.,1 p. July 1966. SB951.A1U8  
Man.
- SS081 ROWELL, R. M., and WHISTLER, R. L. Acid stability of the S-oxides and S,S-dioxide of methyl 5-thio-beta-D-xylopyranoside. Carbohydr. Res. 5(3):337-339. Nov.1967. 385 C172
- SS082 SCHWARTZ, D. P., and BREWINGTON, C. R. Methods for the isolation and characterization of constituents of natural products. VI-VII. Microchem. J. 13(1):30-34,125-129. Mar.1968. 381 M58  
VI, Preparation of thioesters of pyruvic acid 2,6-dinitrophenylhydrazones and resolution of a homologous series by thin-layer partition chromatography; VII, Purification of alcohol ester, amide, and thioester derivatives of pyruvic acid 2,6-dinitrophenylhydrazone with an anion exchange resin.
- SS083 SOCIETY FOR GENERAL MICROBIOLOGY. [Abstracts of papers at the 50th general meeting, Cambridge, 14-16, Sept. 1967]. J. Gen. Microbiol. 50(3):I-XV. Mar.1968. 448.3 J823  
Includes agricultural aspects.
- SS084 THIELE, K. Agricultural supply and purchase in 1967. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 622:1-7. Jan.31,1968. (JPRS 44,201) 173 J663Ste  
In Czechoslovakia.  
Translation from Socialisticke Zemedelstvi 52:1-2. Dec.1967.  
Issued by CFSTI.
- SS085 THOMSON, W. T. Aerial ag chemistry. Aerial Appl. 6(2):8. Feb.1968. 333.8 Ae8  
Chiefly marketing and exports of pesticides.
- SS086 U. S. CONGRESS. SENATE. COMMITTEE ON APPROPRIATIONS. Department of Agriculture and related agencies appropriation for fiscal year 1969. Hearings, 90th Cong., 2d sess. on H.R.16913. Pt. 1-2. Washington, 1968. 2 v. 1 Ag81Ra
- SS087 VAN ECK, W. A. Universities and colleges: attitudes and actions. BioScience 18(5):402-496. May 1968. 500 Am322A  
With regard to the preservation of natural areas.
- SS088 VENEZUELA. MINISTERIO DE AGRICULTURA Y CRIA. Memoria y cuenta [Report and accounts], 1967. Caracas, 1968. 527 p. 9.95 Ag82M
- SS089 VICKERY, R. E. FAS tools up to enter the computer age. Foreign Agr. 6(23):2-4. June 3, 1968. A281.9 F76Fo
- SS090 WAGNER, K. New orientation of materials supply—a method for improving the supply of farms. (Ge) Deut. Agrartech. 17(2):575-576. Dec.1967. 58.8 D482
- SS091 WASSERBURGER, H. J. Know your enemies. 10. Rats and mice. (Ge) Mitt. Deut. Landwirt.-Ges. 83(12):388,390-392. Mar.21,1968. 18 N39  
House and field pests.
- SS092 WEST VIRGINIA ACADEMY OF SCIENCE. Proceedings, 1967. Vol.39, the forty-second annual session at West Virginia University, April 13, 14, 15, 1967. Morgantown, 1967. 417 p.,map. Ref. 500 W52
- SS093 WORTHINGTON, E. B. Progress with the International Biological Programme. Planters' Chron. 63(5):71-72. Mar.1,1968. 22 P693
- ### BIOGRAPHY
- SS094 AMERICAN Feed Manufacturers' Association Award 1967. J. Anim. Sci. 26(6):1520-1521. Nov.1967. 49 J82  
Presented to D. E. Ullrey for his research on animal nutrition.
- SS095 AMERICAN Society of Animal Science Animal Breeding and Genetics Award 1967. J. Anim. Sci. 26(6):1522-1523. Nov.1967. 49 J82  
Presented to K. E. Gregory.
- SS096 AMERICAN Society of Animal Science Animal Physiology and Endocrinology Award. J. Anim. Sci. 26(6):1526-1527. Nov.1967. 49 J82  
Presented to R. E. Erb.
- SS097 AMERICAN Society of Animal Science Distinguished Teacher Award. J. Anim. Sci. 26(6):1524-1525. Nov.1967. 49 J82  
Presented to L. V. Tirrell.
- SS098 AMERICAN Society of Animal Science Fellows 1967. J. Anim. Sci. 26(6):1532-1537. Nov.1967. 49 J82  
C. T. Blunn, C. C. Culbertson, D. L. MacKintosh, M. A. Alexander, H. A. Stewart, E. A. Livesay, and H. T. Strong.
- SS099 AMERICAN Society of Animal Science Meat Research Award 1967. J. Anim. Sci. 26(6):1528-1529. Nov.1967. 49 J82  
Presented to R. L. Henrickson.
- SS100 ANGUS, R. B. William Alexander Francis Balfour-Browne, M.A., F.R.S.E. Entomol. Mon. Mag. 103(1241/1243):286-288. Oct./Dec. 1967, pub. Mar.30, 1968. 421 En86
- SS101 ARNESEN, J. Finn Hoel is 50 years old. (No) Gartneryrket 58(4):69. Jan.26,1968. 80 G1938
- SS102 ARTHUR Koehler died. (Ge) Holz Roh- Werkstoff 26(1):34. Jan.1968. 99.81 H74  
Includes list of publications.
- SS103 ARTHUR Morel Massee, O.B.E., D. SC., F.R.E.S., 1899-1967. S. London Entomol. Natur. Hist. Soc. Proc. Trans. 1967(4):125-126. Dec.1967. 420 So8
- SS104 BAKHTEEV, F. KH. N. I. Vavilov (on the occasion of his 80th birthday). (Rus) Bot. Zhur. [Moscow] 53(4):554-559. Apr.1968. 451 R923
- SS105 BOHSTEDT Award in Trace Mineral Research 1967. J. Anim. Sci. 26(6):1530-1531. Nov.1967. 49 J82  
Presented to W. G. Hoekstra for his research on animal nutrition.
- SS106 BRUCKNER, V. Laszlo Cholnoky, 1889-1967. (Ge) Acta Chim. 55(2):129-136. 1968. 385 Ac83  
Includes list of publications.
- SS107 DECHERING, F. J. A. Upon the retirement of our administrator. (Du) Landbouwkundig Tijdschr. 80(5):191. May 1968. 105.2 Or3  
L. C. M. Meulendijk.
- SS108 DOCTOR Francois Levesque is dead. (Fr) Saint-Hyacinthe. Ecole Med. Vet. 9(6):93. Nov./Dec.1967. 41.9 Sa2
- SS109 DR. CARL Hegewald 80 years old. (Ge) Prakt. Tierarzt 49(5):247. May 1,1968. 41.8 P882
- SS110 DR. SANDOR Forgeteg, 1925-1968. (Hu) Novenytermeles 1:100. Mar.1968. 64.8 N76
- SS111 EBING, W. Dr. Gerhard Schrader 65 years old. (Ge) Nachrichtenbl. Deut. Pflanzenschutz-diensten 20(2):32. Feb.1968. 442.9 B833



- 88112 EIGHTH Alton E. Bailey award honors Herbert Dutton of USDA; cited for work in stability of edible soybean oils. Amer. Oil Chem. Soc. J. 45(5):264A,281A. May 1968. 307.8 J82
- 88113 EIGHTIETH anniversary of Professor E. D. L'vov. (Rus) Mekh. Elek. Sots. Sel. Khoz. 2: 59. 1968. 58.8 M46
- 88114 EINAR Nygard is 50 years old. (Sw) Mejeritidskrift 30(2):56-57. Apr.1968. 44.8 M472
- 88115 THE FACES of forestry. Forests People 18(2): 24-27,34-35. Second Q.1968. 99.8 F7628  
L. Blackwell, P. Y. Burns, A. S. McKean, and R. Wall.
- 88116 FISCHBECK, G. Hans-Georg Kmoch. (Ge) Z. Acker-Pflanzenbau 127(3):177-179. Apr.1968. 18 J825
- 88117 FRIEHE, G. Dear Dr. [Alfred] Oberlack! (Ge) Landesver. Gartenbau Landwirt. Berlin. Mitteilungsbl. 19(1):5. Jan.1968. 85 L233  
On his 65th birthday.
- 88118 FRISCH, K. VON. A biologist remembers. Oxford, Pergamon Press, 1967. 200 p. (International Series of Monographs in History and Philosophy of Sciences. v. 1) QL31.F72  
Translation of Erinnerungen Eines Biologen.
- 88119 FRITZ Lucherath will be 70 years old. (No) Norsk Pelsdyrbld. 42(4):194. Feb.20,1968. 412.628 N812
- 88120 FROHLICH, H. J. State forester i.R. Dr. Rudolf Muller is 70 years old. (Ge) Holzzucht 22(1/2):16-17. Feb.1968. 99.8 H743  
Includes list of publications.
- 88121 GARDNER, M. W., and YARWOOD, C. E. James Theophilus Barrett, 1876-1966. Phytopathology 58(5):551. May 1968. 464.8 P56
- 88122 GILES, D. Obituary: Guy Talbot Creese. Amer. Leather Chem. Ass. J. 63(4):278-279. Apr. 1968. 303.9 Am32
- 88123 GIRSHKAN, S. A. In memory of a prominent scientist. (Rus) Gidrotekh. Melior. 3:117-118. Mar.1968. 290.8 G362  
L. P. Rozov.
- 88124 GREBENSTEIN, O. K. G. Inventor of surgical equipments, Adolf von Rueff. II. (Ge) Tierarztl. Umsch. 23(5):226-231. May 1,1968. 41.8 T445
- 88125 GUSTAV Schmid, Mannenbach. (Ge) Schweiz. Obst- Weinbau 104(8):206-208. Mar.30,1968. 80 Sch9
- 88126 HANNEMANN, H. J. Erich Martin Hering (1893-1967). Lepidopterists' Soc. J. 22(2):123-124. May 31,1968. 421 L554
- 88127 HANS Wilbrandt upon his 65th birthday. (Ge) Z. Auslandsche Landwirt. 7(1):1-3. Jan.1968. 281.8 Z32
- 88128 HANSSON, A. Pioneer in apiculture: Johan Fischerstrom. (Sw) Bitidningen 67(3):77. Mar.1968. 424.8 B54
- 88129 HANSSON, A. Pioneer in apiculture: Nils Koch. (Sw) Bitidningen 67(4):112. Apr.1968. 424.8 B54
- 88130 HEDENMALM, E. Albert Andersson is 70 years old. (Sw) Bitidningen 67(3):101-102. Mar.1968. 424.8 B54
- 88131 HERRING, J. L. Roland Fountain Hussey 1896-1967. Fla. Entomol. 51(2):75-76. June 1968. 420 F662
- 88132 HULLEN, E. In memoriam: Wilhelm Witt, Jr. (Ge) Champignon 8(77):3. Jan.1968. 80 C352
- 88133 IN MEMORIAM C. Boudewijn. (Du) Groenten Fruit 23(33):1474. Feb.28,1968. 80 G89
- 88134 IN MEMORIAM: Dr. P.M.N. Naidu, B.Sc. L. L. V. P. (Hons.) Dr. Med. Vet. Indian Vet. J. 44(11):988. Nov.1967. 41.8 In2
- 88135 IN MEMORIAM of Hasan Ali Turker. (Tu) Ankara. Lalahan Zooteek. Arastirma Enstitusu. Dergisi 7(4):119. Dec.1967. 49.9 An6
- 88136 IN MEMORY of A. I. Ovchinnikov. (Rus) Mo-loch. Prom. 3:41. Mar.1968. 44.8 M734
- 88137 IN MEMORY of A. Kh. Anastasov. (Rus) Khlopkovodstvo 2:44. Feb.1968. 72.8 K522
- 88138 IN MEMORY of A. P. Studentsov. (Rus) Zhi-votnovodstvo 4:89. Apr.1968. 49 Z6
- 88139 IN MEMORY of Doctor T. G. Katar'yan. (Rus) Vinodel. Vinograd. SSSR 1:60-61. 1968. 95.8 V77
- 88140 IN MEMORY of E. I. Ushakova. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 3:157. Mar.1968. 20 V633
- 88141 IN MEMORY of Professor N. A. Maisuriyan. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 3: 157-158. Mar.1968. 20 V633
- 88142 IN MEMORY of Professor N. N. Kuleshov. (Rus) Selek. Semenovodstvo 2:79. Mar./Apr. 1968. 61.9 Se5
- 88143 IN MEMORY of Professor P. T. Bolgarev. (Rus) Vinodel. Vinograd. SSSR 1:62. 1968. 95.8 V77
- 88144 I'SO, I. Miklos Bitterla (1887-1947). Acta Agron. [Budapest] 17(1/2):281-282. 1968. 19 Ac8
- 88145 JENS Osteraas is dead. (No) Meieriposten 57 (7):137-138. Feb.17,1968. 44.8 M47
- 88146 JOHANNES, A. Van den Akker TAPPI medalist. TAPPI (Tech. Ass. Pulp Pap. Indus.) 51(4):37A. Apr.1968. 302.8 T162  
Gold Medal winner for 1968.
- 88147 KAISER, F. Raiffeisen was different! (Ge) Mitt. Deut. Landwirt.-Ges. 83(13):417-418. Mar.28,1968. 18 N39  
On Friedrich Wilhelm Raiffeisen.
- 88148 KASPERSEN, T. Alfred Gram 1/17 1897-11/4 1967. (Da) Dansk Skovfor. Tidsskr. 53(1):1-3. Jan.1968. 99.8 D23
- 88149 KNAPP, J. G., and others: Great American co-operators; biographical sketches of 101 major pioneers in cooperative development. Washington, American Institute of Cooperation, 1967. 607 p. HD3444.5.K6  
Biographies of X. A. Willar, O. H. Kelley, C. M. Macune, C. L. Haecker, C. O. Drayton, A. C. Adams, V. S. Alanne, P. S. Armstrong, C. R. Arnold, M. E. Arnold, H. E. Babcock, C. F. Baker, H. J. Beernink, R. N. Benjamin, R. F. Bergengren, R. W. Bingham, J. D. Black, E. R. Bowen, C. J. Brand, J. Brandt, M. J. Briggs, C. L. Brody, D. W. Brooks, A. E. Cance, A. U. Chaney, C. L. Christensen, W. W. Cole, C. C. Commander, M. L. Cooke, E. G. Cort, H. A. Cowden, V. Elsinger, R. H. Elsworth, H. E. Erdman, E. A. Filene, K. B. Gardner, W. M. Garrard, E. P. Garrett, M. C. Gay, H. Hedges, F. E. Herndon, L. S. Herron, B. H. Hibbard, B. Hirth, A. Hobson, C. W. Holman, R. Hood, A. Howland, L. S. Hulbert, I. H. Hull, A. L. Jerdan, O. B. Jesness, F. G. Kether, H. K. Krumery, J. Lawler, M. D. Lincoln, A. G. Lohman, C. McCarthy, J. G. K. McClure, J. A. McGuire, A. W. McKay, C. L. McNeil, M. G. Mann, H. Metzger, J. D. Miller, R. W. Miller, H. A. Moses, W. I. Myers, E. G. Nourse, F. E. Parker, R. Pattee, F. W. Peck, E. A. Perreux, H. C. Peterson, C. Poe, G. H. Powell, H. B. Price, E. N. Puckett, C. G. Randell, Q. Reynolds, F. Robotka, A. R. Rule, S. D. Sanders, A. Sapiro, J. J. Scanlan, V. M. Searles, R. Snyder, T. G. Stitts, E. A. Stokdyk, F. T. Swett, E. A. Syftestad, C. C. Taylor, C. C. Teague, M. W. Thatcher, V. N. Valgren, J. P. Warbasse, H. Weinstock, C. Williams, W. G. Wysor, J. A. McConnell, and H. C. Taylor.
- 88150 KNIGHT, F. B. Samuel Alexander Graham, 1891-1967. Mich. Entomol. 1(8):287-288. June 1968. QL461.M5
- 88151 KOVALEV, G. V. Nikolai F. Meier. (Rus) Zashch. Rast. 5:62. 1968. 421 Z1
- 88152 KUZNICKI, F. Professor Dr. Arkadiusz Musierowicz, in memoriam. (Pol) Rocz. Gleboznawcze 17:5-28. 1967. 56.8 R592  
English summary.  
Includes list of publications.
- 88153 LANKE, R. Gosta Bohm+. (Sw) Bitidningen 67(4):139-140. Apr.1968. 424.8 B54

- 88154 LAUPRECHT, E. Prof. Dr. Dr. h. c. Werner Kirsch. (Ge) Zuchtungskunde 39(6):383-384. Nov./Dec.1967. 49 Z8
- 88155 LAVRENKO, E. M. In memory of N. I. Vavilov. (Rus) Bot. Zhur. [Moscow] 53(4):427-430. Apr.1968. 451 R923
- 88156 LAVROVA, Z. P. One among the best. (Rus) Selek. Semenovodstvo 2:39-41. Mar./Apr.1968. 61.9 Se5  
N. V. Rudnitskii. --
- 88157 LEMBKE, A. Laudatio for President Detlef Struve. (Ge) Kieler Milchwirtsch. Forschungsber. 20(1):27-29. Second Q.1968. 44.9 K542  
Award of the Hermann Weigmann Memorial Medal on December 21, 1968, for service to the dairy industry.
- 88158 LEPNEV, D. A., BARSUKOV, G. M., and EGÖRENKOV, L. I. Professor, Doctor P. E. Prostakov. (Rus) Pochvovedenie 11:140. Nov. 1967. 57.8 P34
- 88159 LEUTHOLD, F., and MORRISON, D. E. In memoriam: James R. Hundley, Jr. (1939-1967). Rural Sociology 33(1):85. Mar.1968. 281.28 R88
- 88160 LIVESTOCK industry honors Prof. E. B. Stanley, on [University of Arizona] staff 47 years. Progr. Agr. Ariz. 20(2):3,22. Mar./Apr.1968. 6 P9452
- 88161 MAATSCH, R. President Dr. h. c. Ernst Schroder is 75. (Ge) Landesver. Gartenbau Landwirt. Berlin. Mitteilungsbl. 19(1):4. Jan. 1968. 85 L233  
President of the Zentralverband des Deutschen Gemuse-, Obst- und Gartenbaues.
- 88162 MACHATA, G. In memoriam: Prof. Dr. Hermann Jansch. (Ge) Wien. Tierarztl. Monatsschr. 54(12):781-782. 1967. 41.8 T345
- 88163 MADAS, A. Ervin Barlai, 1898-1967. (Hu) Erdo 17(1):46-47. Jan.1968. 99.8 Er22
- 88164 MAISURYAN, N. A. His life was dedicated to science. (Rus) Zemledelie 3:48-51. Mar. 1968. 20 Z44  
N. I. Vavilov.
- 88165 MANKTELOW, SIR R. Sir Richard Haddon. Great Brit. Min. Agr. Fish. Food Agr. 75(3):109-110. Mar.1968. 10 G79J
- 88166 MANTEL. Chief forester Dr. [Friedrich] Schmieder in retirement. (Ge) Forst- Holzwirt 23(2):31-32. Jan.23,1968. 99.8 F7724
- 88167 MCCALLAN, S. E. A. Lela Viola Barton (November 14, 1901-July 31, 1967). Boyce Thompson Inst. Contrib. 24(1):1-2. Oct./Dec. 1967. 451 B69
- 88168 MEET your new president. Forest Prod. J. 18(6):8-9. June 1968. 99.9 F7662J  
E. A. Anderson.
- 88169 MEMORIAL: Delbert F. Breazeale, 1906-1966. J. Dairy Sci. 50(12):2001. Dec.1967. 44.8 J822
- 88170 MEMORIAL: George M. Werner, 1898-1967. J. Dairy Sci. 50(12):2000-2001. Dec.1967. 44.8 J822
- 88171 MEMORIALS: Charles M. Kincaid and Ernest B. Forbes. J. Anim. Sci. 26(6):1539-1540. Nov.1967. 49 J82
- 88172 MINDERHOUD, A. P. Dr. S. Smeding (1889-1967). (Du) Landbouwkundig Tijdschr. 80(1):3-5. Jan.1968. 105.2 Or3
- 88173 THE MORRISON award, 1967. J. Anim. Sci. 26(6):1518-1519. Nov.1967. 49 J82  
Presented to J. T. Reid for his research on animals.
- 88174 MRS. PAULINE Fladseth, Molde, will be 85 years old, January 28. (No) Gartneryrket 58(4):69. Jan.26,1968. 80 G1938
- 88175 N. A. TELANGA. (Rus) Zashch. Rast. 3:62. 1967. 421 Z1
- 88176 N. L. BLAGOVIDOV (obituary). (Rus) Pochvovedenie 11:141-142. Nov.1967. 57.8 P34
- 88177 NICHOLS, C. W. George Edward Altstatt, 1905-1966. Phytopathology 58(5):552. May 1968. 464.8 P56
- 88178 NILSSON, J. Svea Victor is 50 years old. (Sw) Bitidningen 67(3):102-103. Mar.1968. 424.8 B54
- 88179 OLSEN, V. Johan Petersen will be 60 years old. (Da) Dansk Pelsdyravt 31(1):12. Jan.20, 1968. 412.628 D23
- 88180 OSTERHOLM, B. E. Saura is 70 years old. (Fi) Suomen Elainlaakarilehti 74(4):148-149. 1968. 41.8 F49
- 88181 POLYANSKII, YU. I. Evgenii Mineevich Kheisin (60th birthday anniversary). (Rus) Tsitologiya 9(11):1436-1440. Nov.1967. 442.8 T78  
Includes list of publications.
- 88182 THE PRESIDENT of the Central Federation is 75 years old. (Ge) Champignon 8(77):6. Jan.1968. 80 C352  
Dr. Ernst Schroder of the Zentralverband des Deutschen Gemuse, Obst- und Gartenbaues.
- 88183 PREUSCHEN, G. Dr. Hans Rheinwald-65 years old. (Ge) Landarbeit 19(1):3-4. Jan. 1968. 18 L2355
- 88184 PURRER, W. Prof. Dipl. Ing. Dr. Otto Eckmüller is 60 years old. (Ge) Centralbl. Gesamte Forstwesen 85(1):60-61. Mar.1968. 99.8 C33
- 88185 RIES, L. W. The path of the director of the institute; 60th birthday of Dr. G. Preuschen. (Ge) Landarbeit 19(1):1-3. Jan.1968. 18 L2355
- 88186 ROD, A. Olav Vatne will be 60 years old. (No) Gartneryrket 58(9):183. Mar.1,1968. 80 G1938
- 88187 RUHOFF, F. A. Bibliography and index to scientific contributions of Carl J. Drake for the years 1914-1967. U. S. Nat. Mus. Bull. 267, 81 p. 1968. 500 Sm65B  
Includes biography.
- 88188 SCHEARFENBERG, W. VON. Herman von Nathusius Medal for prof. Dr. Dr. h.c. Werner Kirsch. (Ge) Zuchtungskunde 39(6):381-382. Nov./Dec.1967. 49 Z8
- 88189 A SCIENTIST and educator. (Rus) Zhivotnovodstvo 4:82. Apr.1968. 49 Z6  
A. P. Markushin.
- 88190 A SENIOR selector--G. A. Kirichenko. (Rus) Zhivotnovodstvo 3:91-92. Mar.1968. 49 Z6
- 88191 SEVENTIETH anniversary of Academician A. G. Trutnev. (Rus) Vestnik Sel'skokhoz. Nauk. 3:150. Mar.1968. 20 V633
- 88192 SEVENTIETH anniversary of Professor A. E. Yatsenko. (Rus) Zhivotnovodstvo 3:90. Mar. 1968. 49 Z6
- 88193 SHIELDS [R.H.] named 1967 "Sugar Man of the Year." Sugar Azucar 63(5):54. May 1968. 65.8 F11  
Dyer Memorial Award.
- 88194 SIXTIETH anniversary of A. A. Il'inski. (Rus) Sadovodstvo 12:43. Dec.1967. 80 Sa13
- 88195 SIXTIETH anniversary of V. V. Anufriev. (Rus) Myasnaya Indus. SSSR. 2:4. Feb.1968. 50.8 M58
- 88196 SJOSTROM, G. Per Swartling died. (Sw) Nord. Mejeri-Tidsskr. 33(11/12):227. 1967. 44.8 N752
- 88197 SLENNETT, G. D. Hawkesbury 1967 New Poultry Equipment Award. New S. Wales. Dep. Agr. Poultry Notes, Apr.1968:9-12. 47.9 N472  
Went to Frigrite Industries Pty Ltd for their refrigerated egg storage room.
- 88198 STEFANCIC, A. In memoriam--Franc Samec, Rafael Ipavec and Franc Primic. (Se) Vet. Glas. 22(1):66-70. Jan.1968. 41.8 J93
- 88199 STEINAR Fredriksen will be 50 years old. (No) Meieriposten 57(13):261-262. Mar.30, 1968. 44.8 M47
- 88200 STENBERG, H. Oskar V. Hellens. (Fi) Suomen Elainlaakarilehti 74(4):141-146. 1968. 41.8 F49  
Swedish summary.  
Necrology.



- 88201 STOJANOVIC, D. Desanka Gavrilovic (1926-1967). (Se) Vet. Glas. 22(1):70-71. Jan.1968. 41.8 J93
- 88202 STRUVE, D. Address on the occasion of the bestowal of the Professor Hermann Weighmann Memorial Medal on December 21, 1967, in Kiel. (Ge) Kieler Milchwirtsch. Forschungsber. 20(1):31-33. Second Q.1968. 44.9 K542
- 88203 SZYMKOWICZ, L. Jan Mrozowski. (Pol) Sylwan 112(2):89-90. 1968. 99.8 Sy52
- 88204 T. J. BAKKEN is 70 years old. (No) Birotekren 84(4):66. Apr.1968. 424.8 B53
- 88205 TODHUNTER, E. N. Biographical notes from the history of nutrition, James Boyd Allison—January 28, 1901—September 25, 1964. Amer. Diet. Ass. J. 52(6):526. June 1968. 389.8 Am34
- 88206 VALDEMAR Sandberg is 60 years old. (Sw) Skogsbruket 38(4):114. 1968. 99.8 Sk59
- 88207 W. J. SWEETMAN retires from Federal Service. J. Dairy Sci. 51(6):5. June 1968. 44.8 J822
- 88208 WAYNE Lewis to receive Fred Gottschalk Award. Forest Prod. J. 18(6):10. June 1968. 99.9 F7662J
- 88209 WHO'S WHO in agricultural engineering. 91. Mr. S. L. Potter. Farm Impl. Mach. Rev. 93 (1112):1099-1100. Dec.1.1967. 58.8 Im72
- 88210 WIEDJIK, J. Retirement of Dr. M. J. L. Dols. (Du) Neth. Dir. Landbouw. Landbouwvoorlichting 25(4):153-154. Apr.1968. 12 N383M
- 88211 WILLEKE, J. President Erich Hullen is 80 years old. (Ge) Champignon 8(77):4-5. Jan. 1968. 80 C352
- 88212 WILLIS, A. J., and COLEMAN-COOKE, J. Obituary: Dr. F. R. Elliston Wright. Bot. Soc. Brit. Isles. Proc. 7(2):291-292. Apr.1968. 451 B658Pr

## HISTORY

- 88213 BERQUE, J. French North Africa; the Maghrib between two world wars. New York. Praeger, 1967. Ref. 422 p. DT204.B42  
Translation of Le Magrib entre deux guerres. Agricultural history included.
- 88214 CANADA. DEPT. OF AGRICULTURE. Canada agriculture; the first hundred years, 1867-1967. Ottawa, Duhamel, 1967. 82 p. (Canada. Dept. of Agriculture. Historical Series No. 1) S133.A32
- 88215 DUBY, G. Essays in bibliography and criticism. LIX. The agrarian life of the Middle Ages. Econ. Hist. Rev. (ser.2)21(1):159-165. Apr.1968. 277.8 Ec7  
A discussion of Volume I of the Cambridge Economic History of Europe.
- 88216 HAUSHOFER, H. The historical influence of the French on German agriculture. (Ge) Agrargesch. Agrarsoziol. 16(1):1-15. Apr. 1968. Ref. 30.90 Z3
- 88217 JOHN, A. H. Farming in wartime: 1793-1815. In Jones, E. L., and Mingay, G. E. Land, labour and population in the industrial revolution. p.28-47. Ref. 1968. HC254.5J6
- 88218 MARTINI, S. Pier de'Crescenzi (1233-1321) the first agronomist of Europe. (Ge) Schweiz. Landwirt. Monatsh. 46(3):122-128. Ref. Mar. 1968. 17 Sch93  
English summary.  
Digest of his Treatise on Agriculture.
- 88219 RICHES, N. The agricultural revolution in Norfolk. Ed. 2. New York, Kelley, 1967. 194 p. (Reprints of economic classics) S457.N6R5  
Bibliography, p.172-186.

## HOME MANAGEMENT

- 88220 ALEXANDER, F. D. Evaluation of Family Service Program, Home Economics Division of Cooperative Extension, Clinton County, New York. Cornell Univ. Ext. Stud. 15,143 p. Sept.1967. 275.29 N48Ex

- 88221 BARRIER, D. L. Techniques for tailoring. N. C. Univ. Ext. Home Econ. Ser. 82,12 p. Feb. 1968. 275.29 N811Hom
- 88222 BYERLY, T. C. Challenges to home economics administrators. Nat. Seminar Workshop Home Econ. Res. Admin. Proc. 1967:2-6. TX5.N3
- 88223 DAVISON, S., LUND, L. O., and NELSON, B. C. Laundering white nylon slips. Minn. Sci. 24(1):7. Fall 1967. 100 M668
- 88224 HARRELL, G. P. Well-fitted pants. Hawaii. Univ. Ext. Home Econ. Circ. 354,11 p. Feb. 1968. 275.29 H312H  
Sewing.
- 88225 HARRELL, G. P. Zippers. Hawaii. Univ. Ext. Home Econ. Circ. 352,11 p. Mar.1968. 275.29 H312H
- 88226 HAWKES, G. R. Potential contributions of home economics research to improving family living conditions in rural areas. Nat. Seminar Workshop Home Econ. Res. Admin. Proc. 1967: 43-47. TX5.N3
- 88227 LEVERTON, R. M. Current home economics research in Agricultural Research Service. Nat. Seminar Workshop Home Econ. Res. Admin. Proc. 1967:32-38. TX5.N3
- 88228 MINDEN, M. B. Programs at the state stations. Nat. Seminar Workshop Home Econ. Res. Admin. Proc. 1967:38-43. TX5.N3  
Home management research.
- 88229 NATIONAL SEMINAR AND WORKSHOP FOR HOME ECONOMICS RESEARCH ADMINISTRATORS, UNIVERSITY OF NEBRASKA, 1967. Proceedings. Washington, U. S. Dept. of Agriculture, Cooperative State Research Service, 1967. 98 p. TX5.N3  
Proceedings of seminar held at Nebraska Center for Continuing Education.
- 88230 PERSONIUS, C. Home economics in the national scientific effort. Nat. Seminar Workshop Home Econ. Res. Admin. Proc. 1967:25-29. TX5.N3  
Research and policies.
- 88231 PROCHNOW, J. First step in a long walk. Ext. Serv. Rev. 39(6):14-15. June 1968. 1 Ex892Ex  
Michigan Extension program to teach home management.
- 88232 SHERIDAN, P. The "how" of extension. Ext. Serv. Rev. 39(3/4):14-15. Mar./Apr.1968. 1 Ex892Ex  
Ohio program to instruct foreign home economists.
- 88233 TROTTER, V. The home economics responsibility. Nat. Seminar Workshop Home Econ. Res. Admin. Proc. 1967:17-25. TX5.N3  
Research and teaching.

## INTERNATIONAL RELATIONS

- 88234 YOSHINO, B. Japanese policy for economic cooperation for southeast Asia. (Ja) Agr. Asia 5(12):3-9. Dec.1967. 22.5 Aj5

## METEOROLOGY

- 88235 JACKSON, L. P. Climate for agriculture at Nappan 1914-1965. Can. Dep. Agr. Publ. 1352, 17 p. 1968. 7 C16Pu
- 88236 NAKATAO, T. Climatic indices for heaviness of snowcover disaster. (Ja) Agr. Eng. Soc. (Jap.). Trans. 23:9-18. Ref. Mar.1968. 290.9 Ag8  
English summary.
- 88237 PHAN QUANT. Review of 1967 agriculture: climate and crop guidance. Joint Publ. Res. Serv. Transl. N. Vietnam 319:84-89. Mar.4, 1968. (JPRS 44,583) DS557.A7J6  
Translation from Nhan Dan, Jan.16,1968:2. Issued by CFSTI.
- 88238 SINEL'SHCHIKOV, V. V. Main results and contemporary problems of agrometeorological research. (Rus) Meteorol. Gidrol. 12:3-11. Dec.1967. 345 M56

- SS239 U. S. WEATHER BUR. Federal plan for a National Agricultural Weather Service. Washington, 1967. 32 p. PREP 254  
U. S. Department of Agriculture, cooperating.

## RESEARCH

- SS240 BROWNING, G. M. Progress in implementing the Long-Range Study [for Agriculture Research] at the national level. Nat. Seminar Workshop Home Econ. Res. Admin. Proc. 1967: 6-10. TX5.N3
- SS241 CANADA. RESEARCH STATION, AGASSIZ. Research report, 1964-1966. Ottawa, 1967. 32 p. S141.E2
- SS242 CANADA. RESEARCH STATION, FREDERICTON. Research report, 1965-1966. Ottawa, 1967. 36 p. S149.E2
- SS243 CANADA. RESEARCH STATION, KENTVILLE. Research report, 1965-1966. Ottawa, 1967. 18 p. S153.E2
- SS244 CANADA. RESEARCH STATION, LACOMBE. Research report, 1965-1966. Ottawa, 1967. 23 p. S135.E24
- SS245 EGYED, I. The efficacy of scientific agricultural research. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 624:19-26. Feb.8,1968. (JPRS 44,287) 173 J663Ste  
In Hungary.  
Translation from Magyar Tudomány 74(12): 777-783. Dec.1967.  
Issued by CFSTI.
- SS246 FEINENDEGEN, L. E. Tritium-labeled molecules in biology and medicine. New York, Academic Press, 1967. 430 p. (Monograph Series on Radiation Biology) QH324.3.F4  
Bibliography, p.355-384.  
Includes use in agricultural research and techniques applicable to other radioactive tracers.
- SS247 FORTMANN, H. R. Program development at the station level. Nat. Seminar Workshop Home Econ. Res. Admin. Proc. 1967:15-17. TX5.N3  
Research policies.
- SS248 FREEMAN, O. L. The agricultural research of the United States helps the world. (Sp) Bolsa Com. Rosario. Rev. 56(1343):5-7. Jan.31,1968. 287 R71
- SS249 GAL'PER, N. Inventiveness and agricultural research. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 2:124-125. Feb.1968. 20 V633
- SS250 LUNDELL, C. L. Agricultural research at Renner, 1944-1966. Renner, Texas Research Foundation, 1967. 1 v. (various pagings) S543.T4L8
- SS251 MCCLYMONT, G. L. Regional research in agriculture. Australian Inst. Agr. Sci. J. 34(1): 19-21. Mar.1968. 23 Au74
- SS252 MOORE, E. G. The Agricultural Research Service. New York, 1967. 244 p. Ref.,p.237-219. (Praeger Library of U.S. Government Departments and Agencies) S21.C9M6
- SS253 NEYNYLOV, B. A., and others. A research institute on a free basis. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 11:146-149. Nov.1967. 20 V633  
G. T. Kaz'min, Ya. M. Odnokon', and I. G. Shtarberg, joint authors.  
Activities of the Amur Agricultural Research Institute [Amurskii Sel'skokhozaistvennyi Nauchno-Issledovatel'skii Institut].
- SS254 NORWAY. KONTORET FOR LANDBRUKS-FORSKNING. Litteraturliste. Meldinger om forsoks- og forskningsarbeider, smaskrifter og andre opplysningsskrifter for landbruket [Literature list. Reports on experimental and research work, leaflets and other information publications on agriculture]. Oslo, 1968. 172 p. 241 N83Li
- SS255 RONNINGEN, T. Si t Role of the Cooperative State Research Service. Nat. Seminar Workshop Home Econ. Res. Admin. Proc. 1967:14-15. TX5.N3
- SS256 SASKATCHEWAN RESEARCH COUNCIL. Twenty-first annual report, 1967. Regina, 1967. 103 p. T177.C2S3  
Includes agriculture.
- SS257 SECHREST, A. Farm research, the solid base for progress. Nat. Agr. 43(4):20-21. Apr.1968. 280.82 B89
- SS258 SIMPSON, K. L. Nuclear energy in agricultural research. R. I. Agr. 14(2):3-5. Apr.1968. 100 R342
- SS259 TURNBULL, J. Developments in information retrieval. Nat. Seminar Workshop Home Econ. Res. Admin. Proc. 1967:10-14. TX5.N3  
Current Research Information System (CRIS) in the U. S. Department of Agriculture.
- SS260 U. S. AGRICULTURAL RESEARCH SERV. Science and consumers, the story of how agricultural research serves you. U. S. D. A. Agr. Inform. Bull. 322, slightly rev., 18 p. Feb.1968. 1 Ag84Ab
- SS261 U. S. AGRICULTURAL RESEARCH SERV. ADMIN. SERV. DIV. Directory of the Agricultural Research Services, January 1968. Washington, 1968. 102 p. aS21.A99  
U. S. Agricultural Research Service, Information Division, cooperating.
- SS262 U. S. COOPERATIVE STATE RESEARCH SERV. Funds for research at State agricultural experiment stations and other State institutions, 1967. U. S. Coop. State Res. Serv. CSRS-15-3, 25 p. Jan.1968. A31.3 R31Ae  
Total budget.
- SS263 VON AH, J. Agricultural research in Switzerland. FATIS (Food Agr. Tech. Inform. Serv.) Rev. 14(3):67-75, map. 1967. 275.249 F26

## STATISTICS

- SS264 CAMPBELL, R. C. Statistics for biologists. London, Cambridge University Press, 1967. 242 p. Ref. QH405.C3  
For agricultural research.
- SS265 ROOTSELAAR, B. van. A mathematical view of the model concept. (Du) Landbouwkundig Tijdschr. 80(4):180-183. Apr.1968. 105.2 Or3  
English summary.
- SS266 STOL, P. T. The ad-hoc decisions to computer programming. (Du) Landbouwkundig Tijdschr. 80(1):29-33. Jan.1968. 105.2 Or3  
FORTRAN programming as used at Wagenin-gen.
- SS267 VERSTRATEN, C. M. Enquiry on working with the computer. (Du) Ned. Heidemaatsch. Tijdschr. 79(4):204-208. Apr.1968. 12 N282  
The computer program of the R.A.E.T. (Rekencentrum voor Administratie, Efficiency, en Techniek-Accounting Center for Administration, Efficiency, and Technique) of the Nederlandsche Heidemaatschappij at Arnhem and application to agricultural surveys.



## NEW PERIODICALS AND SERIALS

AGRICULTURE AT LOS BANOS. Laguna, University of the Philippines, College of Agriculture. v.6, No.3. Jan./Mar.1967. S19.A3

AKADEMIYA NAUK UZBEKSKOI SSR. FUNDAMENTAL'NAYA BIBLIOTEKA. Priroda i prirodnye resursy Uzbekistana. No.3. 1966. Tashkent. Z7408.U4A35

CHING CHI TAO PAO YING WEN TSENG K'AN. Economic reporter. English supplement. Nov. 1967. Hongkong, Economic Information & Agency. 280.8 C4422 Suppl

HYDROTECHNICAL CONSTRUCTION. No.1. Jan.1967. New York, American Society of Civil Engineers. TA4.A453

LA SANTE DE L'ABEILLE. No.1. First Q. 1967. Paris, Federation Nationale des Organisations Sanitaires Apicoles Departementales. SF521.S4 Bee Cul

MADRAS (STATE) CINCHONA DEPT. Administration report. 1962/63. Madras. SB295.C5M3

STATION DE RECHERCHES DES EAUX ET FORETS. Travaux. Serie E. No.1. Groenendaal, 1965. SD1.S7

STUDIJNI INFORMACE; VETERINARSTVI. No. 1/2. 1966. Praha, Ustav Vedeckotechnicky informaci, Ministerstvo Zemedelstvi a Lesniho Hospodarstvi. SF604.S8

## TRANSLATIONS

Includes translations received in the Library during the preceding month. Except for articles in journals translated in full and received on subscription (starred items), the translations are included also in the classified section and indexed in the personal and subject indexes.

No copies are available for distribution. Photocopies may be ordered from the Library.

- ABASHIN, N. Measures for increasing production of poultry products. U. S. Joint Publ. Res. Serv. Transl. USSR Consum. Goods Dom. Trade 226:1-6. Jan. 26, 1968. (JPRS 44,155) 173 J663Tro  
Translation from Myasnaya Industriya SSSR 12:1-3. Dec. 1967.  
Issued by CFSTI.
- AKIMOCHKIN, N. G. Walnuts (Juglans) in the northern part of the central forest-steppe. 6 p. (TT 67-51331) Transl. 16781  
Translation from Moscow. Glavnyi Botanicheskii Sad. Byulleten' 41:11-16. 1961.  
Issued by CFSTI.
- ALEXE, E. Improvement needed in agricultural investment financing. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 620:25-27. (JPRS 44,096) 173 J663Ste  
Translation from Agricultura Socialista, Nov. 23, 1967:1-2.  
Issued by CFSTI.
- ALFIRI, I. More economic self-management foreseen in agriculture. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 630:29-32. Mar. 4, 1968. (JPRS 44,573) 173 J663Ste  
Translation from Gazeta Finantelor 16(759): 5. Jan. 1968.  
Issued by CFSTI.
- ALTUKHOV, M. A. A summary of the results obtained so far and the immediate problems before us in the field of Soviet rubber-bearing plants. 10 p. Transl. 16782  
Translation from Sotsialisticheskoe Sel'skoe Khozyaistvo 1:120-127. 1939.
- \* AMIROV, R. O., and SALAMOV, D. A. Sanitary-helminthological evaluation of sewage farms under climatic conditions of the Apshe-ron Peninsula. Acad. Sci. USSR. Dokl. Earth Sci. Sect. 32(4/6):437-439. Apr./June 1967. RA421.G53
- ARBIN, TS. Breeding work must begin with grouping of livestock. U. S. Joint Publ. Res. Serv. Transl. Mongolia 153:21-24. Jan. 8, 1968. (JPRS 43,901) 173 J663Tmo  
Translation from Unen, June 9, 1967:2.  
Issued by CFSTI.
- \* ASKAROVA, YA. N. Iodine contents in local foodstuffs in Bashkiria. Acad. Sci. USSR. Dokl. Earth Sci. Sect. 32(4/6):441-444. Apr./June 1967. RA421.G53
- BABADZHANYAN, M. Improvement of the state purchase price system in the Armenian SSR. U. S. Joint Publ. Res. Serv. Transl. USSR Agr. 228:1-4. Dec. 22, 1967. (JPRS 43,795) 173 J663Tso  
Translation from Kommunist, Nov. 24, 1967: 2.  
Issued by CFSTI.
- \* BARATOV, K. B., and others. Determination of organochlorine and organophosphorus compounds in rural water bodies in the Tadzhik SSR. Acad. Sci. USSR. Dokl. Earth Sci. Sect. 32(4/6):435-437. Apr./June 1967. RA421.G53  
I. V. Voloshin, E. M. Zaikovataya, S. I. Zbo-rovskaya, O. Z. Aliev, joint authors.
- BARBASHIN, M. Shortcomings in meat and dairy industry noted. U. S. Joint Publ. Res. Serv. Transl. USSR Consum. Goods Dom. Trade 354:17-23. May 17, 1968. (JPRS 45,420) 173 J663Tro  
Translation from Ekonomicheskaya Gazeta 14: 11-12. Apr. 1968.  
Issued by CFSTI.
- BARES, I. Soviet varieties of winter wheat in Czechoslovakia. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 604:7-10. Nov. 15, 1967. (JPRS 43,340) 173 J663Ste  
Translation from Socialisticke Zemedelstvi 39:7. Sept. 1967.  
Issued by CFSTI.
- BELLI, N. The decisive role of agriculture for economic progress. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 625:35-57. Feb. 13, 1968. (JPRS 44,358) 173 J663Ste  
Translation from Probleme Economice 20(12): 135-150. Dec. 1967.  
Issued by CFSTI.
- BERQUE, J. French North Africa: the Maghrib between two world wars. New York, Praeger, 1967. Ref. 422 p. DT204.B42  
Translation of Le Magrib entre deux guerres.
- BIRKELAND, R., and HVAMB, G. Studies of sawing accuracy on bandsaws when sawing frozen and unfrozen logs. 8 p. (FPL No. 554) Transl. 16809  
Translation from Norsk Skogindustri 17(8): 283-289. Aug. 1963.
- BIRULYA, YE. G. Measures for further development of production and technical base of meat and milk industry. U. S. Joint Publ. Res. Serv. Transl. USSR Consum. Goods Dom. Trade 215:24-27. Dec. 11, 1967. (JPRS 43,653) 173 J663Tro  
Translation from Kholodil'naya Tekhnika 9: 1-3. 1967.  
Issued by CFSTI.
- BLAJOVICI, P. New requirements for territorial organization and rural planning. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 625:15-34. Feb. 13, 1968. (JPRS 44,358) 173 J663Ste  
Translation from Probleme Economice 11:3-18. Nov. 1967.  
Issued by CFSTI.
- BOGDAN-BLAKITNYI, R., and SOLOMAKHIN, V. Formation of the sovkhos incentive fund. U. S. Joint Publ. Res. Serv. Transl. USSR Labor 249:60-63. May 28, 1968. (JPRS 45,500) 173 J663Tou  
Translation from Ekonomicheskaya Gazeta 13: 28. Mar. 1968.  
Issued by CFSTI.
- BOTZAN, M., CANARACHE, A., and BALLY, R. J. Rumanian research in soil and land utilization. 8 p. (JPRS 37,308; TT 66-33737) Transl. 16220  
Translation from Stiinta Solului 4(2):4-11. 1966.  
Issued by CFSTI.
- BUDAGYAN, F. Food toxicoses and toxic infections. 4 p. (JPRS 38,296; TT 66-34722) Transl. 16314  
Translation from Meditsinskaya Gazeta, Sept. 9, 1966:3.  
Issued by CFSTI.
- BUI HUY DAP. Agricultural victory in Nam Ha Province. Joint Publ. Res. Serv. Transl. N. Vietnam 314:110-114. Feb. 26, 1968. (JPRS 44,491) DS557.A7J6  
Translation from Nhan Dan, Jan. 20, 1968:2.  
Issued by CFSTI.
- BUI HUY DAP. Growing sesbania as fertilizer. Joint Publ. Res. Serv. Transl. N. Vietnam 359: 26-31. May 7, 1968. (JPRS 45,287) DS557.A7J6  
Translation from Nhan Dan, Mar. 25, 1968:2.  
Issued by CFSTI.



BUI HUY DAP. Improve the quality of experimental farms to serve production. Joint Publ. Res. Serv. Transl. N. Vietnam 296:1-8. Dec.26,1967. (JPRS 43,828) DS557.A7J6  
Translation from Khoa Hoc Ky Thuat Nong Nghiep 67:243-247. July 1967.  
Issued by CFSTI.

BUI HUY DAP. The 1966-1967 fifth month rice crops. Joint Publ. Res. Serv. Transl. N. Vietnam 311:1-11. Feb.12,1968. (JPRS 44,318) DS557.A7J6  
Translation from Khoa Hoc Ky Thuat Nong Nghiep 70:363-368. Oct.1967.  
Issued by CFSTI.

BUI-HUY-DAP. Spring rice campaign of 1966-1967. Joint Publ. Res. Serv. Transl. N. Vietnam 363:1-15. May 10,1968. (JPRS 45,318) DS557.A7J6  
Translation from Khoa Hoc Ky Thuat Nong Nghiep, Dec.1967:443-449.  
Issued by CFSTI.

BUI VAN KIN. Keep forests green. Joint Publ. Res. Serv. Transl. N. Vietnam 318:40-42. Mar.1,1968. (JPRS 44,557) DS557.A7J6  
Translation from Nhan Dan, Jan.25,1968:2.  
Issued by CFSTI.

BULGARU, M. Promotion of economic criteria in agriculture. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 615:10-15. Dec.18,1967. (JPRS 43,753) 173 J663Ste  
Translation from Scinteia 7531:1-3. Nov. 1967.  
Issued by CFSTI.

BULLIARD, H. The brush of the turkey (*Meleagris gallopavo* L.). Morphological study. 16 p. Transl. 15751  
Translation from Bull. l'Assoc. Anat. 21:132-145. 1926.

BULOCHNIKOVA, L. A. Laws for the application of machine technology and their use in agriculture. U. S. Joint Publ. Res. Serv. Transl. USSR Labor 236:11-25. Mar.14,1968. (JPRS 44,679) 173 J663Tou  
Translation from Vestnik Moskovskogo Universita, Seriya VII, Ekonomika, 1:46-56. Jan./Feb.1968.  
Issued by CFSTI.

BURGER, D. Research problems concerning forests, fauna, flora and outdoor recreation in the Netherlands. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.7:154-182, map. Ref. 1967. 99.9 In82  
Translation from Dutch.

BUZILOV, YU. Improving the organization of labor processes in agriculture. U. S. Joint Publ. Res. Serv. Transl. USSR Labor 213:25-38. Nov.24,1967. (JPRS 43,422) 173 J663Tou  
Translation from Voprosy Ekonomiki 9:66-75. Sept.1967.  
Issued by CFSTI.

CAMMERER, J. S. Heat insulation achieved by organic building materials under actual, practical conditions. 24 p. (FPL No. 22) (FPL Transl. No. 22) Transl. 16812  
Translation from Gesundheits-Ingenieur [Berlin] 59(19):261-268. May 9,1936.

CERMAK, N. The present position and prospects of the Yugoslav canning industry. 1. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 626:6-12. Feb.15, 1968. (JPRS 44,393) 173 J663Ste  
Translation from Hrana i Ishrana 9/10:555-559. Sept./Oct.1967.  
Issued by CFSTI.

CHEVSKII, S. N., and others. The problem of clinical and anatomical manifestation of foot-and-mouth disease in new-born lambs. 10 p. Transl. 16785  
Z. F. Sominskii, P. U. Magnitskii, V. I. Fadin, N. S. Strotanov, V. Ya. Konopatkin, and B. S. Gonchav, joint authors.  
Translation from Ulyanovskii Sel'skokhozyaistvennyi Institut, Trudy 10(3):51-56. 1964.

CHI, I. C. A study of food output in Mainland China. III. Joint Publ. Res. Serv. Transl. Communist China Econ. 38:1-16. Jan.10,1968. (JPRS 43,937) HC426.A1T7  
Translation from Fei Ch'ing Yueh Pao 10(9): 55-63. Nov.1,1967.  
Issued by CFSTI.

CHIMEGJANDANTSAN, J., and DONDOG, C. Supply of agricultural products. U. S. Joint Publ. Res. Serv. Transl. Mongolia 161:15-18. May 16,1968. (JPRS 45,409) 173 J663Tmo  
Translation from Unen, Nov.24,1967:2-3.  
Issued by CFSTI.

CHINA. AGRICULTURE-FORESTRY BUR. TIMBER MANAGEMENT SECT. Native production of fibre board. 5 p. (JPRS 4055) Transl. 14816  
Translation from Mei K'uang Chi Shu 9:33-35. May 1,1960.

CHIRITA, C. Principal directions regarding the improvement of production and work organization in machine and tractor stations. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 628:1-22. Feb.21, 1968. (JPRS 44,467) 173 J663Ste  
Translation from Mecanizarea si Electrificarea Agriculturii 12:3-17. Dec.1967.  
Issued by CFSTI.

\*CHISTYAKOVA, A. M., and LYUBUTOVA, V. E. Cooperation between a department of food hygiene and the food-sanitation authorities. Acad. Sci. USSR. Dokl. Earth Sci. Sect. 32(4/6):81-84. Apr./June 1967. RA421.G53

CHOMA, D. Economics of cooperative farms. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 620:1-2. Jan.22,1968. (JPRS 44,096) 173 J663Ste  
Translation from Rude Pravo, Dec.15,1967:2.  
Issued by CFSTI.

CHON, M. B. Labor youth leagues to manage cooperative farms. Joint Publ. Res. Serv. Transl. N. Korea 71:1-8. Jan.29,1968. (JPRS 44,175) DS901.T7  
Translation from Nodong Ch'ongnyon, Dec.10, 1967:2.  
Issued by CFSTI.

CHU VIET THANG. Farm tools made in Lang Son Province. Joint Publ. Res. Serv. Transl. N. Vietnam 297:15-17. Dec.28,1967. (JPRS 43,844) DS557.A7J6  
Translation from Nhan Dan, Nov.18,1967:2.  
Issued by CFSTI.

CHURAKOV, V. Use of rural labor. U. S. Joint Publ. Res. Serv. Transl. USSR Labor 232: 50-63. Feb.20,1968. (JPRS 44,500) 173 J663Tou  
Translation from Voprosy Ekonomiki 1:40-49. Jan.1968.  
Issued by CFSTI.

CORMIO'S wood collection. 5 p. (FPL No. 51) Transl. 16824  
Translation from Forstliche Wochenschrift Silva, Dec.8,1933:389-391.

COSTEA, I. Present aspects of the growth of economic effectiveness of agricultural investment. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 608:8-25. Nov.28,1967. (JPRS 43,485) 173 J663Ste  
Translation from Probleme Economice 9:45-57. Sept.1967.  
Issued by CFSTI.

D'ANS, J. Research on technical paints, particularly on film swelling. 11 p. (FS Transl. No. 303) Transl. 16807  
Translation from Farbe und Lack 61(2):54-59. 1955.

DAO THE TUAN. Basic agricultural problems of North Vietnam. Joint Publ. Res. Serv. Transl. N. Vietnam 311:24-35. Feb.12,1968. (JPRS 44,318) DS557.A7J6  
Translation from Khoa Hoc Ky Thuat Nong Nghiep 70:377-383. Oct.1967.  
Issued by CFSTI.

- DASHPUNTSAG, D. Inter-artel agricultural production. U. S. Joint Publ. Res. Serv. Transl. Mongolia 154:59-61. Jan.31,1968. (JPRS 44,211) 173 J663Tmo  
Translation from Unen, Oct.1,1967:2.  
Issued by CFSTI.
- DASKALOV, K. Problems in specialization, concentration, and mechanization of vegetable production. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 619:15-36. Jan.17,1968. (JPRS 44,034) 173 J663Ste  
Translation from Selskostopanska Nauka 3:19-36. July/Sept.1967.  
Issued by CFSTI.
- DEDEK, W., and LOHŠ, K. Permeability of protective clothing to insecticidal phosphoric acid derivatives. 3 p. (JPRS 33,092; TT 65-33669) Transl. 16009  
Translation from Chemische Technik 17(10): 624-625. 1965.  
Issued by CFSTI.
- DENISOV, M. Development of rural retail trade in the RSFSR. U. S. Joint Publ. Res. Serv. Transl. USSR Consum. Goods Dom. Trade 227: 1-6. Jan.31,1968. (JPRS 44,200) 173 J663Tro  
Translation from Sovetskaya Torgovlya, Jan.11,1968:3.  
Issued by CFSTI.
- DIMKOVIC, B. J. Owners of agricultural land who are engaged outside of agriculture (views and opinions of private agricultural producers, experts and socio-political figures). U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 629:39-46. Feb.29, 1968. (JPRS 44,530) 173 J663Ste  
Translation from Ekonomika Poljoprivrede 1/2:43-48. Jan./Feb.1968.  
Issued by CFSTI.
- \*DOMAN, N. G., and KYDAR, M. M. Conversions of labeled acetic acid in the course of the uptake by bean leaves from the atmosphere. Biochemistry (Biokhimiya) 32(3 pt.1):365-371. Ref. May/June 1967, pub.1968. 385 B523Ae
- DOMINIK, T., and NESPIAK, A. Investigations on the mycotrophy of plant associations in the dwarf mountain pine zone of the high Tatra. 12 p. (TT 65-50359) Transl. 16787  
Translation from Acta Societatis Botanicorum Poloniae 22(4):753-769. 1953.  
Issued by CFSTI.
- DOMINIK, T. Investigations on the mycotrophy of the spruce—Picea excelsa (Lam.) Lk. in Poland. 24 p. Ref. (TT 65-50356) Transl. 16762  
Translation from Warsaw. Instytut Badawczy Lesnictwa. Prace 209:59-102. 1961.  
Issued by CFSTI.
- DOMINIK, T., NESPIAK, A., and PACHLEWSKI, R. Investigations on the mycotrophy of vegetal associations on calcareous rocks in the Tatra Mts. 11 p. (TT 65-50358) Transl. 16786  
Translation from Acta Societatis Botanicorum Poloniae 23(3):471-485. 1954.  
Issued by CFSTI.
- DRACE, D. How the medium-term (1966-1970) plan for agriculture is being fulfilled. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 650:5-16. May 22,1968. (JPRS 45,449) 173 J663Ste  
Translation from Glasnik Poljoprivrede i Zadrugarstva 4:15-22. n.m., 1968.  
Issued by CFSTI.
- DRZYWONOS, J. Fixed assets in agriculture. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 630:7-20. Mar.4,1968. (JPRS 44,573) 173 J663Ste  
Translation from Nowe Rolnictwo 23:26-29. Dec.1968.  
Issued by CFSTI.
- DUONG-HONG-HIEN. Fifth-month rice seedlings. Joint Publ. Res. Serv. Transl. N. Vietnam 302:45-47. Jan.24,1968. (JPRS 44,138) DS557.A7J6  
Translation from Nhan Dan, Dec.8,1967:2.  
Issued by CFSTI.
- DUONG HONG HIEN. New scheduling in agricultural production. Joint Publ. Res. Serv. Transl. N. Vietnam 292:1-6. Dec.8,1967. (JPRS 43,639) DS557.A7J6  
Translation from Nhan Dan, Oct.10,1967:2.  
Issued by CFSTI.
- DUONG HONG HIEN. Spring rice, a rice species with good prospects. Joint Publ. Res. Serv. Transl. N. Vietnam 316:36-40. Feb.28, 1968. (JPRS 44,523) DS557.A7J6  
Translation from To Quoc, Oct.1967.  
Issued by CFSTI.
- DUONG HONG HIEN. Use proper techniques in cultivating fall rice. Joint Publ. Res. Serv. Transl. N. Vietnam 366:71-76. May 16,1968. (JPRS 45,399) DS557.A7J6  
Translation from Nhan Dan, Apr.14,1968:2.  
Issued by CFSTI.
- DVORTSOVA, T. Proposals for improving land utilization in Latvia discussed. U. S. Joint Publ. Res. Serv. Transl. USSR Agr. 225: 7-14. Nov.21,1967. (JPRS 43,386) 173 J663Tso  
Translation from Ekonomika Sel'skogo Khozyaistva 9:99-103. Sept.1967.  
Issued by CFSTI.
- \*DYATLOVITSKAYA, F. G., GLADENKO, E. F., and KRUCHININA, A. A. Determination of trace chloroorganic insecticides in water bodies. Acad. Sci. USSR. Dokl. Earth Sci. Sect. 32(4/6): 228-231. Apr./June 1967. RA421.G53
- DZAGD, C. A new stage of development of agricultural artels. U. S. Joint Publ. Res. Serv. Transl. Mongolia 161:24-27. May 16,1968. (JPRS 45,409) 173 J663Tmo  
Translation from Unen, Nov.26,1967:2.  
Issued by CFSTI.
- DZHANGALIEV, A. D. Scientific activity of institutions of the Department of Biological Science [Otdelenie Biologicheskikh Nauk]. 15 p. (JPRS 37,436; TT 66-33864) Transl. 16268  
At the Academy of Sciences of Kazakh SSR [Akademiya Nauk Kazakhskoi SSR].  
Translation from Akademiya Nauk Kazakhskoi SSR. Izvestiya. Seriya Biologicheskaya 3:3-12. 1966.  
Issued by CFSTI.
- EGYED, I. The efficacy of scientific agricultural research. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 624:19-26. Feb.8,1968. (JPRS 44,287) 173 J663Ste  
Translation from Magyar Tudomány 74(12): 777-783. Dec.1967.  
Issued by CFSTI.
- ENGELHARDT, H. Supply of agricultural spare parts improves. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 630:1-6. Mar.4,1968. (JPRS 44,573) 173 J663Ste  
Translation from Deutsche Agrartechnik 18 (2):49-50. Feb.1968.  
Issued by CFSTI.
- EZAKI, H. Research and theoretical studies of fundamental elements for the design of small harvester. 124 p. Ref. Transl. 16760  
Translation from Kanto-Tosan Agricultural Experiment Station Journal, No. 12. 1959.
- \*FAINBERG, E. Z., and MIKHAILOV, N. V. Temperature dependence of the specific heat of cellulose fibres. Polymer Sci. U.S.S.R. 9 (4):1030-1038. 1967, pub. Jan.1968. 381 P763
- FEHER, G. Seeds for spring sowing. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 627:1-4. 1968? (JPRS 44,425) 173 J663Ste  
Translation from Szabad Fold 24(2):1-4. Jan. 1968.  
Issued by CFSTI.
- FIRKET, J. Research on the genesis of epidermal fibrils in the chicken. 21 p. Ref. Transl. 16757  
Translation from Anat. Anz. 38:537-549. 1911.



FOMETSKOY, I. The kolkhoz trade union committee—rights and responsibilities. U. S. Joint Publ. Res. Serv. Transl. USSR Labor 230:1-3. Feb.19,1968. (JPRS 44,420) 173 J663Tou  
Translation from Trud, Dec.27,1967:2.  
Issued by CFSTI.

FREY, A. The submicroscopic structure of the cell membrane; an optic polarization study in proof of the correctness of the micellar theory. 47 p. (FPL Transl. No. 38)  
Transl. 16819

Translation from Jahrbucher fur Wissenschaftliche Botanik 56(2):195-223. 1926.

FRISCH, K. VON. A biologist remembers. Oxford, Pergamon Press, 1967. 200 p. (International Series of Monographs in History and Philosophy of Sciences. v.1) QL31.F72

Translation of Erinnerungen eines Biologen.  
GARRY, R. Modernization of rural areas in Cambodia. U. S. Joint Publ. Res. Serv. Transl. S. East Asia 171:1-15. Nov.8,1967.  
(JPRS 43,280; TT 67-33904) 173 J663Trso  
Translation from Le Sangkum 25:94-98. Aug. 1967.

Issued by CFSTI.

GEMEL, A. Grain feed problem in farm cooperatives. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 615:1-9. Dec.18,1967. (JPRS 43,753) 173 J663Ste  
Translation from Nowe Rolnictwo 19:19-21. Oct.1967.

Issued by CFSTI.

GIERTZ, H. W. Latest developments and future possibilities of the sulfate process. 22 p. (FS Transl. No. 387) Transl. 16825  
Translation from Swedish.

GIERTZ, H. W. The opacity of paper pulps. IV. Sulfate pulps. 7 p. (FPL Transl. No. 178)  
Transl. 16813  
Translation from Svensk Papperstidning 55 (3):72-77. Feb.15,1952.

GIOVANNOZZI-SERMANNI, G. Analytical researches on Nicotiana tabacum with paper chromatography. VII. Some phenolic compounds of Maryland tobacco. 11 p. Ref. Transl. 16319  
Translation from Il Tobacco 61:349-357. July/Sept.1967.

GLASEROVA, J. Management of state farms in the current year. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 620:3-6. Jan.22,1968. (JPRS 44,096) 173 J663Ste  
Translation from Rude Pravo, Dec.15,1967:3.  
Issued CFSTI.

GOSPODINOV, R., YANACHKOV, V., and SEMENOV, Y. Intensification of production of cooperative labor farms. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 619:37-47. Jan.17,1968. (JPRS 44,034) 173 J663Ste  
Translation from Selskostopanska Nauka 3:57-66. July/Sept.1967.  
Issued by CFSTI.

GRAF, O. Tests on spaced wood columns. 12 p. (FPL Transl. No. 63) Transl. 16818  
Translation from Bauingenieur 17(1/2). Jan.10,1936.

GRATZL, A. Report on the fourth International Wood Technology Conference of the FAO (April 22 to May 2, 1958). 10 p. (FS Transl. No. 369) Transl. 16808  
Translation from Holzforschung und Holzverwertung 10(3):41-44. 1958.

GRITSKOV, M. Methods of improving the planning of the purchasing of agricultural products. U. S. Joint Publ. Res. Serv. Transl. USSR Agr. 226:1-13. Nov.30,1967. (JPRS 43,507) 173 J663Tso  
Translation from Voprosy Ekonomiki 8:50-59. Aug.1967.

Issued by CFSTI.

GROCHOWSKI, Z. Grain production costs and profitability in peasant farmsteads. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 620:13-24. Jan.22,1968. (JPRS 44,096) 173 J663Ste  
Translation from Nowe Rolnictwo 20:1-5. Oct.1967.

Issued by CFSTI.

GRUEVA, E., and SMIRNOVA-GORANOVA, V. Profitability and production funds in animal husbandry. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 621:14-28. Jan.29,1968. (JPRS 44,169) 173 J663Ste  
Translation from Planovo Stopanstvo i Statistika 9:25-36. 1967.

Issued by CFSTI.

\*GUMILEV, L. N. Heterochronism in the moisture supply of Eurasia in the Middle Ages (Landscape and ethnos, V). Soviet Geogr. Rev. Transl. 9(1):23-35. Ref. Jan.1968. 331.8 So8

\*GUMILEV, L. N. On the subject of the "unified" geography (Landscape and ethnos, VI). Soviet Geogr. Rev. Transl. 9(1):36-47. Ref. Jan. 1968. 331.8 So8

GUSTI, G. Planning rural areas. U. S. Joint Publ. Res. Serv. Transl. Econ. Organ. Manage. East Europe. 791:63-76. Jan.31,1968. (JPRS 44,219) 173 J663Tre

Translation from Lupta de Clasa 47(10):67-74. Oct.1967.

Issued by CFSTI.

HA KE TAN. Water conservancy to serve winter-spring season. Joint Publ. Res. Serv. Transl. N. Vietnam 298:4-7. Dec.29,1967. (JPRS 43,845) DS557.A7J6

Translation from Nhan Dan, Oct.9,1967:2.

Issued by CFSTI.

HAAS, H. The absorption and fixation of mercuric chloride in the impregnation of wood. 11 p. (FPL No. 60) Transl. 16823

Translation from Osterreichische Chemiker-Zeitung 40(6):124-126. 1937.

HAGGLUND, E. Hemicellulose in spruce and its characteristics in sulphite cellulose cooking. 13 p. (FPL Transl. No. 55) Transl. 16822  
Translation from Svensk Papperstidning 31 (16):572-576. Aug.31,1928.

HAMMERMULLER, R., LEBELT, B., and ERD, W. Cooperation association outlines development plans. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 647:1-22, map. May 13,1968. (JPRS 45,347) 173 J663Ste

Translation from Kooperation 2:2-8,47. Feb. 1968.

Issued by CFSTI.

HASEGAWA, H. On some experiments in raising a nicotine-free tobacco plant. 14 p. Transl. 16225  
Translation from Botanical Magazine 51(605): 306-317. 1937.

HAUGBERG, A. The influence of tree stocking upon quantity and quality production in uneven aged spruce stands. 6 p. (FPL No. 35) Transl. 16821

Translation from Tidsskrift for Skogbruk 37:221-239,286-304,335-350. 1929.

HEJNOWICZ, Z. First periclinal chimera among gymnosperms. 14 p. Ref. (TT 65-50350) Transl. 16320

Translation from Acta Societatis Botanicorum Poloniae 25(1):181-202. 1956.

Issued by CFSTI.

HELLRIGL, B. The use of magnetic tape recorders in forest measurements. 6 p. Transl. 16224

Translation from Italia Forestale e Montana 19(4):135-139. 1964.

HERZOG, A. Cyanine in fiber analysis. 15 p. (FPL Transl. No. 23) Transl. 16817

Translation from Melland Textilberichte 13 (3):121-123; (4):181-182. Mar.-Apr.1932.

HERZOG, A. The fibrillar structure of bast fibers. 9 p. (FPL Transl. No. 11) Transl. 16816

Translation from Papier Fabrikant 29 (51/52):833-837. Dec.22,1931.

- HO, C. N. Responsibilities of cooperative farmers. Joint Publ. Res. Serv. Transl. N. Korea 75:45-50. Mar.1,1968. (JPRS 44,558) DS901.T7  
Translation from Nodong Sinmun, Jan.12, 1968:2.  
Issued by CFSTI.
- HO-VAN. Hog raising in Quang Oai. Joint Publ. Res. Serv. Transl. N. Vietnam 369:55-59. May 17,1968. (JPRS 45,419) DS557.A7J6  
Translation from Nhan Dan, Apr.7,1968:2.  
Issued by CFSTI.
- HOANG-NO. Son La to develop agricultural production, animal husbandry, and local industry. Joint Publ. Res. Serv. Transl. N. Vietnam 309:30-32. Feb.8,1968. (JPRS 44,289) DS557.A7J6  
Translation from Nhan Dan, Jan.4,1968:2.  
Issued by CFSTI.
- HONG DANH. Economic-agricultural zoning at province level. Joint Publ. Res. Serv. Transl. N. Vietnam 289:1-19. Nov.27,1967. (JPRS 43,458) DS557.A7J6  
Translation from Tin Thuc Hoat Dong Khoa Hoc 9:9-17. Sept.1967.  
Issued by CFSTI.
- HUNG SON. Rational irrigation for the fifth-month rice crop. Joint Publ. Res. Serv. Transl. N. Vietnam 288:5-7. Nov.24,1967. (JPRS 43,442) DS557.A7J6  
Translation from Nhan Dan, Oct.23,1967:2.  
Issued by CFSTI.
- HUU-DUC. Good tenth-month rice crop in Thanh Hoa. Joint Publ. Res. Serv. Transl. N. Vietnam 300:8-11. Jan.22,1968. (JPRS 44,098) DS557.A7J6  
Translation from Nhan Dan, Dec.11,1967:3.  
Issued by CFSTI.
- HUU DUC. Serving agricultural production in Thanh Hoa Province. Joint Publ. Res. Serv. Transl. N. Vietnam 280:55-57. Nov.13,1967. (JPRS 43,303; TT 67-33927) DS557.A7J6  
Translation from Nhan Dan, Oct.1,1967:2.  
Issued by CFSTI.
- HUYNH THI BONG. Growing pineapple ups income. Joint Publ. Res. Serv. Transl. N. Vietnam 360:42-44. May 7,1968. (JPRS 45,288) DS557.A7J6  
Translation from Nhan Dan, Mar.27,1968:2.  
Issued by CFSTI.
- HUYNH-VAN-KHANG. Pellet bomb effects on livestock and treatment method. Joint Publ. Res. Serv. Transl. N. Vietnam 363:50-52. May 10,1968. (JPRS 45,318) DS557.A7J6  
Translation from Khoa Hoc Ky Thuat Nong Nghiep, Dec.1967:474.  
Issued by CFSTI.
- HYAKUTAKE, H., and others. On the use of low toxic herbicides in paddy field. 14 p. Transl. 16690  
T. Inoue, S. Chikura, and S. Kojo, joint authors.  
Translation from Fukuoka Agricultural Experimental Station. Report 2. n.d.
- IBRANYI, K. A quick method for the determination of the proportional bran content in cereals. 13 p. Ref. Transl. 14723  
Translation from Malomipar es Termenyfor-galom, p. 256-262. n.d.
- \*IMSHENETSKII, A. A. Fifty years of general microbiology in the USSR. Microbiology 36(5): 651-663. Sept./Oct.1967. 448.3 M582Ae
- IVANOV, L. A., and YURINA, E. V. The transpiration intensity of trees as affected by various wavelengths of the spectrum. 11 p. Ref. (TT 66-51083) Transl. 16271  
Translation from Akademiya Nauk SSSR. Laboratoriya Lesovedeniya. Soobshcheniya 5: 53-61. 1961.  
Issued by CFSTI.
- JABLONSKI, M. Viability and real value of silicles of Spanish colewort (*Crambe abyssinica* Hochst.). 81 p. Ref. (TT 65-50336) Transl. 16321  
Translation from Instytut Uprawy, Nawozenia i Gleboznawstwa. Pamietnik Pulawski. Prace 10:145-240. 1962.  
Issued by CFSTI.
- JADAMBAA, S. Utilizing agricultural manpower. U. S. Joint Publ. Res. Serv. Transl. Mongolia 153:1-3. Jan.8,1968. (JPRS 43,901) 173 J663Tmo  
Translation from Unen, Sept.2,1967:2.  
Issued by CFSTI.
- JAGIELSKI, M. Current tasks of people's councils in the field of agriculture. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 645:9-27. May 10,1968. (JPRS 45,311) 173 J663Ste  
Translation from Nowe Rolnictwo 4:16-29. Feb.1968.  
Issued by CFSTI.
- JASRAI, P. Draft model by-laws for agricultural arts and collective property. U. S. Joint Publ. Res. Serv. Transl. Mongolia 153:15-17. Jan.8,1968. (JPRS 43,901) 173 J663Tmo  
Translation from Unen, June 5,1967:2.  
Issued by CFSTI.
- JASRAI, P. Norms of stock capital depreciation constitute a vital economic lever. U. S. Joint Publ. Res. Serv. Transl. Mongolia 153: 36-39. Jan.8,1968. (JPRS 43,901) 173 J663Tmo  
Translation from Unen, June 24,1967:2-3.  
Issued by CFSTI.
- JAWORSKI, P. Foreign cooperation program of the Ministry of Food and Procurement [Ministerstwo Przemyslu Spozywczego i Skupu]. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 622:16-19. Jan.31,1968. (JPRS 44,201) 173 J663Ste  
Translation from Przemysl Spozywczy 10:28-29. Oct.1967.  
Issued by CFSTI.
- JIANU, E. The influence of increased mechanization on the profitability of state farms. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 628:23-33. Feb.21,1968. (JPRS 44,467) 173 J663Ste  
Translation from Mecanizarea si Electrificarea Agriculturii 12:18-24. Dec.1967.  
Issued by CFSTI.
- JOITA, E. Factors in making irrigation pay off outlined. U. S. Joint Publ. Res. Serv. Transl. East European Agr. Forest. Food Indus. 609:42-60. Nov.29,1967. (JPRS 43,494) 173 J663Tou  
Translation from Revista de Statistica 8:32-45. Aug.1967.  
Issued by CFSTI.
- KABACHKOV, P. Wages and productivity. U. S. Joint Publ. Res. Serv. Transl. USSR Labor 233:1-9. Feb.29,1968. (JPRS 44,538) 173 J663Tou  
Translation from Planovoe Khozyaistvo 1: 80-84. Jan.1968.  
Issued by CFSTI.
- \*KALACHEVA, V. YA., and others. Removal of chloroplast fragments from preparations of pea seedling mitochondria by density gradient centrifugation. Biochemistry (Biokhimiya) 32(3, pt.1):429-434. May/June 1967, pub.1968. 385 B523Ae  
B. E. Kirshteine, V. L. Biryuzova, L. I. Kostycheva, and N. M. Sisakyan, joint authors.
- KARCZEWSKI, Z. State farm problems in 1966-1970. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 607:17-29. Nov.24,1967? (JPRS 43,427) 173 J663Ste  
Translation from Gospodarka Planowa 8/9:17-22. Aug./Sept.1967.  
Issued by CFSTI.



- KATIC, D. Socialized farms in 1966. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 620:39. Jan.22,1968. (JPRS 44,096) 173 J663Ste  
Translation from Ekonomika Poljoprivrede 12:1046-1048. Dec.1967.  
Issued by CFSTI.
- KEDZIORKOWA, F. Construction materials on the rural market. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 619:63-73. Jan.17,1968. (JPRS 44,034) 173 J663Ste  
Translation from Wies Wspolczesna 12:53-61. Dec.1967.  
Issued by CFSTI.
- KHANUKAYEV, S. Determination of work-time expenditures and number of kolkhoz workers. U. S. Joint Publ. Res. Serv. Transl. USSR Labor 236:30-35. Mar.14,1968. (JPRS 44,679) 173 J663Tou  
Translation from Voprosy Ekonomiki 1:138-141. Jan.1968.  
Issued by CFSTI.
- KIHATA, H., and INOUE, H. Studies on the ecology of rice green caterpillar. 1-3. 16 p. Transl. 16696  
Translation from Society of Plant Protection of North Japan. Annual Report 15:87-93. 1964.
- KIM, H. H. Equitable labor assessment stressed. Joint Publ. Res. Serv. Transl. N. Korea 68:27-35. Jan.10,1968. (JPRS 43,963) DS901.T7  
Translation from Nongop Kulloja, Oct.25, 1967:4.  
Issued by CFSTI.
- KIM, K. Y. Speedy rural technical revolution urged. Joint Publ. Res. Serv. Transl. N. Korea 80:1-10. Apr.17,1968. (JPRS 45,083) DS901.T7  
Translation from Nodong Sinmun, Feb.21, 1968:2-3.  
Issued by CFSTI.
- KIM, T. H. Superiority of the new agricultural leadership system. Joint Publ. Res. Serv. Transl. N. Korea 75:35-44. Mar.1,1968. (JPRS 44,558) DS901.T7  
Translation from Minuu Choson, Dec.22, 1967:2-3.  
Issued by CFSTI.
- KISHIMOTO, R. Ecology and control of small brown planthopper (*Laodelphax striatellus* Fallen). 12 p. Ref. Transl. 16695  
Translation from Plant Protection 20(3):126-130. Mar.1966.
- KLIMOV, A. Role of consumer cooperatives traced in retail trade. U. S. Joint Publ. Res. Serv. Transl. USSR Consum. Goods Dom. Trade 220:16-32. Jan.3,1968. (JPRS 43,863) 173 J663Tro  
Translation from Sovetskaya Potrebitel'skaya Kooperatsiya 11:10-18. Nov.1967.  
Issued by CFSTI.
- KMEZIC, N. Self-management in agricultural cooperatives. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 628:37-46. Feb.21,1968. (JPRS 44,467) 173 J663Ste  
Translation from Glasnik Poljoprivrede i Zadrugarstva 17(1):3-10. Jan.1968.  
Issued by CFSTI.
- KNUCHEL, H. Investigation of the specific gravity and shrinkage of Swiss wood. 23 p. (FPL No. 26) Transl. 16814  
Translation from Schweizerische Anstalt fur das Forstliche Versuchswesen. Mitteilungen 23(2). 1944.
- KOENK, H. Industrial organization and management of sugar production. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 624:1-5. Feb.8,1968. (JPRS 44,287) 173 J663Ste  
Translation from Feldwirtschaft 8(9):437-439. Sept.1967.  
Issued by CFSTI.
- KOHARA, J. Durability of wood. I. Mechanical properties of old timbers (*Horyuji temple construction timbers*, *Chamaecyparis obtusa* Endlicher). 3 p. (FS Transl. No. 120) Transl. 16811  
Translation from Kyoto University. Faculty of Agriculture. Scientific Reports 2:116-131. Mar.1952.
- KOLBUSZ, F. Agricultural development trends in socialist countries. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 614:1-18. Dec.12,1967. (JPRS 43,688) 173 J663Ste  
Translation from Wies Wspolczesna 11:41-53. Nov.1967.  
Issued by CFSTI.
- KOLEV, K. The main trend in the development of animal husbandry. U. S. Joint Publ. Res. Serv. Transl. East European Agr. Forest. Food Indus. 609:1-13. Nov.29,1967. (JPRS 43,494) 173 J663St  
Translation from Partien Zhivot 14:6-13. Oct.1967.  
Issued by CFSTI.
- KONDRAT'YEV, K. New pay rates for state farm workers given in detail. U. S. Joint Publ. Res. Serv. Transl. USSR Labor 225:10-12. Jan.26,1968. (JPRS 44,160) 173 J663Tou  
Translation from Ekonomicheskaya Gazeta 51:30. Dec.1967.  
Issued by CFSTI.
- KONISHEV, P., and TOPALOV, V. Tendencies in the development of cotton production in Bulgaria. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 619:1-14. Jan.17,1968. (JPRS 44,034) 173 J663Ste  
Translation from Selskostopanska Nauka 3:9-18. July/Sept.1967.  
Issued by CFSTI.
- KOROLOVA, V. A. In regard to the role of selection in kok-saghyz. 10 p. Transl. 16793  
Translation from Vsesoyuznaya Akademiya Sel'skokhozyaistvennykh Nauk. Doklady 13:3-6. 1940.
- KOSTADINOV, Y. Intercooperative specialization in animal husbandry. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 629:1-5. Feb.29,1968. (JPRS 44,530) 173 J663Ste  
Translation from Ikonomicheskii Zhivot 1:8-9. Jan.1968.  
Issued by CFSTI.
- KOSUGE, K., and HOSAKA, Y. Effect of treating rice seedlings with "drin" insecticides for control of *Delphacodes striatella* and rice stripe disease. 3 p. Transl. 16698  
Translation from Kanto-Tosan Plant Protection Society. Proceedings 8:16. 1961.
- KOVACS, S. Some aspects of financing agricultural investments under the new economic mechanism. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 618:14-23. Jan.4,1968. (JPRS 43,870) 173 J663Ste  
Translation from Penzugyi Szemle 9:705-713. Sept.1967.  
Issued by CFSTI.
- \*KOVALENKO, D. V. A study of the organization of canteens at Kolkhoz field camps. Acad. Sci. USSR. Dokl. Earth Sci. Sect. 32(4/6):405-409. Apr./June 1967. RA421.G53
- KRACK, E. Increased responsibility of final producer in agriculture. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 607:10-16. Nov.24,1967? (JPRS 43,427) 173 J663Ste  
Translation from Kooperation 2:3-6. Sept. 1967.  
Issued by CFSTI.
- \*KRASIL'NIKOV, N. A., BAB'EVA, I. P., and MEAVAD, K. A new genus of soil yeast—*Zygo-lipomyces* nov. gen. Microbiology 36(5):777-783. Ref. Sept./Oct.1967. 448.3 M582Ae

- KRASOTA, V. Training courses to improve agricultural management. U. S. Joint Publ. Res. Serv. Transl. USSR Agr. 229,5 p. Dec.29, 1967. (JPRS 43,850) 173 J663Tso  
Translation from Ekonomicheskaya Gazeta 46:35. Nov.1967.  
Issued by CFSTI.
- KRENKE, A. N. Changes in respiration rate and in the content of phosphorus compounds during maturation of seeds. 19 p. Ref. (TT 67-51271) Transl. 16794  
Translation from Moscow. Glavnyi Botanicheskii Sad, Trudy 8:97-112. 1961.  
Issued by CFSTI.
- KROL, H. Water-air conditions in soils of the middle climatic zone of Poland. 25 p. Ref. (TT 66-57013) Transl. 16754  
Translation from Roczniki Gleboznawcze 13 (1):111-141. 1963.  
Issued by CFSTI.
- KROPACOVA, S. Nectar production of alfalfa and the number of bees working on it. 13 p. Transl. 15505  
Translation from Brno. Vysoka Skola Zemelska a Lesnicka. Sbornik 1:37-44. 1963.
- KRUSTANOV, K. Industrial methods in cattle raising. U. S. Joint Publ. Res. Serv. Transl. East European Agr. Forest. Food Indus. 609:14-20. Nov.29,1967. (JPRS 43,494) 173 J663Tou  
Translation from Partien Zhivot 14:13-17. Oct.1967.  
Issued by CFSTI.
- KUAN, S. Y. A study of the Chinese communist collection of grain as agricultural tax. Joint Publ. Res. Serv. Transl. Communist China Econ. 38:1-16. Jan.10,1968. (JPRS 43,937) HC426.A1T7  
Translation from Fei Ch'ing Yueh Pao 10(9):55-63. Nov.1,1967.  
Issued by CFSTI.
- KULESZA, J., BARANOWSKA, L., and SZANIAWSKA, D. Attempts to intensify resin exudation by means of fertilizers and resin diluting chemicals. 16 p. (TT 65-50348) Transl. 16333  
Translation from Sylwan, C6(3):55-61. 1962.  
Issued by CFSTI.
- KULIKOV, N. S. "Varroa [jacobsoni] disease" of honey bees. 3 p. Transl. 15846  
Translation from Pchelovodstvo 11:15-16. Nov.1965.
- KUNTZE, W., NITSCHKE, R., and MERTENS, H. V. Investigation of the impact strength of artificial resins. 2. 23 p. (FPL Transl. No. 65) Transl. 16337  
Translation from Kunststoffe 30(7):193-199. 1940.
- KUO, C. C., and others. Occurrence and control of Fusarium oxysporum f. vasinfectum (Atk.) Snyder et Hansen in cotton in Kiangsu Province. 40 p. (JPRS 29,165; TT 65-30530) Transl. 14861  
S. L. Chu, E. C. Shen, and C. L. Chang, joint authors.  
Translation from Chung Kuo Nung Yeh K'o Hsueh 4:22-29. 1964.  
Issued by CFSTI.
- \*KURKOV, A. A. Is there a problem of desiccation of Asia? Soviet Geogr. Rev. Transl. 9(1):47-54. Ref. Jan.1968. 331.8 So8
- LAPTEV, N. Inability to cope with wheat blight in the virgin land regions. U. S. Joint Publ. Res. Serv. Transl. USSR Agr. 226:44-47. Nov.30,1967. (JPRS 43,507) 173 J663Tso  
Translation from Pravda, Sept.28,1967:2.  
Issued by CFSTI.
- LAVRENT'EV, P. A., SAL'NIKOV, V. G., and ANISIN, S. D. Use of bacteria in the extermination of mosquitoes. 4 p. (JPRS 32,991; TT 65-33568) Transl. 15696  
Translation from Veterinariya 8:107-108. Aug.1965.  
Issued by CFSTI.
- LE-AN-NINH. Effects of climate on 1967 summer rice in Thai Binh. Joint Publ. Res. Serv. Transl. N. Vietnam 363:37-40. May 10,1968. (JPRS 45,318) DS557.A7J6  
Translation from Khoa Hoc Ky Thuat Nong Nghiep, Dec.1967:467-469.  
Issued by CFSTI.
- LE-BA. On the basis of a successful ideological task, Thanh Oai (Ha Tay) determined to become a "five metric ton" district. Joint Publ. Res. Serv. Transl. N. Vietnam 263:71-83. Oct.16,1967. (JPRS 42,972; TT 67-33598) DS557.A7J6  
Translation from Tuyen Huan 8:32-37. Aug. 1967.  
Issued by CFSTI.
- LE DONG. Producing peanuts and soybeans. Joint Publ. Res. Serv. Transl. N. Vietnam 316:55-58. Feb.28,1968. (JPRS 44,523) DS557.A7J6  
Translation from Nhan Dan, Jan.22,1968:2.  
Issued by CFSTI.
- LE GIANG. Cultivation of soybeans in Ngan Son. Joint Publ. Res. Serv. Transl. N. Vietnam 372:83-85. May 22,1968. (JPRS 45,464) DS557.A7J6  
Translation from Nhan Dan, Apr.20,1968:2.  
Issued by CFSTI.
- LE-QUANG-TIEN. On the calculation of the index "two hogs over a cultivated hectare of land." Joint Publ. Res. Serv. Transl. N. Vietnam 299:28-30. Jan.5,1968. (JPRS 43,885) DS557.A7J6  
Translation from Thong Ke 1:15-18. 1967.  
Issued by CFSTI.
- LE-QUY-QUYNH. Industry and agriculture develop simultaneously in Hung Yen. Joint Publ. Res. Serv. Transl. N. Vietnam 309:27-29. Feb.8,1968. (JPRS 44,289) DS557.A7J6  
Translation from Nhan Dan, Jan.4,1968:2.  
Issued by CFSTI.
- LE VAN CHUNG. Intensive forestry. Joint Publ. Res. Serv. Transl. N. Vietnam 318:30-32. Mar.1,1968. (JPRS 44,557) DS557.A7J6  
Translation from To Quoc 12:38-40. 1967.  
Issued by CFSTI.
- LE-XUAN-DIEU. On the calculation of five tons of paddy rice per hectare. Joint Publ. Res. Serv. Transl. N. Vietnam 299:24-27. Jan.5,1968. (JPRS 43,885) DS557.A7J6  
Translation from Thong Ke 1:13-14. 1967.  
Issued by CFSTI.
- LIN, P. A general view of the 1967 agricultural production on the Mainland. Joint Publ. Res. Serv. Transl. Communist China Econ. 39:1-15. Jan.29,1968. (JPRS 44,165) DS557.A1T7  
Translation from Fei Ch'ing Yueh Pao 10(10):39-45. Dec.1967.  
Issued by CFSTI.
- \*LISENKOVA, L. L., and KHMEL', I. A. Effect of cultural conditions on cytochrome content of Azotobacter vinelandii cells. Microbiology 36(5):762-767. Ref. Sept./Oct.1967. 448.3 M582Ae
- LOBODA, I. Trained cadres needed for village reconstruction. U. S. Joint Publ. Res. Serv. Transl. USSR Agr. 224:5-11. Nov.16,1967. (JPRS 43,343; TT 67-33967) 173 J663Tso  
Translation from Ekonomika Sovetskoi Ukrainy 8:78-81. Aug.1967.  
Issued by CFSTI.
- LOVAS, M. Achievements and problems in viticulture. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 624:14-18. Feb.8,1968. (JPRS 44,287) 173 J663Ste  
Translation from Figyelo, Dec.13,1967:8.  
Issued by CFSTI.
- LOVAS, M. The realities of agricultural development—Hungary. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 608:1-7. Nov.28,1967. (JPRS 43,485) 173 J663Ste  
Translation from Figyelo 44:8. Nov.1967.  
Issued by CFSTI.



- LOVAS, M. Some pros and cons of the present system of agricultural machine commerce. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 651:1-4. May 24, 1968. (JPRS 45,486) 173 J663Ste  
Translation from Figyelo, May 1, 1968:8.  
Issued by CFSTI.
- MAEVSKII, A. G., and IVKOV, G. B. Control of helminthiases in rural areas. Acad. Sci. USSR, Dokl. Earth Sci. Sect. 32(4/6):266-269. Apr./June 1967. RA421.G53
- MAI-THAO. Stay close to the fields and united with the people. Joint Publ. Res. Serv. Transl. N. Vietnam 302:51-53. Jan. 24, 1968. (JPRS 44,138) DS557.A7J6  
Translation from Nhan Dan, Nov. 30, 1967:2.  
Issued by CFSTI.
- MALENKOVIC, B. Loss curve and average life of wooden telegraph poles. 16 p. (FPL Transl. No. 76) Transl. 16829  
Translation from Elektrotechnische Zeitschrift. 1922.
- MALKOWSKI, J. Problems of animal breeding expansion. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 625:1-14. Feb. 13, 1968. (JPRS 44,358) 173 J663Ste  
Translation from Wies Wspolczesna 1:40-50. Jan. 1968.  
Issued by CFSTI.
- MARCON, Y. The Hereng method for recovery of hydrochloric acid in the Bergius process of wood hydrolysis. 10 p. (FPL No. 124) Transl. 16831  
Translation from Nogent-sur-Mame. Centre Technique Forestier Tropical. Report. Jan. 9, 1953.
- MARTON, L. New phenomena in the cattle market. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 650:1-3. May 22, 1968. (JPRS 45,449) 173 J663Ste  
Translation from Figyelo, Apr. 12, 1968:8.  
Issued by CFSTI.
- MATOUSKOVA, J. Survey on consumption by agricultural families. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 619:48-51. Jan. 17, 1968. (JPRS 44,034) 173 J663Ste  
Translation from Rude Pravo, Nov. 24, 1965:5.  
Issued by CFSTI.
- \*MEISEL, M. N., and others. Functional morphology of yeast mitochondria. Microbiology 36(5):731-744. Ref. Sept./Oct. 1967. 448.3 M582Ae  
V. I. Biryuzova, G. A. Medvedeva, and T. M. Volkova, joint authors.
- MER, M. E. About the causes of variation of the density of wood. 18 p. (FPL Transl. No. 32) Transl. 16836  
Translation from Societe Botanique de France. Bulletin 39:95-105. 1892.
- METZGER, K. The principles of construction of secondary wood. 23 p. (FPL Transl. No. 46) Transl. 16835  
Translation from Naturwissenschaftliche Zeitschrift fur Forst- und Landwirtschaft 6(5): 249-274. May 1908.
- MICHNA, W. Common tasks of rural housewives' circles and agricultural circles. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 614:19-29. Dec. 12, 1967. (JPRS 43,688) 173 J663Ste  
Translation from Wies Wspolczesna 11:65-72. Nov. 1967.  
Issued by CFSTI.
- MILANOVIC, P. The developmental possibilities of agriculture in 1968. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 646:26-34. May 10, 1968. (JPRS 45,315) 173 J663Ste  
Translation from Glasnik Poljoprivrede i Zagrdugarstva 2:14-19. Feb. 1968.  
Issued by CFSTI.
- MILANOVIC, P. Investments in and development of production of socialized farms. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 627:7-15. 1968? (JPRS 44,425) 173 J663Ste  
Translation from Privredni Pregled, Jan. 21, 1968:7.  
Issued by CFSTI.
- MILANOVIC, P. Some tendencies in the development of agriculture. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 623:6-13. Feb. 6, 1968. (JPRS 44,258) 173 J663Ste  
Translation from Glasnik za Poljoprivredu i Zagrdugarstvo 16(12):15-19. Dec. 1967.  
Issued by CFSTI.
- MINBAEV, K. Intra-clonal variability of the morphological character and the rubber content of kok-saghyz in relation to the conditions of its environment. 13 p. Transl. 16795  
Translation from Soviet Plant Industry Record 2:32-39. 1940.
- \*MISHUSTIN, E. N. Soil microbiology in the USSR (1917-1967). Microbiology 36(5):664-685. Sept./Oct. 1967. 448.3 M582Ae
- MITSUHASHI, J. Present state of insect tissue culture. 32 p. Ref. Transl. 16704.  
Translation from Plant Protection 18(9/10): 359-366, 419-422. Sept./Oct. 1964.
- MOLDOVAN, C. Achievements and perspectives in zootechnology. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 628:34-36. Feb. 21, 1968. (JPRS 44,467) 173 J663Ste  
Translation from Romania Libera, Dec. 15, 1967:3.  
Issued by CFSTI.
- MONOV, V. The new system of management in cooperative labor farms. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 618:1-7. Jan. 4, 1968. (JPRS 43,870) 173 J663Ste  
Translation from Kooperativno Zemedelie 11: 13-17. Nov. 1967.  
Issued by CFSTI.
- MORATH, E. Resistance of the most important native (German) woods to chemical attack. 27 p. Ref. (FPL Transl. No. 52) Transl. 16815  
Translation from Verein Deutscher Ingenieure und Deutschen Forstvereine. Fachausschuss fur Holzfragen. Mitteilungen. Part C. No. 5. 1933.
- MOSIN, V. I. Treatment of seeds of the common pine tree with fungicides. 9 p. Ref. Transl. 16706  
Translation from Lesnoi Zhurnal 5:45-48. 1964.
- MOVEMENT of the Yugoslav economy in the first two years of the reform: statistical data. U. S. Joint Publ. Res. Serv. Transl. Econ. Organ. Manage. East. Europe 781,91 p. Jan. 15, 1968. (JPRS 44,015) 173 J663Tre  
Translation from Studies, Analyses and Surveys Series, Union Statistics Institute, Belgrade 34:2-65. 1967.  
Issued by CFSTI.
- MURESAN, T. Scientific cultivation of agricultural plants. 12 p. (JPRS 37,408; TT 66-33836) Transl. 16247  
Translation from Probleme Agricole 5:4-13. May 1966.  
Issued by CFSTI.
- NAGY, L. Land ownership and the producer cooperatives. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 624:27-39. Feb. 8, 1968. (JPRS 44,287) 173 J663Ste  
Translation from Magyar Tudomány 74(12): 749-759. Dec. 1967.  
Issued by CFSTI.

- NAM VAN. Building a material and technical base for agricultural cooperatives. Joint Publ. Res. Serv. Transl. N. Vietnam 280:46-54. Nov.13,1967. DS557.A7J6  
Translation from Thoi-su Pho-thong 14:1-9. July 1967.  
Issued by CFSTI.
- NGHIEM-PHU-MON. Duckweed in Nam Ha Province. Joint Publ. Res. Serv. Transl. N. Vietnam 302:54-57. Jan.24,1968. (JPRS 44,138) DS557.A7J6  
Translation from Nhan Dan, Dec.8,1967:2.  
Issued by CFSTI.
- NGO-DUY-DONG. Thai Binh to provide food and build up local industry. Joint Publ. Res. Serv. Transl. N. Vietnam 309:24-26. Feb.8, 1968. (JPRS 44,289) DS557.A7J6  
Translation from Nhan Dan, Jan.4,1968:2.  
Issued by CFSTI.
- NGO DUY DONG. Winter-spring crops in Thai Binh. Joint Publ. Res. Serv. Transl. N. Vietnam 291:36-39. (JPRS 43,577) DS557.A7J6  
Translation from Nhan Dan, Oct.18,1967:2.  
Issued by CFSTI.
- NGOC, N. Growing more cashew trees. Joint Publ. Res. Serv. Transl. N. Vietnam 319:84-89. Mar.4,1968. (JPRS 44,583) DS557.A7J6  
Translation from Nhan Dan, Nov.29,1967:2.  
Issued by CFSTI.
- NGOC THE. Oranges in the Cao Phong mountain region. Joint Publ. Res. Serv. Transl. N. Vietnam 314:134-136. Feb.26,1968. (JPRS 44,491) DS557.A7J6  
Translation from Nhan Dan, Jan.19,1968:2.  
Issued by CFSTI.
- NGUYEN CHINH. Mai Chau solves problem of farm implements. Joint Publ. Res. Serv. Transl. N. Vietnam 366:65-70. May 16,1968. (JPRS 45,399) DS557.A7J6  
Translation from Nhan Dan, Apr.10,1968:2.  
Issued by CFSTI.
- NGUYEN CHUON. Development of livestock raising in balance with crops. Joint Publ. Res. Serv. Transl. N. Vietnam 314:137-142. Feb.26, 1968. (JPRS 44,491) DS557.A7J6  
Translation from Thoi Su Pho Thong 21:6-11. Nov.1967.  
Issued by CFSTI.
- NGUYEN DINH THANH. Spring stockbreeding. Joint Publ. Res. Serv. Transl. N. Vietnam 357:39-41. May 3,1968. DS557.A7J6  
Translation from Nhan Dan, Apr.1,1968:2.  
Issued by CFSTI.
- NGUYEN TAN THU. Drought problems. Joint Publ. Res. Serv. Transl. N. Vietnam 288:8-11. Nov.24,1967. (JPRS 43,442) DS557.A7J6  
Translation from Nhan Dan, Oct.23,1967:2.  
Issued by CFSTI.
- NGUYEN THANH. Developing the role of technical cadres in agriculture. Joint Publ. Res. Serv. Transl. N. Vietnam 286:7-11. Nov.22, 1967. (JPRS 43,417) DS557.A7J6  
Translation from Tin Tuc Hoat Dong Khoa Hoc 8:4-6. Aug.1967.  
Issued by CFSTI.
- NGUYEN THANH QUAT. Improved of eroded soil at Ha Bac. Joint Publ. Res. Serv. Transl. N. Vietnam 296:9-19. Dec.26,1967. (JPRS 43,828) DS557.A7J6  
Translation from Khoa Hoc Ky Thuat Nong Nghiep 67:247-252. July 1967.  
Issued by CFSTI.
- NGUYEN-THE-SUONG. Labor planning is a key point in agricultural cooperatives. Joint Publ. Res. Serv. Transl. N. Vietnam 363:16-23. May 10,1968. (JPRS 45,318) DS557.A7J6  
Translation from Khoa Hoc Ky Thuat Nong Nghiep, Dec.1967:453-456.  
Issued by CFSTI.
- NGUYEN TRUONG KHOAT. Protection of crops. Joint Publ. Res. Serv. Transl. N. Vietnam 360:35-38. May 7,1968. (JPRS 45,288) DS557.A7J6  
Translation from Nhan Dan, Mar.24,1968:2.  
Issued by CFSTI.
- NGUYEN VAN LOC. Firmly grasp science and technology to satisfactorily guide agricultural production. U. S. Joint Publ. Res. Serv. Transl. Hoc Tap (Stud). N. Vietnam 12:6-15. Feb.15,1968. (JPRS 44,391) 173 J663Th  
Translation from Hoc Tap 12:32-40. Dec. 1967.  
Issued by CFSTI.
- NGUYEN-VAN-LUAT. Intensive cultivation of spring rice seedlings. Joint Publ. Res. Serv. Transl. N. Vietnam 363:26-36. May 10,1968. (JPRS 45,318) DS557.A7J6  
Translation from Khoa Hoc Ky Thuat Nong Nghiep, Dec.12,1967:463-467.  
Issued by CFSTI.
- NGUYEN VAN PHUONG. Increasing labor productivity in the forestry branch. Joint Publ. Res. Serv. Transl. N. Vietnam 290:43-46. Nov.22,1967. (JPRS 43,504) DS557.A7J6  
Translation from Nhan Dan, Oct.22,1967:2.  
Issued by CFSTI.
- \*NKITIN, D. I., and KUZNETSOV, S. I. Electron-microscope study of the microflora of water. Microbiology 36(5):789-794. Ref. Sept./Oct.1967. 448.3 M582Ae
- NORKIN, P. Timber and fishing industries at odds over use of rivers. U. S. Joint Publ. Res. Serv. Transl. USSR Consum. Goods Dom. Trade 226:11-13. Jan.26,1968. (JPRS 44,155) 173 J663Tro  
Translation from Ekonomicheskaya Gazeta 51:37. Dec.1967.  
Issued by CFSTI.
- NOWOTNY, R. The durability of wood treated with fluorides. 11 p. (FPL Transl. No. 66) Transl. 16802  
Translation from Österreichische Chemiker-Zeitung, No. 18. 1917.
- NOWOTNY, R. Fifteen years of experience with economy processes of creosote impregnation for wooden poles. 13 p. (FPL Transl. No. 17) Transl. 16803  
Translation from Elektrotechnik und Maschinenbau, No. 31. 1922.
- NOWOTNY, R. Improvement of wood treating by perforation preparation processes. 18 p. (FPL Transl. No. 58) Transl. 16805  
Translation from Verein Deutscher Ingenieure. Zeitschrift. 68(49). n.d.
- NOWOTNY, R. Influence of dimensions of poles upon decay losses. 12 p. (FPL Transl. No. 57) Transl. 16804  
Translation from Elektrotechnik und Maschinenbau. No. 26. 1935.
- NOWOTNY, R. The laws governing the loss by decay of wooden ties and telegraph poles. 10 p. (FPL Transl. No. 75) Transl. 16810  
Translation from Helios 29(43):394-396. Oct.28,1923.
- ONISHCHENKO, A. Computers used in agricultural planning. U. S. Joint Publ. Res. Serv. Transl. USSR Agr. 227:1-12. Nov.30,1967. (JPRS 43,515) 173 J663Tso  
Translation from Ekonomika Sovetskoi Ukrainy 9:72-76. 1967.  
Issued by CFSTI.
- ORLOVSKII, I. F. The influence of the type of moldboard, angles  $\epsilon$  and  $\gamma$  and speed on the quality of plowing. 3 p. Transl. 16773  
Translation from Mekhanizatsiya i Elektrifikatsiya Sotsialisticheskogo Sel'skogo Khozyaistva 3:22-23. 1967.
- OSADCHII, A. P. Loosening soil below the plow layer. 3 p. Transl. 16772  
Translation from Zemledelie 8:30-32. 1966.
- QUINN, M. The National Waters and Forests School [Ecole Nationale des Eaux et Forêts, Nancy] and the development of French forestry education. 18 p. (FS-551) Transl. 16750  
Translation from Memoirs de l'Academie de Stanislas 1946-1946. 1950:81-99.



- OVSYANNIKOV, N. Land reclamation operations in the RSFSR during 1966. U. S. Joint Publ. Res. Serv. Transl. USSR Agr. 226:31-37. Nov.30,1967. (JPRS 43,507) 173 J663Tso  
Translation from Ekonomicheskaya Gazeta 43:36. Oct.1967.  
Issued by CFSTI.
- OZAKI, S. Some characteristics of the technical reform movement in Communist China. 8 p. Transl. 16540  
Translation from Ajia Keizai Jumbo 434:1-8. June 10,1960.
- OZOL, A. The use of hybridization to obtain heterotic forms of woody plants. 7 p. (TT 67-51330) Transl. 16796  
Translation from Akademiya Nauk Latvii SSR. Izvestiya 8(181):75-80. 1962.  
Issued by CFSTI.
- PACHLEWSKI, R., and PACHLEWSKA, J. Morphoanatomical investigations of pine (*Pinus silvestris* L.) Mycorrhizae in forest communities of the Bialowieza National Park. 20 p. Ref. (TT 65-50352) Transl. 16747  
Translation from Warsaw. Instytut Badawczy Lesnictwa. Prace 205:3-48. 1960.  
Issued by CFSTI.
- PALLAS, E. Methods of testing animal glue. 7 p. (FPL Transl. No. 77) Transl. 16838  
Translation from Technik-Industrie und Schweitzer Chemiker-Zeitung 16(23/24):234-236. 1933.
- PANJAKOVIC, M. Wheat production in Yugoslavia. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 645:34-52. May 10,1968. (JPRS 45,311) 173 J663Ste  
Translation from Produktivnost, Feb.1968: 103-109.  
Issued by CFSTI.
- PARDE, J. Wood production and Paterson's index. 10 p. (FPL No. 381) Transl. 16806  
Translation from Schweizerische Zeitschrift fur Forstwesen 110(4). Apr.1959.
- PAVLOVIC, R., and RAJIC, T. The need and the possibility for organized work in education in veterinary science. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 626:1-5. Feb.15,1968. (JPRS 44,393) 173 J663Ste  
Translation from Veterinarski Glasnik, Feb.1, 1968:61-63.  
Issued by CFSTI.
- PAVLOVIC, U. Agriculture in the first two years of the economic reform. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 629:47-54. Feb.29,1968. (JPRS 44,530) 173 J663Ste  
Translation from Ekonomika Poljoprivrede 1/2:123-127. Jan./Feb.1968.  
Issued by CFSTI.
- PAVLOVIC, U. The mechanization of field-crop production in Yugoslavia. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 620:28-38. Jan.22,1968. (JPRS 44,096) 173 J663Ste  
Translation from Ekonomika Poljoprivrede 12:971-979. Dec.1967.  
Issued by CFSTI.
- PAVLOVIC, U. Yields of late crops in 1967. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 648:13-15. May 15,1968. (JPRS 45,381) 173 J663Ste  
Translation from Ekonomika Poljoprivrede, Apr.1968:286-287.  
Issued by CFSTI.
- PETERSEN, O. G. Changes in structure of wood caused by the rising of branches of red spruce (*Picea excelsa*). 13 p. (FPL No. 44) Transl. 16832  
Translation from Botaniske Tidsskrift 33(5): 354-361. 1914.
- PETRASH, I. P., and METLITSKII, L. V. Variations in respiration process during gamma radiation of plant tissue. 5 p. Ref. (NASA TT F-462) Transl. 16748  
Translation from Akademiya Nauk SSSR. Doklady 170(3):711-713. 1966.  
Issued by CFSTI.
- PETROVIC, M. Results of production cooperation in field cropping. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 629:27-38. Feb.29,1968. (JPRS 44,530) 173 J663Ste  
Translation from Ekonomika Poljoprivrede 1/2:21-30. Jan./Feb.1968.  
Issued by CFSTI.
- PHAM-THANH. Tenth-month rice in Nghe An Province. Joint Publ. Res. Serv. Transl. N. Vietnam 302:48-50. Jan.24,1968. (JPRS 44,138) DS557.A7J6  
Translation from Nhan Dan, Dec.6,1967:2.  
Issued by CFSTI.
- PHAN QUANG. Cultivation organization suitably arranged. Joint Publ. Res. Serv. Transl. N. Vietnam 316:48-54. Feb.28,1968 (JPRS 44,523) DS557.A7J6  
Translation from Nhan Dan, Jan.8,1968:2.  
Issued by CFSTI.
- PHAN-QUANG. Problems and progress in food supply. Joint Publ. Res. Serv. Transl. N. Vietnam 301:8-14. (JPRS 44,113) DS557.A7J6  
Translation from Nhan Dan, Dec.1,1967:2.  
Issued by CFSTI.
- PHAN QUANG. A review of agricultural production for 1967. Joint Publ. Res. Serv. Transl. N. Vietnam 314:84-89. Feb.26,1968. (JPRS 44,491) DS557.A7J6  
Translation from Nhan Dan, Jan.5,1968:2.  
Issued by CFSTI.
- PHANG QUANG. Review of agriculture in North Vietnam in 1967. Joint Publ. Res. Serv. Transl. N. Vietnam 316:25-31. Feb.28,1968. (JPRS 44,523) DS557.A7J6  
Translation from Nhan Dan, Jan.7,1968:2.  
Issued by CFSTI.
- PHAN QUANG. Subsidiary food crops. Joint Publ. Res. Serv. Transl. N. Vietnam 314:115-121. Feb.26,1968. (JPRS 44,491) DS557.A7J6  
Translation from Nhan Dan, Jan.10,1968:2.  
Issued by CFSTI.
- PHAN QUANT. Review of 1967 agriculture: climate and crop guidance. Joint Publ. Res. Serv. Transl. N. Vietnam 319:84-89. Mar.4, 1968. (JPRS 44,583) DS557.A7J6  
Translation from Nhan Dan, Jan.16,1968:2.  
Issued by CFSTI.
- POHL, Z. Studies on growth and morphology of *Populus maximowiczii* Henry hybrids at Kornik Arboretum. 72 p. Ref. (TT 66-57025) Transl. 16797  
Translation from Arboretum Kornickie 7:115-184. 1962.  
Issued by CFSTI.
- POKROVSKIY, A. Nutrition institute recommends meat rations for Soviet diet. U. S. Joint Publ. Res. Serv. Transl. USSR Consum. Goods Dom. Trade 214:15-21. Dec.6,1967. (JPRS 43,605) 173 J663Tro  
Translation from Myasnaya Industriya SSSR 10:23-26. Oct.1967.  
Issued by CFSTI.
- POLOVNIKOV, A., and POLETAYEV, B. Reducing the number of stages in wholesale circulation and movement of foodstuffs. U. S. Joint Publ. Res. Serv. Transl. USSR Consum. Goods Dom. Trade 224:4-8. Jan.22,1968. (JPRS 44,101) 173 J663Tro  
Translation from Sovetskaya Torgovlya 12:20-22. Dec.1967.  
Issued by CFSTI.
- PONDEL, H. Physico-chemical and chemical properties of Brown and podzolic soils developed from boulder loam of the Kaszub lake-land. 40 p., map. Ref. (TT 65-50320) Transl. 16251  
Translation from Instytut Uprawy, Nawozenia i Gleboznawstwa. Pamietnik Pulawski 9:53-97. 1963.  
Issued by CFSTI.

- POSTNIKOV, A. Recent activities of the state agrochemical service in the RSFSR. U. S. Joint Publ. Res. Serv. Transl. USSR Agr. 228; 5-10. Dec. 22, 1967. (JPRS 43,795)  
173 J663Tso  
Translation from *Ekonomicheskaya Gazeta* 47:27. Nov. 1967.  
Issued by CFSTI.
- PRESNOV, I. N. Variability of *Bacillus anthracis* in natural conditions. 11 p. (JPRS 37,689; TT 66-34117) Transl. 16286  
Translation from *Veterinariya* 7:25-29. July 1966.  
Issued by CFSTI.
- PRIMO, E., BARBER, S., and TORTOSA, E. Chemical composition of rice. Free fatty acids, neutral fats, and phospholipids distribution in the grain and composition of fatty acids. 5 p. Ref. Transl. 16252  
Translation from *Agroquimica y Tecnologia de Alimentos* 5(4):458-466. 1965.
- PRYOR, L. D. Report to the government of Tunisia on the improvement of *Eucalyptus*. 6 p. Transl. 16284  
Translation of Programme Elargi d'Assistance Techniques. FAO No. 1484. L'Amelioration des *Eucalyptus* Rapport au Gouvernement de la Tunisie. 1962.
- PURYSHEVA, T. Recommendations voiced for improving incentives in sovkhozes. U. S. Joint Publ. Res. Serv. Transl. USSR Labor 227:1-7. Feb. 14, 1968. (JPRS 44,361) 173 J663Tou  
Translation from *Sovetskije Profosyuzy* 22: 14-15. Nov. 1967.  
Issued by CFSTI.
- PUSTRAKOV, N. The new system of management in state farms. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 621:8-13. Jan. 4, 1968. (JPRS 43,870) 173 J663Ste  
Translation from *Kooperativno Zemedelie* 11: 17-20. Nov. 1967.  
Issued by CFSTI.
- RABINOVICH, A. SH., and KHRAMTSOV, L. D. Increased period of service of chisel pointed self-sharpening plow shares, surfaced with "Sormite 1." 4 p. Transl. 16767  
Translation from *Traktory i Sel'khoz mashiny* 4:41-42. 1967.
- \*RADIONOV, A. D., CHUMACHENKO, A. N., and KIRILENKO, I. I. The toxic properties of the herbicide 2,4-D. Acad. Sci. USSR. Dokl. Earth Sci. Sect. 32(4/6):116-120. Apr./June 1967. RA421.G53
- RADOV, G. Some effects of increased incentives on farm production. 16 p. (JPRS 39,346; TT 66-35768) Transl. 16544  
Translation from *Literaturnaya Gazeta*, Oct. 18, 1966:2-3; Oct. 20, 1966:1-2.  
Issued by CFSTI.
- RAJKOV, B. An analysis of the business success of agricultural enterprises in the Vojvodina. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 629:16-26. Feb. 29, 1968. (JPRS 44,530) 173 J663Ste  
Translation from *Ekonomika Poljoprivrede* 1/2:9-19. Jan./Feb. 1968.  
Issued by CFSTI.
- \*RAUTENSHTEIN, YA. I. Fifty years of Soviet microbiology. Microbiology 36(5):641-650. Sept./Oct. 1967. 448.3 M582Ae
- RED'KO, G. I. Influence of the black alder (*Alnus glutinosa* Gaertn.) on the productivity of the Canadian poplar (*Populus canadensis* Mnch.). 4 p. (TT 66-51093) Transl. 16290  
Translation from *Akademiya Nauk Ukrayins'koyi RSR. Dopovidi* 3:343-346. 1958.  
Issued by CFSTI.
- REYNLA, M. Problems involved in placing Estonian sovkhozes on complete autonomous financing. U. S. Joint Publ. Res. Serv. Transl. USSR Agr. 226:38-43. Nov. 30, 1967. (JPRS 43,507) 173 J663Tso  
Translation from *Ekonomicheskaya Gazeta* 43:39. Oct. 1967.  
Issued by CFSTI.
- ROUMIANTZEFF, M., STELLMANN, C., and DUBOUCARD, C. Techniques of quantitative complement fixation applied to the study of the foot and mouth disease virus. 14 p. Ref. Transl. 16739  
Translation from Lyon. Societe des Sciences Veterinaires et Medicales Comparees, 1965.
- RUKOSUYEV, P. N. Remuneration for labor according to final production results in sovkhozes. U. S. Joint Publ. Res. Serv. Transl. USSR Labor 233:10-19. Feb. 29, 1968. (JPRS 44,538) 173 J663Tou  
Translation from Moscow. Universitet, Vestnik, Seriya 7, *Ekonomika* 1:57-64. Jan./Feb. 1968.  
Issued by CFSTI.
- RUMYANTSEV, N. Planning errors at wood-processing plant. U. S. Joint Publ. Res. Serv. Transl. USSR Consum. Goods Dom. Trade 226: 7-10. Jan. 26, 1968. (JPRS 44,155) 173 J663Tro  
Translation from *Ekonomicheskaya Gazeta* 51: 23. Dec. 1967.  
Issued by CFSTI.
- SAGHIN, I. The place and role of animal production in the national economy. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 643:19-24. Apr. 30/May 7, 1968. 173 J663Ste  
Translation from *Revista de Zootehnie si Medicina Veterinara* 3:10-16. Mar. 1968.  
Issued by CFSTI.
- SAPUNDZHIEV, D. Basic production funds and labor productivity in agriculture. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 621:1-13. Jan. 29, 1968. (JPRS 44,169) 173 J663Ste  
Translation from *Planovo Stopanstvo i Statistika* 9:13-24. 1967.  
Issued by CFSTI.
- SAVIN, A. Migration of young people from rural areas. U. S. Joint Publ. Res. Serv. Transl. USSR Labor 236:26-29. Mar. 14, 1968. (JPRS 44,679) 173 J663Tou  
Translation from *Trud*, Feb. 14, 1968:2.  
Issued by CFSTI.
- SAVOV, B. Internal profit and loss accounting in the cooperative labor farms. U. S. Joint Publ. Res. Serv. Transl. Econ. Organ. Manage. East Europe 807:1-11. Mar. 13, 1968. (JPRS 44,662) 173 J663Tre  
Translation from *Partien Zhivot* 2:49-56. Feb. 1968.  
Issued by CFSTI.
- SCHAAL, O. The present state of the Scholler-Tornesch process for the saccharification of cellulosic materials. 12 p. Ref. (FPL No. 49) Transl. 16828  
Translation from *Cellulosechemie* 16(1):7-10. 1935.
- SCHARRER, K., and SCHREIBER, R. Pot experiments on the influence of increased potassium and magnesium fertilization on the protein yield of field beans (*Vicia faba*). 15 p. (TT 63-18121) Transl. 15946  
Translation from *Bodenkunde und Pflanzenernahrung* 26:129-136. 1941.  
Issued by CFSTI.
- SCHOBBER, R. Ideas and proposals for a new system of thinning and tree classification. Int. Union Forest. Res. Organ. Papers, 14th Congr., v. 6:61-95. Ref. 1967. 99.9 In82  
Translation from *Allgemeine Forst und Jagdzeitung* 135(4):87-96. Apr. 1964.
- SEIFERT, K. The chemical decomposition of the beechwood cellwall by the white-rot fungus, *Polystictus versicolor* (Linn.) Fr. 24 p. Transl. 16721  
Translation from *Holz als Roh- und Werkstoff* 24(3):81-86. 1966.



SEKULARAC, B. The adjustment of the basic law on agricultural cooperatives to the requirements of the economic reform. U. S. Joint Publ. Res. Serv. Transl. Econ. Organ. Manage. East. Europe. 824:38-46. May 3, 1968.

(JPRS 45,259) 173 J663Tre

Translation from Glasnik Poljoprivrede i Zadrugarstva 2:20-24. Feb. 1968.

Issued by CFSTI.

SHAGDAR, D. Let us focus attention on utilization of animal transport. U. S. Joint Publ. Res. Serv. Transl. Mongolia 153:12-14. Jan. 8, 1967.

(JPRS 43,901) 173 J663Tmo

Translation from Unen, June 4, 1967:2.

Issued by CFSTI.

SHELEST, L. Problems plaguing Ukrainian sugar industry. U. S. Joint Publ. Res. Serv. Transl. USSR Consum. Goods Dom. Trade 209:11-18. Nov. 16, 1967. (JPRS 43,344;

TT67-33968) 173 J663Tro

Translation from Ekonomika Sovetskoi Ukrainy 10:6-11. 1967.

Issued by CFSTI.

SHIROSHITA, T., and others. Studies on the periodical alternation of lowland and upland field from the standpoint of soil and fertilizer. 130 p. Ref. Transl. 16743

K. Ishii, K. Takahashi, and J. I. Kaneko, joint authors.

Translation from Kanto-Tosan Agricultural Experiment Station. Journal 16:50-96. May 1960.

SHITKOV, A. Role of mechanized labor and wages in Khabarovskiy Kray agriculture. U. S. Joint Publ. Res. Serv. Transl. USSR Labor 249:103-108. May 28, 1968. (JPRS 45,500)

173 J663Tou

Translation from Sel'skaya Zhizn', Apr. 24, 1968:2.

Issued by CFSTI.

SILA, B. Autooxidation products of resin acids from *Picea excelsa* L. 6 p. (TT 65-50328) Transl. 16256

Translation from Roczniki Chemii 34(3/4):1155-1160. 1960.

Issued by CFSTI.

STANISAVLJEVIC, D. The leading field crop—corn—in Kosovo-Metohija. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 623:14-22. Feb. 6, 1968.

(JPRS 44,258) 173 J663Ste

Translation from Glasnik za Poljoprivredu i Zadrugarstvo 16(12):39-44. Dec. 1967.

Issued by CFSTI.

STARK, V. N. Results and prospects of research on pests and diseases of shelterbelt forest stands. 10 p. (TT 66-51076) Transl. 16257

Translation from Vsesoyuznyi Institut Zashchity Rastenii. Trudy 8:5-17. 1957.

Issued by CFSTI.

STARODINSKII, D. Z. Method of reducing the energy requirements of rotary tilling soil machines. 6 p. Transl. 16769

Translation from Traktory i Sel'khoz mashiny 4:32-34. 1967.

STRIKHA, I. A. Causes of deformation of wood—details and methods of reducing it. 8 p. (FPL No. 290) Transl. 16827

Translation from Nauka i Tekhnika 7:7-11. n.d.

STRUMILIN, S. Methods for improving the planning level of the use of natural resources. U. S. Joint Publ. Res. Serv. Transl. USSR Agr. 226:14-30. Nov. 30, 1967. (JPRS 43,507)

173 J663Tso

Translation from Voprosy Ekonomiki 8:60-72. Aug. 1967.

Issued by CFSTI.

STRUYEV, A. Expansion of food and trade services cited. U. S. Joint Publ. Res. Serv. Transl. USSR Consum. Goods Dom. Trade 220:43-55. Jan. 3, 1968. (JPRS 43,863)

173 J663Tro

Translation from Sovetskaya Torgovlya 11:2-7. Nov. 1967.

Issued by CFSTI.

SWEDISH standards for wood construction. 8 p. (FPL No. 105) Transl. 16830

Translation from Fick-Kalender for Travaru-och Byggnadsmaterialhandeln 1951:128-136.

TABEYEV, F. Strengthening of the public economy and growth of payment for labor in kol-khozes. U. S. Joint Publ. Res. Serv. Transl. USSR Labor 224:71-82. Jan. 19, 1968.

(JPRS 44,091) 173 J663Tou

Translation from Sotsialisticheskiy Trud 11:86-93. 1967.

Issued by CFSTI.

TAKAKUSU, T., ENOKIDA, S., and AIDA, S. Influences of application of herbicides on outbreak of rice stem borers. 3 p. Transl. 16150

Translation from Kanto Tosan Plant Disease and Insect Pest Research Society. Annual Report. 12. 1965.

T'AN, C. The region types of the Alashan Desert in inner Mongolia. 57 p., map. Ref. (JPRS 37,983; TT 66-34410) Transl. 16264

Translation from Ti Li Chi K'an 8:1-27. Aug. 1964.

Issued by CFSTI.

TANAKA, T. Morphological and biological studies of thysanopterous insects on rice plants. 11 p. Transl. 16727

Translation from Oyo Konchu 7(3):125-133. 1951.

TARCHALSKA, H. Pharmaceuticals for farm animals. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 624:40-49. Feb. 8, 1968. (JPRS 44,287) 173 J663Ste

Translation from Nowe Rolnictwo 16(22):1-3. Nov. 1967.

Issued by CFSTI.

TAYKALOV, V. Shortcomings in the fulfillment of the plan of capital investments in agriculture. U. S. Joint Publ. Res. Serv. Transl. USSR Agr. 226:48-55. Nov. 30, 1967.

(JPRS 43,507) 173 J663Tso

Translation from Ekonomika i Zhizn' 8:48-50. Aug. 1967.

Issued by CFSTI.

TEI, S. Relationships between rice plant growth and length and intensity of day light by artificial shading and lighting. 1. 15 p. Transl. 16799

Translation from Agriculture and Horticulture 5(8):57-64. 1930.

TEJCHMA, J. New goals for agricultural circles. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 645:1-8. May 10, 1968. (JPRS 45,311) 173 J663Ste

Translation from Wies Wspolczesna, Mar. 1968:3-8.

Issued by CFSTI.

\*TER-KARAPETYANTS, N. N. Sanitation and planning of Kolkhoz villages in the Nagorno-Karabakh autonomous region in the Azerbaidzhan SSR. Acad. Sci. USSR. Dokl. Earth Sci. Sect. 32(4/6):431-432. Apr./June 1967. RA421.G53

THIELE, K. Agricultural supply and purchase in 1967. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 622:1-7. Jan. 31, 1968. (JPRS 44,201) 173 J663Ste

Translation from Socialistické Zemedelství 52:1-2. Dec. 1967.

Issued by CFSTI.

THUN, R. Effect of lime, magnesite lime, and magnesium sulphate fertilization on the uptake and efficiency of various phosphate fertilizers. 32 p. (TT 63-18117) Transl. 15966

Translation from Bodenkunde und Pflanzenernahrung 30:137-156. n.d.

Issued by CFSTI.

TOMAL, Z. Farm policy problems and tasks. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 619:52-62. Jan. 17, 1968. (JPRS 44,034) 173 J663Ste

Translation from Wies Wspolczesna 12:3-12. Dec. 1967.

Issued by CFSTI.

- TOMULESCU, F.** Results and perspectives of the forestry industry. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 624:61-63. Feb. 8, 1968. (JPRS 44,287) 173 J663Ste  
Translation from Rominia Libera, Dec. 26, 1967:1-3.  
Issued by CFSTI.
- TOPALOV, V.** Urgent economic problems of cotton production. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 646:1-5. May 10, 1968. (JPRS 45,315) 173 J663Ste  
Translation from Ikonomicheski Zhivot, Mar. 7, 1968:14.  
Issued by CFSTI.
- TRAN HOAI QUANG.** Water conservation in Tuyen Quang Province. Joint Publ. Res. Serv. Transl. N. Vietnam 278:42-44. Nov. 7, 1967. (JPRS 43,273; TT 64-33897) DS557.A7J6  
Translation from Nhan Dan, Oct. 3, 1967:2.  
Issued by CFSTI.
- TRAN QUANG THUYET.** Encouraging the large-scale production of organic fertilizer. Joint Publ. Res. Serv. Transl. N. Vietnam 288:12-14. Nov. 24, 1967. (JPRS 43,442) DS557.A7J6  
Translation from Nhan Dan, Oct. 25, 1967:2.  
Issued by CFSTI.
- TRAN-VAN-HA.** Experiences in supervising the development of animal husbandry (reference materials of the "agriculture" lesson). Joint Publ. Res. Serv. Transl. N. Vietnam 263:84-108. Oct. 16, 1967. (JPRS 42,972; TT 67-33598) DS557.A7J6  
Translation from Tuyen Huan 8:38-47. Aug. 1967.  
Issued by CFSTI.
- TRAN-VAN-HA.** Prevention and treatment of livestock diseases. Joint Publ. Res. Serv. Transl. N. Vietnam 369:46-48. May 17, 1968. (JPRS 45,419) DS557.A7J6  
Translation from Nhan Dan, Apr. 8, 1968:2.  
Issued by CFSTI.
- TRIFUNOVIC, V.** The work of the corn institute [Zemun Polje Zavod za Kukuruz]. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 646:35-39. May 10, 1968. (JPRS 45,315) 173 J663Ste  
Translation from Poljoprivrede 2:3-6. Feb. 1968.  
Issued by CFSTI.
- TRINH-VAN-THINH.** Mass line in livestock disease prevention. Joint Publ. Res. Serv. Transl. N. Vietnam 363:41-49. May 10, 1968. (JPRS 45,318) DS557.A7J6  
Translation from Khoa Hoc Ky Thuat Nong Nghiep, Dec. 1967:469-473.  
Issued by CFSTI.
- TRINH VAN THINH.** On buffalo disease in Vietnam. Joint Publ. Res. Serv. Transl. N. Vietnam 296:20-29. Dec. 26, 1967. (JPRS 43,828) DS557.A7J6  
Translation from Khoa Hoc Ky Thuat Nong Nghiep 67:262-267. July 1967.  
Issued by CFSTI.
- TRONG-ANH.** Implementing the three resolutions on women's activities in rural Ninh Binh. Joint Publ. Res. Serv. Transl. N. Vietnam 302:20-22. Jan. 24, 1968. (JPRS 44,138) DS557.A7J6  
Translation from Nhan Dan, Nov. 30, 1967:2.  
Issued by CFSTI.
- \* **TUPEEVA, R. B.** The determination of methoxone in air. Acad. Sci. USSR. Dokl. Earth Sci. Sect. 32(4/6):72-76. Apr./June 1967. RA421.G53
- TURSKI, J.** Potato industry goals in 1966-1970. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 622:20-26. Jan. 31, 1968. (JPRS 44,201) 173 J663Ste  
Translation from Przemysl Spozycwczy 10:3-5. Oct. 1967.  
Issued by CFSTI.
- TWAROWSKI, Z.** Investigations on the annual development dynamics of mycorrhizae in 40-year-old spruce stands. 11 p. (TT 66-57030) Transl. 16741  
Translation from Warsaw. Instytut Badawczy Lesnictwa. Prace 260:72-102. 1963.  
Issued by CFSTI.
- UEDA, M.** Studies on the rate of additional "hitetsudo" for paddy rice, barley and onion. 15 p. Transl. 14769  
Translation from Proceedings of the meeting of Agricultural Research Workers in Tokai and Kinki. No. 5. Mar. 1955.
- VACHKOV, G., and VASILEV, V.** A highly efficient method of irrigation with automatic flow. 9 p. Transl. 16740  
Translation from Mezhdunarodnyi Sel'skokhozyaistvennyi Zhurnal 3:88-91. 1965.
- VAN SON.** Improving commodity distribution for peasants in Thai Binh Province. Joint Publ. Res. Serv. Transl. N. Vietnam 288:15-16. Nov. 24, 1967. (JPRS 43,442) DS557.A7J6  
Translation from Nhan Dan, Oct. 25, 1967:2.  
Issued by CFSTI.
- VAN-SON.** Second five metric ton year for Thai Binh Province. Joint Publ. Res. Serv. Transl. N. Vietnam 301:15-23. Jan. 23, 1968. (JPRS 44,113) DS557.A7J6  
Translation from Nhan Dan, Dec. 10, 1967:2.  
Issued by CFSTI.
- VSESOYUZNOE ENTOMOLOGICHESKOE OB-SHCHESTVO.** Report on the activities of the All-Union Entomological Society of the Academy of Sciences of the USSR for 1965. 10 p. (JPRS 39,350; TT 67-3001) Transl. 16547  
Translation from Entomologicheskoe Obozrenie 45(2):461-464. 1966.  
Issued by CFSTI.
- VU OANH.** Assignment of party members in the rural areas. Joint Publ. Res. Serv. Transl. N. Vietnam 314:56-59. Feb. 26, 1968. (JPRS 44,491) DS557.A7J6  
Translation from Nhan Dan, Jan. 10, 1968:2.  
Issued by CFSTI.
- VU THAI.** Afforestation in 19 Provinces. Joint Publ. Res. Serv. Transl. N. Vietnam 350:8-9. Apr. 19, 1968. (JPRS 45,102) DS557.A7J6  
Translation from Nhan Dan, Mar. 20, 1968:2.  
Issued by CFSTI.
- VU-THO.** Problems in building a material and technological base for agricultural cooperatives. Joint Publ. Res. Serv. Transl. N. Vietnam 369:31-34. May 17, 1968. (JPRS 45,419) DS557.A7J6  
Translation from Nhan Dan, Mar. 15, 1968:2.  
Issued by CFSTI.
- \* **VULLO, I. I., MAL'KOVA, M. G., and TEMNO-GRUDOVA, E. N.** Butter cream as a possible source of staphylococcal food-poisoning. Acad. Sci. USSR. Dokl. Earth Sci. Sect. 32(4/6):115. Apr./June 1967. RA421.G53
- WASYLKOWSKI, J.** Import and export of farm machinery. U. S. Joint Publ. Res. Serv. Transl. East Europe. Foreign Trade 377:9-15. Dec. 21, 1967. (JPRS 43,784) 173 J663Tree  
Translation from Zycie Gospodarcze 48:8. Nov. 1967.  
Issued by CFSTI.
- WIRSIG, H.** Cooperative associations in agriculture and the food industry. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 621:29-44. Jan. 29, 1968. (JPRS 44,169) 173 J663Ste  
Translation from Wirtschaftswissenschaft 15(11):1761-1764. Nov. 1967.  
Issued by CFSTI.
- WISNIEWSKA, J.** Observations on the effectiveness of herbicide derivatives of 2,4-D in combatting dicotyledonous weeds on heavily infested peat meadows. Water Econ. [Selec. Articles] 20(10):521-534. Ref. 1966. (TT 63-11363) HD1697.P7S4  
Translation from Gospodarka Wodna 20(10):473-474. 1960.  
Issued by CFSTI.



- WON, S. H. New agricultural guidance system lauded. Joint Publ. Res. Serv. Transl. N. Korea 71:9-27. Jan.29,1968. (JPRS 44,175) DS901.T7  
Translation from Nodong Sinmun, Dec.22, 1967:2-3.  
Issued by CFSTI.
- WYSZOMIRSKI, T. Farm credit in Poland 1966-1968. U. S. Joint Publ. Res. Serv. Transl. East Europe. Agr. Forest. Food Indus. 648:1-12. May 15,1968. (JPRS 45,381) 173 J663Ste  
Translation from Wiadomosci Narodowego Banku Polskiego, Mar.1968:81-86.  
Issued by CFSTI.
- \* YAKIM, V. S. The maximum permissible concentration of Sevin in the air of the work zone. Hyg. Sanit. 32(4/6):3236. Apr./June 1967. RA421.G53
- YAMASAKI, S., TAKAHASHI, S., and TAKEDA, S. Studies on the weed control in the paddy field. 1-2. 17 p. Transl. 16734  
Translation from Miyagi Agricultural Experiment Station. Technical Bulletin 32. Mar.1963.
- YANG, K. H., and WANG, C. L. Phonotaxis in swarming Culex mosquitoes. U. S. Joint Publ. Res. Serv. Transl. Communist China's Sci. Technol. 400:1-9. Feb.19,1968. (JPRS 44,408) 173 J663Tcco  
Translation from Jen Min Pao Chien 2(6):296-298,340. June 1960.  
Issued by CFSTI.
- YATSENKO, P. Coordinating food output and consumption in Kazakhstan. U. S. Joint Publ. Res. Serv. Transl. USSR Consum. Goods Dom. Trade 214:1-14. Dec.6,1967. (JPRS 43,605) 173 J663Tro  
Translation from Narodnoe Khozyaistvo Kazakhstana 9:28-32. Sept.1967.  
Issued by CFSTI.
- YI, C. P. The revolutionization of the peasants and their transformation into the working class. Joint Publ. Res. Serv. Transl. N. Korea 81:67-84. Apr.30,1968. (JPRS 45,204) DS901.T7  
Translation from Kulloja, Jan.30,1968:37-47.  
Issued by CFSTI.
- YKHNEVICH, P. Conveyor belt from the orchard to the store. U. S. Joint Publ. Res. Serv. Transl. USSR Consum. Goods Dom. Trade 220:9-12. Jan.3,1968. (JPRS 43,863) 173 J663Tro  
Translation from Pravda, Nov.29,1967:2.  
Issued by CFSTI.
- YUN, C. H. Priority development of heavy industry and simultaneous development of light industry and agriculture. Joint Publ. Res. Serv. Transl. N. Korea 69:47-62. Jan.15,1968. (JPRS 44,010) DS901.T7  
Translation from Kulloja 9:28-36. Sept.1967.  
Issued by CFSTI.
- YUN, N. G. Our country has emerged as a strong socialist industrial-agricultural state. Joint Publ. Res. Serv. Transl. N. Korea 71:9-27. Jan.29,1968. (JPRS 44,175) DS901.T7  
Translation from Minju Chosun, Nov.21,1967:2-3.  
Issued by CFSTI.
- YUSUPOV, O. Stimulating economic growth. U. S. Joint Publ. Res. Serv. Transl. USSR Labor 229:18-22. Feb.19,1968. (JPRS 44,419) 173 J663Tou  
Translation from Pravda Vostoka, Jan.7,1968:2.  
Issued by CFSTI.
- ZAKHAROV, N. Effective usage of anti-erosion measures. U. S. Joint Publ. Res. Serv. Transl. USSR Agr. 227:13-19. Nov.30,1967. (JPRS 43,515) 173 J663Tso  
Translation from Finansy SSSR 9:15-18. 1967.  
Issued by CFSTI.
- ZALSKI, T. Investment outlays for farm-food industry. U. S. Joint Publ. Res. Serv. Transl. East European Agr. Forest. Food Indus. 609:34-41. Nov.29,1967. (JPRS 43,494) 173 J663Tou  
Translation from Zycie Gospodarcze 44:1-4. Oct.1967.  
Issued by CFSTI.
- ZASYADNIKOV, T. Spring sowing of koksaghyz. 8 p. Transl. 16801  
Translation from Sotsialisticheskoe Sel'skoe Khozyaistvo 4:70-75. 1941.

## CHECKLISTS

Checklists of publications of the U. S. D. A., State Agricultural Experiment Stations, and State Agricultural Extension Services are prepared for the convenience of those who wish to follow the literature from these sources. All such publications are included also in the classified section and indexed in the author and subject indexes.

U. S. D. A. PUBLICATIONS

Publications in the various United States Department of Agriculture series are listed first, followed by publications issued by the various agencies within the Department, arranged alphabetically by name of agency.

Domestic requests for publications in the various Department series will be filled free to libraries and other qualified agencies and organizations upon application to the United States Department of Agriculture, Office of Information, Washington, D.C., 20250, as long as the supply lasts. They may also be purchased from the Superintendent of Documents, Washington, D.C., 20250.

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Agriculture Handbooks

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. MOTION PICTURE SERV. Films of the U.S. Department of Agriculture.  
U. S. D. A. Agr. Handbook 14,81 p. 1968.  
1 Ag84Ah

Agriculture Information Bulletins

U. S. AGRICULTURAL RESEARCH SERV. Science and consumers, the story of how agricultural research serves you. U. S. D. A. Agr. Inform. Bull. 322, slightly rev., 18 p. Feb. 1968.  
1 Ag84Ab

Farmers' Bulletins

HENSON, P. R., SCHOTCH, H. A., and MCKEE, R. Vetch culture and uses. U. S. D. A. Farmers' Bull. 1740, rev., 22 p. Mar. 1968.  
1 Ag84F

Home and Garden Bulletins

CATHEY, H. M. Growing peonies. U. S. D. A. Home Gard. Bull. 126, 12 p. Nov. 1967.  
1 Ag84Hg

Miscellaneous Publications

U. S. AGRICULTURAL RESEARCH SERV. Pole-frame cabin; cooperative farm building plan No. 6002. U. S. D. A. Misc. Publ. 1079, 2 p. Apr. 1968. 1 Ag84M

Program Aid

U. S. AGRICULTURAL RESEARCH SERV. PLANT PEST CONTROL DIV. The golden nematode of potatoes and tomatoes. U. S. D. A. PA-816, 4 p. Dec. 1967. 1 Ag84Pro

U. S. DEPT. OF AGRICULTURE. Reseal loans. U. S. D. A. PA-836, 3 p. Dec. 1967. 1 Ag84Pro

U. S. CONSUMER AND MARKETING SERV. Inspection for your protection. U. S. D. A. PA-877, 2 p. May 1968. 1 Ag84Pro

Statistical Bulletins

STRICKLER, P. E., and SMITH, H. V. Farm machinery and equipment; number and value of shipments for domestic use 1935-39 to 1966. U. S. D. A. Statist. Bull. 419, 26 p. Mar. 1968.  
1 Ag84St

U. S. CONSUMER AND MARKETING SERV. Dairy market statistics, 1967; annual summary of market statistics. U. S. D. A. Statist. Bull. 420, 30 p. Mar. 1968. 1 Ag84St

Unnumbered Publications

U. S. WEATHER BUR. Federal plan for a National Agricultural Weather Service. Washington, 1967. 32 p. PREP 254

U. S. Department of Agriculture, cooperating.

AGRICULTURAL RESEARCH SERVICE

COOPER, A. W., and GILL, W. R. Characterization of soil related to compaction. Auburn, Alabama, Agricultural Research Service, National Tillage Machinery Laboratory, 1965. 11 p. Ref. PREP 1426

U. S. AGRICULTURAL RESEARCH SERV. ADMIN. SERV. DIV. Directory of the Agricultural Research Service, January 1968. Washington, 1968. 102 p. AS21.A99

U. S. Agricultural Research Service, Information Division, cooperating.

U. S. AGRICULTURAL RESEARCH SERV. ANIMAL DISEASE AND PARASITE RESEARCH DIV. Index-catalogue of medical and veterinary zoology. Supplement 17, part 1. Authors: A to Z, by D. B. Segel, J. M. Humphrey, S. J. Edwards, and M. D. Kirby. Washington, 1968. 452 p. 1 An5Ind

U. S. AGRICULTURAL RESEARCH SERV. NORTHERN UTILIZATION RESEARCH AND DEVELOPMENT DIV. Publications and patents, January-June, 1967. Peoria, Illinois, 1967? 47 p. 1.9321 N2L69

VANDEN BERG, G. E., and REAVES, C. A. Characterization of soil properties for tillage tool performance. Auburn, Alabama, Agricultural Research Service, National Tillage Machinery, Laboratory, 1965. 9 p. PREP 1425

AGRICULTURAL STABILIZATION AND CONSERVATION SERVICE

U. S. AGRICULTURAL STABILIZATION AND CONSERVATION SERV. POLICY AND PROGRAM APPRAISAL DIV. Sugar Act of 1948, as amended. Washington, 1966. 32 p. PREP 787

AGRICULTURAL STABILIZATION AND CONSERVATION COMMITTEES

U. S. AGRICULTURAL STABILIZATION AND CONSERVATION COMMITTEE (NORTH CAROLINA). 1967 annual report, Franklin County, (North Carolina). Louisburg, 1968? 31 p. A281.9 St14

CONSUMER AND MARKETING SERVICE

U. S. CONSUMER AND MARKETING SERV. TOBACCO DIV. Fire-cured and dark air-cured tobacco market review; 1967 crop. Washington, 1968. 68 p. 1.9 Ec714T



# COOPERATIVE STATE RESEARCH SERVICE

NATIONAL SEMINAR AND WORKSHOP FOR HOME ECONOMICS RESEARCH ADMINISTRATORS, UNIVERSITY OF NEBRASKA, 1967. Proceedings. Washington, U. S. Dept. of Agriculture, Cooperative State Research Service, 1967. 98 p. TX5.N3

Proceedings of seminar held at Nebraska Center for Continuing Education.

U. S. COOPERATIVE STATE RESEARCH SERV. Forestry research progress in 1967: McIntire-Stennis Cooperative [Federal-State] Forestry Research Program. Washington, 1968. 105 p. Ref. aSD11.A32

U. S. COOPERATIVE STATE RESEARCH SERV. Funds for research at State agricultural experiment stations and other State institutions, 1967. U. S. Coop. State Res. Serv. CSRS-15-3, 25 p. Jan.1968. A31.3 R31Ae

## ECONOMIC RESEARCH SERVICE

HARDAWAY, I. L. Economics of agriculture; reports and publications issued or sponsored by USDA's Economic Research Service, October 1966-September 1967. U. S. D. A. Econ. Res. Serv. ERS-368,17 p. Mar.1968. A281.9 Ag83E

JOHNSON, A., and HUFF, J. M. Outdoor recreation and associated research needs for suburban forests. Washington, U. S. Department of Agriculture, Economic Research Service, Natural Resource Economics Division, 1967. 13 p. PREP 187

U. S. DEPT. OF AGRICULTURE. ECONOMIC RESEARCH SERV. Farm mortgage debt held by major lenders. U. S. D. A. Econ. Res. Serv. FMD-6,7 p. Dec.1967. A284.9 Ag84

U. S. DEPT. OF AGRICULTURE. ECONOMIC RESEARCH SERV. Farm real estate market developments, November 1966 to November 1967. U. S. D. A. Econ. Res. Serv. Farm Real Estate Market Develop. CD-70,46 p.,map. Apr. 1968. 1.941 L2C93

## FARMERS HOME ADMINISTRATION

BERTSCH, H. The family farm; pattern for the future. Washington, Farmers Home Administration, 1967. 16 p. PREP 790

## FOREST SERVICE

FERGUSON, R. H. The timber resources of Pennsylvania. U. S. Forest Serv. Resour. Bull. NE-8,147 p.,map. 1968. A99.9 F7622Uf

KIRBY, M. W. Choosing an optimal fleet equipment rate structure; an analysis of alternatives. Berkeley, California, U. S. Department of Agriculture, Forest Service, Management Sciences Staff, 1966. 32 p. PREP 469

LABAU, V. J. Literature on the Bitterlich -- method of forest cruising; a bibliography. U. S. Forest Serv. Res. Paper PNW-47,20 p. 1967. A99.9 F7625Uni

OSTROM, A. J. Forest area in Michigan counties, 1966. U. S. N. Cent. Forest Exp. Sta. U. S. Forest Serv. Res. Note NC-38,4 p.,map. Aug.1967. aSD11.A33

ROTHACHER, J., DYRNESS, C. T., and FREDRIKSEN, R. L. Hydrologic and related characteristics of three small watersheds in the Oregon Cascades. Ogden, Pacific Northwest Forest and Range Experiment Station, Forest Service, U. S. Department of Agriculture, 1967. 54 p. aSD427.W3R6

STEFFES, F., and WEBB, S. Selected references on infestation of packages and packaging material by fungi, bacteria, insects and rodents. Madison, Wisconsin, U. S. Forest Service, Forest Products Laboratory, 1965. 4 p. PREP 1549

U. S. FOREST SERV. FOREST PRODUCTS LABORATORY (MADISON WISCONSIN). List of publications on milling and utilization of timber products, March 1968. Madison, 1968. 31 p. A241.01 F762Fo

Wisconsin University, cooperating.

U. S. FOREST SERV. FOREST PRODUCTS LABORATORY (MADISON, WISCONSIN). List of publications on wood finishing subjects. Madison, 1967. 11 p. PREP 871

U. S. FOREST SERV. KOOTENAI NATIONAL FOREST. Timber management plan, Kootenai working circle, Kootenai National Forest, region one, Montana-Idaho. n.p., 1967. 99 p., map. PREP 870

## GRADUATE SCHOOL

U. S. DEPT. OF AGRICULTURE. GRADUATE SCHOOL. Special programs, 1968-1969. Washington, 1968? 122 p. 1 Ag854E

## NATIONAL AGRICULTURAL LIBRARY

NAFTALIN, M. L. Historic books and manuscripts concerning horticulture and forestry in the collection of the National Agricultural Library. U. S. Natl. Agr. Libr. Libr. List 90, 106 p. June 1968. 1.916 L612

U. S. NATIONAL AGRICULTURAL LIBRARY. Serial publications indexed in the Bibliography of Agriculture. U. S. Natl. Agr. Libr. Libr. List 75,rev.,94 p. Feb.1968. 1.916 L612

## SECRETARY, OFFICE OF

U. S. DEPT. OF AGRICULTURE. OFF. CF THE SECRETARY. Agriculture in the sixties. Washington, 1966. 14 p. PREP 881

## SOIL CONSERVATION SERVICE

U. S. SOIL CONSERVATION SERV. Soil survey laboratory data and descriptions for some soils of Illinois. U. S. Soil Conserv. Serv. Soil Surv. Invest. Rep. 19,210 p.,map. Apr.1968. aS591.A2

Illinois Agricultural Experiment Station, cooperating.

U. S. SOIL CONSERVATION SERV. Soil surveys in rapidly expanding urban areas: Arkansas. Forth Worth, Texas, 1966. 16 p. PREP 243

Arkansas Agricultural Experiment Station and Arkansas University Agricultural Extension Service, cooperating.

## STATISTICAL REPORTING SERVICE

U. S. CROP REPORTING BOARD. Chickens and eggs, including broiler production, by States, 1967-68. Washington, 1968. 11 p. 1.9 Ec71Epc

U. S. CROP REPORTING BOARD. Field and seed crops: production, farm use, sales, value, by States, 1966-1967. Washington, 1968. 38 p. 1.9 Ec71Pri

U. S. CROP REPORTING BOARD. Fruits, non-citrus, by States, 1966 and 1967. I. Washington, 1968. 23 p. 1.941 H8F943

U. S. CROP REPORTING BOARD. Seed crops, by States, 1966 and 1967. Washington, 1967. 23 p. 1.9 Ec712C

### STATE AGRICULTURAL EXPERIMENT STATION PUBLICATIONS

Publications issued by the State Agricultural Experiment Stations are usually available from the issuing experiment station, except where noted, and as long as the supply lasts. The National Agricultural Library does not distribute them.

Reproductions of material not available from the various State institutions may be ordered at regular Library rates from the United States Department of Agriculture, National Agricultural Library, Photoduplication Section, Washington, D.C., 20250.

#### Arizona Agricultural Experiment Station, Tucson

PROGRESSIVE agriculture in Arizona 20(2), 24 p. Mar./Apr. 1968. 6 P9452

#### Arkansas Agricultural Experiment Station, Fayetteville

NELSON, G. S., and LINCOLN, C. Performance of airplane sprayers for insecticide applications. Ark. Agr. Exp. Sta. Bull. 730, 27 p. Apr. 1968. 100 Ar42

YORK, J. O. Arkansas grain sorghum performance tests for 1967. Ark. Agr. Exp. Sta. Mimeogr. Ser. 168, 14 p. Mar. 1968. 100 Ar42M

SMITH, R. J. Control of grass and other weeds in rice with several herbicides. Ark. Agr. Exp. Sta. Rep. Ser. 167, 38 p. Ref. Mar. 1968. 100 Ar42R

U. S. Department of Agriculture, cooperating.

#### Connecticut Agricultural Experiment Station, New Haven

HANNA, J. G. The 68th report on food products, 1963. Conn. Agr. Exp. Sta. Bull. 688, 79 p. Apr. 1968. 100 C76St

HANNA, J. G. The 69th report on food products, 1964. Conn. Agr. Exp. Sta. Bull. 689, 104 p. Apr. 1968. 100 C76St

SCHREAD, J. C. Leaf miners and their control. Conn. Agr. Exp. Sta. Bull. 693, 15 p. Apr. 1968. 100 C76St

FRONTIERS of plant science 20(2), 16 p. May 1968. 100 F92

#### Florida Agricultural Experiment Station, Gainesville

BROOKE, D. L., and SPURLOCK, A. H. Cost of harvesting snap beans by machine. Fla. Agr. Exp. Sta. Agr. Econ. Mimeo Rep. EC 68-2, 17 p. Oct. 1967. 281.9 F663

SAVAGE, Z. Movement of citrus trees from Florida nurseries, July 1, 1928 to June 30, 1967. Fla. Agr. Exp. Sta. Agr. Econ. Mimeo Rep. EC 68-3, 35 p. Oct. 1967. 281.9 F663

BROOKE, D. L. Costs and returns from vegetable crops in Florida; season 1966-1967 with comparisons. Fla. Agr. Exp. Sta. Agr. Econ. Mimeo Rep. EC 68-4, 38 p., map. Feb. 1968. 281.9 F663

#### Georgia Agricultural Experiment Stations, Athens

GEORGIA, AGRICULTURAL EXPERIMENT STATION. 1966 field crops variety trials. Ga. Agr. Exp. Sta. Res. Rep. 1, 67 p. Jan. 1967. S51.E22

TERESHKOVICH, G. Yield and physical characteristics of several vegetable crops grown in the Georgia Piedmont. Ga. Agr. Exp. Sta. Res. Rep. 22, 15 p. Mar. 1968. S51.E22

KUHN, C. W. Corn viruses in Georgia. Ga. Agr. Exp. Sta. Res. Rep. 23, 25 p., map. Ref. Mar. 1968. S51.E22

ANDERSON, R. F. Mills evaluation of Georgia cotton. Ga. Agr. Exp. Sta. Res. Rep. 24, 10 p. Apr. 1968. S51.E22

HARDCASTLE, W. S., and WILKINSON, R. E. Enhancement of postemergence herbicide applications in cotton with phytobland oil. Ga. Agr. Exp. Sta. Res. Rep. 25, 10 p. Apr. 1968. S51.E22

#### Hawaii Agricultural Experiment Station, Honolulu

KAMEMOTO, H., WILFRET, G. J., and ARAGAKI, M. 1966-1967 Chrysanthemum cultivar trials. Hawaii. Agr. Exp. Sta. Tech. Progr. Rep. 163, 13 p. Nov. 1967. 100 H313P

#### Idaho Agricultural Experiment Station, Moscow

LONG, R. B. Supply responses of dryland wheat and barley farms in southeastern Idaho to alternative market prices, 1970. Idaho. Agr. Exp. Sta. Bull. 490, 30 p., map. Mar. 1968. 100 Id14

U. S. Department of Agriculture, cooperating.

PRICE, D. A., FREDERIKSEN, K. R., and HUMPHREY, R. D. Response of ewe lambs to hay quality and feeding method. Idaho. Agr. Exp. Sta. Bull. 495, 15 p. Ref. Mar. 1968. 100 Id14

U. S. Department of Agriculture, cooperating.

HAROLDSEN, A. D., and WITHERS, R. V. Some economic problems in the dairy industry. Idaho. Agr. Res. Progr. Rep. 135, 24 p., map. Mar. 1968. S53.E2

IDAHO, AGRICULTURAL EXPERIMENT STATION. Wheat research projects, 1968 summary. Idaho. Agr. Res. Progr. Rep. 136, 26 p. Apr. 1968. S53.E2

U. S. Department of Agriculture, cooperating.

#### Illinois Agricultural Experiment Station, Urbana

ILLINOIS agricultural economics 8(1), 39 p. Jan. 1968. 281.9 IL61

ILLINOIS research 10(2), 20 p. Spring 1968. 100 IL64

#### Indiana Agricultural Experiment Station, Lafayette

INDIANA, AGRICULTURAL EXPERIMENT STATION. Inspection of herbicides in Indiana for calendar year 1966. Ind. Agr. Exp. Sta. Insp. Rep. 66, 10 p. May 1967. 280.39 In22

SCHALL, E. D., CARTER, A. S., and RUND, R. C. Inspection of commercial fertilizers, January 1 to December 31, 1966. Ind. Agr. Exp. Sta. Insp. Rep. 68, 94 p. 1966. 280.39 In22

SCHALL, E. D., SHENBERGER, L. C., and SWOPE, A. Inspection of legume inoculants and pre-inoculated seeds. Ind. Agr. Exp. Sta. Insp. Rep. 69, 7 p. Jan. 1968. 280.39 In22

SCHALL, E. D., and others. Inspection of agricultural and vegetable seeds, July 1, 1966-June 30, 1967. Ind. Agr. Exp. Sta. Insp. Rep. 70, 44 p. Jan. 1968. 280.39 In22

A. S. Carter, L. C. Shenberger, and A. Swope, joint authors.

SCHALL, E. D., and RUND, R. C. Registration and inspection of herbicides, 1967. Ind. Agr. Exp. Sta. Insp. Rep. 71, 15 p. 1967. 280.39 In22

DAY, K. M., and others. Small grain varieties for Indiana; characteristics and performance for 1963-67 and recommendations for 1968. Ind. Agr. Exp. Sta. Res. Bull. 840, 11 p., map. Jan. 1968. 100 In2P

R. K. Stivers, F. L. Patterson, O. W. Luetke-meier, W. D. Reiss, L. E. Compton, R. M. Caldwell, J. F. Schafer, J. J. Roberts, and R. L. Gallun, joint authors.

SUDDARTH, S. K. A generalized stiffness analysis of space frames. Ind. Agr. Exp. Sta. Res. Progr. Rep. 321, 21 p. Oct. 1967. 100 In2Res

INDIANA, AGRICULTURAL EXPERIMENT STATION. Annual crop summary, 1966. Ind. Crops Livestock 499, 37 p. Dec. 1966. 252.25 Ag8

U. S. Department of Agriculture, cooperating.

INDIANA, AGRICULTURAL EXPERIMENT STATION. Annual livestock summary, 1967. Ind. Crops Livestock 500, 39 p. Feb. 1967. 252.25 Ag8

U. S. Department of Agriculture, cooperating.



Iowa Agricultural and Home Economics Experiment Station, Ames

HILLSON, M. T., and HUTCHCROFT, C. D. 1967 Iowa corn yield test. Iowa Agr. Home Econ. Exp. Sta. Res. Bull. 138,23 p.,map. Feb.1968. 100 Io9

Iowa Crop Improvement Association, Iowa State University of Science and Technology Cooperative Extension Service, and U. S. Department of Agriculture, cooperating.

Louisiana Agricultural Experiment Station, University Station, Baton Rouge

LOUISIANA agriculture 11(3),16 p. Spring 1968. 100 L939

Maine Agricultural Experiment Station, Orono

YEH, C. J. Maine egg marketing. Maine Agr. Exp. Sta. Bull. 655,27 p. Nov.1967. 100 M28S

CARPENTER, P. N., and others. A critical evaluation of results from spectrographic analysis of plant tissue. Maine Agr. Exp. Sta. Tech. Bull. T30,12 p. Feb.1968. 100 M28B

A. Ellis, H. E. Young, and T. E. Byther, joint authors.

--

--

Maryland Agricultural Experiment Station, College Park

MURRAY, R. A., and CISSEL, E. I. The transfer of farm and open country real estate in Prince Georges County, Maryland, 1964. Md. Agr. Exp. Sta. Misc. Publ. 631,33 p.,map. Aug. 1967. 100 M36M

MURRAY, R. A., and CISSEL, E. I. The transfer of farm and open country real estate in Somerset County, Maryland, 1964. Md. Agr. Exp. Sta. Misc. Publ. 647,29 p.,map. Oct.1967. 100 M36M

MURRAY, R. A., and CISSEL, E. I. The transfer of farm and open country real estate in Talbot County, Maryland, 1964. Md. Agr. Exp. Sta. Misc. Publ. 648,25 p.,map. Nov.1967. 100 M36M

MURRAY, R. A., and CISSEL, E. I. The transfer of farm and open country real estate in Wicomico County, Maryland, 1964. Md. Agr. Exp. Sta. Misc. Publ. 655,29 p.,map. Nov.1967. 100 M36M

Minnesota Agricultural Experiment Station, St. Paul Campus, St. Paul 1

MINNESOTA. AGRICULTURAL EXPERIMENT STATION. The management factor in farming: An evaluation and summary of research. Minn. Agr. Exp. Sta. Tech. Bull. 258,31 p. Ref. Mar. 1968. 100 M66

Agricultural Experiment Stations of Alaska, Illinois, Indiana, Iowa, Kansas, Michigan, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin; and U. S. Department of Agriculture, cooperating.

MINNESOTA. AGRICULTURAL EXPERIMENT STATION. The [University of Minnesota] Landscape Arboretum, a report of progress—1967. Minn. Agr. Exp. Sta. Misc. Rep. 81,38 p.,map. 1968. 100 M66

Mississippi Agricultural Experiment Station, State College

COATS, G. E. Effects of growth regulators on germinating cotton. Miss. Agr. Exp. Sta. Bull. 752,8 p. Nov.1967. 100 M69

SOLLIE, C. R. Factors related to use of recommended forestry practices in five Mississippi counties. Miss. Agr. Exp. Sta. Bull. 753,7 p. Dec.1967. 100 M69

MISSISSIPPI farm research 30(10),8 p. Oct. 1967. 100 M69Mi

MISSISSIPPI farm research 31(5),8 p. May 1968. 100 M69Mi

MISSISSIPPI farm research 31(6),8 p. June 1968. 100 M69Mi

Missouri Agricultural Experiment Station, Columbia

BJUGSTAD, A. J., and DALRYMPLE, A. V. Behavior of beef heifers on Ozark ranges. Mo. Agr. Exp. Sta. Bull. 870,15 p. Ref. Apr.1968. 100 M693

TURNER, C. W. What causes high milk production: Story of the role of the thyroid glands in milk secretion. Mo. Agr. Exp. Sta. Bull. 871,23 p. Ref. Apr.1968. 100 M693

Montana Agricultural Experiment Station, Bozeman

COLEMAN, K. L., and DRUMMOND, J. Characteristics of pooled Montana wool. Mont. Agr. Exp. Sta. Bull. 612,25 p. May 1967. 100 M76

COOPER, C. S., ROATH, C. W., and ESLICK, R. F. Red clover hay production in Montana. Mont. Agr. Exp. Sta. Bull. 615,7 p. Apr.1967. 100 M76

MYRIC, D., and others. Crop insurance in the Great Plains. Mont. Agr. Exp. Sta. Bull. 617, 96 p. July 1967. 100 M76

D. Larson, L. Loftsgard, O. Walker, C. Cox, J. Shipley, and R. Cole, joint authors. Also Great Plains Agricultural Council Publication No. 28.

PAYNE, G. F., TAYLOR, J. E., and WHITMER, D. E. Distribution of dense clubmoss (*Selaginella densa* Rydb.) in Montana. Mont. Agr. Exp. Sta. Circ. 247,6 p.-folder.,map. Ref. Aug.1967. 100 M76

New Mexico Agricultural Experiment Station, University Park

MALM, N. R., and others. Performance of sorghum hybrids, 1967. N. Mex. Agr. Exp. Sta. Res. Rep. 139, 20 p. Feb. 1968. 100 N465R  
C. E. Watson, D. H. Williams, and C. E. Barnes, joint authors.

New York (Cornell) Agricultural Experiment Station, Ithaca

COPPOCK, C. E., and STONE, J. B. Corn silage in the ration of dairy cattle; a review. N. Y. (Cornell) Agr. Exp. Sta. Cornell Misc. Bull. 89, 36 p. Mar. 1968. 275.29 N48Cm

New York (State) Agricultural Experiment Station, Geneva

ROBINSON, W. B., and others. 1966 vineyard and cellar notes. N. Y. (State) Agr. Exp. Sta. Res. Circ. 9, 21 p. Dec. 1967. 100 N48R  
J. Einset, K. H. Kimball, and J. J. Bertino, joint authors.

FARM research 32(4), 16 p. Jan./Mar. 1967. 100 N48A

North Carolina Agricultural Experiment Station, State College Station, Raleigh

TOBACCO abstracts 12(6):343-422. June 1968. 241 T55

North Dakota Agricultural Experiment Station, State College Station, Fargo

NORTH Dakota farm research 25(4), 16 p. Mar./Apr. 1968. 100 N813B

Oregon Agricultural Experiment Station, Corvallis

OREGON'S agricultural progress 15(1), 16 p. Spring 1968. 100 Or3Or

Rhode Island Agricultural Experiment Station, Kingston

SPAULDING, I. A. Household water use and social status. R. I. Agr. Exp. Sta. Bull. 392, 32 p. Dec. 1967. 100 R34S

RORHOLM, N., and others. Economic impact of marine-oriented activities; a study of the southern New England marine region. R. I. Agr. Exp. Sta. Bull. 396, 132 p., map. Ref. 1968? 100 R34S  
H. C. Lampe, N. Marshall, and J. F. Farrell, joint authors.

RHODE Island agriculture 14(2), 9 p. Apr. 1968. 100 R342

South Carolina Agricultural Experiment Station, Clemson

ESKEW, E. B. Performance of grain sorghum hybrids in South Carolina. S. C. Agr. Exp. Sta. Agron. Soils Res. Ser. 66, 13 p. Mar. 1968. 56.9 So84

ESKEW, E. B. Performance of cotton varieties in South Carolina. S. C. Agr. Exp. Sta. Agron. Soils Res. Ser. 68, 28 p. Apr. 1968. 56.9 So84

Texas Agricultural Experiment Station, College Station

TEXAS. AGRICULTURAL EXPERIMENT STATION. Higgins buffelgrass. Tex. Agr. Exp. Sta. L-731, 4 p., map. Feb. 1968. 275.29 T313

TEXAS agricultural progress 14(2), 20 p. Spring 1968. 100 T31Te

Utah Agricultural Experiment Station, Logan

UTAH science 29(1), 28 p. Mar. 1968. 100 Ut1F

Vermont Agricultural Experiment Station, Burlington

VERMONT farm and home science 10(3), 12 p. Spring 1968. 100 V593



## REGIONAL PUBLICATIONS

Southern Cooperative SeriesNorth Central Region

MINNESOTA. AGRICULTURAL EXPERIMENT STATION. The management factor in farming: An evaluation and summary of research. Minn. Agr. Exp. Sta. Tech. Bull. 258, 31 p. Ref. Mar. 1968. 100 M66

Agricultural Experiment Stations of Alaska, Illinois, Indiana, Iowa, Kansas, Michigan, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin; and U. S. Department of Agriculture, cooperating.

Also North Central Regional Research Publication No. 184.

MULLINS, T., and others. Resource use adjustments in Southern rice areas. II. Effects of price changes with selected rice allotment levels. S. Coop. Ser. Bull. 131, 38 p., map. May 1968. 100 G29So

B. Hottel, J. R. Campbell, A. R. Gerlow, W. R. Grant, and D. E. Welsch, joint authors. Agricultural Experiment Stations of Arkansas, Louisiana, Mississippi, and Texas; and U. S. Department of Agriculture, cooperating.

STATE AGRICULTURAL EXTENSION SERVICE  
PUBLICATIONS

Publications issued by the State Agricultural Extension Service are usually available from the issuing extension service, except where noted, and as long as the supply lasts. The National Agricultural Library does not distribute them.

Reproductions of material not available from the various State institutions may be ordered at regular Library rates from the United States Department of Agriculture, National Agricultural Library, Photoduplication Section, Washington, D.C., 20250.

ALABAMA - Auburn University, Agricultural Extension Service, Auburn

- JONES, R. S., and PARRISH, J. R. Using urea in dairy rations. Auburn Univ. Ext. Circ. A-25,6 p.-folder. Aug.1967. 275.29 AL14C
- FARRAR, L. L., SELF, R. L., and THORN-HILL, H. B. Boxwood disease control & cultural practices. Auburn Univ. Ext. Circ. P-36, 6 p.-folder. June 1967. 275.29 AL14Cp
- CHAPMAN, L. J. Cotton handbook for Alabama. Auburn Univ. Ext. Circ. P-42,11 p. Mar.1968. 275.29 AL14Cp
- ANDREWS, O. N. Wheat production on Alabama farms. Auburn Univ. Ext. Circ. P-78,6 p.-folder. Aug.1967. 275.29 AL14Cp
- SMITH, P. M. Growing watermelons. Auburn Univ. Ext. Circ. P-80,6 p.-folder. Jan.1968. 275.29 AL14Cp
- SMITH, P. M., LEEPER, R., and FARRAR, L. Irish potato production. Auburn Univ. Ext. Circ. P-81,8 p.-folder. Dec.1967. 275.29 AL14Cp
- BOND, D. Peanut production guide for Alabama. Auburn Univ. Ext. Circ. P-82,19 p. Dec.1967. 275.29 AL14Cp

FLORIDA University, Agricultural Extension Service, Gainesville

- BROGDON, J. E., LAWRENCE, F. P., and MULLIN, R. S. Control of insects and diseases of dooryard citrus trees. Fla. Univ. Ext. Circ. 139D,19 p. Apr.1968. 275.29 F66C
- LAWRENCE, F. P. Planting and care of young citrus. Fla. Univ. Ext. Circ. 238A,24 p. Feb. 1968. 275.29 F66C

GEORGIA University, College of Agriculture, Extension Service, Athens

- JOHNSON, J. R. Pastures in Georgia. Ga. Univ. Ext. Bull. 573,rev.,62 p.,map. Sept.1967. 275.29 G29B
- LIVINGSTON, R. L., FLETCHER, R. S., and ALMAND, D. Pecans in Georgia. Ga. Univ. Ext. Bull. 609,rev.,24 p.,map. Oct.1967. 275.29 G29B
- HARRIS, E. D., and MCGLOHON, N. E. Georgia peach disease and insect control guide. Ga. Univ. Ext. Bull. 630,rev.,16 p. Jan.1968. 275.29 G29B
- MILLER, J. F., and others. Weed control in field crops, 1968. Ga. Univ. Ext. Circ. 408, rev.,12 p.-folder. Jan.1968. 275.29 G29C
- J. F. McGill, W. H. Gurley, J. E. Jackson, J. E. Jernigan, and J. R. Johnson, joint authors.
- MILLER, J. F., and others. Weed control in vegetable crops, 1968. Ga. Univ. Ext. Circ. 544,rev.,8 p.-folder. Jan.1968. 275.29 G29C
- J. M. Barber, D. A. Hegwood, and R. L. Livingston, joint authors.
- MILLER, J. F., SPIVEY, C. D., and LIVINGSTON, R. L. Weed control in fruit crops, 1968. Ga. Univ. Ext. Circ. 569,rev.,8 p.-folder. Jan. 1968. 275.29 G29C
- THOMPSON, S. S. Disease control in tobacco plant beds. Ga. Univ. Ext. Leaflet. 19,rev.,8 p.-folder. Dec.1967. 275.29 G29L

THOMPSON, S. S. Controlling nematodes on flue-cured tobacco. Ga. Univ. Ext. Leaflet. 24, rev.,12 p.-folder. Jan.1968. 275.29 G29L

HARRIS, E. D. Okra insects and their control. Ga. Univ. Ext. Leaflet. 78,8 p.-folder. Nov.1967. 275.29 G29L

COLEMAN, V. R. Camellia insect control. Ga. Univ. Ext. Leaflet. 79,6 p.-folder. Dec.1967. 275.29 G29L

HAWAII University, Agricultural Extension Service, Honolulu

HARRELL, G. P. Zippers. Hawaii. Univ. Ext. Home Econ. Circ. 352,11 p. Mar.1968. 275.29 H312H

HARRELL, G. P. Well-fitted pants. Hawaii. Univ. Ext. Home Econ. Circ. 354,11 p. Feb. 1968. 275.29 H312H

HAWAII FERTILIZER CONFERENCE. Proceedings, first annual [conference]. Hawaii. Univ. Ext. Misc. Publ. 39,41 p. Ref. Mar. 1967. S544.3 H3H3

IDAHO University, College of Agriculture, Extension Service, Moscow

KOLAR, J. J., ROYLANCE, H. B., and RIDLEY, J. R. Cultural practices in alfalfa seed production. Idaho. Univ. Ext. Idaho. Curr. Inform. Ser. 65,3 p. Feb.1968. 275.29 Id13Idc

BROWN, J. W., and LEBARON, M. Zinc fertilizers for beans in southern Idaho. Idaho. Univ. Ext. Idaho Curr. Inform. Ser. 66,2 p. Mar. 1968. 275.29 Id13Idc

ROYLANCE, H. B. Chemical curing of alfalfa seed crops. Idaho. Univ. Ext. Idaho. Curr. Inform. Ser. 69,2 p. Mar.1968. 275.29 Id13Idc

PORTMAN, R. W., and CLEVELAND, G. W. 1968 fly control for Idaho dairymen. Idaho. Univ. Ext. Idaho. Curr. Inform. Ser. 70,2 p. Apr.1968. 275.29 Id13Idc

IOWA. STATE UNIVERSITY OF SCIENCE AND TECHNOLOGY. COLLEGE OF AGRICULTURE. DEPT. OF BOTANY AND PLANT PATHOLOGY. Dutch elm disease and community decisions. Idaho. Univ. Ext. Idaho. Curr. Inform. Ser. 71,6 p.-folder. Apr.1968. 275.29 Id13Idc

Iowa State University of Science and Technology, College of Agriculture, Department of Entomology and Wildlife, cooperating.

GUNDERSON, H., STOCKDALE, H., and EPSTEIN, A. H. Dutch elm disease; chemical protection against elm bark beetles. Idaho. Univ. Ext. Idaho. Curr. Inform. Ser. 72,2 p. Apr.1968. 275.29 Id13Idc

O'KEEFFE, L. E. 1968 controls for alfalfa weevil [*Hypera postica*]. Idaho. Univ. Ext. Idaho. Curr. Inform. Ser. 73,2 p. Apr.1968. 275.29 Id13Idc

HEMSTROM, M. L. Beet tops as livestock feed. Idaho. Univ. Ext. Idaho. Curr. Inform. Ser. 74,2 p. Apr.1968. 275.29 Id13Idc

TORELL, P. J. 10 treatments for controlling dodder in alfalfa seed fields. Idaho. Univ. Ext. Idaho. Curr. Inform. Ser. 75,4 p. Apr.1968. 275.29 Id13Idc

BISHOP, G. W., and O'KEEFFE, L. E. Potato leaf roll and the green peach aphid in 1968. Idaho. Univ. Ext. Idaho. Curr. Inform. Ser. 76, 4 p. Apr.1968. 275.29 Id13Idc

FENWICK, H. S., and OHMS, R. E. Root-knot nematode [*Meloidogyne*] in potatoes. Idaho. Univ. Ext. Idaho. Curr. Inform. Ser. 77,2 p. Apr.1968. 275.29 Id13Idc

ILLINOIS University, Cooperative Extension Service in Agriculture and Home Economics, Urbana

DILLON, J. E., and others. 1967 soybean variety performance in Illinois. Ill. Univ. Ext. Circ. 978,10 p.,map. Feb.1968. 275.29 IL62C

R. L. Bernard, D. W. Graffis, and W. O. Scott, joint authors.



ZYCH, C. C., and POWELL, D. Commercial production of strawberries in Illinois. Ill. Univ. Ext. Circ. 983, 63 p. Ref. Apr. 1968. 275.29 IL62C

KENTUCKY University, Agricultural Extension Service, Lexington

MASSIE, I. E., EVERETTE, G. A., and SMILEY, J. H. Burley tobacco production. Ky. Univ. Ext. Circ. 616, 68 p. Jan. 1968. 275.29 K415

VARNEY, W. Y. Curing and aging country-style hams under controlled conditions. Ky. Univ. Ext. Circ. 617, 8 p. Jan. 1967. 275.29 K415

JOHNSON, E. H. Meat cookery. Ky. Univ. Ext. H.E. 3-116, 20 p. Feb. 1968. 275.29 K415H

JOHNSON, E. H. Food for the traveling family. Ky. Univ. Ext. H.E. 3-218, 12 p. Feb. 1968. 275.29 K415H

BURRIER, S., and PIERCE, J. A. Parties with light refreshments. Ky. Univ. Ext. H.E. 3-220, 10 p. Feb. 1968. 275.29 K415H

PHILLIPS, S. H., and SHANE, J. F. Growing soybeans in Kentucky. Ky. Univ. Ext. Leaflet. 178-D, rev., 8 p.-folder. Jan. 1968. 275.29 K415Le

BUCKNER, R. C., and THOMPSON, W. C. Grass seed production. Ky. Univ. Ext. Leaflet. 246-A, rev., 4 p. Jan. 1968. 275.29 K415Le

THOMPSON, W. C., and BUCKNER, R. C. Growing Clair timothy. Ky. Univ. Ext. Leaflet. 252-A, rev., 4 p. Jan. 1968. 275.29 K415Le

WALLACE, R. Fabric tips; permanent press. Ky. Univ. Ext. Leaflet. 309, 6 p.-folder. Mar. 1968. 275.29 K415Le

ZIMMERMAN, W. H., and BAILEY, H. H. Soil surveys help all people. Ky. Univ. Ext. Leaflet. 311, 6 p.-folder, map. Feb. 1968. 275.29 K415Le

Published jointly with Kentucky Agricultural Experiment Station.

BROWNING, W., and ALLEN, S. Q. Kentucky agricultural outlook for 1968. Ky. Univ. Ext. Misc. 138-1, 19 p. Jan. 1968. 275.29 K415M

KENTUCKY UNIVERSITY, AGRICULTURAL EXTENSION SERV. 1968 insecticide recommendations for tobacco beds. Ky. Univ. Ext. Misc. 251-F, rev., 1 p. Jan. 1968. 275.29 K415M

SCHEIBNER, R. A., and KNAPP, F. W. 1968 insecticide recommendations for lactating dairy animals. Ky. Univ. Ext. Misc. 256-E, 2 p. Jan. 1968. 275.29 K415M

SCHEIBNER, R. A., and PASS, B. 1968 insecticide recommendations for field corn, small grains, grain sorghum, and bluegrass. Ky. Univ. Ext. Misc. 278-E, rev., 2 p. Mar. 1968. 275.29 K415M

SCHEIBNER, R. A. Sod webworms [Crambus] and their control. Ky. Univ. Ext. Misc. 363, 3 p. Feb. 1968. 275.29 K415M

MARYLAND University, Cooperative Extension Service, College Park

NEWCOMER, J. L., and PAROCHETTI, J. V. Noxious weeds in Maryland. Md. Univ. Ext. Bull. 221, 11 p. Jan. 1968. 275.29 M36B

GOUIN, F. R. Yews [Taxus] in your landscape. Md. Univ. Ext. Fact Sheet 194, 4 p. Nov. 1967. 275.29 M36Fa

GOUIN, F. R. Chinese hollies [Ilex cornuta]. Md. Univ. Ext. Fact Sheet 200, 2 p. Jan. 1968. 275.29 M36Fa

GOUIN, F. R. Winterizing plants. Md. Univ. Ext. Fact Sheet 201, 2 p. Jan. 1968. 275.29 M36Fa

MICHIGAN State University of Agriculture and Applied Science, Cooperative Extension Service, East Lansing

HOWES, R. N., and KYLE, L. R. High sugar beet acreage analysis study of telfarm cooperators for 1966. Mich. State Univ. [Ext.] Agr. Econ. Rep. 86, 8 p. Nov. 1967. 281.9 M5842

ZEHNER, M. D., and LARZELERE, H. E. Imitation milk as viewed by a consumer panel. Mich. State Univ. [Ext.] Agr. Econ. Rep. 92, 10 p. Apr. 1968. 281.9 M5842

MINNESOTA University, Agricultural Extension Service, St. Paul

FISHER, S., and others. Television and the child. Minn. Univ. Ext. Bull. 321-8, 2 p. Mar. 1968. 275.29 M66S

R. Pitzer, N. Gallagher, and C. Fredrickson, joint authors.

JORDAN, R. M. Selecting your horse. Minn. Univ. Ext. Bull. 351, 16 p. 1968. 275.29 M66S

TURNQUIST, O. C. Vegetable varieties, 1968. Minn. Univ. Ext. Folder 154, 15 p., map. Mar. 1968. 275.29 M66Ex

OTTO, H. J., and others. Crop production guide for Minnesota. Minn. Univ. Ext. Pam. EP 194, rev., chart, map. 1967. 275.29 M66P

J. R. Justin, G. R. Miller, C. J. Overdahl, and L. D. Hanson, joint authors.

RYAN, D. M. Feed bunks for automatic conveyors. Minn. Univ. Ext. M-142, rev., Apr. 1968. 275.29 M66Ps

MONTANA State College, Cooperative Extension Service, Bozeman

PEACE, E., and SHAW, A. Ergot. Mont. State Univ. Ext. Circ. 294, 8 p. Nov. 1967. 275.29 M76Ci

SHAW, A. F., MCNEAL, F. H., and WATSON, C. A. Fortuna spring wheat. Mont. State Univ. Ext. Folder 91, 6 p.-folder, map. Feb. 1968. 275.29 M76FoL

NEW YORK - Cornell University, State College of Agriculture, Extension Service, Ithaca

CORNMAN, J. F. Home lawns. Cornell Univ. Ext. Cornell Ext. Bull. 922, 31 p. May 1968. 275.29 N48E

DICKSON, A., and WINCH, F. E. Plantation production of Christmas trees in New York. Cornell Univ. Ext. Cornell Ext. Bull. 1204, 26 p. May 1968. 275.29 N48E

ALEXANDER, F. D. Evaluation of Family Service Program, Home Economics Division of Cooperative Extension, Clinton County, New York. Cornell Univ. Ext. Ext. Stud. 15, 143 p. Sept. 1967. 275.29 N48Ex

NORTH CAROLINA University, Extension Service, State College Station, Raleigh

ORR, N. L., and RAVER, D. Mountain crout. N. C. Univ. Ext. Ext. Circ. 487, 19 p. Feb. 1968. 275.29 N811

NICHOLS, T. E. Moisture discounts in grain. N. C. Univ. Ext. Ext. Circ. 488, 12 p. Feb. 1968. 275.29 N811

HAWKS, S. N., and others. Field irrigation of tobacco. N. C. Univ. Ext. Ext. Circ. 491, 29 p. Apr. 1968. 275.29 N811

W. K. Collins, H. Ross, R. E. Sneed, and J. G. Allgood, joint authors.

LINER, H. L., and HUGHES, G. R. Cost and returns from producing snap beans for processing. North Carolina, 1967. N. C. Univ. Ext. Ext. Circ. 492, 10 p. Mar. 1968. 275.29 N811

HARWOOD, D. G., PASOUR, E. C., and STIPE, S. H. Will farm recreational enterprises pay? N. C. Univ. Ext. Ext. Circ. 497, 9 p. Apr. 1968. 275.29 N811

ROBERTSON, R. L. Wireworm [Conoderus] control in tobacco in North Carolina. N. C. Univ. Ext. Ext. Folder 249, rev., 4 p. Mar. 1968. 275.29 N811Ex

BARRIER, D. L. Techniques for tailoring. N. C. Univ. Ext. Home Econ. Ser. 82, 12 p. Feb. 1968. 275.29 N811Hom

ORR, N. Brief instructions for freezing vegetables. N. C. Univ. Ext. Home Econ. Ser. 86, 4 p. Apr. 1968. 275.29 N811Hom

LEWIS, W. M., and others. Chemical weed control information for North Carolina, 1968. N. C. Univ. Ext. Leaflet. 124,41 p. Feb. 1968. 275.29 N811L

A. B. Rogerson, A. D. Worsham, T. W. Waldrep, W. A. Skroch, and T. J. Monaco, joint authors.

OREGON State University, Federal Cooperative Extension Service, Corvallis

JONES, S. C., EVERY, R. W., and MACSWAN, I. C. 1968 spray program for stone fruits in Oregon. Oreg. State Univ. Ext. Ext. Circ. 675, rev., 23 p. Apr. 1968. 275.29 Or32C

JONES, S. C., EVERY, R. W., and MACSWAN, I. C. 1968 spray program for apples and pears in the Willamette Valley. Oreg. State Univ. Ext. Ext. Circ. 677, rev., 18 p. Apr. 1968. 275.29 Or32C

RHODE ISLAND University, Extension Service in Agriculture and Home Economics, Kingston

HINDLE, R. J., and KITCHIN, J. T. Planting or transplanting trees and shrubs. R. I. Univ. Ext. Mimeogr. Circ. 142, 12 p. June 1967. 275.29 R34M

DUFF, D. T. Lawn planning and construction. R. I. Univ. Ext. Mimeogr. Circ. 159, 8 p.-folder. May 1968. 275.29 R34M

SOUTH CAROLINA - Clemson University, Extension Service, Clemson

NETTLES, W. C., and SPARKS, L. M. Cotton insect control recommendations, South Carolina, 1968. Clemson Univ. Ext. Inform. Card 97, rev., 25 p. Mar. 1968. 275.29 So8I

SOUTH DAKOTA State University, Cooperative Extension Service, Brookings

KURTZ, E. U. Raising dairy calves. S. Dak. State Univ. Ext. FS 377, 3 p. Nov. 1967. 275.29 So85Fs

UTAH State University, Agricultural Extension Service, Logan

ROBERTS, R. S. Report on mercury-tested seed wheat. Utah. State Univ. Ext. Entomol. Newslett. 23, 1 p. May 20, 1966. SB933.A1U8

ROBERTS, R. S. Notes on the mosquitoes of Rich County. Utah. State Univ. Ext. Entomol. Newslett. 31, 2 p. Sept. 1966. SB933.A1U8

ROBERTS, R. S. Notes on the mosquitoes of Rich County. Utah. State Univ. Ext. Entomol. Newslett. 32, 3 p. Sept. 1966. SB933.A1U8

ROBERTS, R. S. Notes on the mosquitoes of Cache County. Utah. State Univ. Ext. Entomol. Newslett. 33, 4 p. Sept. 1966. SB933.A1U8

ROBERTS, R. S. Utah's poison control center. Utah. State Univ. Ext. Pestic. Ser. 10, rev., 1 p. July 1966. SB951.A1U8

ROBERTS, R. S., and KNOWLTON, G. F. Poisoning cases—the national picture. Utah. State Univ. Ext. Pestic. Ser. 15, 1 p. Apr. 1966. SB951.A1U8

KNOWLTON, G. F., and ROBERTS, R. S. Poisoning cases—the national picture. Utah. State Univ. Ext. Pestic. Ser. 23, 2 p. Sept. 1966. SB951.A1U8

VERMONT University, Agricultural Extension Service, Burlington

VERMONT. UNIVERSITY. AGRICULTURAL EXTENSION SERV. Vermont farm & home publications. Rev. Burlington, 1967. 25 p. 275.29 V59Vf

VIRGINIA Polytechnic Institute, Agricultural Extension Service, Blacksburg

BRAGG, D. D., and LUCKHAM, W. R. What can be expected from a good commercial egg enterprise in Virginia? Va. Polytech. Inst. Ext. Circ. 1005, 14 p. Feb. 1968. 275.29 V81C

PATTON, S. J. Leader's guide; 4-H demonstrations and illustrated talks. Va. Polytech. Inst. Ext. Circ. 1040, 10 p. Oct. 1967. 275.29 V81C

WAMPLER, K. W. You and tots. II. Va. Polytech. Inst. Ext. Circ. 1046, 15 p. Oct. 1967. 275.29 V81C

HOLCOMB, C. J., and MCELFFRESH, W. A. How trees get their names. Va. Polytech. Inst. Ext. Leaflet. 118, rev., 7 p. Dec. 1967. 275.29 V81L

PORTER, M. A. Food for older folks. Va. Polytech. Inst. Ext. Leaflet. 132, rev., 4 p. Jan. 1968. 275.29 V81L

KATES, A. H. 1968 herbicide recommendations; weed control in peanuts. Va. Polytech. Inst. Ext. Leaflet. 234, rev., 2 p. Apr. 1968. 275.29 V81L

KATES, A. H. Control of curled and musk thistle [Carduus acanthoides and C. nutans] with 2, 4-D. Va. Polytech. Inst. Ext. Leaflet. 328, 4 p., map. Jan. 1968. 275.29 V81L

WASHINGTON State University, Extension Service, Pullman

KALIN, E. W. Holiday plants and their care. Wash. State Univ. Ext. E. M. 500, rev., 2 p. Mar. 1968. 275.29 W27Mi

WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; sheep, lambs and wool. Wash. State Univ. Ext. E. M. 2388, rev., 2 p. Mar. 1968. 275.29 W27Mi

WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; hogs. Wash. State Univ. Ext. E. M. 2389, rev., 2 p. Feb. 1968. 275.29 W27Mi

WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; cattle. Wash. State Univ. Ext. E. M. 2390, rev., 2 p. Feb. 1968. 275.29 W27Mi

JOHNSON, J. B. 4-H beef carcass judging guide. Wash. State Univ. Ext. E. M. 2628, rev., 12 p. Jan. 1968. 275.29 W27Mi

DORAN, S. M. Rates for custom work in irrigated central Washington. Wash. State Univ. Ext. E. M. 2701, rev., 7 p. Apr. 1968. 275.29 W27Mi

CHASE, D. W. Basic information about man-made fibers. Wash. State Univ. Ext. E. M. 2792, rev., 11 p. May 1968. 275.29 W27Mi

HALVORSON, A. R. Exchangeable cations, cation exchange capacity and base saturation and its relationship to soil fertility. Wash. State Univ. Ext. E. M. 2894, rev., 5 p. Mar. 1968. 275.29 W27Mi

MORRISON, K. J., and EVANS, D. W. Washoe alfalfa. Wash. State Univ. Ext. E. M. 2898, 2 p. Feb. 1968. 275.29 W27Mi

MORRISON, K. J., and BRUEHL, G. W. Cayuse oats. Wash. State Univ. Ext. E. M. 2899, 2 p. Feb. 1968. 275.29 W27Mi



DORAN, S. M., KULP, E. L., and FORSTER, E. M. Seed peas; estimated costs and returns, Columbia Basin, Washington. Wash. State Univ. Ext. E. M. 2901, 8 p. Mar. 1968. 275.29 W27Mi

DODGE, J. C. Grower's guide for vegetable crops; cabbage. Wash. State Univ. Ext. E. M. 2925, 5 p. Apr. 1968. 275.29 W27Mi

## REGIONAL PUBLICATIONS

Pacific Northwest

BOYD, L. D. 4-H dairy science. PNW (Pacific Northwest Coop. Ext.) Bull. 91, 48 p. May 1967. 275.29 W27Pn

Joint publication of the Extension Services of Washington, Oregon, and Idaho.

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS

Includes publications received in the Library during the preceding month.

AGRICULTURAL commodity projections for 1975 and 1985. Food Agr. Organ U. N. Mon. Bull. Agr. Econ. Statist. 16(12), 41 p. Dec. 1967. 251 F73Mb

FAO LIBRARY list of recent accessions, Jan. 1968, 38 p. 241 F7322

FAO REVIEW 1(1), 66 p. Jan./Feb. 1968. TX341.F63

FARM management notes for Asia and the Far East. Farm Manage. Notes Asia Far East 4(1), 47 p. Jan. 1968. 281.8 F2228

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Fisheries in the food economy. Freedom Hunger Campaign. Basic Study 19, 79 p. Ref. 1968. 389 F872

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. National grain policies 1967. Rome, 1968. 136 p. 281.3599 F732

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. COMMITTEE ON THE CONTROL OF THE SUNN PEST OF CEREALS. Report of the second session held in Teheran, Iran, 18-25 April 1966. Rome, 1966. 21 p. Ref. (Meeting Report No. PL/1966/M/4) SB608.G6F6

JACOBY, E. H. Agrarian reconstruction. Freedom Hunger Campaign. Basic Study 18, 82 p. 1968. 389 F872

MONTHLY bulletin of agricultural economics and statistics 17(2), 57 p. Feb. 1968. 251 F73Mb

RINEY, T. Conservation and management of African wildlife. Rome, Food and Agriculture Organization of the United Nations, 1967. 35 p. (African Special Project) S964.A3R5

Sponsored by the Food and Agriculture Organization of the United Nations and the International Union for the Conservation of Nature and Natural Resources.

\*SAKOFF, A. N. Production brigades: organizational basis of farm work in the U.S.S.R. Food Agr. Organ. U. N. Mon. Bull. Agr. Econ. Statist. 17(1), 45 p. Jan. 1968. 251 F73Mb







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No. 10

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**AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY**

References on farm structures and rural housing are classified with Agricultural Engineering.

**GENERAL**

- 88268 ANDERSEN, H. V. The agricultural economy in times of crisis. (Da) Landbonyt 22(1):34-37. Jan.1968. 11 L2322  
In Denmark.
- 88269 ANDERSEN, H. V. Economic survey of Danish agriculture: Danish agriculture has become a deficit business. (Da) Dansk Landbrug 86(12):296-301. Dec.1967. 280.28 V91
- 88270 ANDRADE, A. C. DE. Report on the human resources programs of the Superintendency of Northeast Development (SUDENE) [Superintendencia do Desenvolvimento do Nordeste]. (Sp) SUDENE (Supt. Desenvolvimento Nordeste) Bol. Econ. 11(3):25-51. Oct./Dec.1966. HC186.A1S92  
Agricultural planning included.
- 88271 BADINAND, B. The economic situation in Niger. (Fr) Agron. Trop. [Paris] 22(10):1037-1040. Oct.1967. 26 Ag86
- 88272 BAGLEY, E. S. Agriculture and the business cycle. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., May 16,1967,2 p. HD9004.A1K3
- 88273 BANDINI, M. Aspects of agricultural development. (It) Riv. Econ. Agr. 21(6):3-8. 1966. 281.8 R52  
Economic development.
- 88274 BANK OF ISRAEL, Annual report 1966. Jerusalem, 1967. 546 p. 284.9 B2252  
Includes a chapter on the economic situation in agriculture.
- 88275 BATHE, R. D. Peru - between tradition and progress. (Ge) Mitt. Deut. Landwirt.-Ges. 82(49):1631-1634. Dec.7,1967. 18 N39  
Land reform plans, production, farming.
- 88276 BENEDICT, J., and HUMBERT, R. Basic data on the economy of Portugal. Overseas Bus. Rep. OBR-66-92,11 p.,map. Dec.1966. 157.54 Ov2  
Agricultural economy included.
- 88277 BERGMANN, T. The cultivator in the collective farm—socio-economic characteristics and problems. (Ge) Sociol. Ruralis 8(1):22-47. Ref. 1968. 281.29 So12  
English summary.
- 88278 BIRD, A. R., and MCCOY, J. L. White Americans in rural poverty. U. S. D. A. Agr. Econ. Rep. 124,18 p.,map. Ref. Nov.1967. A281.9 Ag8A  
Economic and social conditions.
- 88279 BUKUROVIC, J. Some economic and demographic characteristics of the Mediterranean region of Yugoslavia. (Fr) Mediterranea 17:43-54. Jan.1968. 281.8 M462  
English summary.
- 88280 CANCELLARA, E. The economic and social progress of Eritrea. (It) Ital. Agr. 105(3):245-267,map. Mar.1968. 16 It1
- 88281 CARREL, J. Management and the politics of agriculture. (Fr) France Min. Agr. Bull. Tech. Inform. 222:613-620. Sept.1967. 14 F844B  
Economics and policy in France.
- 88282 CAVALCANTI, C. DE. V. Conditions for the development of the Jaguaribe Valley: the task of SUDENE. (Por) SUDENE (Supt. Desenvolvimento Nordeste) Bol. Econ. 11(3):109-127. Oct./Dec.1966. HC186.A1S92  
Includes the rural economy.
- 88283 CHRISTENSEN, R. L. The nature of decision making. J. Coop. Ext. 6(1):23-28. Spring 1968. 275.28 J82  
In agribusiness firms.
- 88284 ELLIOTT, C. M. The process of economic development. In Warley, T. K., ed. Agricultural producers and their markets, p.3-30. 1967. HD9000.1.W3
- 88285 ELLIOTT, C. M. The role of agriculture in economic development. In Warley, T. K., ed. Agricultural producers and their markets, p.31-49. 1967. HD9000.1.W3
- 88286 EREMIAS, V. Mathematical methods in the agricultural economics. (Cz) Prague. Vyzk. Ustav Zemed. Vestn. 13(1):12-15. 1966. 19.5 C333
- 88287 FLOOD, K. U. Evaluating locations for agribusiness. Nat. Res. Coun. Agr. Res. Inst. Proc. 1967:191-213,map. 4 N2122
- 88288 FRANCE, DIRECTION DE LA DOCUMENTATION. Le plan économique japonais a moyen terme 1964-1968 [The Japanese medium-term economic plan 1964-1968]. France, Dir. Doc. Notes Etudes Doc. 3431,38 p. Oct.27,1967. 280.9 F843  
Agriculture included.
- 88289 FRAZIER, L. Economic growth of smaller towns. Kans. State Univ. Ext. Looking Ahead K-State Econ., Dec.5,1967,2 p. HD9284.U5K3
- 88290 GARCIA-BADELL LAPETRA, I. And what of agriculture? (Sp) Agricultura [Madrid] 37(430):71-75. Feb.1968. 15 Ag84  
Economic growth of countries and policy of industrialization for developing areas.
- 88291 GERMAIN, A., and TREMBLAY, R. H. India, (Bharat is the native name). Vt. Univ. Ext. Brieflet 1150,9 p. Jan.1967. 275.29 V59E  
Economic conditions.
- 88292 GLASS, M. R. On the business horizon; planning and more planning. Va. Polytech. Inst. Ext. Va. Farm Econ. 205:14-17. Sept./Dec. 1967. 275.29 V813  
Firms purchasing and selling farm products, supplies and services.
- 88293 HENRY, J. F. Where is regional management? (Fr) Inform. Agr. (Paris) 367:18-21,map. Feb. 1967. HD1945.A1I5  
French economic development and policies.
- 88294 HIRST, S. M., and LEWINS, L. Basic data on the economy of the Soviet Zone of Germany. Overseas Bus. Rep. OBR-67-5,21 p.,map. Feb.1967. 157.54 Ov2  
Includes the agricultural economy.
- 88295 HOBGOOD, W. B., and TYNER, F. H. Development of new industry as related to resources and employment in rural areas of north Louisiana, 1950-1966. La. Agr. Exp. Sta. DAE Res. Rep. 371,92 p. Ref. Apr.1968. 100 L935
- 88296 HOLMES, O. W. The impact of public spending in a low-income rural area: A case study of Fort Leonard Wood, Mo. U. S. D. A. Agr. Econ. Rep. 135,26 p.,map. June 1968. A281.9 Ag8A  
Effects on employment.
- 88297 HOYT, J. S. Minnesota's economic regions. Minn. Sci. 23(3):13,50,map. Apr.1967. 100 M668
- 88298 ISHIKAWA, S. Resource flow between agriculture and industry, the Chinese experience. Developing Econ. 5(1):3-49. Ref., p.46-49. Mar.1967. 280.8 D493
- 88299 ISSAWI, C. Iran's economic upsurge. Middle East J. 21(4):447-462. Autumn 1967. 280.8 M585  
Agriculture included.
- 88300 JENSEN, R. C. The economic evaluation of investment in large-scale projects—an essay to recommend procedures. Lincoln. Coll. Agr. Econ. Res. Unit Publ. 48:177-190. 1968. 281.9 L632
- 88301 JENSEN, R. C. Terminology for project evaluation in New Zealand. Lincoln. Coll. Agr. Econ. Res. Unit Publ. 48:49-68. Ref. 1968. 281.9 L632
- 88302 JOHNSON, R. W. M. A review of evaluation studies in New Zealand agriculture and forestry. Lincoln. Coll. Agr. Econ. Res. Unit Publ. 48:34-48. Ref. 1968. 281.9 L632
- 88303 JOHNSON, R. W. M. The selection of projects. Lincoln. Coll. Agr. Econ. Res. Unit Publ. 48:132-138. 1968. 281.9 L632

- 88304 KASYUK, I. The faculties of economics. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 8:47. Aug. 1967. 30.69 Uc4  
Correspondence courses.
- 88305 LAH, T. On the planning in Yugoslav economy. (Sl) Nase Gospodar. 12(11):274-275. Nov.25, 1966. 280.8 N17
- 88306 LANDBRUKETS SENTRALFORBUND. Arbok for landbrukets økonomiske organisasjoner [Yearbook of the farm economic organizations], 1967, v. 13. Oslo, 1967. 336 p. 280.29 L235  
Economic conditions and cooperative organizations.
- 88307 LINCOLN COLLEGE. Proceedings of a New Zealand seminar on project evaluation in agriculture and related fields held at Lincoln College 20th-24th November, 1967, ed. by R. C. Jensen. Lincoln. Coll. Agr. Econ. Res. Unit Publ. 48:196 p. 1968. Ref. 281.9 L632
- 88308 LONG, D. L. Independent or interdependent? Va. Polytech. Inst. Ext. Va. Farm Econ. 208:13-14. May/June 1968. 275.29 V813  
Agriculture and agribusiness.
- 88309 MAITRE, J. Catholic priests and the economic development of the French countryside. (Fr) Sociol. Ruralis 8(1):58-78. 1968. 281.29 So12  
English summary.
- 88310 MARTIN, J. E. Computer algorithms for estimating the parameters of selected classes of non-linear, single equation models. Okla. Agr. Exp. Sta. Process. Ser. P-585, 19 p. May 1968. 100 Ok4M  
Economic research.
- 88311 MCARTHUR, A. T. G. Computer programs for project evaluation. Lincoln. Coll. Agr. Econ. Res. Unit Publ. 48:153-159. 1968. 281.9 L632
- 88312 MEIER, R. The problem of use of correlation and regression analysis in agricultural economics. (Ge) Statist. Praxis 23(1):51-55. Jan. 1968. 251.8 St25
- 88313 MONTGOMERY, G. International economic changes. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., June 21, 1967, 2 p. HD9004.A1K3
- 88314 MOOS, D. W. Agriculture - the balance wheel. Wash. State Hort. Ass. Proc. 1967:135-136. 81 W273  
Agriculture in the economy and the industry-agriculture relationship.
- 88315 MUSGRAVE, W. F. Some background and perspective to public investment analysis. Lincoln. Coll. Agr. Econ. Res. Unit Publ. 48:1-14. Ref. 1968. 281.9 L632
- 88316 OHNUKI, T. Regionalization of Kanto district according to the recent economic growth. (Ja) Tokyo. Nat. Inst. Agr. Sci. Bull. Ser. A (Phys. Statist.) 14:123-159, map. Ref. Mar. 1967. 334.9 C43  
English summary.
- 88317 ORAZEM, F., and LOVE, H. M. A perennial conflict. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., July 11, 1967, 2 p. HD9004.A1K3  
Changes in agriculture and general economic growth.
- 88318 ORAZEM, F. The role of farming in Kansas economy. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Mar. 28, 1967, 2 p. HD9004.A1K3
- 88319 PORTER, C. W. An economic summary of Pennsylvania agriculture. Pa. State Univ. Ext. Farm Econ., May 1968:1-4. 275.28 P38
- 88320 RESTIVO, F. Agriculture and industry toward a new modern equilibrium. (It) Agricoltura 16 (10):19-21. Oct. 1967. 16 Ag8226
- 88321 RUSSWURM, L. H. Expanding urbanization and selected agricultural elements: case study, southwestern Ontario area, 1941-1961. Land Econ. 43(1):101-107. Feb. 1967. 282.8 J82
- 88322 SANTMYER, C. Morocco's agricultural economy in brief. U. S. D. A. Econ. Res. Serv. ERS- Foreign 214, 12 p. 1968. A281.9 Ag83
- 88323 SCHÄLLER, W. N. New horizons in economic model use: an example from agriculture. U.S. Bur. Budget. Statist. Rep. 67-12:205-208. June 1967. 173.2 C33 Rep  
A model of production adjustments formed by the United States Department of Agriculture.
- 88324 SEIDEL, H., BUTSCHEK, F., and KAUSEL, A. Die regionale Dynamik der österreichischen Wirtschaft [The regional dynamics of Austrian industry]. Osterr. Inst. Wirtschaftsforsch. Stud. Anal. 1, 69 p. 1966. HC261.082  
Includes the decline in agricultural population and rural-urban differences in productivity and income.
- 88325 SHOEMAKER, J. H. Economic trends in Hawaii; with special reference to the role of agriculture. Hawaii. Univ. Ext. Misc. Publ. 39:17-21. Mar. 1967. S544.3 H3H3
- 88326 TUCK, R. H. The choice of objectives in economic development. Mediterranean 17:6-14. Jan. 1968. 281.8 M462
- 88327 U. S. CONGRESS. JOINT ECONOMIC COMMITTEE. The Economic Report of the President. Hearings, 90th Cong., 2d sess., February 5, 6, 7, 14, 15, 1968. Part 1. Washington, 1968. 338 p. 280.9 Un3342  
Includes statements and testimony of Secretary of Agriculture Orville L. Freeman.
- 88328 U. S. CONGRESS. JOINT ECONOMIC COMMITTEE. The 1968 Economic Report of the President. Hearings, 90th Cong., 2d sess., Pt. 2-4. Washington, 1968. 3 v. 280.9 Un3342  
Part 2 (Feb. 16, 19, 20, and 21, 1968) includes statements and testimony of representatives of farm organizations: H. L. Graham, A. McDonald, C. B. Shuman, and G. Shafer.
- 88329 VICINELLI, P. Economic problems of the Mediterranean countries. (Fr) Mediterranean 17:15-22. Jan. 1968. 281.8 M462  
English summary.
- 88330 WARD, J. T. Public investment evaluation in New Zealand. Lincoln. Coll. Agr. Econ. Res. Unit Publ. 48:15-33. 1968. 281.9 L632  
Includes benefit-cost analysis.

## AGRICULTURAL FINANCE

- 88331 ABRAMOV, V. Centralized sovkhov investments and their financing. U. S. Joint Publ. Res. Serv. Transl. USSR Agr. 226:56-61. Nov. 30, 1967. (JPRS 43,507) 173 J663Tso  
Translation from Ekonomicheskaya Gazeta 40:36. Oct. 1967.
- 88332 ADAMCZYK, Z. Life suggests a method. (Pol) Nowe Roln. 16(3):10-11. 1967. 20.5 N86  
State farm investments.
- 88333 BOEHN, L. VON. Real questions regarding financing and investment. (Ge) Landesverband Gartenbau Landwirt. Berlin Mitteilungsbl. 18(12):5-7. Dec. 1967. 85 L233  
Includes life insurance.
- 88334 BUTELL, G. R. EEC agricultural fund runs into trouble. Foreign Agr. 6(25):8-9. June 17, 1968. A281.9 F76Fo
- 88335 CLELAND, G. R. J. Uncertainty and its effect on capital investment analysis. Lincoln. Coll. Agr. Econ. Res. Unit Publ. 48:121-131. 1968. 281.9 L632
- 88336 DAVIES, A. J. Planning economic investment. Farm Buildings Ass. J. 11:13-15. Dec. 1967. 296.9 F22  
Discussion, p. 32-36.
- 88337 GARCIA ISIDRO, M. Devaluation of the peseta and agriculture. (Sp) Agricultura [Madrid] 37 (430):76-78. Feb. 1968. 15 Ag84
- 88338 GERASIMOVICH, A. M. Effectiveness of using working capitals. (Rus) Uchet Finansy Kolkhoz. 4:28-31. Apr. 1967. 30.69 Uc4  
On the livestock state farms in Ukraine.



- 88339 GOW, N. G. Measurement of benefits and costs in farm development studies. Lincoln. Coll. Agr. Econ. Res. Unit Publ. 48:69-87. Ref. 1968. 281.9 L632  
Investment.
- 88340 GOZARD, G. Private investments in the countries in the course of development, and their guarantees. (Fr) *Mediterranea* 17:23-33. Jan. 1968. 281.8 M462  
English summary.  
Mediterranean countries.
- 88341 HUETTEBRAUEKER, R. Conflicts about European Economic Community common programs. (Ge) *Mitt. Deut. Landwirt.-Ges.* 82(49):1613-1614. Dec. 7, 1967. 18 N39  
Finance problems and Germany's policy.
- 88342 JENSEN, R. C. Characteristics of the investment process. Lincoln. Coll. Agr. Econ. Res. Unit Publ. 48:97-120. 1968. 281.9 L632
- 88343 JOLINK, A. Investment and taxation. (Du) *Neth. Prov. Dir. Rijkslandbouwvoorlichting Friesland. Voorlichting Onderz. Grasland Veehouderij* 1965:106-111. 1966. SF15.N4A3
- 88344 KANALIMOV, KH. M. Turning of working capital in the sheep husbandry. (Rus) *Uchet Finansy Kolkhoz. Sovkhoz.* 4:31-33. Apr. 1967. 30.69 Uc4  
State farms.
- 88345 KEAST, J. D. Retirement plans better now. *Doanes Agr. Rep.* 31(5):32-34. Feb. 1968. 281.8 D652  
Taxes on income put in investment plans.
- 88346 KLOCZOWSKI, E. Independent decisions on investments. (Pol) *Nowe Roln.* 16(3):8-9. 1967. 20.5 N86  
State farms.
- 88347 LEWIS, A. C. A study of the rate of investment for a representative farm (farm development in Southland). Lincoln. Coll. Agr. Econ. Res. Unit Publ. 48:165-166. 1968. 281.9 L632
- 88348 LONG, R. W. Farm financing. *Calif. Citrogr.* 53(6):204,233-237. Apr. 1968. 80 C125
- 88349 LYUBIMOV, V. N., and VAL'TER, S. B. Peculiarities of the financial planning and the distribution of returns on the state farms with commercial accounting system. (Rus) *Uchet Finansy Kolkhoz. Sovkhoz.* 9:21-25. Sept. 1967. 30.69 Uc4
- 88350 MANDERSCHIED, L. V. The death of gold? *Mich. State Univ. Ext. Mich. Farm Econ.* 304:1-3. May 1968. 275.29 M58A  
Backing for money.
- 88351 MIZOGUCHI, T. Consumption functions and saving functions for the Japanese farmer's families in the post-war Japan. *Rural Econ. Probl.* 4(1):20-35. Ref. Dec. 1967. 281.28 R8822
- 88352 MORGAN, W. The financing of agricultural co-operatives. In Warley, T. K., ed. *Agricultural producers and their markets*, p.434-445. 1967. HD9000.1.W3
- 88353 NAGY, L. The effect of amortization fund and price changes in production cooperatives. (Hu) *Statist. Szemle* 45(10):992-1006. Oct. 1967. 266.5 St2M  
Includes input-output analysis.
- 88354 PASSAMONTI, G. Prospects and possibilities of private initiative in agriculture in the area of the Fund for the South [Cassa per il Mezzogiorno]. (It) *Genio Rurale* 30(2):129-132. Feb. 1967. 281.8 R522
- 88355 RAJKOV, B. Study of the assets of farms and their effects on the economic results. (Se) *Novi Sad. Poljopr. Fak. Letop. Naucnih Rad.* 10:203-220. 1966. 106.6 N85  
German summary.
- 88356 RICHARDS, J. A. Devaluation of the pound and the U.S. economy. *Kans. State Univ. Ext. Looking Ahead K-State Econ.*, Nov. 28, 1967, 2 p. HD9284.U5K3
- 88357 RICHARDS, J. A. International gold problems; domestic and international money. *Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform.*, Mar. 26, 1968, 2 p. HD9004.A1K3
- 88358 RICHARDS, J. A. International gold problems; how will the solution affect you? *Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform.*, Apr. 10, 1968, 2 p. HD9004.A1K3
- 88359 RICHARDS, J. A. International gold problems; U.S. balance of payments deficit. *Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform.*, Apr. 2, 1968, 2 p. HD9004.A1K3
- 88360 RICHARDS, J. A. Why is less government spending not an economic issue. *Kans. State Univ. Ext. Looking Ahead K-State Econ.*, Feb. 6, 1968, 2 p. HD9284.U5K3  
In relation to economic cycles and inflation.
- 88361 SAPIL'NIKOV, E. N., and CHINCHEVICH, M. V. Experience with planning amount and structure of the basic working capital. (Rus) *Uchet Finansy Kolkhoz. Sovkhoz.* 4:41-43. Apr. 1967. 30.69 Uc4  
Livestock state farm.
- 88362 SIMON, B. Dairy investments. (Fr) *Inform. Agr. (Paris)* 367:11. Feb. 1967. HD1945.A1I5
- 88363 SRNSKY, B., and PELA, M. Finančne vzťahy, uver a urok v zdokonalenej sustave planoviteho riadenia pol'nohospodarstva [Finance, credit and interest in the improved system of farm management]. *Zdokonalena Sustava Riadenia Pol'nohospod.* 5,80 p. Ref. 1966. HD1940.C95A2
- 88364 STEPNOVA, A., and YUR'EV, B. M. Financial consolidation and economic growth. (Rus) *Uchet Finansy Kolkhoz. Sovkhoz.* 4:2-5. Apr. 1967. 30.69 Uc4  
Collective farming.
- 88365 TARASEVICH, V. F., and FOK, N. D. Complete return of the fixed capital. (Rus) *Uchet Finansy Kolkhoz. Sovkhoz.* 4:37-39. Apr. 1967. 30.69 Uc4  
State farms.
- 88366 VASIL'EV, D. G. Financial results of the year not quite satisfactory. (Rus) *Uchet Finansy Kolkhoz. Sovkhoz.* 6:27-30. June 1967. 30.69 Uc4  
State farm financial management; includes accounting.
- 88367 VUCKOVIC, M. Monetary fluctuations and economic reform. (Sl) *Nase Gospod.* 12(4):101-110. Apr. 25, 1966. 280.8 N17
- 88368 WOZNIAK, W. Agriculture investments in the years 1961-65. (Pol) *Nowe Roln.* 16(1):6-10. 1967. 20.5 N86
- 88369 YOUNG, L. A., and HIRSCHINGER, C. W. Your farm and family cash flow planning guide. *Wis. Univ. Ext. Spec. Circ.* 136,4 p. Apr. 1968. 275.29 W75S

## Credit

- 88370 AGENA, W. Cooperative credit conference presentation. Hawaii. Univ. Ext. Misc. Publ. 48:11-12. Feb. 1968. S544.3.H3H3  
Loans to cooperatives.
- 88371 BANCO DE FOMENTO AGROPECUARIO DEL PERU. Memoria, 35<sup>o</sup> ejercicio, 1965-1966 [Report, 35th season, 1965-1966]. Lima, 1966. 71 p. 284.29 B2254
- 88372 BJARESTEN, J. E. KR in Jamtland. (Sw) *Joel* 1:11-13,15. 1967. 335.8 J59  
Credit and other forms of aid to agriculture.
- 88373 BLACK, W. E. Sources of capital for individuals, firms and institutions in rural Maryland. *Md. Univ. Ext. Agr. Econ. Inform. Ser.* 46,21 p. Apr. 1968. 275.29 M36Agr
- 88374 BYLKOV, S. S. Specification of the dates for credit extinction. (Rus) *Uchet Finansy Kolkhoz. Sovkhoz.* 8:28. Aug. 1967. 30.69 Uc4
- 88375 CRNKOVIC, R. Characteristics of the new banking system. (Sl) *Nase Gospod.* 12(3):66-68. Mar. 25, 1966. 280.8 N17
- 88376 DAMRY, P. N. Some important aspects of the role of the Reserve Bank of India in rural credit. *Maharashtra Co-op. Quart.* 51(1):11-12. July 1967. 280.28 B63

- 88377 DENNIS, O. Role of Bank of Hawaii in cooperative financing. Hawaii. Univ. Ext. Misc. Publ. 48:10. Feb.1968. S544.3.H3H3
- 88378 EIDEL'BERG, I. A., and MEDVEDEV, I. V. Direct credit to collective farms. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 8:22-23. Aug.1967. 30.69 Uč4
- 88379 HAWKINS, G. P. Check these dozen lenders to finance sprinkler systems. Big Farmer 40(2):40,42. Spring 1968. 58.8 B46
- 88380 HEITZ, G. E. Cooperative use of the Farm Credit System. In U. S. Dept. of Agriculture. Cooperatives-partners in American life, October, 1965, p.24-26. 1966. aHD1491.U5  
U. S. Farm Credit Administration.
- 88381 HENRY, J. F. A very large mission for agricultural credit. (Fr) Inform. Agr. (Paris). 366:23. Jan.1967. HD1945.A115
- 88382 JOHNSON, B. B., and others. Financing the purchase of farm real estate in Nebraska 1957 and 1966. Nebr. Univ. Coll. Agr. Home Econ. Quart. Serving Farm Ranch Home 14(4):13-14. Winter 1968. 100 N27N  
L. Leistritz, J. D. Greer, J. Muehlbeier, joint authors.
- 88383 KALOSHIN, E. L. Advantages of the direct credits for collective farms. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 1:20-21. 1968. 30.69 Uč4
- 88384 KERWIN, W. J. U.S. savings and loan associations are potential capital sources. In U. S. Dept. of Agriculture. Cooperatives-partners in American life, October, 1965, p.110. 1966. aHD1491.U5
- 88385 KHOSLA, D. V. A quiet revolution: India's rural credit. Foreign Agr. 6(29):2-4. July 15, 1968. A281.9 F76Fo
- 88386 KORDYUKOV, A. Instructions concerning direct short-term bank credit for collective farms; special flowing account. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 9:44-47. Sept.1967. 30.69 Uč4
- 88387 KORDYUKOV, A. Instructions concerning short-term bank credit for collective farms to cover seasonal shortage of money. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 8:44-46. Aug.1967. 30.69 Uč4
- 88388 MORIMOTO, R. T. Role of [Hawaii] State Department of Agriculture. Hawaii. Univ. Ext. Misc. Publ. 48:9. Feb.1968. S544.3.H3H3  
Extending credit.
- 88389 NAREZHNI, S. E. Credit policies should be change. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 7:34-35. July 1967. 30.69 Uč4
- 88390 NISBET, C. T. Interest rates and imperfect competition in the informal credit market of rural Chile. Land Tenure Center. LTC [Publ.] 3(23),27 p. 1966. HD107.L33
- 88391 POTAMKIN, L. The right to sue is the right to stop a loan. Rural. Elec. 25(10):21. July 1967. 335.8 N21  
Electric power cooperatives granted Rural Electrification Administration loans versus power companies.
- 88392 POWERS, M. Hedging, forward contracting and agricultural credit; a study of factors in making loans to farmers and firms. S. Dak. Agr. Exp. Sta. Bull. 545,27 p. Ref. June 1968. 100 So82
- 88393 REBOUL, J. New means of action for agricultural credit. (Fr) Inform. Agr. (Paris) 367:25-27. Feb.1967. HD1945.A115  
In France, includes cooperatives.
- 88394 RESERVE BANK OF INDIA. STANDING COMMITTEE ON RURAL AND CO-OPERATIVE CREDIT. Proceedings of the thirty-sixth meeting. Bombay, 1967. 47 p. 284.29 R312
- 88395 SCHULTE, B. H. Understanding the purpose and limitations of financial statements of agricultural cooperatives. Hawaii. Univ. Ext. Misc. Publ. 48:13-16. Feb.1968. S544.3.H3H3  
For credit.
- 88396 SCOTT, A. Role of Farmers Home Administration in loans to cooperatives. Hawaii. Univ. Ext. Misc. Publ. 48:6-8. Feb.1968. S544.3.H3H3
- 88397 SIMONCIC, I. Credit and banking in 1966. (Sl) Nase Gospod. 12(4):118-122. Apr.25, 1966. 280.8 N17
- 88398 STALLARD, F. Doing business at the bank. Ky. Univ. Ext. Circ. 573-A,15 p. Apr.1968. 275.29 K415
- 88399 THOMAS, W. B. How much debt can a farm carry? Kans. State Univ. Ext. Looking Ahead K-State Econ., June 12,1968,2 p. HD9284.U5K3
- 88400 TYUREV, K. New regulations for credit. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 9:14-15. Sept.1967. 281.8 Se4  
Used by collective farms.
- 88401 ZOTOV, N. V. Improving accounting in the construction of buildings. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 7:33-34. July 1967. 30.69 Uč4  
Tracing credit on the collective farms.

## Income

- 88402 ABERCROMBIE, K. C. Incomes and their distribution in agriculture and the rest of the economy. Food Agr. Organ. U. N. Mon. Bull. Agr. Econ. Statist. 16(6):1-8. June 1967. 251 F73Mb
- 88403 LAYING, W. J., and AHALT, J. D. Gross product originating in agriculture, 1947-65. U. S. D. A. Econ. Res. Serv. DPS-111:28-37. Feb.1967. 1.9 Ec752Pa
- 88404 MILLER, R. R. Incomes on commercial dairy farms. U. S. D. A. Econ. Res. Serv. DS-321:29-34. July 1968. 1.9 Ec7Ds
- 88405 STOCKWELL, E. G. Income characteristics of the population in Connecticut and the Northeast Region. Conn. (Storrs) Agr. Exp. Sta. Res. Rep. 24,39 p. Sept.1967. 100 C76Re
- 88406 SUNG, S. H. A study on farm income in Taichung prefecture (1962). (Ch) J. Agr. Forest. 15:159-195. Oct.1966. 22.5 J823  
English summary.

## Insurance

- 88407 BELOV, N. G. Insurance accounting in the socialistic system. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 7:14-18. July 1967. 30.69 Uč4
- 88408 CREWS, J. F., and BIRD, R. Liability risks in operating a farm recreational enterprise. Va. Polytech. Inst. Ext. Bull. 301:275-289. Sept. 1966. 275.29 V81B
- 88409 INGEBRETSEN, V. F. The Federal Crop Insurance program on apples in Washington Idaho State Hort. Soc. Trans. 1967:56-57. 81 ID12
- 88410 LANTZ, K. E. Crop insurance - guaranteed production. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:80-83. 64.9 On83
- 88411 LIGGETT, E. P. Social security. Wash. State Univ., Ext. E. M. 2466,rev.,8 p. Apr.1968. 275.29 W27M1
- 88412 SHEDEROVA, G. S. Recalculating old-age insurance for collective farmers. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 8:47-48. Aug.1967. 30.69 Uč4
- 88413 SINGH, I. J. Crop yield instability and crop insurance. Agr. Situation India 22(5):503-507. Aug. 1967. 281.9 In23  
In India.

## Taxation

- 88414 ANDERSEN, R. G. Earlier error in the taxation on farmers' income has now been corrected. (No) Norsk Landbruk 3:14,31. Feb.9,1968. 11 N8122



- 88415 ANDERSON, K. O. High income tax for many is the result of poor book-keeping. (Sw) Jord Skog 19(6):7. 1967. 58.8 M373  
In Sweden.
- 88416 AXELSON, G. Replacement of inventory—a vague term? (Sw) Vastmanlands Lans Hushallingssallsk. Tidskr. 1:28-30. 1967. 11 V44T  
Tax exemptions for equipment.
- 88417 AXELSON, G. Tax on increased value of land. (Sw) Vastmanlands Lans Hushallingssallsk. Tidskr. 1:12-14. 1967. 11 V44T  
In selling and inheritance.
- 88418 BAER, R. Added value tax. (Ge) Landmasch.-Markt 46(26):21-24. Dec.20,1967. 58.8 L239  
On equipment.
- 88419 BOURKE, I. J. Tax incentive scheme should be studied. New Zeal. J. Agr. 114(4):58-59,61. Apr.1967. 23 N48J  
For livestock production.
- 88420 CAMMAMILE, G. H., and CARTER, E. S. Tax in perspective; starting a business. Great Brit. Min. Agr. Fish. Food. Agr. 73(12):576-578. Dec.1966. 10 G79J  
In Great Britain.
- 88421 DWIVEDI, D. N. Tax on farms - how to make it more productive. Yojana 12(3):21-22. Feb.18, 1968. 280.8 Y7  
Income tax.
- 88422 FISHER, R. A. Last things first - estate planning and disposition of property as it pertains to fruit growers. Mich. State Hort. Soc. Annu. Rep. 96:28-35. 1966, pub.1967. 81 M58  
Ways to avoid estate taxes.
- 88423 GUSTAFSSON, B. Questions about taxation in relation to repair: restoration and new buildings. (Sw) Lantmannen 78(23):11-12. Nov.11, 1967. 11 L234
- 88424 HOLLAND, and HART. Burden of federal estate taxes: remedial legislation introduced. Sheep Goat Raiser 48(4):26-27. Jan.1968. 45.8 Sh3
- 88425 HUNTER, J. M. Advantages of New Jersey's Farmland Assessment Act spelled out by agriculturist. Farm Credit News, Spring 1968:12-13. 284.28 F227
- 88426 KAHLOH, S. S. Land taxation in the Punjab, Haryana, and Himachal Pradesh. Punjab Agr. Univ. J. Res. 4(2):297-307. June 1967. S19.P8
- 88427 KREPS, J. M. Negative outlook for the negative income tax. Farm Found. Increasing Understanding Public Probl. Policies 1967:103-109. 275.29 F22
- 88428 LATOUR, J. P. D. The TVA and the cooperative. (Fr) Inform. Agr. (Paris). 366:27-28. Jan.1967. HD1945.A115
- 88429 MOREAUX, J. T. V. A. [Taxe sur la valeur ajoutée-tax on the added value] and dairy cooperation. (Fr) Inform. Agr. (Paris) 367:28-30. Feb.1967. HD1945.A115
- 88430 NERTINGER, J. The unloading of old stocks within the framework of the added value tax. (Ge) Deut. Molk.-Zeitung 88(47):1924-1925. Nov.23,1967. 44.8 Su2
- 88431 PINE, W. H. Assessment of property for taxation in Kansas. Kans. State Univ. Ext. Ext. Econ. Kans. Farm Bus. Inform., June 26,1968, 2 p. HD9004.A1K3
- 88432 PINE, W. H. Farm real estate taxes. Kans. State Univ. Ext. Ext. Econ. Kans. Farm Bus. Inform., Mar.7,1967,2 p. HD9004.A1K3
- 88433 RAETHLEIN, H. J. Imports turnover tax. (Ge) Landmasch.-Markt 46(26):26. Dec.20,1967. 58.8 L239  
European Economic Community.
- 88434 RATNAM, A. Coffee growers and agricultural income-tax. Planting Com. 15(3):17-18. May 8/23,1967. 22 P697  
India.
- 88435 RICHARDS, J. A. Monetary policy and the surtax. Kans. State Univ. Ext. Looking Ahead K-State Econ., Feb.13,1968,2 p. HD9284.U5K3
- 88436 RICHARDS, J. A. A tax increase now? Kans. State Univ. Ext. Looking Ahead K-State Econ., May 15,1968,2 p. HD9284.U5K3  
Control inflation with income tax.
- 88437 RIGNAULT, P. A new service to its members. (Fr) Coop. Agr. [Paris] 166:27-29. Nov.1967. 280.28 C78972  
By cooperatives for sales tax paid by farmers.
- 88438 VISTISEN, O. Current questions about tax assessment. (Da) Landbonyt 22(1):7-10. Jan.1968. 11 L2322  
In Denmark.

## AGRICULTURAL LABOR AND WAGES

- 88439 ALEXANDER, F. D. Readiness of New York Cooperative Extension to undertake a farm labor program. Cornell Univ. Ext. Ext. Stud. 16,119 p. Nov.1967. 275.29 N48Ex
- 88440 ALTAJSKI, I. New elements of work organization on kolkhozes and sovkhoezes. (Pol) Nowe Roln. 16(3):35-36. 1967. 20.5 N86
- 88441 ANDREEV, N. Working hours of workers occupied in animal husbandry in collective farms of Bulgaria. (Bu) Zhivotnovodstvo 21(5):28-34. May 1967. 49 Z62
- 88442 ATWATER, B. Signs of the times: farmers find ways to minimize labor needs. U. I. (Utah-Idaho) Cult. 28(1):21-22. Spring 1968. 66.8 U12  
Sugar beets.
- 88443 BALABANOV, U. Increase of labor productivity. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 4:13-14. Apr.1967. 281.8 Se4
- 88444 BARILLI, P. Recruitment of shepherds becomes increasingly difficult in Italy. (It) Inform. Zootec. 14(14):13-14. June 1967. 49 In3
- 88445 BEIJER, G. National rural manpower adjustment to industry. Can. Dep. Forest. ARDA Rep. Dig., July 1966,11 p. Z5074.E3c3
- 88446 BERTANI, S. The Sardinian shepherds of the Alta Romagna. (It) Esso Agr. 17(6):32-33. Dec.1,1967. 58.8 Es7  
Migration of laborers to the Appenines.
- 88447 BIDENKO, D. S. Estimation of the guaranteed fund for labor payments. (Rus) Uchet Finansy Kolkhoz. Sovkhoez. 9:13-16. Sept.1967. 30.69 Uc4  
On the collective farms.
- 88448 BRITISH COLUMBIA NATURAL RESOURCES CONFERENCE, 16, PRINCE GEORGE, BRITISH COLUMBIA, 1965. Transactions. n.p., 1966. 122 p. 279.9 B77  
Theme: Manpower for resource development.
- 88449 BYCHKOV, M. Guaranteed wages—on all collective farms. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 8:18-19. Aug.1967. 281.8 Se4
- 88450 COBB, R. T. The needs of migrant workers in New York. N. Y. State Hort. Soc. Proc. 113:69-70. 1968. 81 N484
- 88451 COSOLO, S. Work requirement for some cropping systems and possibility of its reduction. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.2:593-608. 1966, pub.1968. S675.C6 1966  
English summary.  
By mechanization and by new techniques.
- 88452 DEKKER, K. M. Wages for the son. (Du) Neth. Prov. Dir. Rijkslandbouwoorlichting Friesland. Voorlichting Onderz. Grasland Veehouderij 1965:112-115. 1966. SF15.N4A3  
On the farm.
- 88453 DOBEYKO, J. Labor training in the dairy industry. (Pol) Przegląd Mleczarski 16(9):11-13. Sept.1967. 44.8 P95  
In Poland.

- 88454 EY, R. Federal Republic of Germany; farm and forestry contract labor. (Ge) Lohnunternehmen Land- Forstwirtschaft. 22(8):200. Aug.15,1967. 58.8 D81
- 88455 FALK, E. The Federal Minimum Wage & Hour Law as it affects fruit growers. Wash. State Hort. Ass. Proc. Dec.5-7,1966:119-122. 81 W273
- 88456 FARLAS, MRS. J. Guaranteed wages in the kolkhozes. (Hu) Magyar Mezőgazdaság 22 (13):23. Mar.29,1967. 19 M27 USSR.
- 88457 FLEISCHER, L. Costs and prices of the Taura plant protection brigade. (Ge) Feldwirtschaft 8(10):509-511. Oct.1967. 18 W763
- 88458 FOGELFORS, L. Shortage of manpower in spite of mechanization. (Sw) Skogen [Stockholm]. 54(17):428-429. Aug.31,1967. 99.8 Sk51
- 88459 FRANZ, G. Labor cost estimates 150 years ago. (Ge) Landarbeit 19(6):44-46,48. June 1968. 18 L2355
- 88460 GAROFALO, S. Economic aspects of labor science in agriculture. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.2:609-621. 1966, pub.1968. S675.C6 1966 English summary. Work management.
- 88461 GERMANY (FEDERAL REPUBLIC). BUNDESMINISTERIUM FÜR ERNÄHRUNG, LANDWIRTSCHAFT UND FORSTEN. Weniger Arbeit mit der Winterfütterung des Rindviehs [Less work with winter feeding of cattle]. Germany. Land-Hauswirtsch. Auswertungs- Informationsdienst [Veröffentlichungen] 271,16 p. 1968. 18 G312V
- 88462 GLASS, M. R. Directing employees for peak performance. Va. Polytech. Inst. Ext. Va. Farm Econ. 208:7-9. May/June 1968. 275.29 V813
- 88463 GONZALEZ VILLAFANE, E., PRINGLE, G. E., and CONDE RAMIREZ, A. Several factors affecting the efficiency of cutting sugarcane in Puerto Rico. (Sp) P. R. (Rio Piedras) Agr. Exp. Sta. Bull. 210,14 p. Mar.1968. 100 P83 English summary. Labor productive capacity.
- 88464 GRIGORUK, V. V. Labor management and the accounting. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 6:30-32. June 1967. 30.69 Uc4 State farms.
- 88465 HAMEL, J. L. Netherlands: Contract firms and agriculture and horticulture. (Ge) Lohnunternehmen Land- Forstwirtschaft. 22(8):198-199. Aug.15,1967. 58.8 D81 Contract labor.
- 88466 HEROLD, G. The foreigner as worker and employee in the Federal Republic; his labor rights and social security position. (Ge) Zucker 20(5):128-129. Mar.1,1967. 65.8 Z82
- 88467 HOELSCHER, C. W. Exploring agricultural careers. Ext. Serv. Rev. 39(5):3. May 1968. 1 Ex892Ex Illinois extension program.
- 88468 HORNING. Weed control in autumn—a new field of enterprise for the contractor? (Ge) Lohnunternehmen Land- Forstwirtschaft. 23(3):68-70. 1968. 58.8 D81
- 88469 HORVATH, E. New trends in the organization of labor on big-scale farms in the German Democratic Republic. (Cz) Prague. Vyzk. Ústav Zemed. Vestn. 13(2):61-63. 1966. 19.5 C333
- 88470 JELINKOVA, V. The reduction of work time as an important factor in the growth of livestock production. (Cz) Statni Statky 3:33-34. 1968. 19.5 St2
- 88471 KATSURA, E. Effects of the agricultural carriageway construction on the working hours in the citrus industry. (Ja) Kagawa Univ. Fac. Agr. Tech. Bull. 19(1):12-23. 1967. 107.6 K113 English summary.
- 88472 KEAST, J. D. Be careful about hiring children. Doanes Agr. Rep. 31(11):46,48. Apr.8,1968. 281.8 D652
- 88473 KLATT, R. Attracting labor - what growers need to do. N. Y. State Hort. Soc. Proc. 113:57-61. 1968. 81 N484
- 88474 KOPCSO, I. Some problems of planning and labor organization in fruit production technology. (Hu) Kertes. Szoleszeti Foiskola. Kiadv. 3(2):259-274. 1966. SB13.K4 Chiefly on work management of labor.
- 88475 KRAVCHUK, A. T. Studying time requirements with typerecorder. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 5:104-107. May 1967. 20 V633 English summary.
- 88476 LOSKUTOV, F. Commercial accounting of labor performances. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 10:16-17. Oct.1967. 281.8 Se4 On the collective and state farms.
- 88477 MEHRA, D. S. Levels of secondary employment in agriculture. Agr. Situation India 22(5):523-534. Aug.1967. 281.9 In23 In India.
- 88478 MOLEN, J. VAN DER. Relation between method of milking and barn type for a varying number of dairy cows. (Du) Veeteelt Zuivelber. 10(8):349-356. Aug.1967. 49 V51 Labor requirements.
- 88479 MONROE, C. Labor relations and new laws relating to them. Tex. Turfgrass Conf. Proc. 22:86-91. Dec.1967. 60.19 T31
- 88480 NEW DIMENSIONS in farm labor - a panel. Wash. State Hort. Ass. Proc. Dec.5-7,1966:123-128. 81 W273 Members: L. E. Lowe, J. Matson, W. D. Jones, N. Cain, C. L. Robinson, C. E. Boone.
- 88481 NIEDERFRANK, E. J. Helping the handicapped in rural areas. U. S. D. A. PA-860,11 p. Apr. 1968. 1 Ag84Pro Education to rejoin the labor force.
- 88482 OBBINK, B. J. California agriculture -- the sociological proving ground. Wash. State Hort. Ass. Proc. Dec.5-7,1966:172-176. 81 W273 Labor outlook.
- 88483 OHASHI, K. Agricultural operations considered from the point of view of labour science. Rural Econ. Probl. 4(1):36-55. Dec.1967. 281.28 R8822 In Japan; statistical studies of the efficient use of the energy of human laborers and the effects of mechanization.
- 88484 PAGELLA, M. Economy and technic in modern agriculture. (It) Turin. Univ. Fac. Sci. Agr. Ann. 1:439-462. 1961-62, pub.1966. S9.T8 English summary. Labor management and productivity.
- 88485 PANERAI, A. Prospects of "scientific" organization of labor on the farm. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.2:577-592. Ref. 1966, pub.1968. S675.C6 1966
- 88486 PARDHY, M. K. Rural works projects. Yojana 12(3):27-28. Feb.18,1968. 280.8 Y7 To alleviate unemployment in India.
- 88487 PURI, T. R., and RASTOGI, B. K. Job analysis for efficient transportation of fodder. Indian Dairyman 19(9):301-302. Sept.1967. 44.8 In282 Time and motion studies.
- 88488 RICKS, D. J. Fruit harvesting by piece work - its relationship to minimum wage. Mich. State Hort. Soc. Annu. Rep. 96:46-54. 1966, pub.1967. 81 M58
- 88489 ROYNE, H., and SKIAKER, G. An example of everyday efficiency. (No) Buskap Avdratt 2:111-119. 1967. 49 B96 Time and motion study of Norwegian dairy industry.



- 88490 SAENKO, K. S. Calculation of the pro costs. (Rus) Uchet Finansy Kolkhoz Khoz. 4:18-19. Apr.1967. 30.69 Uč4  
Labor costs on the collective farms.
- 88491 SCHLOLAUT, W. How can labor productivity be raised in sheep keeping? (Ge) Mitt. Deut. Landwirt.-Ges. 83(15):506-512. Apr.11,1968. 18 N39
- 88492 ŠERVEEVA, S. The role of scientific labor ratings in increasing productivity of equipment. (Rus) Tekh. Sel'skom. Khoz. 3:50-52. 1968. 58.8 M11
- 88493 SHKURATOV, A. Open road for two-shift working period. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 4:15-16. Apr.1967. 281.8 Se4  
Dairy farms.
- 88494 SIMON, J. Woman and farm management. (Fr) Potasse 41(348):189-191. Oct.1967. 57.8 P84  
In France.
- 88495 SLOCUM, W. L. Careers of Ph.D.'s in the agricultural sciences. Agr. Sci. Rev. 6(1):18-23. Ref. First Q.1968. A31.3 Ag893
- 88496 SMOLENSKI, Z. Introduction of guaranteed payments for work on kolkhozes in the Soviet Union. (Pol) Nowe Roln. 16(3):33-34. 1967. 20.5 N86
- 88497 SMYSLOV, A. I., and POLOTSKYI, H. A. Problems of improving labour payments on the state farms. (Uk) Visn. Sil's'kohospod. Nauk. 1:10-15. Jan.1967. 20 V82  
Russian summary.
- 88498 SOLL, C. H. Chamber of Agriculture [Landwirtschaftskammer Schleswig-Holstein] and contract labor. (Ge) Lohnunternehmen Land-Forstwirtschaft. 23(3):82-83. 1968. 58.8 D81
- 88499 SOUHRADA, V. Remuneration of managerial labor of state farms. (Cz) Statni Statky 3:44-45. 1968. 19.5 St2
- 88500 STURT, D. W. The federal minimum wage law and Michigan farm employers. Mich. State Hort. Soc. Annu. Rep. 96:56-57. 1966,pub.1967. 81 M58
- 88501 STURT, D. W. Michigan's minimum wage act of 1964 as amended, and farm employers. Mich. State Hort. Soc. Annu. Rep. 96:54-55. 1966,pub.1967. 81 M58
- 88502 TAGGART, W. J. Farm work planning and the adjustment of labour availability to allow for weather loss. Farm Econ. [Oxford] 11(5):205-214. Ref. 1967. 281.8 F223
- 88503 TESSIER, S. Belgium: Agro-Service. (Ge) Lohnunternehmen Land-Forstwirtschaft. 22(8):188,190. Aug.15,1967. 58.8 D81  
Contract labor and the Nationale Centrale Landbouw-Service.
- 88504 TOAN, C. S. The fruit harvest labor picture in Virginia and other Eastern States. Mich. State Hort. Soc. Annu. Rep. 96:26-28. 1966,pub.1967. 81 M58
- 88505 TORII, Y. Fluctuations in wage increases and in marginal productivity. (Ja) Econ. Rev. 18(3):262-267. July 1967. 280.8 Ec798
- 88506 TYRCHNIEWICZ, E. W. Minimum wage legislation in agriculture. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Feb.7, 1967,2 p. HD9004.A1K3
- 88507 TYRCHNIEWICZ, E. W. Prospects for unionization of farm workers. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., May 30, 1967,2 p. HD9004.A1K3
- 88508 U. S. AGRICULTURAL STABILIZATION SERV. Your career in ASCS. U. S. D. A. Misc. Publ. 1078,folder. Apr.1968. 1 Ag84M
- 88509 WATERMAN, W. We must face the problems of migrants and former migrants in our communities. N. Y. State Hort. Soc. Proc. 113:71-74. 1968. 81 N484
- 88510 WATSON, J. R. Cutting labor costs in turf management. Tex. Turfgrass Conf. Proc. 22:20-25. Dec.1967. 60.19 T31  
By mechanization.
- 88511 WELTY, V. Reaching youth through NYC [Neighborhood Youth Corps]. Ext. Serv. Rev. 39(5):14-15. May 1968. 1 Ex892Ex  
Oregon extension program to find youth employment.
- 88512 WERNER, K., and FISCHER-GURIG, A. Possibilities in the fixing of working time in cattle stalls. (Ge) Z. Agrarikon. 10(3):150-154. 1967. 281.8 Z3  
In East Germany.
- 88513 WESTBERG, F. What shall we do with the bodies? Wash. State Hort. Ass. Proc. Dec.5-7,1966:51-54. 81 W273  
Training of fruit harvest labor.
- 88514 WISNIEWSKI, P. Work competition in poultry and egg industry. (Pol) Drobiarstwo 15(6):19. June 1967. 47.8 P953
- 88515 ZARIN, V. Y. A shift to the five day milking week on the cattle farms in the Latvian SSR. (Rus) Zhivotnovodstvo 6:23-28. June 1967. 49 Z6
- 88516 ZHAROV, F., and GAINETDINOV, M. Scientific organization of labor; how to understand it? (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 7:7-8. July 1967. 281.8 Se4

#### AGRICULTURE - SITUATION, POLICIES, AND PROGRAMS

- 88517 ADACHI, J. The features of tropical agriculture. (Ja) Agr. Asia 5(9):8-15,map. Sept. 1967. 22.5 Aj5
- 88518 ANDERSON, A. Agricultural policy goal in the USA. (Sw) Kalmar Lans Hushallnings-sallsk. Tidskr. 2:23-25. Apr.1967. 11 K123
- 88519 ANTHONY, K. R. M., and JOHNSTON, B. F. Notes on a visit to Mexico, September 1966. Empire Cotton Growing Rev. 44(2):100-104. Apr.1967. 72.8 Em7  
To study agricultural development.
- 88520 AUBINEAU, M. Agriculture and the world economy. (Fr) Agriculture (Paris) 306:355-358. Dec.1967. 14 Ag823  
Outlook for developing areas; includes taxation.
- 88521 AUTRET, M. The marriage of health and agriculture. (Fr) Int. Congr. Nutr. Proc., 7th Congr., v.1:82-86. 1966,pub.1967. TX345.153 1966  
Need for agricultural planning to meet nutritional needs.
- 88522 BACON, R. E. Our Southeast Asia policy. Farm Found. Increasing Understanding Public Probl. Policies 1967:13-18. 275.29 F22
- 88523 BHATIA, S. S. A new measure of agricultural efficiency in Uttar Pradesh, India. Econ. Geogr. 43(3):244-260,map. July 1967. 278.8 Ec7  
Methods.
- 88524 BIGGS, E. Farming in 1967. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:222-226. 64.9 On83
- 88525 BLUE, R. N. United States policy in Southeast Asia. Farm Found. Increasing Understanding Public Probl. Policies 1967:3-12. 275.29 F22
- 88526 BOCCI, P. E. Danish agriculture in step with the times. (It) Agri Forum 9(3):83-91,map. Mar.1968. 16 Ag8233
- 88527 BOULOS, L. On the agricultural potentialities of the western Mediterranean coastal strip of Egypt. Pol'nohospodarstvo 14(3):211-213. 1968. 19.5 P752
- 88528 BROWN, L. R. The world outlook for conventional agriculture. Science 158(3801):604-611. Ref. Nov.3,1967. 470 Sci2
- 88529 BUTINAR, J. Current problems of the agriculture of the Maribor area. (Sl) Nase Gospod. 12(6/7):144-148. June 25,1967. 280.8 N17

- 88530 CARVALHO, O. DE. SUDENE [Superintendencia do Desenvolvimento do Nordeste] and its directives for the agricultural expansion of the Northeast. (Por) SUDENE (Supt. Desenvolvimento Nordeste) Bol. Econ. 11(3):75-89. Oct./Dec.1966. HC186.A1S92
- 88531 CASADIO, G. P. A concerted policy for agricultural structures. (It) Agri Forum 9(1):4-6. Jan.1968. 16 Ag8233  
In the European Economic Community; includes price policy.
- 88532 CASADIO, G. P., and OTTAVIANI, O. Five years of agricultural legislation. (It) Agri Forum 9(4):113-114. Apr.1968. 16 Ag8233
- 88533 CLERC, F. Power and limitations of the organizational policies applied to agricultural exploitation of the countries of the European Common Market. (Fr) Rev. Franc. Agr. 18: 51-55. Autumn 1967. 281.8 R328
- 88534 DAVAN, C. F. U. S. farm change and its impact. World NPKS 8:7-9. Feb.1967. HD9483.A1W6
- 88535 DELL'ÉVA, C. The 1967 agricultural year. (It) Agri Forum 9(3):80-81. Mar.1968. 16 Ag8233  
Italy.
- 88536 DIMENY, I. Main tasks of agriculture and food industry. (Hu) Magyar Mezőgazdaság 23(1):3-4. Jan.3,1968. 19 M27
- 88537 DZYUBZ, I., and KOIKOV, V. Considerable changes. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 7:3-4. July 1967. 281.8 Se4  
Effect of socialism on agriculture and economic growth of the Kalmyk ASSR.
- 88538 EGGERS, H. Agricultural designs in developing countries: thoughts about the outline of a future policy. (Ge) Z. Ausländische Landwirt. 6(4):321-338. Nov.1967. 281.8 Z32  
English summary.
- 88539 FERRIERE, J. F. de. Agriculture in Haute Provence. (Fr) Potasse 42(352):27. Feb.1968. 57.8 P84
- 88540 FILLERUP, O. W. The growing revolution in California agriculture. Mich. State Hort. Soc. Annu. Rep. 96:18-26. 1966, pub.1967. 81 M58  
Federal government's alleged role in land distribution and labor problems.
- 88541 FRANCE, DIRECTION DE LA DOCUMENTATION. L'agriculture dans la région parisienne [Agriculture in the Paris region]. France. Dir. Doc. Notes Etudes Doc. 3438,50 p., map. Nov.20,1967. 280.9 F843
- 88542 FREEMAN, M. American agriculture, the agricultural situation and perspectives for 1968. (Fr) Agriculture [Paris] 309:75. Mar.1968. 14 Ag823
- 88543 GEORGIA, UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Available publications; University of Georgia, College of Agriculture, 1968. Athens, 1968. 47 p. 275.29 G29A
- 88544 GIRDLESTONE, P. C. The country's future. Farm Buildings Ass. J. 11:89-90. Dec.1967. 296.9 F22  
Great Britain's farm units and buildings.
- 88545 GOOR, G. A. W. VAN DE. Agriculture with special reference to rice cultivation in humid tropical zone deltas. Symp. Sci. Probl. Humid Trop. Zone Deltas Implications. Proc. 1966:305-316. Ref. GB1205.S3  
Includes discussion.
- 88546 GREENE, J. J. Agricultural situations and problems, Canada and the United States. Can. Agr. Eng. 9(2):84-85,126. July 1967. 58.8 C164  
Includes potatoes.
- 88547 HAUSERBERGER, S. Common agricultural policy of the European Economic Community and its implications. (Ge) Agr. Rundsch. 3:55-62. July 1967. 280.8 Ag82  
Includes marketing, communications, financing.
- 88548 HESLINGA, C. F. Farming in the Bloemfontein district. 3. At present. Farming S. Afr. 42(10):13,15,21. Jan.1967. 24 S842
- 88549 HILL, B. E. Arable farming prospects in the Common Market. Arable Farmer 1(5):12-14, map. Mar.1967. S3.A7  
Possible effects on Great Britain.
- 88550 HILLMAN, J. S. An agricultural policy proposal. Farm Found. Increasing Understanding Public Probl. Policies 1967:83-92. 275.29 F22
- 88551 HOLANDA, A. N. C. Orientation mechanisms in the private sector. (Por) SUDENE (Supt. Desenvolvimento Nordeste) Bol. Econ. 3(1): 23-44. Jan./Mar.1967. HC186.A1S92  
Includes agricultural promotion practices.
- 88552 HOPPE, C. Siebengebirge, a geographical essay. (Ge) Ber. Deut. Landeskunde 38(2):192-213. June 1967. 18 B454  
Agriculture and forestry included.
- 88553 HOWALD, O., GASSER, U., and KRUSI, J. Lights and shadows on the farm economy of the U.S.A. (Ge) Agrarpolit. Rev. 24(2/3):41-108, map. Feb./Mar.1968. 281.8 Ag824  
Account of a tour, including a visit to the Department of Agriculture.
- 88554 HULGAARD, S. A. Norwegian farming. (Da) Tidsskr. Landokon. 154(9):489-494. 1967. 11 T43
- 88555 JAENKE, E. A. Today and tomorrow in agriculture. Barley Impr. Conf. Proc. Jan.19,1967:74-75. 59.9 M583
- 88556 JAGIELSKI, M. Tasks of agriculture in the current year. (Pol) Nowe Roln. 16(3):1-3. 1967. 20.5 N86  
Government policies.
- 88557 JAMIL, M. B. Tropical agriculture and food production with special reference to Malaysia. Int. Congr. Nutr. Proc., 7th Congr., v.3:226-243. Ref. 1966, pub.1967. TX345.I53 1966  
Includes agricultural policy and crop diversification.
- 88558 JECEK, F. On new forms of cooperation between science and agricultural practices. (Pol) Nowe Roln. 16(3):27-28. 1967. 20.5 N86  
Extension work programs included.
- 88559 KALDOR, D. R. Policy for commercial agriculture. Farm Found. Increasing Understanding Public Probl. Policies 1967:59-74. 275.29 F22  
Proper exploitation of productive capacity of U. S. agriculture.
- 88560 KHUDAYBERDYEV, N. Strides in Uzbek agriculture cited. U. S. Joint Publ. Res. Serv. Transl. USSR Agr. 224:16-19. Nov.16,1967. (JPRS 43,343; TT 67-33967) 173 J663Tso  
Translation from Pravda Vostoka, Oct.8, 1967:1-2.  
Issued by CFSTI.
- 88561 KLEMM, V. The development of agriculture in the German Democratic Republic since the second S.E.D. (Sozialistischen Einheitspartei Deutschlands) party conference (July 1952). (Ge) Z. Agrarikon. 10(5):227-237. Ref. 1967. 281.8 Z3
- 88562 KOHN, P. A worldwide general plan for agriculture. (Ge) Z. Ausländische Landwirt. 6(4): 339-353. Nov.1967. 281.8 Z32  
English summary.  
FAO (Food and Agriculture Organization of the UN).
- 88563 KOREA annual, 1967. Seoul, Hapdong News Agency, 1967. 503 p. 225 K84Ae  
Includes agriculture and trade.
- 88564 KOUDELE, J. W. The world food problem. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Aug.29,1967,2 p. HD9004.A1K3  
Food relief programs and other policies.
- 88565 MANRAI, M. L. Some aspects of planning agriculture. Agr. Situation India 22(4):369-372. July 1967. 281.9 In23



- 88566 MARSHALL, P. R. Farming cameo. 47. Atherstone, Warwickshire. Great. Brit. Min. Agr. Fish. Food. Agr. 73(12):598-599. Dec.1966. 10 G79J
- 88567 MASE, R. V. Advantages of the rehabilitation scheme. *Ulimo Nemfuyo* 2(2):3. June 1966. S17.U4  
South Africa.
- 88568 MCMURTRY, G. Influences on commercial agricultural policies. *Farm Found. Increasing Understanding Public Probl. Policies* 1967:93-100. 275.29 F22
- 88569 MEDICI, G. Interrogations on the E.E.C. (It) *Agri Forum* 9(3):73-74. Mar.1968. 16 Ag8233  
Agricultural policy.
- 88570 MEHREN, G. L. Exporting agricultural technology. *Nat. Res. Council. Agr. Res. Inst. Proc.* 1967:14-22. 4 N2122  
To developing areas.
- 88571 MERCIER, E. The potentials and problems in Eastern Canada's agriculture. *Ontario Soil Crop Impr. Ass. Addresses Proc.* 1967:190-201. 64.9 On83
- 88572 MILANOVIC, P. Possibilities for the development of agriculture in 1968. (Se) *Glasnik* 12 (2):14-19. 1968. 280.28 Z13
- 88573 MONTGOMERY, G. Are there more hungry people. *Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform.*, Feb.28,1967,2 p. HD9004.A1K3  
Agricultural policies.
- 88574 NADANASABAPATHY, V. Scientific technical and agricultural reference works in the University of Malaya Library. *Kuala Lumpur, University of Malaya Library*, 1967. 78 p. Z7401.N3
- 88575 NEETZ, R. E. Agricultural progress in Eastern Europe. *Foreign Agr.* 6(25):10-11. June 17,1968. A281.9 F76Fo
- 88576 OYENUGA, V. A. Agricultural production and nutrition improvement. *Int. Congr. Nutr. Proc.*, 7th Congr.,v.3:243-248. 1966,pub.1967. TX345.I53 1966  
Nigeria.
- 88577 PAARLBERG, D. Emerging farm policies. *Cargill Crop Bull.* 42(7):17-20. July 1967. 281.8 C19
- 88578 PAPAGEORGIOU, E. The agriculture of Greece. (Ge) *Agrarpolit. Rev.* 23(13):529-553. Sept.1967. 281.8 Ag824  
In relation to the European common market.
- 88579 PASQUALE, F. Green Plan No. 2 in synthesis. (It) *Genio Rurale* 30(5):425-441. May 1967. 281.8 R522
- 88580 PICCARDO, T. A country on the road to development: Israel. (It) *Indus. Cotoniera* 2(6):407-412,map. June 1967. HD9886.I8I5  
Chiefly agricultural; includes cotton production.
- 88581 PRINGLE, W. L. A look at Turkish agriculture. *Forage Notes [Ottawa]* 13(1):10-12. Spring 1967. 60.8 F742
- 88582 RADHAKRISHNAN, A. Intensive Agricultural Area Programme and High Yielding Varieties Programme. *Madras Agr. J.* 54(6):312-317. June 1967. 22 M262  
In India.
- 88583 ROCKEFELLER FOUNDATION. Progress report: toward the conquest of hunger 1965-1966; the Rockefeller Foundation program in the agricultural sciences. New York, 1966. 231 p. 281.9 R59  
Research and technical assistance.
- 88584 RODINSON, D. The agricultural future of the plateau of Neulise. (Fr) *Inform. Agr. (Paris)* 367:23-24. Feb.1967. HD1945.A1I5
- 88585 RUAKURA FARMERS' CONFERENCE WEEK, HAMILTON, N. ZEAL., 1967. Proceedings. Wellington, 1967. 232 p. 49.9 R82
- 88586 RUDD, R. W. Alternative policies for commercial agriculture. *Farm Found. Increasing Understanding Public Probl. Policies* 1967:75-82. 275.29 F22  
Problems of management of land, labor, and markets for optimum production.
- 88587 SARKAR, P. C. The planning of agriculture in India. Rotterdam, 1966. 107 p. Ref. (Rotterdam University Press. Economics Series. v. 6) HD2073.S3 1966
- 88588 SCHINDLER, C. Agriculture in the New Guinea Highlands. *World Crops* 19(4):38-43,map. Ref. Sept.1967. 281.8 W892
- 88589 SCHLEINZER, K. Politico-agricultural balance sheet for the first half of 1967. (Ge) *Agr. Rundsch.* 3:53-55. July 1967. 280.8 Ag82  
Legislation, policies, and marketing in Austria.
- 88590 SCHLEINZER, K. Problems and tasks of agricultural policy. (Ge) *Forderungsdienst* 16(3):73-85. Mar.1968. 19 F75  
Includes increased labor productivity, improvement of the agrarian structure, improvement of farm organization, measures on marketing and prices, and social and educational measures in Austria.
- 88591 SCHRATT, H. Development as an instrument of agricultural policy. (Ge) *Forderungsdienst* 16(3):86-96. Mar.1968. 19 F75  
Austria.
- 88592 SHRISHRIMAL, W. C. Dr. D. R. Gadgil on planning. *Maharashtra Co-op. Quart.* 51(1):45-53. July 1967. 280.28 B63  
For agricultural development.
- 88593 SOLVERUD, S. Production forecast of Norwegian agriculture. 2. (No) *Norsk Landbruk* 3:16-17,22. Feb.9,1968. 11 N8122
- 88594 SRINIVASAN, R., and SUBRAMANIAN, S. R. Resource efficiency in intensive agricultural district programme and non-intensive agricultural district programme farms. *Madras Agr. J.* 54(7):353-357. July 1967. 22 M262
- 88595 STEPHANSON, B. T. Agriculture in Trinidad. *Alberta Univ. Fac. Agr. Agr. Bull.* 7:14-18. Feb.1968. 101 AL1A
- 88596 STONYER, E. J., and DONOVAN, W. G. Preparation of economic reports for government—"grass roots" problems. *Lincoln. Coll. Agr. Econ. Res. Unit Publ.* 48:145-152. 1968. 281.9 L632  
In rural development schemes.
- 88597 STRAUSZ, D. A. Soviet agriculture—observations and comments. *Wash. State Hort. Ass. Proc.* Dec.5-7,1966:9-18. 81 W273
- 88598 TAKES, C. A. P. Pilot projects for integrated rural development. *Int. Inst. Land Reclam. Impr. Annu. Rep.* 1966:6-13. 54.9 In8A
- 88599 TAYSI, M. V. The development of plant production in subtropical and tropical areas. (Ge) *Int. Congr. Nutr. Proc.*, 7th Congr.,v.4:891-895. 1966,pub.1967. TX345.I53 1966  
Review of the literature.  
Agricultural policy for increased production.
- 88600 TENNESSEE, DEPT. OF FINANCE AND ADMIN. Tennessee—its resources and economy. Volume two, Tennessee's natural resources. Nashville, 1966. 70 p.,map. Ref. HC107.T3A2  
Contains a section on agriculture.
- 88601 THIESENHUSEN, W. C. Grassroots economic pressures in Chile: an enigma for development planners. *Land Tenure Center. LTC [Publ.]* 3(28),39 p.,map. 1966. HD107.L33
- 88602 THOMAS, J. Agriculture: the legislative story. *Fla. State Hort. Soc. Proc.* 80:XXIX-XXXII. May 1,1968. 81 F66
- 88603 TRUDEAU, P. E. Canada's Prime Minister on agriculture. *Foreign Agr.* 6(29):9-11. July 15, 1968. A281.9 F76Fo

- 88604 TURNBULL, J. Making results of scientific studies available for effective agricultural use. Nat. Res. Council Agr. Res. Inst. Proc. 1967:163-172. 4 N2122  
On the Current Research Information System (CRIS) in the U. S. Department of Agriculture.
- 88605 U. S. DEPT. OF AGRICULTURE. Agriculture/2000; report of the Secretary of Agriculture, 1967. Washington, 1968. 105 p. 1 Ag84A
- 88606 USAID/GHANA AGRICULTURE CONFERENCE, 7, ACCRA, GHANA, 1966. Proceedings. Accra? U. S. AID Mission to Ghana, 1966? 175 p. S401.U5
- 88607 VANNONI, V. Luxembourg agriculture. (It) Agri Forum 9(1):22-24, map. Jan. 1968. 16 Ag8233
- 88608 VISWANATHAN, S. S. Shouldn't budget bear imprint of plan? Yojana 12(3):25-26. Feb. 18, 1968. 380.8 Y7  
Agricultural planning and budgeting as complementary fields.
- 88609 VOLKER, A. The deltaic area of the Irrawaddy River in Burma. Symp. Sci. Probl. Humid Trop. Zone Deltas Implications. Proc. 1966:373-379, map. Ref. GB1205.S3  
Agriculture included.
- 88610 WAL, S. I. VAN DER. Whither agriculture? Planning for the future. (Du) Neth. Dir. Landbouw Verslag Landbouwkundig Onderz. Noordelijk-Groningen. 1967:66-74. 12 N38Vg
- 88611 WARE, T. M. Agriculture in American foreign policy. Nat. Res. Council Agr. Res. Inst. Proc. 1967:1-13, map. 4 N2122
- 88612 WISEMAN, A. Soviet agriculture. Year Book Agr. Co-op. 1966:259-269. 280.29 H78
- 88613 WISS, C. B. L. Italian agriculture today. World Crops 19(1):76-77. Mar. 1967. 281.8 W892
- 88614 WITTEW, S. H. Approaching maximum capacity in production - biological limits of productivity. Nat. Res. Council Agr. Res. Inst. Proc. 1967:97-124. Ref., p. 121-124. 4 N2122
- 88615 YAMAZOE, T. Impressions on seeing China for the first time. (Ja) Agr. Asia 5(6):3-9. June 1967. 22.5 Aj5  
The second Ajia Nogyo visit to China: includes agricultural subjects.
- Subsidies
- 88616 ANDERSON, J. F. Public agencies assisting the rural outdoor recreation entrepreneur. Va. Polytech. Inst. Ext. Bull. 301:365-374. Sept. 1966. 275.29 V81B  
Includes aid under the Land and Water Conservation Fund Act of 1965.
- 88617 FRENGLEY, G. A. G. An ex ante evaluation incorporating uncertainty, of subsidies for soil conservation (South Island high country run). Lincoln. Coll. Agr. Econ. Res. Unit Publ. 48: 164-165. 1968. 281.9 L632
- 88618 GUNN, H. J. Making the most of the new cash grants. Arable Farmer 1(4):8-9, 11. Feb. 1967. S3.A7  
Great Britain.
- 88619 TARNVIK, N. Governmental support for small farmer during the adjustment process. (Sw) Hallands Lans Hushallningssallsk. Tidskr. 10(6):22-23. Dec. 1967. 11 H152  
Government aid to farmers of retirement age.
- FARM MANAGEMENT AND LAND ECONOMICS**
- 88620 ABRANOV, A. Democracy within collective farms. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 9:7. Sept. 1967. 281.8 Se4
- 88621 ABROMEIT, K. 5 Betriebe Nutzungsformen; Futterbau, Rindviehhaltung [5 farm types; forage production, cattle raising]. Mod. Landwirt 5, 88 p. 1966. 18 M722
- 88622 ACHARYA, T. K. T. Farm budgeting to increase farm profits. Madras Agr. J. 54(4):186-194. Apr. 1967. 22 M262
- 88623 ACHARYA, T. K. T. A note on the methodological considerations in fitting the Cobb-Douglas function to data from samples of sugarcane farms of Queensland, Australia. Madras Agr. J. 54(12):623-630. Dec. 1967. 22 M262
- 88624 ADAMS, G. A one man farm. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967: 213-215. 64.9 On83
- 88625 ALSTON, D. The large scale cow unit. Farm Buildings Ass. J. 11:30-36. Dec. 1967. 296.9 F22  
Great Britain.  
Includes discussion.
- 88626 ANEMA, P. Large dairy farms in England. (Du) Neth. Dir. Landbouw. Landbouwvoorlichting 24(12):436-438. Dec. 1967. 12 N383M
- 88627 ATANASOV, A. Some managerial-economic problems of forage production in Bulgarian state farms. (Bu) Zhivotnovodstvo 21(4):42-44. Apr. 1967. 49 Z62
- 88628 BAGLEY, E. S. Short-term business forecasting; science or art? Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Jan. 24, 1967, 2 p. HD9004.A1K3  
Forecasting market and weather conditions for farm management.
- 88629 BAGLEY, E. S. Who gets the benefits of technological progress? Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Feb. 20, 1968, 2 p. HD9004.A1K3  
Farming methods.
- 88630 BAGROVA, A. Specialization and concentration of grain production in the Volgograd Region. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 7:14-16. July 1967. 281.8 Se4
- 88631 BAKANOV, B., SHIMANAYEV, V., and ZHE-LUDKOV, A. Organization and administration plan of the specialized state farm Kubanets. (Rus) Zhivotnovodstvo 6:33-39. June 1967. 49 Z6  
Swine.
- 88632 BALDINI, G. F. The making of field dimensions adequate. (It) Genio Rurale 30(2):123-128. Feb. 1967. 281.8 R522  
Size in relation to soil factors such as drainage and irrigation and to mechanization.
- 88633 BAUER, H. The family farm of tomorrow. (Ge) Agr. Rundsch. 3:72-75. July 1967. 280.8 Ag82  
Austria.
- 88634 BELIC, J. Systems and processes of cattle production on large farms in Yugoslavia. (Fr) Mediterranea 16:289-297. Oct./Dec. 1967. 281.8 M462  
English summary.
- 88635 BELL, H. M. Problems in managing a high-producing dairy farm. 2. A Wairarapa farm. Massey Univ. Dairyfarming Annu. 1967:49-54. 44.9 M382
- 88636 BENDA, J. Five years of activity of the Institute for Scientific System of Management [Ustav pro Vedeckou Soustavu Hospadareni] at Prague. (Cz) Prague. Vyzk. Ustav Zemed. Vestn. 13(1):36-40. 1966. 19.5 C333
- 88637 BENDA, V. On the problems of rationalization in the production. (Cz) Statni Statky 3:35. 1968. 19.5 St2  
Chiefly specialization and planning.
- 88638 BISHOP, W. F. P. Great Britain; agricultural contractors. (Ge) Lohnunternehmen Land-Forstwirtschaft. 22(8):192, 194. Aug. 15, 1967. 58.8 D81  
National Association of Agricultural Contractors.



- 88639 BISICCHIA, L. An ancient mountain community is reborn in Valtellina. (It) *Esso Agr.* 17(6):26-27. Dec.1,1967. 58.8 Es7  
Italian sheep raising cooperative involving cooperative use of land.
- 88640 BOESCH, M. Reflections on a concrete example of linear programming. (Fr) *Potasse* 41(348):181-185. Oct.1967. 57.8 P84  
Farm management in France.
- 88641 BOGDANOVIC, M. Theoretical value and practical use of production studies in the economics of enterprises, with special regard to the agricultural enterprises. Application of modern mathematical methods in economic studies. (Se) *Poljoprivredni Pregl.* 15(7/8): 225-238. July/Aug.1967. 21.5 P753  
Chiefly linear programming in the maximization of production.
- 88642 BOYKIN, C. C. Economic and operational characteristics of cattle ranches; Texas High Plains and Rolling Plains. *Tex. Agr. Exp. Sta.* MP-866,20 p.,map. Jan.1968. 100 T31M  
U. S. Department of Agriculture, cooperating.
- 88643 BRUNDKE, M. Part-time farming with present tasks and goals. (Ge) *Landarbeit* 19(6):41-44. June 1968. 18 L2355
- 88644 BRUNING, G. Decision-making in farm management. *Kans. State Univ. Ext. Ext. Econ. Kans. Farm Bus. Inform.*, May 22,1968,2 p. HD9004.A1K3
- 88645 BURKHART, G. W., SHAUDYS, E. T., and HUNT, J. E. Current and average prices for use in farm planning, Ohio, 1967. *Ohio. Agr. Exp. Sta. Mimeogr. Bull.* AE 412,23 p. Oct. 1967. 281.9 Oh32
- 88646 BUXTON, B. M., and JENSEN, H. R. Economies of size in Minnesota dairy farming. *Minn. Agr. Exp. Sta. Sta. Bull.* 488,55 p. Ref. 1968. 100 M66  
U. S. Department of Agriculture, cooperating.
- 88647 CALLAGHER, J. The principles and practice of organizing a dairy farm. 2. Practice. *Massey Univ. Dairyfarming Annu.* 1967:101-105. 44.9 M382
- 88648 CAMERON, M. L. An introduction to North Auckland farming. *New Zeal. Grassland Ass. Proc.* 1967:9-14. 60.19 N48  
Dairy industry.
- 88649 CAMPANELLO, F. The cooperative cow-barns of Reggio Emilia. (It) *Esso Agr.* 16(4):28-29. Aug.1967. 58.8 Es7
- 88650 CHAMBLISS, R. L., and LOOPE, K. E. Modern farm management meets the challenge. *Va. Polytech. Inst. Ext. Va. Farm Econ.* 205:3-13. Sept./Dec.1967. 275.29 V813
- 88651 CHAUDHURI, A. K. R. Crop planning with an assured niche of arable acreage for growing fodder all through the year and feeding for milk production in the intensive cattle development areas. *Indian Dairyman* 19(9):313-317. Sept.1967. 44.8 In282  
Diversified farming.
- 88652 CHERNYSHEV, N. A. Taking inventory of irrigated and drained soils. (Rus) *Uchet Finansy Kolkhoz. Sovkhoz.* 6:10-13. June 1967. 30.69 Uc4  
Planning on the collective and state farms.
- 88653 CHEVALIER, F. The ejido and stability in Mexico. *Joint Publ. Res. Serv. Econ. Geogr. Transl. Lat. Amer.* 93:17-45. Ref. Oct.5,1967. (JPRS 42,852; TT 67-33478) HC121.E2  
Translation from *America Indigena* 27(2): 163-197. April 1967.  
Issued by CFSTL
- 88654 CLIFFORD, H. J. High dairy production -- the farm and the farmer. *Ruakura Farmers Conf. Week Proc.* 1967:206-221. Apr.9,1968. 49.9 R82  
Pilot survey of farm management in New Zealand.
- 88655 COLLART, E. Fight against hunger by modern agriculture. (Fr) *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:886-891. 1966, pub.1967. TX345.153 1966  
Improved farming methods for Africa.
- 88656 COTTON, G. The landed groups. (Fr) *Inform. Agr. (Paris)* 367:32-33. Feb.1967. HD1945.A115  
Cooperative farming association; includes land tenure aspects.
- 88657 CRESCINI, F. The agricultural holding in the faculties of agriculture. (It) *Ital. Agr.* 105(3): 211-226. Mar.1968. 16 It1
- 88658 DEBACA, R. What will the 1980 cattle ranch be like? *Ark. Cattle Bus.* 4(3):11,24. Mar.1968. 43.8 Ar43
- 88659 DESSIRIER, M. The activities of a center for departmental management. (Fr) *Potasse* 41(348):171-179. Oct.1967. 57.8 P84  
Advisory center for farm management, bookkeeping, and economic studies.
- 88660 DIDURENKO, B. F., and MIKHOLAP, V. YA. Seasonal deviation in planning production costs. (Rus) *Uchet Finansy Kolkhoz. Sovkhoz.* 8:30-31. Aug.1967. 30.69 Uc4  
Accounting and financial management on the cattle state farms.
- 88661 DIGBY, M. Agricultural co-operation in Yugoslavia. *Year Book Agr. Co-op.* 1967:162-175. 280.29 H78
- 88662 DILLON, W. S. Business management of turkey production. *Drumstick* 10(2):14,20-21. Mar.1966. 280.38 C12
- 88663 DMITRIEV, N. G. Specialization and husbandry. (Rus) *Zhivotnovodstvo* 6:54-57. June 1967. 49 Z6  
Dairy cattle.
- 88664 EBERHARDT, M. Theoretical and methodical basis of the technology of agricultural production. (Ge) *Z. Agrarikon.* 10(3):116-127. Ref. 1967. 281.8 Z3  
East Germany.
- 88665 EDMISTER, T. W., and CARLSON, C. W. Approaching maximum capacity in production: management efficiency in the use of available land resources. *Nat. Res. Counc. Agr. Res. Inst.* Oct.16-17,1967:125-135. 4 N2122
- 88666 EREMIAS, V., and others. Dodavatel'sko-odberatel'ske vzťahy a rozvoj služieb v zdokonalenej sustave planoviteho riadenia pol'nohospodárstva [Production, consumption and development of services under the improved system of farm management]. *Zdokonalena Sustava Riadenia Pol'nohospod.* 7,94 p. Ref. 1966. HD1940.C95A2  
J. Hanibal, F. Kubat, and K. Vlcek, joint authors.
- 88667 ERSHOVA, A., and KOCHETYGOV, I. Proper management of branches on the grain-cattle state farms. (Rus) *Sel'skokhoz. Proizvodstvo Povolzh'ya* 7:11-12. July 1967. 281.8 Se4
- 88668 FORNEY, J. L. Raising bait fish and crayfish in New York ponds. *Cornell Univ. Ext. Cornell Ext. Bull.* 986,rev.,31 p. Apr.1968. 275.29 N48E  
Chiefly supplementary farm income.
- 88669 FOSS, K. Report on the experimental farm Moldstad in 1966. (No) *Ny Jord* 54(3):123-127. June 1967. 282.28 N98
- 88670 FURNESS, G. W. Farm management standards 1967-1968. *Agr. Northern Ireland* 42(9):281-287. Jan.1968. 256.13 Ag82M
- 88671 GADZHIEV, I., and OSMANOV, O. Strengthening economic activities on the state farms. (Rus) *Uchet Finansy Kolkhoz. Sovkhoz.* 4:28. Apr.1967. 30.69 Uc4  
Dagestan ASSR.
- 88672 GAL, T. The modified method of parametric linear programming. (Cz) *Czech. Min. Zemedel. Les. Hospodar. Ustav Vedeckotech. Inform. Zemedel. Ekon.* 41(1):17-36. Jan.1968. 281.9 C332  
English summary.  
In farming.
- 88673 GASSON, R. Part-time farming and farm size. *Sociol. Ruralis* 7(2):176-189. 1967. 281.29 So12

- 88674 GAVRILOV, M. The experience of progressive farms—for everyone. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 9:5-6. Sept.1967. 281.8 Se4  
Management on the poultry farms.
- 88675 GHILARDI, G. Contribution to research on minimal cultural unit in land consolidation in the Vigizzo region. (It) Turin. Univ. Fac. Sci. Agr. Ann. 1:363-388. 1961-62, pub.1966. S9.T8  
English summary.
- 88676 GOLTER, F. When are long-term intensive capital investments advisable? (Ge) Mitt. Deut. Landwirt.-Ges. 82(49):1624-1630. Dec.7, 1967. 18 N39  
Use of computers in input-output analysis.
- 88677 GRUTER, J. Production functions for various farm structures in Swiss agriculture. (Ge) Schweiz. Landwirt. Forsch. 7(1):70-94. 1968. 17 Sch99  
English summary.
- 88678 GUNN, H. J., and SILVEY, D. R. Profit maximisation in grazing livestock enterprises. Farm Econ. [Oxford] 11(5):199-204. 1967. 281.8 F223  
Dairy cattle.
- 88679 HAESSEL, W., and WINTER, G. R. A study of technological change on fluid milk farms in the Edmonton milk shed, 1940-1964. Alberta. Univ. Dep. Agr. Econ. Agr. Econ. Tech. Bull. 2,106 p. Aug.1966. HD1790.A35A4  
Bibliography, p.84-89.  
Input-output analysis.
- 88680 HARWIN, G. O., FOURIE, P. C., and LOMBARD, J. H. Factors influencing efficiency and gross return under intensive beef production systems. S. Afr. Soc. Anim. Prod. Proc. 5:147-152. 1966. 49.9 So822  
In the Republic of South Africa.
- 88681 HAUGHS, M. A., and HARTLEY, N. The structure of dairy farming in the North-east of Scotland; Aberdeen & District Milk Marketing Board Area. N. Scot. Coll. Agr. Agr. Econ. Dep. Milk Rep. 39,121 p. Apr.1966. 284.3449 N81
- 88682 IGNAT'EV, G. M. Land survey methods abroad (according to data obtained through the study of land resources of USA and Australia). (Rus) Moscow. Univ. Vestnik Ser. 5, Geogr. 3:70-75. May/June 1967. 331.9 M85
- 88683 JANSE, W. Structure of Walcheren farms. (Du) Neth. Dir. Landbouw. Landbouwworlichting 24(12):430-435. Dec.1967. 12 N383M  
Includes farm size and management.
- 88684 JHA, S. C. An empirical analysis of farm size and resource use relationship in Ahmednagar and Nasik districts. Agr. Situation India 22(5):509-515. Aug.1967. 281.9 In23  
Research in productive capacity.
- 88685 JONES, D. O. Beef production systems. Manchester. Univ. Dep. Agr. Econ. Bull. 118/EC62, 30 p. Dec.1967. 10 V66  
Management, costs, and returns.
- 88686 JORGENSEN, P. Denmark; Danish machine station [Landsforeningen Danske Masinstationer]. (Ge) Lohnunternehmen Land- Forstwirtschaft. 22(8):190-191. Aug.15,1967. 58.8 D81
- 88687 KAHN, A. S., and BRAR, G. Role of farmer's wife in decision making. Punjab Agr. Univ. J. Res. 4(1):136-142. Mar.1967. S19.P8
- 88688 KAHN, A. S., and AULAKH, M. S. Village farm plans need group action. Yojana 11(9):23-24. May 14,1967. 280.8 Y7  
In India.
- 88689 KERR, F. F., SORESENSEN, R. P., and AANDERUD, W. G. Eastern South Dakota irrigation yields and management. S. Dak. State Univ. Ext. FS 408,6 p.-folder, map. May 1968. 275.29 So85Fs  
Farm management changes resulting from field crop irrigation.
- 88690 KHAZIEV, R. Capital investments and profitability of production on the collective farms. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 4:11-13. Apr.1967. 281.8 Se4
- 88691 KISRLEV, F. G. Farming system in Dagestan. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 5: 84-87. May 1967. 20 V633  
Management chiefly.
- 88692 KNIGHT, D. A. Computer analysis of Farm Management Association records. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Jan.17,1967,2 p. HD9004.A1K3
- 88693 KNIGHT, D. A. Farm record analysis and changes in agriculture. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., May 29, 1968,1 p. HD9004.A1K3  
Management.
- 88694 KNIGHT, D. A. Research on farm size and efficiency. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Aug.15,1967,2 p. HD9004.A1K3
- 88695 KNIGHT, D. A. A study of farm size and efficiency. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., May 9,1967,2 p. HD9004.A1K3
- 88696 KOCJAN, V. Some current problems of production cooperation between collective farmers and individual farmers. (Sl) Nase Gospod. 13(3):145-156. Ref. Apr.1967. 280.8 N17  
English summary.  
Contract farming.
- 88697 KUME, K. Management of a new dairy farming method on field crop raising farms. 19. (Ja) Chikusan Kenkyu 21(12):95-98. Dec.1967. 49 C43
- 88698 KURATA, T. Business analysis of some co-operative farms. 4. (Ja) Mie Univ. Fac. Agr. Bull. 35:1-52. Mar.1967. 107.6 T78  
English summary.
- 88699 KUZNETSOV, A. Increasing profitability of vegetables. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 9:18-19. Sept.1967. 281.8 Se4  
On the special vegetable farms.
- 88700 LAKATOS, D. Theoretical and practical relations in production-cooperation among production cooperatives. (Hu) Debrecen. Agrartud. Foisk. Tud. Kozlemenyei 11:127-134. 1965, pub.1966. 105.9 D35  
German summary.
- 88701 LANGEMEIER, L. N. The concept of forward planning. Kans. State Univ. Ext. Looking Ahead K-State Econ., Apr.24,1968,2 p. HD9284.U5K3  
Using data processing equipment in farm management.
- 88702 LANGEMEIER, L. N., and FINLEY, R. M. Effect of capital rationing and time on optimal farm organizations. Mo. Agr. Exp. Sta. Res. Bull. 929,49 p. Jan.1968. 100 M693
- 88703 LAWRY, H. B. The principles and practice of organizing a dairy farm. 1. Principles. Massey Univ. Dairyfarming Annu. 1967:95-100. 44.9 M382
- 88704 LEPPER, D. Problems in managing a high-producing dairy farm. 1. A Taranaki farm. Massey Univ. Dairyfarming Annu. 1967:42-48. 44.9 M382
- 88705 LESPERANCE, R. Aspects of specialization in milk production in Quebec. (Fr) Agriculture (Montreal) 24(4):9-14. Dec.1967. 7 Ag82  
Production regions, statistics.
- 88706 LOZA, G. M. Farming system in different economic and natural regions. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 5:75-83. May 1967. 20 V633
- 88707 LUSHCH, H. I. Economic efficiency of intensified livestock husbandry. (Uk) Visn. Sil's'kohospod. Nauk. 9:12-14. Sept.1966. 20 V82  
Russian summary.



- 88708 LYNCH, T. J. Problems in managing a high-producing dairy farm. 3. Massey University No. 3 dairy unit. Massey Univ. Dairyfarming Annu. 1967:55-59. 44.9 M382
- 88709 MAKUMOV, G. I. Effectiveness of specialization. (Rus) Sadovodstvo [Moscow] 10:16-17. Oct. 1967. 80 Sa13  
Fruit farms.
- 88710 MANUEL, M. L. Business coordination in agriculture. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., June 14, 1967, 2 p. HD9004.A1K3  
Contract farming and vertical integration.
- 88711 MARTIN, N. R., and others. Effects of alternative production practices on costs and returns in producing cotton in selected areas of Georgia. Ga. Agr. Exp. Sta. Res. Bull. 34,38 p., map. May 1968. S51.E2  
J. E. Nix, W. C. McArthur, and S. J. Brannen, joint authors.  
U. S. Department of Agriculture, cooperating.
- 88712 MBANGI, C. D. Project report for 1965/1966 season—Umgazi farm. Ulimo Nemfuyo 2(2): 33,38. June 1966. S17.U4
- 88713 MCARTHUR, A. T. G., and SANDERSON, K. T. An assessment of the value of pastoral development in Northland. New Zeal. Grassland Ass. Proc. 29(7):64-77. 1967. 60.19 N48  
Dairy farming and sheep farming.
- 88714 MCQUEEN, I. P. M., and others. New Zealand-style farming in Ireland. Massey Univ. Dairyfarming Annu. 1967:75-86. 44.9 M382  
J. A. Lancashire, D. B. Edmond, and P. O'Keefe, joint authors.
- 88715 MEZEI, S. Socio-economic conditions of the cooperative farming and collectivization of production. (Se) Novi Sad. Poljopr. Fak. Letop. Naucnih Rad. 10:171-185. 1966. 106.6 N85  
English summary.
- 88716 MIL'CHIN, T. I. Activities of the economists on the collective farms. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 9:37-39. Sept. 1967. 30.69 Uc4
- 88717 MOEN, R. A. Dairy farming with plans of expansion. (No) Buskap Avdratt 2:95-96, 105. 1967. 49 B96
- 88718 MPATENI, E. T. Your kraal site, how do you use it? Ulimo Nemfuyo 2(2):24,40,42. June 1966. S17.U4  
Allotment planning.
- 88719 MUELLER, H., and NOLL, W. Problems in the selection of target - criteria with regard to optimizing management perspective plans. (Ge) Z. Agrarikon. 10(5):265-274. Ref. 1967. 281.8 Z3
- 88720 MULLER, L. The father-son holding. (Ge) Wintertagung 1967:34-43. 27 W73  
Includes inheritance in Austria.
- 88721 NELSON, D. Little Hollywood. Our Public Lands 17(2):4-5. Summer 1967. 156.55 Ou7 Utah.
- 88722 NETHERLANDS, PROVINCIALE DIRECTIE VOOR DE RIJKSLANDBOUWVOORLICHTING IN FRIESLAND. Voorlichting en onderzoek. Grasland en veehouderij [Information and research. Grassland and cattle husbandry], 1965. Leeuwarden, 1966. 131 p. SF15.N4A3
- 88723 NYHUS, A. G. New directions in milk production. (No) Buskap Avdratt 4:214-216, 253-254. 1967. 49 B96  
Improvements being made in farm management in Norway.
- 88724 OHLSSON, B. Advantages and disadvantages with large or small farms for egg or broiler. (Sw) Lantmannen 78(25):20-22, 24. Dec. 9, 1967. 11 L234
- 88725 ORTEGA LEDEZMA, O. Systems of management and rural administration in the central valley of the Tuy River. (Sp) Jornadas Agron. Mem., 6th Conf., v.1, paper 22, 28 p. Ref. 1966. S211.J6 1966
- 88726 PANEL discussion - farming systems - today and tomorrow. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:97-99. 64.9 On83
- 88727 PARIS, Q. Estimation of individual firm production functions. (It) Riv. Econ. Agr. 21(6): 56-71. 1966. 281.8 R52  
English summary.
- 88728 PARKS, D. L. Management for profit. Nova Scotia Fruit Growers Ass. Annu. Rep. 103(1): 85-86. Dec. 1966. 82 N85
- 88729 PATCH, R. W. Freedom and development; rural decision-making and agricultural development. Land Tenure Center. LTC [Publ.] 3(22), 35 p. 1966. HD107.L33
- 88730 PAVLOV, G. P. Specialization as important factor in farm developing. (Rus) Sadovodstvo [Moscow] 11:15-17. 1967. 80 Sa13  
Fruit farms.
- 88731 PEARL, M. A. Public land commissions. Our Public Lands 17(2):14-17. Summer 1967. 156.55 Ou7
- 88732 PERONE-PACIFICO, C., PIERACCINI, L., and GRASSINI, M. Function of the tomato supply. (It) Riv. Econ. Agr. 21(5):31-57. 1966. 281.8 R52  
English summary.  
Supply response to prices.
- 88733 PINE, W. H. Public lands. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., June 27, 1967, 2 p. HD9004.A1K3
- 88734 PROEFBOERDERIJ HEINO. [Report of the Experimental Farm Heino], 1965-1966. Ver Proefboerderij Overijssel. Proefboerderij Heino 33,63 p., map. 1966. 64.9 V583
- 88735 PYTKOWSKI, W. Organization of multiple agricultural enterprises. (Pol) Nowe Roln. 16(4):1-2. 1967. 20.5 N86
- 88736 RABINOVICH, M. Economic analysis and the new goals. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 8:15-17. Aug. 1967. 281.8 Se4  
Management and working capital on the collective and state farms.
- 88737 RADOMIROVIC, V. The role of the work outside the farm and of cooperative farming on the reproduction of family farms. (Se) Novi Sad. Poljopr. Fak. Letop. Naucnih Rad. 10:221-237. Ref. 1966. 106.6 N85  
English summary.
- 88738 RIEBE, K. Cooperation of extension workers in the tasks of farm management. (Ge) Betriebswirtsch. Mitt. Wirtschaftsberater 160:3-6. Mar. 15, 1968. 281.8 B462
- 88739 RIGHOLT, J. W. Economic aspects of parcelation and size of originally strip parcelled dairy farms. (Du) Landbouwkundig Tijdschr. 79(8):261-268. Aug. 1967. 105.2 Or3  
English summary.
- 88740 RIJSENBECK, C. J. M. The contemporary evolution of animal production. (Fr) Méditerranée 16:265-273. Oct./Dec. 1967. 281.8 M462  
English summary.  
Family farms.
- 88741 ROSEN, A. Large scale dairying in the United States of America. Farm Buildings Ass. J. 11:124-128. Dec. 1967. 296.9 F22
- 88742 ROSENKRANZ, O. Fifteen years of socialistic agricultural management in the German Democratic Republic. (Ge) Z. Agrarikon. 10(5):237-245. Ref. 1967. 281.8 Z3  
Productive capacity.
- 88743 ROSS, D. M. Organising the farm business. 2. New Zeal. J. Agr. 114(4):76-77, 79, 81. Apr. 1967. 23 N48J  
Financial management.
- 88744 ROSS, D. M. Partnerships in the farm business. New Zeal. J. Agr. 114(5):82-83, 85, 87, 89. May 1967. 23 N48J  
Government policies.
- 88745 SAHNI, O. P., and JOHL, S. S. Economic analysis of some selected farm organizations in the sub-urban area of Ludhiana city. Punjab Agr. Univ. J. Res. 4(1):143-149. Mar. 1967. S19.P8  
Income from small and large vegetable farms.

- 88746 SAKAMOTO, S. Studies on productivity, cost of production and farm income on peasant family farms. (Ja) Shimane Agr. Coll. Bull. 15(A-5):1-7. Jan.1967. S539.J3S5
- 88747 SAZDESKI, M. Cooperative sheep raising. (Se) Sovremeno Zemjod. 13(2):15-16. Feb. 1966. S13.S6
- 88748 SCHOLTZ, D. Methodical and practical problems involved in management projection. (Ge) Z. Agrarikon. 10(3):142-150. 1967. 281.8 Z3  
Agricultural management and planning in East Germany.
- 88749 SHWEITZER, A. The co-operative settlements in Israel under the new co-operative bill. Year Book Agr. Co-op. 1966:211-228. 280.29 H78
- 88750 SIKMA, D. The farmer and management. (Du) Neth. Prov. Dir. Rijkslandbouwvoorlichting Friesland. Voorlichting Onderz. Grasland Veehouderij 1965:116-117. 1966. SF15.N4A3
- 88751 SIMON, C. The civil society of livestock producers of Bressuire. (Fr) Inform. Agr. (Paris). 366:33. Jan.1967. HD1945.A115  
Type of cooperative farming.
- 88752 SIMON, M. O. Fundamentals of livestock raising on the collective and state farms in the western Siberia. (Rus) Zhivotnovodstvo 6:14-18. June 1967. 49 Z6  
Management.
- 88753 SJO, J. Farm management; a behavioral approach. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Aug.8,1967,2 p. HD9004.A1K3
- 88754 SJO, J. Personality characteristics of successful farm managers. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Jan.3, 1967,2 p. HD9004.A1K3
- 88755 SLANI, F. A contribution to the study of the effect of management system on the results of the economy of farms. (Se) Novi Sad. Poljopr. Fak. Letop. Naucnih Rad. 10:187-202. Ref. 1966. 106.6 N85  
German summary.
- 88756 SMOLYAKOV, A. I. Increasing profitability of production methods. (Rus) Uchet Finansy Kolkhoz. 8:26. Aug.1967. 30.69 Uc4  
Chiefly management of the state farms.
- 88757 SOMMERKAMP, G. Farm management evaluation of reclamation. (Ge) Bayer. Landwirt. Jahrbuch 44(spec.no.3):13-15. 1967. 18 L24  
With reference to such statistical methods as linear programming.
- 88758 SPETH, L. Experiences from the investment aid program. (Ge) Bayer. Landwirt. Jahrbuch 44(4):490-499. 1967. 18 L24  
Includes farm management and extension programs.
- 88759 STEWART, J. D. The economic evaluation of investment in farm development—an essay to recommend procedures. Lincoln. Coll. Agr. Econ. Res. Unit Publ. 48:191-196. 1968. 281.9 L632
- 88760 STODDARD, G. E. Management + labor = prosperity. Dairy Herd Manage. 3(12):13-14. Dec.1967. SF191.D3
- 88761 SUBRAMANIAN, S. R., and MEENAKSHI-UNDARAM, V. Response of paddy area to price and time elements—a functional study. Madras Agr. J. 54(1):13-17. Ref. Jan.1967. 22 M262  
Regression analysis.
- 88762 SVINAROV, G. Specialization and concentration of animal husbandry in collective farms. (Bu) Zhivotnovodstvo 21(4):40-42. Apr.1967. 49 Z62
- 88763 SYMONOWICZ, S. There is necessity for specialization in farming. (Pol) Nowe Roln. 16(4):24-25. 1967. 20.5 N86
- 88764 TAYLOR, N. W. A case study of farm development (ex ante). Lincoln. Coll. Agr. Econ. Res. Unit Publ. 48:160-161. 1968. 281.9 L632  
Study of rate of development of a farm on profitability.
- 88765 TORNBJERG, E. Production supervision in practice. (Da) Tidsskr. Landkon. 154(9):477-488. 1967. 11 T43  
Farm management in Denmark.
- 88766 TRENDOTA, M. The economic effectiveness in managing common pastures and meadows. (Pol) Nowe Roln. 16(1):32-34. 1967. 20.5 N86  
In Poland.
- 88767 TRETHERWIE, R. J. Are you going sharefarming? Dairyfarming Dig. 15(1):11-15. Jan./Feb. 1968. 44.8 D1443
- 88768 UELAND, R. The demonstration farm, a new tool in agricultural policy and economy. (No) Norsk Landbruk 2:6-7. Jan.26,1968. 11 N8122
- 88769 VABO, P. Report on the milk production of Rogaland. (No) Buskap Avdratt 2:69-72. 1967. 49 B96  
Farm management.
- 88770 VALLANCE, C. Observations on the development of private dairy farms in Northland. I. The dairy farmer's viewpoint. New Zeal. Grassland Ass. Proc. 1967:32-38. 60.19 N48  
Dairy farm management and finance.
- 88771 WIJMA, G., and DOORNBOS, J. Industrial-economic aspects of the farms in the Province of Groningen. (Du) Neth. Dir. Landbouw Verslag Landbouwkundig Onderz. Noordelijk-Groningen. 1967:74-84. 12 N38Vg
- 88772 WIRTH, A. Questions on farm organization from the point of view of table apple culture. (Ge) Schweiz. Z. Obst- Weinbau 103(11):340-347. May 27,1967. 80 Sch9
- 88773 YOSHIOKA, I. Tato yoton no ante keiei [Stabilized management of large-scale swine raising]. Tokyo, Ie no Hikari Kyokai, 1967. 221 p. (Shin Nogyo Keiei Sosho No. 4, Feb.1967) S562 J3A8
- 88774 ZICH, M. The present state, effectiveness and utilization of economic analysis in state farms. (Cz) Statni Statky 3:43. 1968. 19.5 St2

#### Bookkeeping and Records

- 88775 BEAKA, H. Old and new methods of the calculation of production costs of tobacco. (Se) Sovremeno Zemjod. 13(12):4-7. Dec.1966. S13.S6  
Includes costs of mechanization.
- 88776 BEZ', D. F., and ATROSHCHENKO, I. V. More attention to productive practice. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 6:44-45. June 1967. 30.69 Uc4  
Schooling bookkeepers.
- 88777 BOUTKAN, P. J. Is farm management bookkeeping useful for farmers and gardeners? (Du) Neth. Dir. Landbouw. Landbouwvoorlichting 24(12):414-415. Dec.1967. 12 N383M
- 88778 BRUZHAIKAS, V. V. Sub-accounts are necessary. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 7:18-19. July 1967. 30.69 Uc4  
State farms.
- 88779 BUTYNETS, F. F. Organization of the complex revision. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 8:38-40. Aug.1967. 30.69 Uc4  
In accounting.
- 88780 COLLIANDER, B. Regular bookkeeping of importance for the economy. (Sw) Hallands Lans Hushallningssallsk. Tidskr. 10(6):19-21. Dec. 1967. 11 H152  
Farmer's records.
- 88781 DEACON, R. E., and MALOCH, F. Two-year financial records for 26 Ohio rural nonfarm families in transition. Ohio. Agr. Res. Develop. Center. Res. Circ. 159, 15 p. May 1968. 100 Oh3R  
Income and expenditures.
- 88782 DUBOK, A. A. More attention to the exact calculation of flax costs. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 9:18-20. Sept.1967. 30.69 Uc4  
On the flax farms.
- 88783 EM, V. A. Education of bookkeepers and economists. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 6:43-44. June 1967. 30.69 Uc4



- 88784 FOLLEY, R. W. Records and management. Farm Econ. [Oxford] 11(5):215-217. 1967. 281.8 F223
- 88785 GLUSHCHENKO, N. S. Mechanized accounting on the state farms in Kazakhstan. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 6:25-26. June 1967. 30.69 Uc4
- 88786 GUL'YAKIN, N. D., and REZ', D. F. Separate cost accounting for each crop. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 8:15-16. Aug. 1967. 30.69 Uc4  
On the state farms.
- 88787 JELINEK, A. Zasady uctovnictva, statistiky, kontroly a ekonomicke informacie v zdokonalenej sustave planoviteho riadenia pol'nohospodarstva [Principles of accounting, statistics, control and economic information in the improved system of agricultural management]. Zdokonalena Sustava Riadenia Pol'nohospod. 6, 97 p. Ref. 1966. HD1940.C95A2
- 88788 KOROSTELKIN, G. P. Advantages of the journal type accounting forms. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 6:20-21. June 1967. 30.69 Uc4  
State farms.
- 88789 KOVALENKOV, P. Commercial accounting system is progressing. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 9:12-13. Sept. 1967. 281.8 Se4  
Collective and state farms.
- 88790 KRASNOV, M. K. More attention to the training bookkeepers. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 4:20. Apr. 1967. 30.69 Uc4
- 88791 KRAVTSSEVICH, V. A. Improving control. (Rus) Uchet Finansy Kolkhoz. 7:45-46. July 1967. 30.69 Uc4  
In accounting.
- 88792 LAMYKIN, I. A. Against disconnection in accounting. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 4:9-11. Apr. 1967. 30.69 Uc4
- 88793 LOOMIS, C. W., and LOWRY, A. C. Farm business management electronic accounting program: Farmers instruction manual. Cornell Univ. Coll. Agr. Dep. Agr. Econ. A. E. Ext. 477,18 p. Sept. 1967. 281.9 C81Ae
- 88794 MIKHAILOV, V. A. Experience with introduction of the journal form accounting. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 7:11-14. July 1967. 30.69 Uc4  
On the state farms.
- 88795 POLYAKOV, N. P. Correspondence courses for accountants. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 6:46-47. June 1967. 30.69 Uc4
- 88796 RHENISCH, H. Cost accounting - a key to the future. Wash. State Hort. Ass. Proc. 1967:73-74. 81 W273
- 88797 SCHMIDT, K., and KONEN, J. Methods and first experiences in the mechanical assessment of results of cost account in the LPG in the Rostock district. (Ge) Z. Agrarikon. 10(3):154-160. Ref. 1967. 281.8 Z3  
Cost accounting and agricultural production intensification in East Germany.
- 88798 SEMENOV, I. YA. Introducing the journal-order forms. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 4:15-16. Apr. 1967. 30.69 Uc4  
On the state farms.
- 88799 SHAMURATOV, A. Determination of the amount of the working capital. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 7:39-41. July 1967. 30.69 Uc4  
On the state farms; accounting chiefly.
- 88800 SHAPRANAUSKAS, B. R. Rationalization and the improvement of accounting. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 8:10-11. Aug. 1967. 30.69 Uc4  
Policies in the Lithuanian SSR.
- 88801 SOKOLOV, YA. V. Predecessors of our journal. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 4:20-21. Apr. 1967. 30.69 Uc4  
Accounting periodicals.
- 88802 SORBI, U. Notes about the agricultural bookkeeping. (It) Riv. Econ. Agr. 21(6):47-55. 1966. 281.8 R52  
English summary.
- 88803 STEINMETZ, N. Financial reports for agriculture. (Ge) Betriebswirtsch. Mitt. Wirtschaftsberater 160:13-16. Mar. 15, 1968. 281.8 B462  
Accounting and the problem of indebtedness in German agriculture.
- 88804 SUMTSOV, A. I. Development of the Soviet bookkeeping. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 9:3-6. Sept. 1967. 30.69 Uc4
- 88805 TARASOV, N. S. Calculation and the commercial accounting within the state farms. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 8:24-25. Aug. 1967. 30.69 Uc4
- 88806 TLEUBEKOV, K. N. Improving quality of revision. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 8:41-42. Aug. 1967. 30.69 Uc4  
Accounting.
- 88807 TOKAREVA, M. I. Methodological literature for correspondence courses. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 6:47. June 1967. 30.69 Uc4  
Accounting.
- 88808 TURK, I. Financial accounting and its importance. (Sl) Nase Gospod. 12(2):47-50. Feb. 25, 1966. 280.8 N17
- 88809 VARAVA, A. P., and PIZENGOL'TS, M. Z. Productional quality and the accounting. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 4:6-8. Apr. 1967. 30.69 Uc4  
On the collective and state farms.
- 88810 VINOGRADOV, P. P. We are supporting the journal type accounting forms. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 4:12-13. Apr. 1967. 30.69 Uc4  
State farms.
- 88811 YURKEVICH, M. YU. Preferences of the journal-order forms. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 4:16-18. Apr. 1967. 30.69 Uc4  
State farm accounting.

### Costs and Returns

- 88812 ALLEN, A. V., DOBSON, S. H., and WEATHERS, C. R. A look at beef; for more income on North Carolina farms. N. C. Univ. Ext. Ext. Circ. 493,23 p. Apr. 1968. 275.29 N811  
Costs and returns of diversified farming.
- 88813 BALAKRISHNAN, M., and TAMBAD, S. B. Economics of transplanted and broadcast paddy in Bangalore District. Agr. Situation India 22(3):263-266. June 1967. 281.9 In23  
Costs.
- 88814 BARMETTLER, E. R., and HIROSHIGE, H. M. An economic evaluation of Lalamilo farm operations. Hawaii. Agr. Exp. Sta. Agr. Econ. Rep. 76,19 p. Nov. 1967. 275.29 H312Ae  
Truck farms.
- 88815 BARTOS, J., and SOUSTALOVA, D. A truthful look at costs. (Cz) Ekon. Zemedelstvi 6(10):311-312. 1967. 281.8 EK7  
Livestock.
- 88816 BERG, H. J. K. VAN DEN, and WELY, A. J. M. VAN. Value of horticultural produce in 1965. (Du) Neth. Dir. Tuinbouw. Mededel. 30(7/8):311-313. July/Aug. 1967. 86 N384
- 88817 BISPERINK, H. J. How is swine husbandry profit divided between breeder and feeder? (Du) Veeteelt Zuivelber. 10(5):203-210. May 1967. 49 V51
- 88818 BORUCKA, Z. Returns for producers of hatching eggs of breeding poultry. (Pol) Drobiarstwo 15(1):9. Jan. 1967. 47.8 P953
- 88819 BRAMLEY, M. Leap year 1968 for pigs. Pig Farming 16(3):34-35. Mar. 1968. 46.8 P623  
Increased costs of pig farming.

- 88820 BRATTON, C. A., and THACKER, G. H. Poultry farm business summary, New York, 1966. Cornell Univ. Coll. Agr. Dep. Agr. Econ. A. E. Ext. 470,23 p. May 1967. 281.9 C81Ae
- 88821 BULLER, O. Minimum cost vs. maximum profits. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., July 25, 1957, 2 p. HD9004.A1K3
- 88822 CAMPBELL, J. R. Family-type sugar cane farms in Louisiana, 1965 and 1966; returns, costs, and profits. La. Agr. Exp. Sta. DAE Res. Rep. 377,82 p. May 1968. 100 L935 Small-scale.
- 88823 CAMPBELL, J. R. Returns, costs, and profits for large-scale sugar cane farms in Louisiana; 1964-1966. La. Agr. Exp. Sta. DAE Res. Rep. 373,60 p. Apr. 1968. 100 L935
- 88824 CHIRONI, G. Comparison of citrus costs in Sicily and California. (It) Riv. Econ. Agr. 21(5):6-30. 1966. 281.8 R52 English summary.
- 88825 COOLIDGE, J. H. A look at 1967 on Farm Management Association farms. Kans. State Univ. Ext. Looking Ahead K-State Econ., May 1, 1968, 2 p. HD9284.U5K3 Returns.
- 88826 CRUMP, D. K. Cattle or sheep, which pays best? Christchurch. Tussock Grassland Mountain Lands Inst. Rev. 13:2-7. Sept. 1967. 60.9 C46 New Zealand.
- 88827 DIPROSE, R. J. Comparative returns from grain crops, sheep, and dairying in the Auckland Province. Ruakura Farmers Conf. Week Proc. 1967:171-180. Apr. 9, 1968. 49.9 R82 In New Zealand.
- 88828 DORAN, S. M., ANDERSON, F. A., and KEENE, J. The cost of establishing Concord grapes on a double curtain trellis, Yakima Valley, Washington. Wash. State Univ. Ext. E. M. 2835, 12 p. July 1967. 275.29 W27M1
- 88829 ELEMA, R. K., and BLOMMERS, J. New developments in strawberry growing under glass. (Du) Neth. Dir. Tuinbouw. Mededel. 30(9):362-366. Sept. 1967. 86 N384 English summary, p. 375. Costs and yields of strawberry varieties.
- 88830 FATYGA, J. Returns from the cultivation of malting barley. (Pol) Wroclaw Wyzsza Szkola Roln. Zeszyty Nauk. Roln. 21(66):181-187. 1967. 20.5 B75 English summary.
- 88831 FAVARETTI, G., and AGOSTINI, D. Economic results of calf raising. (It) Agr. Venezia 22(2):88-102. Feb. 1968. 16 Ag826 Costs and returns.
- 88832 FILLON, R., WALLON, G., and BRIFFAULT, J. The pastures of Normandy. (Fr) Potasse 41(349):201-208. Nov. 1967. 57.8 P84 Chiefly economic aspects.
- 88833 FRAZIER, L. Preserving the family sized farm. Kans. State Univ. Ext. Looking Ahead K-State Econ., June 5, 1968, 2 p., map. HD9284.U5K3 Profits and values in rural life.
- 88834 GALLAND, A., and WIERSHOLM, L. A. The economy of grass briquetting in combination with grain. (No) Norsk Landbruk 12:12-13, 28-29. June 16, 1967. 11 N8122 Costs and returns.
- 88835 GOODLJK, P. Prospects for the dairy farm. (Du) Neth. Prov. Dir. Rijkslandbouwvoorlichting Friesland. Voorlichting Onderz. Grasland Veehouderij 1965:100-102. 1966. SF15.N4A3 Returns.
- 88836 GREEN, B. Utilizing quality grazing. La. Ass. Agron. Proc. 8:56-59. 1967. 4 L933 Costs and returns in Louisiana.
- 88837 HANAK, J. Utilization of sufficient information on costs. (Cz) Ekon. Zemedelstvi 6(10):307-310. 1967. 281.8 Ek7 In collective farms supplied by accounting.
- 88838 HEVIN, R. Methods of study and variations of the quantitative elements in the production costs in nine orchard ventures. (Fr) Congr. Pomol. [Compt. Rend.] 97:59-65. Oct. 6, 7, 8, 1966. 93.09 C7643 Peaches, pears, and apples.
- 88839 HODSON, R. C., and SULLIVAN, G. D. Leasing versus buying land for sugarcane production. La. Agr. Exp. Sta. DAE Res. Rep. 370,13 p. Mar. 1968. 100 L935 Costs and returns.
- 88840 HOKAS, G. Who will suffer the most of price fluctuations—the raiser of baby pigs of the slaughter swine producer? (Sw) Lantmannen 78(18):22, 25-26. Sept. 1967. 11 L234 In Sweden.
- 88841 ILLINOIS UNIVERSITY, COLLEGE OF AGRICULTURE. DEPT. OF AGRICULTURAL ECONOMICS. Detailed cost report for central and western Illinois, 1964 and 1965. Ill. Univ. Coll. Agr. Dep. Agr. Econ. Res. Rep. AERR 85,36 p. June 1967. 281.9 IL62 Prepared by R. A. Hinton, R. P. Kesler, E. E. Schairer, and A. G. Mueller. Livestock farm costs and returns.
- 88842 JABLONSKA-CEGLAREK, R. The cost calculation of root-celery production. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:284-286. 1966, pub. 1967. 20.5 St4 English summary. Research on planting distances.
- 88843 JOHNSON, B., and ALNESS, G. The economic competitiveness of various cattle breeds. (Sw) Svensk Husdjursskotsel Ladugard. 7-8:232-233. July/Aug. 1965. 44.8 L12 Returns from beef and milk production.
- 88844 KARANDASHOV, I., RABINOVICH, L., and SAVUSHKIN, S. Once and again on profitability of the livestock husbandry. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 8:19-20. Aug. 1967. 281.8 Se4
- 88845 KIM, J. B., CHOI, H. S., and KIM, T. H. Benefit research of cropping system by agricultural region. (Ko) Korea. Min. Agr. Forest. Off. Rural Develop. Res. Rep. 10(6):75-118. Sept. 1967. 22.5 K843 English summary.
- 88846 KINCL, V. Economic and productive problems of the collective sector of farming of the Mari-bor area. (Sl) Nase Gospod. 12(6/7):149-152. June 25, 1966. 280.8 N17
- 88847 KINCL, V. Urgent economic problems of Yugoslav livestock production. (Sl) Nase Gospod. 12(1):20-22. Jan. 25, 1966. 280.8 N17 Chiefly costs and productive capacity.
- 88848 KONDAC, J. Real costs and profitability under new conditions of management of collective farms. (Cz) Ekon. Zemedelstvi 6(10):310-311. 1967. 281.8 Ek7
- 88849 KONGSVIK, R. The barley cultivation shows losses. (No) Norsk Landbruk 12(1):10-11. Jan. 1968. 11 N8122
- 88850 KORSUNOV, V. I. Effect of fat in milk on its returns. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 6:36-38. June 1967. 30.69 Uc4
- 88851 KRYACHKOV, I. T. Economic connections of specialized farms. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 4:22-26. Apr. 1967. 30.69 Uc4 Chiefly on costs and returns of beef cattle farms.
- 88852 KUNCL, V. The importance of internal economic processes in Yugoslav agriculture. (Sl) Nase Gospod. 12(3):81-83. Mar. 25, 1966. 280.8 N17 Chiefly costs, production functions and productive capacity.
- 88853 LABEEUW, N. Industry economics: management direction. (Fl) Tuinbouwberichten 31(10):337-338. Oct. 1967. 80 T817 Relation of size of horticulture operation and costs in Belgium.
- 88854 LACEY, W. V. An analysis of egg production on a Rhodesian poultry enterprise. Rhodesia Agr. J. 64(2):40-44. Mar./Apr. 1967. 24 R34 Costs.



- 88855 LAMONT, T. E. What fruit crops have paid best on Lamont Fruit Farm. Mass. Fruit Growers' Ass. Rep. 73:85-90. 1967. 81 M384 Fruit and vegetable crops in New York.
- 88856 LANDOKONOMISKE DRIFTSBUREAU. Undersøgelser over landbrugets driftsforhold. 50. Regnskabsresultater fra dansk landbrug i året 1965-66 [Investigations of farm management conditions. 50. Danish farm accounts results, 1965-66], v.2. København, 1967. 177 p. 11 D414
- 88857 LASZKIEWICZ, L. Broilers. (Pol) Drobiarstwo 15(4):3. Apr.1967. 47.8 P953 Costs and returns.
- 88858 LAZAROV, S. On what depends affirmation of units of an economic enterprise. (Se) Sovremeno Zemjod. 13(3):17-20. Mar.1966. S13.S6 Includes returns and productive capacity of farming.
- 88859 MCCOY, J. H. What's ahead for beef cattle? Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., May 15, 1968, 2 p. HD9004.A1K3 Cost and returns of meat production.
- 88860 MERTENS, K. H. What does it cost to set up a modern farm? (Ge) Mitt. Deut. Landwirt.-Ges. 83(15):536-539. Apr.11, 1968. 18 N39 Germany.
- 88861 MUFTAKHOV, M. Livestock husbandry on the state farms should be profitable. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 10:32. Oct. 1967. 281.8 Se4 Cattle; costs and returns.
- 88862 MULLINS, T., and GRANT, W. R. Enterprise costs and returns on rice farms in the Delta, Arkansas. Ark. Agr. Exp. Sta. Rep. Ser. 170, 26 p., map. Ref. June 1968. 100 Ar42R U. S. Department of Agriculture, cooperating. Includes other grains, soybeans, and cotton.
- 88863 MYSHKO, A. G., and KIPOR, V. Profitability of the sheep-husbandry. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 7:36-39. July 1967. 30.69 Uc4
- 88864 NESBITT, D. R. Can we afford to grow McIntosh apples for processing. N. Y. State Hort. Soc. Proc. 113:201-202. 1968. 81 N484
- 88865 NILSSON, N. O. The profitability of farming during the harvest year 1965. (Sw) Kalmar Lans Hushallningssallsk. Tidskr. 2:4-6. Apr.1967. 11.K123
- 88866 NOORT, L. VAN. Rentabiliteit van de bloementeel te Aalsmeer; voorlopige berekening 1966 [Profitability of flower culture at Aalsmeer; preliminary estimate 1966]. Landbouw-Econ. Inst. Verslagen 189, 27 p. June 1967. 281.9 L23V
- 88867 OSCARSSON, G. Will the continuing profit increase of milk production allow new constructions? (Sw) Lantmannen 78(23):6-7. Nov.11, 1967. 11 L234
- 88868 PRICE, C. Economic returns from irrigated vegetable production on Arkansas hill farms; two years of case studies. Ark. Agr. Exp. Sta. Bull. 732, 34 p., map. June 1968. 100 Ar42
- 88869 RIJSSENBEEK, C. J. M. Economic aspects of the production and distribution of pigs. World Rev. Anim. Prod. 3(12):64-75. Ref. Apr./June 1967. 49 W89 In Netherlands.
- 88870 ROBERTS, T. N., and HURT, V. G. Costs and returns to grade "A" dairy farms in Mississippi. Miss. Agr. Exp. Sta. Bull. 760, 23 p., map. May 1968. 100 M69
- 88871 RUSSELL, W. Confinement rearing: figure your cost before signing contracts. Poultry Meat 5(2):A28-A30. Feb.1968. 47.8 P8656 Turkeys.
- 88872 SAZDOVSKI, M. Some problems of the production and economics of cotton on collective farms. (Se) Sovremeno Zemjod. 13(11):18-20. Nov.1966. S13.S6 Includes productive capacity of labor.
- 88873 SIEBERT, J. B., and COURTNEY, R. H. A market study of corn production in California. Calif. Univ. Ext. Inform. Ser. Agr. Econ. 67:3, 28 p. Ref. Dec.1967, pub.1968. 275.29 C121 Published jointly with California Agricultural Experiment Station. Cost and returns of cultivation for feed.
- 88874 SIENEL, B. Profitability of breeding Angora rabbits. (Cz) Chovatel 5(10):151. Oct.1966. SF1.C45
- 88875 SPIES, P. H. Comments on "Some Thoughts on the Concepts of Operator's earnings and Gross Profit" by D. J. G. Smith and J. B. De Swardt. Agrekon 7(1):33-35. Jan.1968. 281.8 Ag835
- 88876 STEWART, J. D. Sheep farm development with fluctuating prices. Ruakura Farmers Conf. Week Proc. 1967:46-62. Apr.9, 1968. 49.9 R82 Costs and returns. Includes discussion.
- 88877 TALDONOV, A. Improving economic effectiveness of farming. (Rus) Sel'skokhoz Proizvodstvo Povolzh'ya 7:13-14. July 1967. 281.8 Se4 Costs, returns and efficiency.
- 88878 THIAULT, M. Research on the influence of structure on the costs of production in nine orchard ventures. (Fr) Congr. Pomol. [Compt. Rend.] 97:39-58. Oct.6, 7, 8, 1966. 93.09 C7643 In relation to size; data for apples, pears, and peaches. Discussion, p.57-58.
- 88879 THIESENHUSEN, W. C. Profit margins in Chilean agriculture: a comment on James O. Bray's fundo B. Land Tenure Center. LTC [Publ.] 3(19), 19 p. 1966. HD107.L33
- 88880 ULLRICH, E. O., SANDERSON, J. T., and AANDERUD, W. G. Machinery costs on typical wheat farms in central South Dakota; Sully and Hughes Counties. S. Dak. Agr. Exp. Sta. Circ. 187, 19 p., map. July 1968. 100 So82 U. S. Department of Agriculture, cooperating.
- 88881 UVACEK, E. Increasing profit through beef industry planning. Cattleman 54(6):38-39. Nov.1967. 49 C29
- 88882 WHITTLESEY, N. K. Production costs of specialized alfalfa hay farms in the Columbia Basin project. Wash. Agr. Exp. Sta. Circ. 487, 29 p. May 1968. 100 W27S
- 88883 WILLENBOCKEL, L. Economic considerations on the profit in potatoes. (Ge) Kartoffelbau 18(3):64-68. Mar.1967. 75.8 K145
- 88884 WOLTER, R. H. Higher cash inputs needed for soybeans. Doanes Agr. Rep. 31(11):14-15. Apr.8, 1968. 281.8 D652 Production costs.
- 88885 ZUROSKE, C. H. Apple production costs and returns. Wash. Agr. Exp. Sta. Bull. 696, 6 p. Apr.1968. 100 W27E
- 88886 ZUROSKE, C. H. Washington apple growing costs. Wash. State Hort. Ass. Proc. Dec.5-7, 1966:101. 81 W273

#### Land Settlement and Colonization

- 88887 EIDT, R. C. Japanese agricultural colonization: a new attempt at land opening in Argentina. Econ. Geogr. 44(1):1-20. Jan.1968. 278.8 Ec7
- 88888 FLOYD, B., and ADINDE, M. Farm settlements in eastern Nigeria: a geographical appraisal. Econ. Geogr. 43(3):189-230, map. July 1967. 278.8 Ec7
- 88889 JOHNSON, R. W. M. A note on secondary benefits in a land settlement scheme in Zambia. Lincoln. Coll. Agr. Econ. Res. Unit Publ. 48: 162-163. 1968. 281.9 L632
- 88890 JOHNSON, R. W. M. A note on the World Bank's estimation of secondary benefits in Tanzania. Lincoln. Coll. Agr. Econ. Res. Unit Publ. 48:161-162. 1968. 281.9 L632 Land settlement scheme.

- 88891 MADIKIZELA, C. K. First occupation of plots at Qamata irrigation scheme 18.10.65. *Ulimo Nemfuyo* 1(3):31-32. Dec.1965. S17,U4
- 88892 SCHWEIZERISCHE VEREINIGUNG FÜR IN-  
NENKOLONISATION UND INDUSTRIELLE  
LANDWIRTSCHAFT. Geschäftsbericht für  
1965 [Management report for 1965]. Schweiz.  
Ver. Innenkolonisation Indus. Landwirt. Schr.  
99,31 p. June 1966. 282.9 Sch9
- 88893 SHAW, D. J. Resettlement from the Nile in  
Sudan. *Middle East J.* 21(4):463-487. Autumn  
1967. 280.8 M585
- 88894 TORRES, J. L. Some settlement schemes in  
the Gaza district of southern Mozambique. *S.  
Afr. J. Econ.* 35(3):244-255, map. Sept.1967.  
280.8 So83
- Land Tenure
- 88895 BERRY, R. L. Flexible cash rents. *S. Dak.  
Agr. Exp. Sta. Bull.* 185,14 p. 1966. 100 So82  
Farms.
- 88896 BORN, M. Long, stretched out fields in North  
Hessen? (Ge) *Z. Agrargesch. Agrarsoziol.*  
15(2):105-133, map. Ref. Oct.1967. 30.98 Z3
- 88897 BOTHA, J. P. Spain tackles uneconomic farm  
units. *Farming S. Afr.* 43(10):23,25. Jan.1968.  
24 So842  
Land consolidation.
- 88898 CAIRD, J. The landed interest and the supply  
of food. Ed. 5. New York, Kelly, 1967. 184 p.  
HD595.C3 1967  
Great Britain; includes discussion of agricul-  
ture.
- 88899 COTTON, G. Here is the National Center for  
the Management of the Agricultural Structure  
[Centre National pour l'Amenagement des  
structures des Exploitations Agricoles,  
(C.N.A.S.E.A.)]. (Fr) *Inform. Agr.* [Paris]  
366:30-31. Jan.1967. HD1945.A115  
Agency for directing changes in land tenure,  
settling young people, and retiring the elderly.
- 88900 DEKKER, K. M. The problem of inheritance  
in agriculture. (Du) *Neth. Provinc. Dir.  
Rijkslandbouwvoorlichting Friesland-Voor-  
lichting Onderz.* 1966:14-16. SB183.N4A3  
Many farmers lack heirs who will continue  
farming as an occupation.
- 88901 DORNER, P. Land tenure reform and agricul-  
tural development in Latin America. *Land  
Tenure Center. LTC [Publ.]* 3(26),17 p. 1966.  
HD107.L33
- 88902 ERENOV, A. The Great October and the land  
reform problem in the Kazakhstan. (Rus)  
*Akad. Nauk Kaz. SSR. Vestn.* 10:3-10. Oct.  
1967. 511 AL6
- 88903 FEDER, E. L. Land development measures  
within the framework of improvement of agri-  
cultural structure with the aid of consolidation  
of holdings. (Ge) *Deut. Landwirt.-Ges. Arb.*  
108:30-50. 1966. 18 D48
- 88904 FILM script: Chile No. 2. Chile's experiments  
in agrarian reform. *Land Tenure Center. LTC  
[Publ.]* 3(30),22 p. 1966. HD107.L33
- 88905 FRANCE. DIRECTION DE LA DOCUMENTA-  
TION. La reforme agraire; rapport de la con-  
ference mondiale tenue a Rome du 20 juin au  
2 juillet 1966 par l'Organisation des Nations  
Unies et par l'Organisation des Nations Unies  
pour l'Alimentation et l'Agriculture avec le  
concours du Bureau International du Travail  
[The agrarian reform; report of the world con-  
ference held in Rome, June 21 to July 2, 1966,  
by the United Nations Organization and the  
Food and Agriculture Organization of the  
United Nations with the cooperation of the In-  
ternational Labour Office]. France. Dir. Doc.  
Notes Etudes Doc. 3439/3440,100 p. Nov.27,  
1967. 280.9 F843
- 88906 GORDON, F. A. The trespasser and the land-  
owner. *Christchurch. Tussock Grassland  
Mountain Lands Inst. Rev.* 13:44-46. Sept.1967.  
60.9 C46  
Legal protection of New Zealand rangeland.
- 88907 HEES, R. VAN. Inheritance and owned farms.  
(Du) *Landbouwkundig Tijdschr.* 79(3):90-95.  
Ref. Mar.1967. 105.2 Or3  
Land tenure, rental, and prices of farms.
- 88908 HEIDE, J. V. D., and WIERSMA, J. Improve-  
ment of farm size and remodeling in consoli-  
dated areas. (Du) *Neth. Prov. Dir. Rijksland-  
bouwvoorlichting Friesland. Voorlichting On-  
derz. Grasland Veehouderij* 1965:8-22. 1966.  
SF15.N4A3  
Financing and cost.
- 88909 HIBMA, H. The parcellization of land. (Du)  
*Neth. Provinc. Dir. Rijkslandbouwvoorlichting  
Friesland,Voorlichting Onderz.* 1966:8-12.  
SB183.N4A3  
Productivity of Frisian marshland farms  
reduced by fragmentation of holdings.
- 88910 HOOGSCHAGEN, P. Structural developments.  
I. Swine farms. (Du) *Veeteelt Zuivelber.* 10  
(7):323-329. July 1967. 49 V51  
Farm size distribution and hog numbers.
- 88911 HOOGSCHAGEN, P. Structural developments.  
II. Veal calves and sheep husbandry in Nether-  
lands. (Du) *Veeteelt Zuivelber.* 10(8):401-406.  
Aug.1967. 49 V51  
Farm size distribution and hog and sheep  
numbers.
- 88912 JACOBY, E. H. Some aspects of the evaluation  
of structural projects in the Mediterranean  
region. *Mediterranea* 17:34-42. Jan.1968.  
281.8 M462  
Land reform.
- 88913 KANEL, D., and FLETSCHNER, C. La distri-  
bucion de tierras en el Paraguay [The distri-  
bution of lands in Paraguay]. *Land Tenure  
Center. LTC [Publ.]* 3(24),21 p., map. 1966.  
HD107.L33
- 88914 KELLOGG, C. Impact of retirement and death  
of older farmers on resource adjustments in  
Kansas. *Kans. State Univ. Ext. Econ. Econ.  
Kans. Farm Bus. Inform.*, Feb.6,1968,2 p., map.  
HD9004.A1K3  
Availability of land for beginning farmers and  
farm mergers.
- 88915 MEDICI, G. Land ownership with relation to  
the farm. (It) *Riv. Econ. Agr.* 21(5):3-5.  
1966. 281.8 R52
- 88916 MEZ, E. The agriculture of Western Germany;  
revelations on structural transformation. (It)  
*Ital. Agr.* 105(3):291-302. Mar.1968. 16 H1  
Farm size and labor requirements.
- 88917 MISSERI, S. C. An interesting appraisal prob-  
lem: Occupation of air space in urban zones.  
(It) *Genio Rurale* 30(5):421-424. May 1967.  
281.8 R522  
For indemnification.
- 88918 RAM, J. The immediate task in Indian agricul-  
ture. *Agr. Situation India* 22(5):489-490. Aug.  
1967. 281.9 In23  
Land reform and credit for small farmers.
- 88919 REED, A. D., and SNYDER, J. H. What you  
should know about farm leases. *Calif. Univ.  
Ext. Circ.* 491, rev., 10 p. Jan.1968.  
100 C12S
- 88920 RULLIERE, G. From agricultural reform to  
general economic development: the second  
World Conference on Agrarian Reform (Rome,  
June 20-July 2, 1966). (Fr) *Cooperation*  
37(6):13-23. June 1967. 280.28 C7845
- 88921 SCARPA, G. Farms with partly owned and  
partly rented area in the Province of Venezia,  
with particular reference to the communes of  
Mirano and Salzano. (It) *Agr. Venezia* 22(2):  
103-122. Feb.1968. 16 Ag826  
Statistical.
- 88922 SCHICKE, H. Use of automation in consolidat-  
ing scattered holdings. (Ge) *Z. Kulturtech.  
Flurbereinigung* 8(5):277-279. Sept./Oct.1967.  
S605.A1Z4
- 88923 SOPHIAN, T. J. Leasehold Reform Act "Part"  
III. *Chartered Land Agents Soc. J.* 67:163-167.  
Apr.1968. 282.9 L22  
Great Britain.



- 88924 SZPYT, J. Large farm units only? (Pol) Budownictwo Wiejskie 19(9):6-7. Sept.1967. 296.8 B85
- 88925 THIESENHUSEN, W. C. Un experimento de reforma agraria [An agrarian reform experiment]. Land Tenure Center. LTC Reprint 21-S,11 p. 1966. HD101.L3 Chile.
- 88926 THOME, J. R. Limitaciones de la legislación colombiana para expropiar o comprar fincas con destino a parcelación [Limitations of Colombian legislation for expropriating or purchasing farms for allotments]. Land Tenure Center. LTC [Publ.] 2(14),18 p. 1966. HD107.L33
- 88927 U. S. BUR. OF THE CENSUS. 1964 United States Census of Agriculture. Volume 2, chapter 3, Size of farm. Washington, 1967. p.237-280. HD1753.A5 1964
- 88928 WATANABE, H. Statistical studies on the large scale farms in Chugoku District. (Ja) Shimane Agr. Coll. Bull. 15(A-5):19-31. Ref. Jan.1967. S539.J3S5
- 88929 WOLFF, P. The integral improvement of Moorriem in Wesermarsch district. An example of the improvement of agrarian structure under the difficult location conditions of North West Germany. (Ge) Z. Kulturtech. Flurbereinigung 8(5):257-276. Ref. Sept./Oct.1967. S605.A1Z4  
English summary.  
Land consolidation and related activities.
- Land Utilization
- 88930 AHMAD, N., and KHAN, F. Need for land-use studies in East Pakistan. Symp. Sci. Probl. Humid Trop. Zone Deltas Implications. Proc. 1966:329-332. Ref. GB1205.S3
- 88931 ARBUTHNOTT, VISCOUNT. Conservation land use. II. Chartered Land Agents Soc. J. 66(6):249-252. June 1967. 282.9 L22  
Multiple use in rural land planning.
- 88932 BAKER, S. Farming in Britain: urban pressures on farmland. Kenya Farmer 140:33. Mar.1968. 24 R812
- 88933 BILLINGS, R. Can our agricultural land be protected and should it? N. Y. State Hort. Soc. Proc. 113:52-55. 1968. 81 N484  
Legislation (including taxation) in New York.
- 88934 BONIFANT, R. A. Evaluation of the potential of a new technology (Paki). Lincoln. Coll. Agr. Econ. Res. Unit Publ. 48:167-168. 1968. 281.9 L632  
Land development and government subsidies.
- 88935 BRAUN, E. W. California Land Conservation Act. Calif. Dep. Agr. Bull. 55(3):131-134. 1966. 2 C12M  
To keep land in agricultural use.
- 88936 COSOLO, S. New city-country relationships. (It) Bull. Agr. [Milano] 102(3):1-2. Feb.15, 1968. 16 B87  
Problems of use of buildings involved in the rural exodus and the urban drift to the country; includes farm size changes caused by mechanization and the need for proper town and country planning.
- 88937 EINEVOLL, O. Survey maps for the production basis of agriculture. (No) Ny Jord 54(2): 66-74. Apr.1967. 282.28 N98  
English summary.  
Land utilization.
- 88938 ERICKSON, D. B. Rural zoning and Kansas. Kans. State Univ. Ext. Ext. Econ. Kans. Farm Bus. Inform., Sept.26,1967,2 p. HD9004.A1K3
- 88939 GOW, N. G. The use of internal rates of return in the evaluation of ex post hill country development. Lincoln. Coll. Agr. Econ. Res. Unit Publ. 48:175-176. 1968. 281.9 L632
- 88940 GREEN, W. R. Development and control of the berms of the Waimea River. Soil Water 4(1):17. Sept.1967. 56.8 So323  
Use of land involved in flood control projects for pasture in New Zealand.
- 88941 HEADY, E. O. Trends and potentials in use of land resources. Nat. Res. Council. Agr. Res. Inst. Proc. 1967:73-95, map. 4 N2122
- 88942 HOLTIES, H. The relationship of pasture land, cultivated land, and income. (Du) Neth. Provinc. Dir. Rijkslandbouwvoorlichting Friesland-Voorlichting Onderz. 1966:18-19. SB183.N4A3  
Cultivated land shows greater returns.
- 88943 INDIANA. AGRICULTURAL EXPERIMENT STATION. Automatic classification of green vegetation, soil and water. Ind. Agr. Exp. Sta. Res. Progr. Rep. 310,7 p. Feb.1968. 100 In2Res  
Mapping farmland.
- 88944 IVANOV, K. I. Production-territorial combinations (complexes) in agriculture. (Rus) Moscow Univ. Vestnik Ser. 6 Geogr. 1:22-38. Jan./Feb.1967. 331.9 M85
- 88945 KLINGEBIEL, A. A. Land resources available to people in the United States. Nat. Res. Council. Agr. Res. Inst. Proc. 1967:23-57, map. 4 N2122  
Land classes and use; includes soil surveys.
- 88946 LEBEDEV, P. N. Study of agricultural utilization of land in northern forest-steppe area. (Rus) Moscow. Univ. Vestnik. Ser. 5, Geogr. 3:36-48. May/June 1967. 331.9 M85
- 88947 LONG, H. B. The urban environment and the conservationist. Fla. Natur. 40(1):15. Jan. 1967. 413.9 F66F  
In Florida.
- 88948 MCARTHUR, A. T. G., and CLELAND, G. R. J. The estimation of unit cash flows. Lincoln. Coll. Agr. Econ. Res. Unit Publ. 48:139-144. 1968. 281.9 L632  
In alternate land uses.
- 88949 MILLETTE, G. The urbanization of Quebec and its repercussions on agriculture. (Fr) Agriculture (Montreal) 24(4):3-8. Dec.1967. 7 Ag82  
Includes effects on the food supply.
- 88950 MUSGRAVE, W. F. Benefit-cost analysis and aggregation problems. Lincoln. Coll. Agr. Econ. Res. Unit Publ. 48:88-96. 1968. 281.9 L632  
In land development and settlement projects.
- 88951 NIEDERSACHSISCHE LANDGESELLSCHAFT. Functions and performance of the Lower Saxony Land Society. (Ge) Obstbauversuchsring Alten Landes. Mitt. 22(1):25-28. Jan. 1967. 85 J76
- 88952 PARTAIN, L. E. Rational use of land: present, 1980 and beyond. Nat. Res. Council. Agr. Res. Inst. Proc. Oct.16-17,1967:59-72. 4 N2122
- 88953 RAO, D. S. R., and JOSHI, N. P. Fallow areas in Maharashtra State. Agr. Situation India 22(5):491-502. Aug.1967. 281.9 In23  
Research in land utilization.
- 88954 SARGENT, F. O. Town planning. Vt. Univ. Ext. Brieflet 1151,8 p. Apr.1967. 275.29 V59E
- 88955 SELSKAPET NY JORD. Report of the Society New Land 1966. (No) Ny Jord 54(3):109-123. June 1967. 282.28 N98
- 88956 SHINOHARA, T. Regional specialization in agricultural production - the calculation of coefficients of localization. Rural Econ. Probl. 4(1):1-19. Dec.1967. 281.28 R8822  
In Japan.
- 88957 SNYDER, J. H. Programs for more effective land use. Nat. Res. Council. Agr. Res. Inst. Oct.16-17,1967:147-162. Ref. 4 N2122
- 88958 SOET, F. DE. Rural areas. (Du) Landbouwkundig Tijdschr. 79(8):241-243. Aug.1967. 105.2 Or3  
Land use conflicts and solution.
- 88959 SOMERVILLE, R. K. Northland land development. New Zeal. Grassland Ass. Proc. 1967: 24-31. 60.19 N48

- 88960 STARR, W. A. Integration of land and water development-purpose in Central South Island, New Zealand. *Soil Water* 4(1):11-14. Sept.1967. 56.8 So323  
Zoning and land use.
- 88961 TALLERAS, K., and BJORNSTAD, J. Land utilization in upper Dalarna. (No) *Norsk Skogbruk* 13(18):446-447,454. Sept.1967. 99.8 N815
- 88962 U. S. BUREAU OF THE CENSUS. 1964 United States Census of Agriculture. Volume II, chapter I, Farms and land in farms, Washington, 1967. 37 p. HD1753.A5 1964
- 88963 VANICEK, V. The role of reclamation in country planning. (Cz) *Vystavba Soc. Vesn.* 7(3): 60-62. 1968. 296.8 Z4

#### Land Values and Valuation

- 88964 ALVISI, F. Evaluations inherent in the right of emphyteusis. (It) *Genio Rurale* 30(5):417-419. May 1967. 281.8 R522
- 88965 AMERICAN SOCIETY OF FARM MANAGERS AND RURAL APPRAISERS. Rural appraisal manual. Ed. 2. DeKalb, Illinois, Stipes, 1967. 199 p.,map. Ref.,p.51-52. HD1393.A4 1967
- 88966 BROWN, J. A. Farmland prices -- recent developments. *Sask. Farm Sci.* 15(1):1,4. Feb.1968. 275.28 Sa7
- 88967 DORCICH, S. Public relations, a day to day effort. *Rural Realtor* 20:6. Mar.1968. 282.8 R88  
For rural realtors.
- 88968 GREER, J. D., and others. Active farmers still biggest buyers of Nebraska farmland. *Nebr. Univ. Coll. Agr. Home Econ. Quart. Serving Farm Ranch Home* 11 i.e.14(3):18-19. Fall 1967. 100 N27N  
J. Muehlbeier, B. B. Johnson, and L. Leistritz, joint authors.
- 88969 GREGAN, J. D. The valuation of high-country runs. *Christchurch Tussock Grassland Mountain Lands Inst. Rev.* 13:24-28. Sept.1967. 60.9 C46
- 88970 HORNIECKY, Z., and PIKHORDT, G. The appraisal of real estate. (Cz) *Vystavba Soc. Vesn.* 7(2):40-42. 1968. 296.8 Z4
- 88971 HORNIECKY, Z., and PIKHORDT, G. Views on the formation of prices in the appraisal of real estate. (Cz) *Vystavba Soc. Vesn.* 7(3):72-74. 1968. 296.8 Z4
- 88972 LEE, S. The effect of underground water on land values in southwestern Kansas. *Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform.*, June 5, 1968, 2 p. HD9004.A1K3
- 88973 MURRAY, R. A., and CISSEL, E. I. The transfer of farm and open country real estate in Kent County, Maryland, 1964. *Md. Agr. Exp. Sta. Misc. Publ.* 634,29 p.,map. Aug.1967. 100 M36M  
Includes study of marketing and prices.
- 88974 MURRAY, R. A., and CISSEL, E. I. The transfer of farm and open country real estate in Queen Anne's County, Maryland, 1964. *Md. Agr. Exp. Sta. Misc. Publ.* 632,25 p.,map. Aug. 1967. 100 M36M  
Includes study of marketing and prices.
- 88975 MURRAY, R. A., and CISSEL, E. I. The transfer of farm and open country real estate in Washington County, Maryland, 1964. *Md. Agr. Exp. Sta. Misc. Publ.* 656,33 p.,map. Nov.1967. 100 M36M  
Includes study of marketing and prices.
- 88976 MURRAY, R. A., and CISSEL, E. I. The transfer of farm and open country real estate in Worcester County, Maryland, 1964. *Md. Agr. Exp. Sta. Misc. Publ.* 658,27 p.,map. Dec.1967. 100 M36M  
Includes study of marketing and prices.
- 88977 PENN, J. B., BOLTON, B., and WOLF, W. F. The farm land market in the Mississippi River delta cotton region, 1964-1965. *La. Agr. Exp. Sta. DAE Res. Rep.* 372,68 p. Apr.1968. 100 L935  
U. S. Department of Agriculture, cooperating.

- 88978 ROSS, D. M. Buying a farm can have its pitfalls. *New Zeal. J. Agr.* 114(3):77,79,81. Mar. 1967. 23 N48J
- 88979 SCOFIELD, W. H. Tales from the computer. *Rural Realtor* 20:5. Mar.1968. 282.8 R88  
Rural land purchases and sales.
- 88980 SIGMAN, J. P. So you want to buy a farm. *Va. Angus Ass. Handbook* 1968:47-52. SF199.A14V5
- 88981 TEACI, D., and BURT, M. Contributions to the economic evaluation of agricultural lands. (Rum) *Bucharest. Inst. Cercet. Agr. Sect. Pedol. An.* 34:315-330. Ref. 1966,pub.1967. 21 R86A  
English summary.
- 88982 WELLS, H. The policy of the Land Commission. *Chartered Surv.* 100(1):7-12. July 1967. 325.8 C38  
Land selling in Great Britain.

#### POPULATION

- 88983 BOSE, A. Internal migration in India, Pakistan and Ceylon. *World Pop. Conf. Proc.*, v.4:483-486. Ref. 1965,pub.1967. HB849.W6 1965  
Includes rural-urban, urban-rural, and rural-rural migration.
- 88984 CHARLTON, J. L. Migration and occupational change among Arkansas counties. *Ark. Farm Res.* 17(2):15. Mar./Apr.1968. 100 Ar42F  
Includes effects on local government income.
- 88985 FOSTER, P., and YOST, L. Population growth and rural development in Buganda, [Uganda]; a simulation of a micro-socio-economic system. *Md. Agr. Exp. Sta. Misc. Publ.* 621,87 p. Apr.1968. 100 M36M  
Statistical research to clarify relationship; includes educational capacity and economic growth.
- 88986 GRAIS, M. B. Structural development of the active population. (Fr) *France. Inst. Nat. Statist. Etudes Econ. Etudes Conjoncture* 23(3):3-139. Mar.1968. 280.8 F84  
M. Rolen, M. Jousset, and M. Passagez, joint authors.  
English summary, p.183-184.  
Includes data on the population engaged in agriculture.
- 88987 JACKSON, M. E. An increase in egg prices coming soon. *Kans. State Univ. Ext. Looking Ahead K-State Econ.*, Apr.10, 1968, 1 p. HD9284.U5K3
- 88988 KONSTANTINOV, O. A. Rural-urban migration as a factor of economic development and adjustment of the ratio of urban-rural population to the general level of productive forces. *World Pop. Conf. Proc.*, v.4:499-504. 1965, pub.1967. HB849.W6 1965  
With reference to the Soviet Union.
- 88989 ORR, J. What happens to rural high school graduates? *Nebr. Univ. Coll. Agr. Home Econ. Quart. Serving Farm Ranch Home* 14(4):22-23. Winter 1968. 100 N27N  
Migration.
- 88990 TARVER, J. D. Migration in Georgia. *Ga. Agr. Exp. Sta. Res. Rep.* 26,62 p.,map. Ref. May 1968. S51.E22
- 88991 WILKENING, E. A., and PINTO, J. B. Migration and adaptation in new settlement areas. Phase I. Itumbiarca, Goias, Brazil. *Land Tenure Center. LTC [Publ.]* 3(25),18 p. 1966. HD107.L33

#### RECREATION

- 88992 ALMAND, J. D. Six keys to fish pond management. *Ga. Univ. Ext. Bull.* 669,26 p. Apr.1968. 275.29 G29B  
Recreational use to supplement income.
- 88993 ANDERSON, A. H. Role of the U.S. Forest Service in outdoor recreation. *Va. Polytech. Inst. Ext. Bull.* 301:394-398. Sept.1966. 275.29 V81B



- 88994 ANDERSON, J. F. Role of the Bureau of Outdoor Recreation in recreation. Va. Polytech. Inst. Ext. Bull. 301:375-376. Sept. 1966. 275.29 V81B
- 88995 ARCHIBALD, B. Gravel removal makes way for a beautiful lake and grove. Soil Conserv. 33(12):288. July 1968. 1.6 So3S  
Recreation facilities in Idaho.
- 88996 BAKER, W. M. The ARDA [Agricultural Rehabilitation and Development Agency] program in relation to recreation and tourism. Can. Dep. Forest. Inform. Tech. Serv. Div. Condens. Rep. CR-1,25 p. 1966. HD1781.C33
- 88997 BAUM, E. L., and MOORE, E. J. Some economic opportunities and limitations of outdoor recreation enterprises. Va. Polytech. Inst. Ext. Bull. 301:52-64. Sept. 1966. 275.29 V81B
- 88998 BAYLOR, R. C. Standard procedure for cleaning restrooms in Florida Park Service structures. Va. Polytech. Inst. Ext. Bull. 301:309-313. Sept. 1966. 275.29 V81B
- 88999 BILL, H. L., and HARTZOG, G. B. Recreation and resources - the new accommodation. Nat. Reclam. Ass. Proc. 1967:164-169. 55.9 N212  
Use of water resources.
- 89000 BLACKA, R. A. Lake, beach, picnic, and rental cabin facilities. Va. Polytech. Inst. Ext. Bull. 301:344-345. Sept. 1966. 275.29 V81B  
Virginia.
- 89001 BLANK, U. National recreation demands: Implications for Minnesota. Minn. Sci. 23(3): 5-7, 41. Apr. 1967. 100 M668
- 89002 BOGDAN, N. Perspectives of tourism in Vrancea. (Rum) Rev. Padurilor 82(10):522-526, map. Oct. 1967. 99.8 R327  
English summary.
- 89003 BOLEN, B. H. Role of the Division of Parks in outdoor recreation. Va. Polytech. Inst. Ext. Bull. 301:410-413. Sept. 1966. 275.29 V81B  
Virginia Department of Conservation and Economic Development.
- 89004 BRENT, H. W. Campgrounds. (Excerpts.) Va. Polytech. Inst. Ext. Bull. 301:330-341. Sept. 1966. 275.29 V81B  
Virginia.
- 89005 BRITT, T. Birds by the acre. Reclam. Era 54 (1):13-16. Feb. 1968. 156.84 R24  
Management and benefits from hunting in Wyoming.
- 89006 BROWN, J. The place of outdoor recreation in regional planning. Va. Polytech. Inst. Ext. Bull. 301:160-165. Sept. 1966. 275.29 V81B  
Virginia.
- 89007 BROWN, J. The Virginia Park Authority and how it functions. Va. Polytech. Inst. Ext. Bull. 301:171-179. Sept. 1966. 275.29 V81B  
Park Authorities Act.
- 89008 BURY, R. L., and WATERS, J. R. Federal outdoor recreation programs. Tex. Turfgrass Conf. Proc. 22:105-113. Dec. 1967. 60.19 T31
- 89009 CAZACU, I., and COTTA, V. Forests and game as an attraction for tourists. (Rum) Rev. Padurilor 82(10):542-546. Oct. 1967. 99.8 R327
- 89010 CHRISTIANSEN, R. A., and others. The Wisconsin ski industry; some economic aspects. Wis. Agr. Exp. Sta. Res. Rep. 33, 8 p., map. Mar. 1968. 100 W75R  
S. D. Staniforth, A. Johnson, and R. Cooper, joint authors.
- 89011 CORNWELL, G. W. Conducting a feasibility study for a proposed outdoor recreation enterprise. Va. Polytech. Inst. Ext. Bull. 301:97-124. Sept. 1966. 275.29 V81B  
Includes choice of site.
- 89012 CORNWELL, G. W., and MOSCHLER, J. W. Health, sanitation, and safety for recreation areas. Va. Polytech. Inst. Ext. Bull. 301:290-308. Sept. 1966. 275.29 V81B  
Virginia.
- 89013 CORNWELL, G. W. Marketing, promoting, and advertising of outdoor recreation enterprises. Va. Polytech. Inst. Ext. Bull. 301:259-274. Sept. 1966. 275.29 V81B
- 89014 CORNWELL, G. W. The relationship of outdoor recreation to human health. Va. Polytech. Inst. Ext. Bull. 301:19-31. Sept. 1966. 275.29 V81B
- 89015 CREASEY, C. Maintenance of recreational areas. Va. Polytech. Inst. Ext. Bull. 301:314-318. Sept. 1966. 275.29 V81B
- 89016 CRITES, R. S. Rural recreation. Rural Realtor 20:4-5. Mar. 1968. 282.8 R88  
Federal government assistance to rural community centers.
- 89017 DAVIS, J. M., and JOHNSON, H. A. Operating vacation farms. Va. Polytech. Inst. Ext. Bull. 301:354-362. Sept. 1966. 275.29 V81B
- 89018 DEAN, B. W. Telling the Crow story at Bighorn Canyon National Recreation area. U. S. Dep. Interior. Mo. River Basin Progr. 1968:62-65. 156.84 M69
- 89019 DIŞESCU, R. Management of forests of social interest, including touristic interest. (Rum) Rev. Padurilor 82(10):518-522. Oct. 1967. 99.8 R327  
English summary.
- 89020 DOUGLAS, G. V. Outdoor recreation as an activity of man. Va. Polytech. Inst. Ext. Bull. 301:10-18. Sept. 1966. 275.29 V81B  
Types of activity.
- 89021 EDMISTER, F. C. Aptitudes, interests, and skills of operator. Va. Polytech. Inst. Ext. Bull. 301:144-148. Sept. 1966. 275.29 V81B  
Recreation enterprises; includes vacation farms.
- 89022 FAISZT, J. Construction and local contracting. Va. Polytech. Inst. Ext. Bull. 301:205-209. Sept. 1966. 275.29 V81B  
Recreation enterprises.
- 89023 FAISZT, J. A. Information concerning specifications for contracting and sub-contracting of construction. Va. Polytech. Inst. Ext. Bull. 301:210-217. Sept. 1966. 275.29 V81B  
Recreation enterprises.
- 89024 FAUST, S. D. Care of water for home swimming pools. N. J. Agr. Exp. Sta. Circ. 591-A, 11 p. May 1968. 100 N46S
- 89025 GULLION, G. W. A recreational resource of Minnesota's forested land-the ruffed grouse. Minn. Sci. 23(3):10-12. Apr. 1967. 100 M668
- 89026 HALE, E. B. Water supplies, systems, and sanitation requirements for recreational farming. Va. Polytech. Inst. Ext. Bull. 301:218-224. Sept. 1966. 275.29 V81B
- 89027 HANSEN, H. L. Ecological and silvicultural research on forest recreational areas. Minn. Sci. 23(3):42-43. Apr. 1967. 100 M668
- 89028 HICKS, H. Camping; a new experience. Ext. Serv. Rev. 39(5):8-9. May 1968. 1 Ex892Ex  
Arkansas Extension program for economically deprived youth.
- 89029 HOLCOMB, C. J. Estimating expenses. Va. Polytech. Inst. Ext. Bull. 301:72-85. Sept. 1966. 275.29 V81B  
Recreation enterprises.
- 89030 HOLCOMB, C. J. Management of outdoor recreation enterprises. Va. Polytech. Inst. Ext. Bull. 301:253-258. Sept. 1966. 275.29 V81B
- 89031 HORNE, T. R. Role of the Corps of Engineers in outdoor recreation. Va. Polytech. Inst. Ext. Bull. 301:399-406. Sept. 1966. 275.29 V81B
- 89032 HOY, T. Rural vacations. Rural. Elec. 25(10): 15-17. July 1967. 335.8 N21  
Texas and Ohio.
- 89033 KARNIG, J. J. Recreation use within the Harvard Black Rock Forest. Black Rock Forest Papers 26, 4 p. 1966. 99.9 B562B
- 89034 KEET, B. J. Recreation and our soil. Farming S. Afr. 43(12):75-77. Mar. 1968. 24 So842
- 89035 KILEY, E. W. Recreation can ring rural cash register. Rural. Elec. 25(10):23. July 1967. 335.8 N21  
For electric power cooperatives.

- 89036 KITE, G. D. Recommended materials for recreational structures. Va. Polytech. Inst. Ext. Bull. 301:225-230. Sept.1966. 275.29 V81B
- 89037 KLUSSMAN, W. G. Stocking and maintenance of ponds and reservoirs for fishing. Tex. Turf-grass Conf. Proc. 22:97-102. Dec.1967. 60.19 T31
- 89038 KNETSCH, J. L. Outdoor recreation in the market place. Va. Polytech. Inst. Ext. Bull. 301:40-51. Sept.1966. 275.29 V81B
- 89039 LINDSAY, J. J. Outdoor recreation development; cluster design. Vt. Univ. Ext. Brieflet 1154, 11 p. July 1967. 275.29 V59E  
Designed land utilization.
- 89040 MATTSO, C. D., and BENTLEY, W. R. Ratio estimates of free campground use. J. Forest. 65(6):410-413. June 1967. 99.8 F768
- 89041 MCNEELY, J. G., and BADGER, D. D. Demand for selected recreational activities in south central Oklahoma. Okla. Agr. Exp. Sta. Tech. Bull. T-126, 44 p., map. May 1968. 100 Ok4
- 89042 MITCHELL, P. M. Commercial shooting preserves, leased hunting privileges, and hunter services. (Excerpts.) Va. Polytech. Inst. Ext. Bull. 301:346-353. Sept.1966. 275.29 V81B
- 89043 MORSE, T. W. Role of the National Park Service in outdoor recreation. Va. Polytech. Inst. Ext. Bull. 301:407-409. Sept.1966. 275.29 V81B
- 89044 MUNSON, K. F. Income-producing opportunities in recreation. Va. Polytech. Inst. Ext. Bull. 301:86-91. Sept.1966. 275.29 V81B  
Includes recreation as source of supplementary farm income.
- 89045 MYLES, G. A. Water based recreation in Nevada; statistical appendix. Nev. Agr. Exp. Sta. B 18, 80 p. Feb.1968. 100 N41B
- 89046 NOBLE, N. W. Mess at Miracle Rock. Our Public Lands 18(1):4-5. Winter 1968. 156.55 Ou7  
Recreation site in Colorado damaged by vandals.
- 89047 OARCEA, Z. Forests of touristic interest in Romania. (Rum) Rev. Padurilor 82(10):513-517. Oct.1967. 99.8 R327  
English summary.
- 89048 ORR, H. Road and foot travel systems-visitor traffic flow. Va. Polytech. Inst. Ext. Bull. 301:231-233. Sept.1966. 275.29 V81B  
In recreation areas.
- 89049 PARTAIN, L. E. Kinds of rural outdoor recreation enterprises. Va. Polytech. Inst. Ext. Bull. 301:3-9. Sept.1966. 275.29 V81B
- 89050 PARTAIN, L. E. Role of the Soil Conservation Service. Va. Polytech. Inst. Ext. Bull. 301:377-380. Sept.1966. 275.29 V81B  
In recreation business.
- 89051 PARTAIN, L. E. Use of soils knowledge in recreation area planning. Va. Polytech. Inst. Ext. Bull. 301:180-184. Sept.1966. 275.29 V81B  
Soil survey.
- 89052 PURCELEAN, ST., and HAMPU, V. Aspects of forest esthetics. (Rum) Rev. Padurilor 82(10):509-512. Oct.1967. 99.8 R327  
English summary.  
Management for recreational purposes.
- 89053 RĂMBAUD, P. Tourism and urbanization of the countryside. (Fr) Sociol. Ruralis 7(4):311-334. Ref. 1967. 281.29 So12  
English summary.
- 89054 ROBINSON, D. H., and KING, L. E. Interpretation, information, and entertainment. Va. Polytech. Inst. Ext. Bull. 301:319-322. Sept. 1966. 275.29 V81B  
Recreation enterprises.
- 89055 ROBINSON, D. H. Principles and procedures for self-guiding trails. Va. Polytech. Inst. Ext. Bull. 301:189-198. Sept.1966. 275.29 V81B
- 89056 ROBINSON, W. C. The simple economics of public outdoor recreation. Land Econ. 43(1):71-83. Feb.1967. 282.8 J82
- 89057 SCHAEFER, L. M. Federal cost-share programs of the ASCS [Agricultural Stabilization and Conservation Service] as applicable to recreation. Va. Polytech. Inst. Ext. Bull. 301:385-393. Sept.1966. 275.29 V81B  
Programs of the Conservation and Land Use Division.
- 89058 SHELTON, L. V. Capital investments and sources of financing. Va. Polytech. Inst. Ext. Bull. 301:65-71. Sept.1966. 275.29 V81B  
Recreation enterprises.
- 89059 SHELTON, L. V. Financing rural recreational enterprises. Va. Polytech. Inst. Ext. Bull. 301:166-170. Sept.1966. 275.29 V81B
- 89060 SHELTON, L. V. Role of the Farmers Home Administration in outdoor recreation. Va. Polytech. Inst. Ext. Bull. 301:381-384. Sept. 1966. 275.29 V81B
- 89061 SMITH, L. L. Developing recreation and food production resources in Minnesota waters. Minn. Sci. 23(3):8-9. Apr.1967. 100 M668
- 89062 SMYTHE, P. E. Conducting a feasibility study for a proposed outdoor recreation enterprise. Kans. State Univ. Ext. Looking Ahead K-State Econ., June 19, 1968, 2 p. HD9284.U5K3
- 89063 SNYDER, R. W. Seasonal homes benefit rural Minnesota; owners of second homes leave more money in rural Minnesota than most of us realize. Minn. Sci. 24(2):18-21, map. Winter 1968. 100 M668
- 89064 SWEARINGEN, W. C. Outdoor recreation, present-past-future. Nat. Reclam. Ass. Proc. 1967:176-181. 55.9 N212  
In Texas.
- 89065 TAKATA, M. Recreational values of fish and wildlife resources and their relationship to water developments projects. Nat. Reclam. Ass. Proc. 1967:170-175. 55.9 N212
- 89066 TAYLOR, G. D. Evaluation of site's potential for a successful outdoor recreation enterprise. Va. Polytech. Inst. Ext. Bull. 301:125-136. Sept.1966. 275.29 V81B
- 89067 THARP, M. M. Development of market potentials for income-producing recreation. Va. Polytech. Inst. Ext. Bull. 301:149-159. Sept. 1966. 275.29 V81B
- 89068 THARP, M. M. Qualifications of the successful owner-operator of a commercial outdoor recreation enterprise. Va. Polytech. Inst. Ext. Bull. 301:137-143. Sept.1966. 275.29 V81B
- 89069 U. S. BUR. OF OUTDOOR RECREATION. Bureau of Outdoor Recreation in the Missouri River Basin. U. S. Dep. Interior, Mo. River Basin Progr. 1968:66-71. 156.84 M69
- 89070 U. S. BUR. OF OUTDOOR RECREATION. NORTHEAST REGIONAL OFF. NATIONWIDE PLAN SECT. Open space standards data. Va. Polytech. Inst. Ext. Bull. 301:238-246. Sept. 1966. 275.29 V81B  
For particular recreational activities and facilities.
- 89071 U. S. SOIL CONSERVATION SERV. Ratios and distances between people, land, and facilities on recreation areas. Va. Polytech. Inst. Ext. Bull. 301:234-237. Sept.1966. 275.29 V81B
- 89072 UNGUR, A. Development of tourism and forests. (Rum) Rev. Padurilor 82(10):505-508. Oct.1967. 99.8 R327  
English summary.
- 89073 VERSLUYS, J. D. N. Hydrological achievements and social problems. Symp. Sci. Probl. Humid Trop. Zone Deltas Implications. Proc. 1966:357-359. GB1205.S3
- 89074 VIRGINIA POLYTECHNIC INSTITUTE, AGRICULTURAL EXTENSION SERV. Virginia inter-agency memorandum; procedures for rendering assistance in the development of outdoor recreation facilities. Va. Polytech. Inst. Ext. Bull. 301:418-422. Sept.1966. 275.29 V81B
- 89075 WASHINGTON STATE UNIVERSITY, EXTENSION SERV. Checklist; ideas for outdoor recreation profit. Wash. State Univ. Ext. E. M. 2902, 7 p. Feb.1968. 275.29 W27Mi



- 89076 WASHINGTON, STATE UNIVERSITY. EXTENSION SERV. Checklist; outdoor recreation budget. Wash. State Univ. Ext. E. M. 2904, 8 p. Feb. 1968. 275.29 W27Mi
- 89077 WASHINGTON, STATE UNIVERSITY. EXTENSION SERV. Checklist; outdoor recreation potential. Wash. State Univ. Ext. E. M. 2903, 12 p. Feb. 1968. 275.29 W27Mi
- 89078 WENNERGREN, E. B. Surrogate pricing of outdoor recreation. Land Econ. 43(1):112-116. Feb. 1967. 282.8 J82
- 89079 WILLIAMSON, E. J. Factors to consider in developing a private recreation business. Va. Polytech. Inst. Ext. Bull. 301:414-417. Sept. 1966. 275.29 V81B  
For the farmer.
- 89080 WYOMING, UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Fish and fishing in Wyoming. Wyo. Univ. Ext. [4-H Club Circ.] WL-5-67, 48 p., map. Ref. June 1967. 275.29 W99Fc  
Wyoming Game and Fish Department, cooperating.

## RURAL SOCIAL ORGANIZATION

- 89081 BURIE, J. B. Prolegomena to a theoretical model of intercommunity variation. Sociol. Ruralis 7(4):347-364. Ref. 1967. 281.29 So12  
Rural-urban differences.
- 89082 GALJART, B. Old patrons and new: some notes on the consequences of patronage for local development projects. Sociol. Ruralis 7(4):335-346. Ref. 1967. 281.29 So12  
Rural social organization.
- 89083 HARSCH, E. The importance of sociology to economic and policy research in agriculture. (Ge) Agrarwirtschaft 17(5):145-153. Ref. May 1968. 281.8 Ag826  
English summary.
- 89084 HERSKOVITS, M. J. The human factor in changing Africa. New York, Vintage Books, 1967. 500 p. Ref. DT352.H4
- 89085 KOLARIK, J. The establishment of the Institute of Rural Sociology and History of Agriculture [Institute Sociologie a Historie Zemedelstvi]. (Cz) Prague. Vyzk. Ustav Zemed. Vestn. 13(6):295-296. 1966. 19.5 C333
- 89086 KUNOWSKI, K. VON. Sociological aspects of the agricultural memoir of the German Evangelical Church. (Ge) Z. Agrargesch. Agrarsoziol. 15(1):49-59. Apr. 1967. 30.98 Z3
- 89087 LI, A. Women's contribution to agricultural and family development. S. Dak. State Univ. Ext. Spec. Rep. 4:41-43. 1965. 275.29 So85Sr  
Taiwan.
- 89088 MANSHOLT, S. L. Farmers facing the acceleration of social evolution. (Fr) Agriculture (Paris) 309:81-83. Mar. 1968. 14 Ag823
- 89089 MCARTHUR, A. Family-life education potential. J. Coop. Ext. 5(4):231-237. Winter 1967. 275.28 J82
- 89090 NELSON, D. Extension public affairs program zeros in on Dimensions of Iowa Welfare. Ext. Serv. Rev. 39(5):10-11. May 1968. 1 Ex892Ex
- 89091 SCHOTT, L. Results of anthropological investigations in Reckahn of grave-yards from the Middle Ages. (Ge) Z. Agrargesch. Agrarsoziol. 15(1):1-5. Ref. Apr. 1967. 30.98 Z3

## Human Ecology

- 89092 BOESCH, H. Influence of man's traditional activities on soils and vegetation. Symp. Sci. Probl. Humid Trop. Zone Deltas Implications. Proc. 1966:301-304. GB1205.S3
- 89093 BOSE, S. P. Social interaction in an Indian village. Sociol. Ruralis 7(2):157-175. 1967. 281.29 So12

- 89094 BROSI, G. Village renewal as a social task. (Ge) Agrarpolit. Rev. 23(13):558-565. Sept. 1967. 281.8 Ag824  
Rural development in Switzerland.
- 89095 BUDEL, J. Deltas—a basis of culture and civilization. Symp. Sci. Probl. Humid Trop. Zone Deltas Implications. Proc. 1966:295-300. GB1205.S3
- 89096 CAMPE, K. VON. Village reconstruction. (Ge) Bauen Landwirt. 4(6):103-107. Nov./Dec. 1967. 296.8 B324
- 89097 CRAIN, N. Methodology in area analysis. Symp. Sci. Probl. Humid Trop. Zone Deltas Implications. Proc. 1966:361-369. GB1205.S3
- 89098 ERICKSON, D. B. Planning activities in Kansas. Kans. State Univ. Ext. Looking Ahead K-State Econ., May 22, 1968, 2 p. HD9284.U5K3  
Community planning.
- 89099 FESSLER, D. R. Human resources. J. Coop. Ext. 6(1):39-45. Spring 1968. 275.28 J82  
Group participation in community activities with the poor.
- 89100 FREEMAN, O. L. Communities of tomorrow; agriculture/2000. Washington, U. S. D. A., 1967. 31 p. aHD1761.F7
- 89101 FURRER, G. Settlement and agricultural geographic observations in Braldotal (Karakorum). (Ge) Z. Agrargesch. Agrarsoziol. 15(1):6-13. Apr. 1967. 30.98 Z3
- 89102 HERBERT, J. R. Ecology and environmental design. Brit. Ecol. Soc. Symp. 7:241-253. Ref. 1966. 451 B775  
Human ecology.
- 89103 KAUPS, M., and MATHER, C. Eben: thirty years later in a Finnish community in the Upper Peninsula of Michigan. Econ. Geogr. 44(1):57-70. Jan. 1968. 278.8 Ec7  
Changes in social environment and in land utilization.
- 89104 KAVANAGH, J. C. Local control and improvement of community service. Farm Found. Increasing Understanding Public Probl. Policies. 1967:119-123. 275.29 F22
- 89105 KLUCZKA, G. The development of central site research in Germany. (Ge) Ber. Deut. Landeskunde 38(2):275-304. June 1967. 18 B454  
Cities and their environs.
- 89106 KNOWLES, R. H. A case for regional planning. Alberta Univ. Fac. Agr. Agr. Bull. 7:26-28. Feb. 1968. 101 AL1A
- 89107 LOBDELL, W. W. P. U. D. a planning concept. Rural Realtor. 20:1, 4. Apr. 1968. 282.8 R88
- 89108 MANSOUR, A. H. Pastoral and human problems in the arid zones of the Middle East. (Fr) J. Agr. Trop. Bot. Appl. 14(10-11):454-493. Ref. Oct./Nov. 1967. 26 J822  
Includes plant ecology.
- 89109 MOSKOVSKII INSTITUT INZHENEROV ZEMLEUSTROISTVA. Planirovka i zastroyka sel'skikh naselennykh mest [Planning and building of villages]. Mosk. Inst. Inzh. Zemleustroistva. Nauch. Tr. 38, 183 p. 1966. HD711.A1M6
- 89110 PAUL, A. Regionalism in Asia; a new thrust for development. San Francisco, 1967. 24 p. (Asia Foundation. Occasional Paper, No. 1) HT395.A82P3  
Agricultural planning and the problem of adopting new methods.
- 89111 PIVOVARCIK, A. Experience in the construction of rural settlements in the Znojmo district. (Cz) Vystavba Soc. Vesn. 5:109-111, map. 1966. 296.8 Z4
- 89112 SCHOLZ, E. Geomorphological review charts and their importance for regional research and protection of natural resources. (Ge) Arch. Naturschutz Landschaftsforsch. 6(4):271-279, map. 1966. 279.8 Ar2
- 89113 SMITH, C. M. Local control and improvement of community service. Farm Found. Increasing Understanding Public Probl. Policies 1967:124-128. 275.29 F22

- 89114 WASHINGTON, STATE UNIVERSITY. LIBRARY. SOCIAL SCIENCE DIV. Selected list of books, films and periodicals on community planning. Wash. State Univ. Ext. E. M. 1884, rev., 7 p. May 1968. 275.29 W27Mi
- 89115 WIECKOWSKI, M. Only small villages? (Pol) Budownictwo Wiejskie 19(10):8-9, map. Oct. 1967. 296.8 B85

### Institutions

- 89116 ADAMS, J. L. How to quicken extension's reflexes. Nebr. Univ. Coll. Agr. Home Econ. Quart. Serving Farm Ranch Home 14(4):8-10. Winter 1968. 100 N27N  
Communication in the Extension Service.
- 89117 ASSOCIATION DES INGENIEURS DE GEMBLOUX. Post-graduate education of agriculturists. (Fr) Ann. Gembloux 73(3):153-161. Third Q. 1967. 13 G28
- 89118 AVANZI, E. Agricultural instruction in Italy. (It) Ital. Agr. 104(4):418-442. Apr. 1967. 16 It1
- 89119 BLACK, C. M. Rural youth define the church's nature and mission. Rural Church 28(5):2-6. Oct./Dec. 1966. 281.28 R885
- 89120 BOCHEVER, A. M. Agricultural Libraries in USSR. INSPEL (Int. Newslett. Spec. Libr.) 3(1):87-90. 1968. Z671.I15
- 89121 BOOZ-ALLEN APPLIED RESEARCH, INC. Systems analysis and design of an integrated information system for the National Agricultural Library. Bethesda, 1967. 62 p. Z678.9B62  
Technical Proposal No. 5086.
- 89122 BUDD, K. B., and CHARLTON, J. L. Analysis of county school districts in Arkansas. Ark. Agr. Exp. Sta. Bull. 731, 60 p., map. June 1968. 100 Ar42
- 89123 CALIFORNIA UNIVERSITY. AGRICULTURAL EXTENSION SERV. Estate planning for farmers. Calif. Univ. Ext. Circ. 461, rev., 35 p. May 1968. 100 C12S
- 89124 CAMPBELL, R. R., and DILLEY, M. College attendance plans of high school seniors in Missouri. Mo. Agr. Exp. Sta. Bull. 874, 34 p. May 1968. 100 M693
- 89125 CEBOTAREV, E. A. Role of international study in staff development. S. Dak. State Univ. Ext. Spec. Rep. 4:74-76. 1965. 275.29 So85Sr  
Extension workers in Paraguay.
- 89126 CERVI, V. Agricultural films; problems of production and difficulty of distribution. (It) Agri Forum 9(1):11-14. Jan. 1968. 16 Ag8233
- 89127 CHAUDHRY, F. I. Adapting the extension idea to serve in different countries. S. Dak. State Univ. Ext. Spec. Rep. 4:36-37. 1965. 275.29 So85Sr  
Programs in Pakistan.
- 89128 CHEN, C. W. Preparation for an extension career. S. Dak. State Univ. Ext. Spec. Rep. 4:61-63. 1965. 275.29 So85Sr  
Taiwan.
- 89129 CHIPUNGU, A. W. Development of extension policy and administration in Malawi. S. Dak. State Univ. Ext. Spec. Rep. 4:38-39. 1965. 275.29 So85Sr
- 89130 CROFT, E. J. Passport to health; sanitation and disease prevention. Wyo. Univ. Ext. [4-H Club Circ.] H-1-67, 17 p. Nov. 1967. 275.29 W99Fc
- 89131 CROFT, J. Origin of Rural Life Sunday. Wyo. Univ. Ext. [4-H Club Circ.] G-39-67, 58 p. Ref. May 1967. 275.29 W99Fc
- 89132 CROFT, J. Passport to health; sanitation and disease prevention: Leaders' guide. Wyo. Univ. Ext. [4-H Club Circ.] H-2-67, 17 p. Jan. 1968. 275.29 W99Fc
- 89133 DE LAMOTTE, R. From extension to development. (Fr) Inform. Agr. (Paris). 366:38-39. Jan. 1967. HD1945.A115
- 89134 DOUGLAH, M. A. Program-planning research. J. Coop. Ext. 6(1):29-38. Spring 1968. 275.28 J82  
Extension work.
- 89135 DOWGIALLO, Z. Problems of organizing training periods for graduates of higher agricultural schools. (Pol) Nowe Roln. 16(3):25-26. 1967. 20.5 N86
- 89136 EVERLY, J. C. Search for consistency. J. Coop. Ext. 5(2):93-100. Summer 1967. 275.28 J82  
Communications in extension work.
- 89137 EWBANK, H. L., and BAKER, E. E. Tele-lecture or traditional lecture? J. Coop. Ext. 6(1):46-50. Spring 1968. 275.28 J82  
Extension work.
- 89138 FARM FOUNDATION. Increasing understanding of public problems and policies, 1967. Chicago, 1967. 152 p. 275.29 F22
- 89139 FEIGHT, J. J. Photography, the universal language. ACE (Amer. Ass. Agr. Coll. Editors) 50(4):2-3. Jan./Feb. 1968. 238 Am33A  
Use in extension work by the University of Nebraska Mission in Colombia for the Instituto Colombiano Agropecuario.
- 89140 FINK, K. Educational problems in the field of agriculture. (Ge) Forderungsdienst 16(3):96-101. Mar. 1968. 19 F75  
Austria.
- 89141 FLORIDA UNIVERSITY. AGRICULTURAL EXTENSION SERV. 1967 annual report. Gainesville, 1968? 33 p. 275.29 F66A
- 89142 FRAZIER, L. Industries for towns and small cities. Kans. State Univ. Ext. Looking Ahead K-State Econ., Mar. 5, 1968, 2 p. HD9284.U5K3
- 89143 FREDERIC, M. In-service and on-the-job training and education. S. Dak. State Univ. Ext. Spec. Rep. 4:63-64. 1965. 275.29 So85Sr  
Extension workers in Haiti.
- 89144 GALLAHER, A. The agent as an analyst. J. Coop. Ext. 5(4):214-222. Winter 1967. 275.28 J82  
County agents.
- 89145 GALLAHER, A., and SANTOPOLO, F. A. Perspectives on agent roles. J. Coop. Ext. 5(4):223-230. Winter 1967. 275.28 J82  
Relations with client group.
- 89146 GARTNER, H. Hygiene of rural area. (Ge) Zentralbl. Bakteriell. Parasitenk. Infektionskr. Hyg. Abt. I, Orig. 205(1/3):329-357. Ref. Dec. 1967. 448.3 C33
- 89147 GORDON, J. Selection and training of agricultural students. World Crops 19(1):34-36. Mar. 1967. 281.8 W892  
In African universities.
- 89148 GREENWOOD-BARTON, L. H. The training of overseas personnel at the Tropical Products Institute. (Ja) Agr. Asia 5(9):3-7. Sept. 1967. 22.5 A5
- 89149 GRIGORIOU, G. Making the most of limited resources. S. Dak. State Univ. Ext. Spec. Rep. 4:27-28. 1965. 275.29 So85Sr  
Extension programs in Greece.
- 89150 HADRIN, C. M. Administration of extension programs. S. Dak. State Univ. Ext. Spec. Rep. 4:17-18. 1965. 275.29 So85Sr
- 89151 HEARNE, C. C. Expanding the effectiveness of international training. S. Dak. State Univ. Ext. Spec. Rep. 4:76-77. 1965. 275.29 So85Sr  
Extension workers.
- 89152 HOLM, E. E. With whom does extension work? S. Dak. State Univ. Ext. Spec. Rep. 4:34-36. 1965. 275.29 So85Sr  
Programs in Denmark.
- 89153 HUMPHREY, H. H. Address to delegates. S. Dak. State Univ. Ext. Spec. Rep. 4:11-13. 1965. 275.29 So85Sr  
Extension programs.
- 89154 HURD, H. G. Who is a professional? J. Coop. Ext. 5(2):77-84. Summer 1967. 275.28 J82



- 89155 IBSEN, C. A., and ALERS-MONTALVO, M. Expressed family needs. *J. Coop. Ext.* 5(2): 85-92. Summer 1967. 275.28 J82  
Development of useful extension programs in relation to social change.
- 89156 IE-NO-HIKARI ASSOCIATION. Survey on -- reading materials for rural people. *Jap. Agr. Coop News* 7(3):10-11. Feb. 1967. 280.28 J27
- 89157 IWANCZUK, A. Evaluation of agricultural education. Remarks and conclusions on the basis of Bielsko County in Bialystok Province. (Pol) *Nowe Roln.* 16(3):32-33. 1967. 20.5 N86
- 89158 JANNE, H. Present and future of post-graduate education in Belgian universities. (Fr) *Ann. Gembloux* 73(3):117-135. Third Q. 1967. 13 G28
- 89159 JIMENEZ LOZANO, M. E. Mexico's adaptation of the agricultural extension service. *S. Dak. State Univ. Ext. Spec. Rep.* 4:37-38. 1965. 275.29 So85Sr  
Programs.
- 89160 JONES, R. E. Supervision improves results. *S. Dak. State Univ. Ext. Spec. Rep.* 4:77-80. Ref. 1965. 275.29 So85Sr  
Extension work.
- 89161 JOSHI, A. C. Students, youth and national development. *Yojana* 11(9):5-12. May 14, 1967. 280.8 Y7  
In India, USSR, and Yugoslavia.
- 89162 JOURNEE D'ETUDE SUR LA FORMATION POST-UNIVERSITAIRE ET LES SCIENCES AGRONOMIQUES, 16, GEMBLoux, 1967. [Papers of the sixteenth Study Conference on Post-University Education and the Agricultural Sciences]. (Fr) *Ann. Gembloux* 73(3):113-173. Third Q. 1967. 13 G28  
Introduction and conclusion by H. Mahu.
- 89163 KALSEM, P. J. Practical supervision. *S. Dak. State Univ. Ext. Spec. Rep.* 4:80-82. 1965. 275.29 So85Sr  
Extension work.
- 89164 KAN, T. Program preparation--effective activity foundation. *S. Dak. State Univ. Ext. Spec. Rep.* 4:50-54. 1965. 275.29 So85Sr  
Extension program in Japan.
- 89165 KANSAS. STATE UNIVERSITY OF AGRICULTURE AND APPLIED SCIENCE. EXTENSION SERV. What does Extension do? *Kans. State Univ. Agr. Ext. L-216, 4 p.* Oct. 1967. 275.29 K13Le
- 89166 KHMAROV, V., and PLOTNIKOV, A. A promising important factor. (Rus) *Sel'skokhoz. Proizvodstvo Povolzh'ya* 4:10. Apr. 1967. 281.8 Se4  
Handicrafts on the farms.
- 89167 KILEY, E. W. Industrial site information service vital part of rural industrialization programs. *Rural Elec.* 26(4):44-45. Jan. 1967. 335.8 N21
- 89168 KRAUSE, K. R. Family estate planning. *S. Dak. Farm Home Res.* 18(2):8-9, 19. Spring 1967. 100 So82S
- 89169 LANIER, A. R. Women in the rural areas. *Amer. Acad. Polit. Soc. Sci. Ann.* 375:115-123. Jan. 1968. 280.9 Am34
- 89170 LECHENE, J. OECD activities in agricultural advisory work and related fields. *S. Dak. State Univ. Ext. Spec. Rep.* 4:20-22. 1965. 275.29 So85Sr  
Organisation for Economic Co-operation and Development.
- 89171 LEUTHOLD, F. O., and BADENHOP, M. B. The social-economic position of the elderly in Tennessee and the Cumberland Plateau Region. *Tenn. Farm Home Sci. Progr. Rep.* 62: 2-4. Apr./June 1967. 100 T25F
- 89172 LINDQUIST, S. Scandinavian aid to Kenya. (Sw) *Sveriges Jordbrkassforbund. Jordbrkasserorelsen.* 27(6):189-196. 1967. 284.29 Sv2  
Education of extension workers.
- 89173 MACHADO, G. O. D. Training personnel was the solution. *S. Dak. State Univ. Ext. Spec. Rep.* 4:65. 1965. 275.29 So85Sr  
Extension workers in Brazil.
- 89174 MACRIS, A. T. Development of extension education throughout the world. *S. Dak. State Univ. Ext. Spec. Rep.* 4:14-15. 1965. 275.29 So85Sr  
Extension teaching.
- 89175 MAETZOLD, G. Problems involved in training in "Technology of agricultural production" in specialist branches of agricultural faculties in the German Democratic Republic. (Ge) *Z. Agrarikon.* 10(3):127-133. Ref. 1967. 281.8 Z3
- 89176 MARKS, J. J. Ag stories on TV newscasts? *ACE (Amer. Ass. Agr. Coll. Editors)* 50(4):6. Jan./Feb. 1968. 238 Am33A
- 89177 MATHEWS, J. L. Measuring results. *S. Dak. State Univ. Ext. Spec. Rep.* 4:82-85. 1965. 275.29 So85Sr  
Extension work.
- 89178 MAYER, R. E., and RIECK, R. E. Evaluating the unit approach: FHD [Farm and Home Development program.] *J. Coop. Ext.* 5(2): 101-109. Summer 1967. 275.28 J82  
Extension methods.
- 89179 MCCORMICK, R. W. A basis for change. *J. Coop. Ext.* 5(2):117-121. Summer 1967. 275.28 J82  
Use of educational research in extension work.
- 89180 METZEN, E. J., and JOHNSON, M. L. A will of your own; answers to questions about your property and heirs. *Mo. Univ. Ext. Circ.* C-863, 26 p. May 1966. 275.29 M69C
- 89181 MOE, R. A Wyoming 4-H Club handicraft project. I. Leathercraft. *Wyo. Univ. Ext. 4-H Club Circ.* LC-5-67, 52 p. June 1967. 275.29 W99Fc
- 89182 MOLESTINA ESCUDERO, C. J., and URIZAR M., M. T. Directorio de profesionales en ciencias agricolas de America Central [Directory of professionals in agricultural sciences in Central America]. *Inst. Interamer. Cienc. Agr. Publ. Misc.* 49, 155 p. Apr. 1968. 28 In83P
- 89183 NAPIER, C. AAACE? AAAE? or AAAEC? That is the question. *ACE (Amer. Ass. Agr. Coll. Editors)* 50(4):5-6. Jan./Feb. 1968. 238 Am33A
- 89184 OLDENBANNING, L. G. Education beyond training. (Du) *Landbouwkundig Tijdschr.* 79 (3):65-66. Mar. 1967. 105.2 Or3
- 89185 OPAVA, J. Method of intensive utilization of scientific and technical information in the technical development of agriculture. (Cz) *Prague. Vyzk. Ustav Zemed. Vestn.* 13(7):327-333. 1966. 19.5 C333  
Education.
- 89186 OREGON. STATE UNIVERSITY. FEDERAL CO-OPERATIVE EXTENSION SERV. A will of your own; answers to questions about your property and heirs. *Oreg. State Univ. Ext. Bull.* 807, rev., 23 p. Apr. 1968. 275.29 Or32B
- 89187 OSORIO B., L. Relationships between extension education and service programs aimed at community or village improvements. *S. Dak. State Univ. Ext. Spec. Rep.* 4:28-30. 1965. 275.29 So85Sr  
Nicaragua.
- 89188 PALASZ, L. Development of agricultural training schools in Szczecin Province. (Pol) *Nowe Roln.* 16(4):25-26. 1967. 20.5 N86
- 89189 PARKER, D., and others. Primer for agricultural libraries; preliminary edition. Oxford, International Association of Agricultural Librarians and Documentalists, 1967. 72 p.  
F. C. Hirst, T. P. Loosjes, and G. Koster, joint authors.  
Bibliographies, p. 55-72.

- 89190 PEREZ-GARCIA, A. Anticipating future needs and problems. S. Dak. State Univ. Ext. Spec. Rep. 4:22-26. 1965. 275.29 So85Sr  
Extension programs.
- 89191 PERUMAL, N. Agricultural extension training. S. Dak. State Univ. Ext. Spec. Rep. 4:66. 1965. 275.29 So85Sr  
Extension workers in India.
- 89192 PISANI, E. Permanent education in the scientific society of tomorrow. (Fr) Ann. Gembloux 73(3):137-152. Third Q.1967. 13 G28
- 89193 PRINS, F. W. On the educational competence of the agricultural technician. (Du) Landbouwkundig Tijdschr. 79(8):251-255. Aug.1967. 105.2 Or3
- 89194 RAO, M. G. V. Identity of extension education with community development. Andhra Agr. J. 14(4):106-112. Ref. 1967. 34.2 An4
- 89195 RASSI, J. Scope, elements and principles in successful extension education. S. Dak. State Univ. Ext. Spec. Rep. 4:15-17. 1965. 275.29 So85Sr  
Extension teaching.
- 89196 REICHERT, W. Building advisory work--fundamentals and experiences. (Ge) Forderungsdienst 15(2):37-41. Feb.1967. 19 F75  
Planning in Austria.
- 89197 RODUTA, F. L. Hand-rolled cigars as a cottage industry: a project study. Philippine Tobacco Rev. 4(2):13-15. Apr./June 1967. 286.89 P53
- 89198 RYAN, J. C. Handloom--weavers' co-operatives in India. Year Book Agr. Co-op. 1966:44-51. 280.29 H78
- 89199 SCHREINER, L., and TODD, G. Cooperative training in agriculture. Tex. Turfgrass Conf. Proc. 22:81-82. Dec.1967. 60.19 T31
- 89200 SENTI, A. The Swiss Federal Assembly 1848 to 1920. Rural participation in the confederate assemblies. (Ge) Agrarpolit. Rev. 23(13):566-569. Sept.1967. 281.8 Ag824
- 89201 SEYMOUR, W. R. Hands shape new futures from old crafts. News Farmer Coop. 35(4):7-8. July 1968. 166.2 N47  
Kentucky Hills Industries cooperative.
- 89202 SHERROD, J. The National Agricultural Library. INSPEL (Int. Newslett. Spec. Libr.) 3(1):82-86. 1968. S671.I15
- 89203 SLIWKA, S. Some remarks on various forms of spreading agricultural technology by extension workers. (Pol) Nowe Roln. 16(3):29-32. 1967. 20.5 N86
- 89204 SMITH, E. The extension program for commercial agriculture. N. Y. State Hort. Soc. Proc. 113:43-47. 1968. 81 N484
- 89205 STEINER, R. J. Format, content in recruiting brochures. ACE (Amer. Ass. Agr. Coll. Editors) 50(4):8 Jan./Feb.1968. 238 Am33A  
For student recruitment by agricultural colleges.
- 89206 STONE, J. T. Better extension administration. S. Dak. State Univ. Ext. Spec. Rep. 4:18-20. 1965. 275.29 So85Sr
- 89207 SWOBODA, D. W. New use of phone communication. J. Coop. Ext. 6(1):15-22. Spring 1968. 275.28 J82  
By the Nebraska Cooperative Extension Service.
- 89208 WALKER, J. Outline of demonstration skit for inter-division cooperation required to service one farmer. USAID/Ghana Agr. Conf. Proc., 7th Conf.:24-26. 1966. S401.U5  
Extension service.
- 89209 WALLESHAUSEN, GY. Agricultural Library services in Hungary. INSPEL (Int. Newslett. Spec. Libr.) 3(1):98-102. 1968. S671.I15
- 89210 WELLMANN, I. The activity of the Hungarian agricultural museums. (Ge) Z. Agrargesch. Agrarsoziol. 15(1):64-67. Apr.1967. 30.98 Z3
- 89211 WERMER, F. E., and BRINGGREVE, J. H. Agriculture and television. (Du) Neth. Dir. Landbouw. Landbouwvoorlichting 24(12):459-465. Dec.1967. 12 N383M  
Courses.
- 89212 WILLIAMS, B. A. A. Requirements for an effective extension agent in agricultural production. USAID/Ghana Agr. Conf. Proc., 7th Conf.:58-62. 1966. S401.U5
- 89213 WILSON, L. R. Program development in the United States. S. Dak. State Univ. Ext. Spec. Rep. 4:48-50. 1965. 275.29 So85Sr  
Extension work.
- 89214 WOESTE, J. T. Misuse of group discussion J. Coop. Ext. 5(2):110-116. Summer 1967. 275.28 J82  
Adult education.
- 89215 WORLD CONGRESS OF AGRICULTURAL LIBRARIANS AND DOCUMENTALISTS, 3, WASHINGTON, 1965. Proceedings. Oxford, International Association of Agricultural Librarians and Documentalists, 1968. 177 p. Z675.A8W9 1965  
O. L. Freeman, honorary president; F. E. Mohrhardt, general chairman.  
Abstracts of papers.
- 89216 WUNDERLICH, G. Extending Extension through improved communication. Va. Polytech. Inst. Ext. Va. Farm Econ. 208:9-13. May/June 1968. 275.29 V813
- 89217 WYOMING. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Know your government, a group citizenship activity for Wyoming 4-H Clubs: The State government phase. Wyo. Univ. Ext. [4-H Club Circ.] CZ-10a-67,19 p. May 1967. 275.29 W99Fc
- 89218 ZITOUNA, M. The El Habibia Project. S. Dak. State Univ. Ext. Spec. Rep. 4:55. 1965. 275.29 So85Sr  
Extension program in Tunisia.

#### Leadership

- 89219 MAWBY, R. G. Developing future leadership--today's youth. S. Dak. State Univ. Ext. Spec. Rep. 4:39-40. 1965. 275.29 So85Sr
- 89220 OLSEN, B. K. Dance leadership. Wyo. Univ. Ext. [4-H Club Circ.] 1967,28 p. 275.29 W99Fc
- 89221 OLSEN, B. K. Game leadership. Wyo. Univ. Ext. [4-H Club Circ.] 1967,33 p. 275.29 W99Fc
- 89222 PALMER, M. DE L. A. Developing and involving lay leaders. S. Dak. State Univ. Ext. Spec. Rep. 4:58-59. 1965. 275.29 So85Sr  
Brazil.
- 89223 POWERS, R. C. Power actors and social change. II. J. Coop. Ext. 5(4):238-248. Winter 1967. 275.28 J82  
Techniques used to identify leadership in communities.
- 89224 RAHMAN, A. EL A. A. Problems in developing and involving lay leaders in the Sudan. S. Dak. State Univ. Ext. Spec. Rep. 4:59-61. 1965. 275.29 So85Sr  
Extension programs.
- 89225 SINGH, R. B. Development and involvement of lay leaders in extension program. S. Dak. State Univ. Ext. Spec. Rep. 4:57-58. 1965. 275.29 So85Sr
- 89226 TRIEB, S. E. Managerial leadership. Kans. State Univ. Ext. Looking Ahead K-State Econ., May 29,1968,2 p. HD9284.U5K3
- 89227 WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Invitation to serve young people. Wash. State Univ. Ext. Ext. Circ. 354,4 p. Apr.1968. 275.29 W27C  
Four-H Club leaders.
- 89228 WYOMING. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Home management leader's guide. Wyo. Univ. Ext. [4-H Club Circ.] HM-6-68,7 p. Mar.1968. 275.29 W99Fc



- 89229 WYOMING. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Junior leadership record book. Wyo. Univ. Ext. [4-H Club Circ.] JL-5a-67,18 p. Sept.1967. 275.29 W99Fc
- 89230 WYOMING. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Your opportunities and privileges as a 4-H Club leader. Wyo. Univ. Ext. [4-H Club Circ.] G-37-68,6 p.-folder. 1968? 275.29 W99Fc

#### Rural Organizations and Movements

- 89231 CUISENIER, J. Agricultural unions and co-operatives in France. (It) Riv. Econ. Agr. 21(6):9-24. 1966. 281.8 R52  
English summary.
- 89232 EASTMAN, W. R., and POWNALL, H. D. Photography record book, Unit I. Adventures with your camera. Wyo. Univ. Ext. [4-H Club Circ.] Ph-5a-67,31 p. Jan.1967. 275.29 W99Fc
- 89233 EASTMAN, W. R., and POWNALL, H. D. Photography record book, Unit II. Challenges in picture taking. Wyo. Univ. Ext. [4-H Club Circ.] Ph-10a-67,31 p. Jan.1967. 275.29 W99Fc
- 89234 EASTMAN, W. R., and POWNALL, H. D. Photography record book, Unit III. Exploring photography. Wyo. Univ. Ext. [4-H Club Circ.] Ph-15a-67,39 p. Jan.1967. 275.29 W99Fc
- 89235 FEDERATED FARMERS OF NEW ZEALAND. NORTH CANTERBURY DISTRICT. 1967 year book. Wellington, 1967. 196 p. 23 N81
- 89236 GILLETTE, C. Future Farmers cooperation with the State Horticultural Society, 1928-1968. N. Y. State Hort. Soc. Proc. 113:305-307. 1968. 81 N484
- 89237 GYLLENSVARD, S. G. The future of the County Agricultural Society. (Sw) Hallands Lans Hushallningssallsk. Tidskr. 10(6):6-7. Dec. 1967. 11 H152  
Hallands Lans Hushallningssallskap. (Sweden).
- 89238 JEAN, L. J. Syndicalism of young farmers. (Fr) Agriculture (Montreal) 24(4):24-27. Dec. 1967. 7 Ag82  
France and Belgium.
- 89239 JORNLD, B. 1800 4-H Club members in Halland. (Sw) Hallands Lans Hushallningssallsk. Tidskr. 5:18-21. Sept.1967. 11 H152
- 89240 JORNLD, B. Leisure activities for active youth. (Sw) Hallands Lans Hushallningssallsk. Tidskr. 2:4-6. Mar.1967. 11 H152  
4-H clubs.
- 89241 KANSAS STATE GRANGE. Proceedings, ninety-sixth annual session, Manhattan, Kansas, October 23,24,25,26, 1967. n.p., 1967. 84 p. 4 K13
- 89242 REIS, O. G. Program development in 4-S Club work in Brazil. S. Dak. State Univ. Ext. Sepc. Rep. 4:44-46. 1965. 275.29 So85Sr
- 89243 SCOTTISH AGRICULTURAL ORGANISATION SOCIETY. Report for the year to 31st March, 1967. Edinburgh, 1967. 39 p. 10 Sco84
- 89244 SVINSAS-LO, K. The European Economic Community farmers organizations—from Norway's point of view. (No) Norsk Landbruk 3:8-9,20. Feb.9,1968. 11 N8122
- 89245 VASSERIE, J. DE. Principles of the economic organisation of agriculture in France. (It) Riv. Econ. Agr. 21(6):25-34. 1966. 281.8 R52  
English summary.
- 89246 WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Activities for delegates; State 4-H Conference. Wash. State Univ. Ext. E. M. 1503A,rev.,8 p. May 1968. 275.29 W27Mi
- 89247 WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. How you can prepare for the State 4-H Conference as a county delegation. Wash. State Univ. Ext. E. M. 2286,rev.,4 p. Apr.1968. 275.29 W27Mi
- 89248 WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Your 4-H group studies Japan. Wash. State Univ. Ext. E. M. 2924,4 p. Apr. 1968. 275.29 W27Mi

- 89249 WOHLERMANN, S. New accents for the work of rural youth. (Ge) Landesver. Gartenbau Landwirt. Berlin. Mitteilungsbl. 18(2):15-16. Feb.1967. 85 L233  
Bund der Deutschen Landjugend.
- 89250 WYOMING. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. 4-H contests, awards, and recognitions. Wyo. Univ. Ext. [4-H Club Circ.] G-19-67,39 p. Mar.1967. 275.29 W99Fc
- 89251 WYOMING. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. 4-H films. Wyo. Univ. Ext. [4-H Club Circ.] G-13-67,15 p. Apr.1967. 275.29 W99Fc  
Bibliography.
- 89252 WYOMING. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Reference list for requesting 4-H Club kits. Wyo. Univ. Ext. [4-H Club Circ.] G-46-68,rev.,15 p. 1968. 275.29 W99Fc

#### Cooperative Organizations

- 89253 ABRAHAMSEN, M. A. Co-operative research and teaching conferences in the United States. Year Book Agr. Co-op. 1966:75-85. 280.29 H78
- 89254 AMES, J. W. Technical assistance from movement to movement. (Fr) Cooperation 37(6):29-32. June 1967. 280.28 C7845  
The role of Kooperativa Forbundet in Portuguese cooperative development.
- 89255 ANTONIADES, S. Agricultural co-operation in Greece. Year Book Agr. Co-op. 1966:129-148. 280.29 H78
- 89256 AUSTIN, J. R. Co-operative law, regulations and constitution. In Warley, T. K., ed. Agricultural producers and their markets, p.377-391. 1967. HD9000.1.W3  
Great Britain.
- 89257 AUSTIN, J. R. Division of functions in co-operative development. In Warley, T. K., ed. Agricultural producers and their markets, p.392-398. 1967. HD9000.1.W3
- 89258 BERGMANN, T. Agricultural co-operation in Poland. Year Book Agr. Co-op. 1967:150-161. 280.29 H78
- 89259 BETTS, M. E. Let your farm patrons know that you're doing a good job. GTA(Grain Terminal Ass.) Dig. 27(9):18-26. Nov.1967. 280.28 G11  
Public relations for farmer cooperatives.
- 89260 BHALERAO, M. M. Problems of co-operation for Indian agriculture. Year Book Agr. Co-op. 1966:29-43. 280.29 H78
- 89261 BONNER, A. The consumer co-operative movement. In Warley, T. K., ed. Agricultural producers and their markets, p.371-374. 1967. HD9000.1.W3  
Great Britain.
- 89262 BOYAN, R. H. Regional collaboration for co-operative development in the South Pacific. Year Book Agr. Co-op. 1966:252-258. 280.29 H78
- 89263 CHATER, S. W. Co-operation as an antidote to inflation: a South African view. Year Book Agr. Co-op. 1967:243-249. 280.29 H78
- 89264 CHATER, S. W. Co-operation in South Africa: development problems. Year Book Agr. Co-op. 1966:69-74. 280.29 H78
- 89265 CHEESMAN, W. J. W. The co-operative movement in Jordan. Year Book Agr. Co-op. 1966: 229-234. 280.29 H78
- 89266 CHILDS, M. Broaden communications horizons. In U. S. Dept. of Agriculture. Cooperatives—partners in American life, October, 1965, p.10-13. 1966. aHD1491.U5  
Cooperatives.
- 89267 CLARKSON, C. Forming co-operatives in under-developed countries. In Warley, T. K., ed. Agricultural producers and their markets, p.414-423. 1967. HD9000.1.W3



- 89268 DAHNCKE, C. Co-ops are on upswing "down-under" [Australia]. *News Farmer Coop.* 35(4): 13-15. July 1968. 166.2 N47
- 89269 DIGBY, M. Agricultural co-operation in Turkey. *Year Book Agr. Co-op.* 1967:176-189. 280.29 H78
- 89270 DIGBY, M. Organizational structure and responsibilities in co-operatives. In Warely, T. K., ed. *Agricultural producers and their markets*, p.430-433. 1967. HD9000.1.W3
- 89271 DON, Y. Finance and economic management of agricultural co-operatives. *Year Book Agr. Co-op.* 1966:7-20. 280.29 H78
- 89272 GOODELL, D. N. [Hawaii Agricultural] Cooperative Conference summary. *Hawaii. Univ. Ext. Misc. Publ.* 48:26-27. Feb. 1968. S544.3.H3H3
- 89273 GREEN, G. J. B. Tanzania: an appraisal. *Year Book Agr. Co-op.* 1967:203-213. 280.29 H78
- 89274 GUILLET DE LA BROSSE, J.-B. Duties and questions of discipline to be observed in the agricultural cooperatives and similar groupings before developing and operating the agricultural marketing. (Fr) *Agrarpolit. Rev.* 23(13):554-557. Sept. 1967. 281.8 Ag824 In France.
- 89275 HAWAII. UNIVERSITY. AGRICULTURAL EXTENSION SERV. Proceedings; third Biennial Agricultural Cooperative Conference [1967]. *Hawaii. Univ. Ext. Misc. Publ.* 48:38 p. Feb. 1968. S544.3.H3H3  
Hawaii Department of Agriculture, and Hawaii Farm Bureau Federation, cooperating.
- 89276 HEERDEN, J. VAN. Structural changes in the agricultural co-operative movement in South Africa. *Year Book Agr. Co-op.* 1966:62-68. 280.29 H78
- 89277 HEWLETT, R. Status, achievements and problems of agricultural co-operatives in Europe. In Warley, T. K., ed. *Agricultural producers and their markets*, p.311-321. 1967. HD9000.1.W3
- 89278 HOAG, W. G. How important is advertising to co-ops? *News Farmer Coop.* 35(4):9. July 1968. 166.2 N47
- 89279 HOUEE, P. French agricultural cooperation and organizations (1884-1966); introduction to a bibliography. (Fr) *Int. Arch. Sociol. Coop.* 21:131-200. Jan./June 1967. 280.28 Ar22
- 89280 HULLE, A. VAN. Agricultural co-operation in the European Common Market. *Year Book Agr. Co-op.* 1967:29-41. 280.29 H78
- 89281 HULLE, A. VAN. Producer groups: a European view. *Year Book Agr. Co-op.* 1966:164-167. 280.29 H78
- 89282 IRISH AGRICULTURAL ORGANISATION SOCIETY. 1967 annual report. n.p., 1968. 55 p. 10 Ir42  
Cooperatives.
- 89283 JACOBSON, D. International program of U.S. Department of Agriculture [International Agricultural Development Service]. In U. S. Dept. of Agriculture. *Cooperatives-partners in American life*, October, 1965, p.90-91. 1966. aHD1491.U5  
Financing cooperatives in developing areas.
- 89284 KELLY, P. Co-operation in farm servicing. *Year Book Agr. Co-op.* 1967:133-146. 280.29 H78  
Advisory and other services in Ireland.
- 89285 KLIMOV, A. New developments in Soviet consumer cooperatives. U. S. Joint Publ. Res. Serv. Transl. USSR Consum. Goods Dom. Trade 191:6-17. Sept. 1, 1967. (JPRS 42,365; TT 67-32994) 173 J663Tro  
Includes rural areas.  
Translation from *Ekonomicheskaya Gazeta* 29:6-7. July 1967.  
Issued by CFSTI.
- 89286 KRISTERSSON, H. Agricultural co-operation in Sweden. *Year Book Agr. Co-op.* 1966:185-191. 280.29 H78
- 89287 KRISTERSSON, H. Some questions of principle concerning farmers' co-operation: a Swedish view. *Year Book Agr. Co-op.* 1967:75-77. 280.29 H78
- 89288 KUNITOMO, M. A plan for the reorganization of agricultural co-operation in Japan. *Year Book Agr. Co-op.* 1966:245-251. 280.29 H78
- 89289 LA BROSSE, J. B. G. DE. The Cojés du Nord & Finistere Farmers' Co-operative, a study in agricultural co-operative concentration. *Year Book Agr. Co-op.* 1966:21-28. 280.29 H78
- 89290 LAIDLAW, A. Co-operatives in Canada, 1966. *Year Book Agr. Co-op.* 1967:250-258. 280.29 H78
- 89291 LAIDLAW, A. F. Co-operatives in Canada 1965. *Year Book Agr. Co-op.* 1966:91-99. 280.29 H78
- 89292 LAMMING, A. Select bibliography of co-operation 1966. *Year Book Agr. Co-op.* 1966:287-309. 280.29 H78
- 89293 LASSERRE, G. Visit to consumer cooperatives in the USSR. (Fr) *Int. Arch. Sociol. Coop.* 21: 74-130. Jan./June 1967. 280.28 Ar22  
Rural cooperatives included.
- 89294 LUDWIG, P. Agricultural co-operation in Luxembourg. *Year Book Agr. Co-op.* 1966: 198-201. 280.29 H78
- 89295 MANUEL, M. Some current trends in farmer cooperatives in Kansas. *Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform.*, Sept. 12, 1967, 2 p. HD9004.A1K3
- 89296 MARSHALL, J. P. The right of joining; P. L. 90-288 [Agricultural Fair Practices Act of 1967]. *Va. Polytech. Inst. Ext. Va. Farm Econ.* 208:5-7. May/June 1968. 275.29 V813  
Cooperatives.
- 89297 MIKITA, J. Metody spoluprace zemedelcu prostejovskeho a presovskeho okresu [Methods of cooperation of farmers from Prostějov and Presov districts]. (Cz) *Zajmová Aktual. Listovka MZLH* 6,15 p. 1966. S16.C95Z3
- 89298 MLADENATZ, G. The influence of Charles Fourier on Romanian economists. (Fr) *Int. Arch. Sociol. Coop.* 21:15-46. Jan./June 1967. 280.28 Ar22  
Includes agricultural associations.
- 89299 MONNET, G. Moroccan agricultural co-operation at the cross-roads. *Year Book Agr. Co-op.* 1966:202-210. 280.29 H78
- 89300 MORLEY, J. A. E. Agricultural co-operation in England: a summary of the Knapp Report. *Year Book Agr. Co-op.* 1966:100-109. 280.29 H78
- 89301 PIZZUTI, D. Agricultural co-operation in Italy. *Year Book Agr. Co-op.* 1966:149-159. 280.29 H78
- 89302 PLANCK, U. Individual or collective decision. Attempt to systematize staff cooperation. (Ge) *Z. Agrargesch. Agrarsoziol.* 15(2):194-199. Oct. 1967. 30.98 Z3  
On the cooperative movement.
- 89303 PLUNKETT FOUNDATION FOR CO-OPERATIVE STUDIES. Year book of agricultural co-operation 1966. Oxford, Basil Blackwell, 1966. 311 p. 280.29 H78
- 89304 PLUNKETT FOUNDATION FOR CO-OPERATIVE STUDIES. Year book of agricultural co-operation, 1967. Oxford, Basil Blackwell, 1967. 315 p. 280.29 H78
- 89305 RAO, R. V. Land reform and co-operation in India. *Year Book Agr. Co-op.* 1967:235-242. 280.29 H78
- 89306 RATCLIFFE, H. E. FCS [Farmer Cooperative Service, International] aim--to share co-op skills overseas. *News Farmer Coop.* 35(4):5, 15-16. July 1968. 166.2 N47
- 89307 ROSS, W. The history and progress of the co-operative movement in Northern Ireland. *Year Book Agr. Co-op.* 1967:122-132. 280.29 H78
- 89308 RUBIN, W. A. Responsibilities of a director on financial matters. *Hawaii. Univ. Ext. Misc. Publ.* 48:17-20. Feb. 1968. S544.3.H3H3  
Of a cooperative.



- 89309 SAHLMAN, F. Human resources key to progress in developing nations. In U. S. Dept. of Agriculture. Cooperatives—partners in American life, October, 1965, p.100. 1966. aHD1491.U5  
Cooperative development by the AID.
- 89310 SELARIES, G. Agricultural co-operation in France. Year Book Agr. Co-op. 1967:68-74. 280.29 H78
- 89311 SELECT bibliography of co-operation: supplement 1967. Year Book Agr. Co-op. 1967:299-313. 280.29 H78
- 89312 SMITH, P. A. Legal obligations and responsibilities of a director. Hawaii. Univ. Ext. Misc. Publ. 48:21-25. Feb. 1968. S544.3.H3H3  
Of a cooperative.
- 89313 SURRIDGE, B. J. Status, achievements and problems of co-operatives in developing countries. In Warley, T. K., ed. Agricultural producers and their markets, p.322-327. 1967. HD9000.1.W3
- 89314 SWANSON, B. L. Co-op business size continues advance. News Farmer Coop. 35(4):4,18-19. July 1968. 166.2 N47
- 89315 THOMAS, E. H. Concentration of co-operative undertakings. Year Book Agr. Co-op. 1966:16-20. 280.29 H78
- 89316 TOMIOKA, G. The present position of the co-operative movement in Japan. Year Book Agr. Co-op. 1966:235-244. 280.29 H78
- 89317 TYBOUT, M. C. R. New developments in agricultural co-operation in the Netherlands. Year Book Agr. Co-op. 1967:42-67. 280.29 H78
- 89318 WANASINGHE, H. S. Ceylon—recent trends. Year Book Agr. Co-op. 1966:52-61. 280.29 H78
- 89319 WATERS, H. J. A sense of urgency—the press of time. In U. S. Dept. of Agriculture. Cooperatives—partners in American life, October, 1965, p.101-103. 1966. aHD1491.U5  
Cooperatives in developing areas promoted by the AID.
- 89320 WEDER, M. Swiss agricultural co-operatives in the national economy. Year Book Agr. Co-op. 1966:192-197. 280.29 H78
- 89321 ZIRANKA, J. Education and training of members in the Raiffeisen co-operatives of the German Federal Republic. Year Book Agr. Co-op. 1966:168-178. 280.29 H78

## RURAL SOCIAL PSYCHOLOGY

- 89322 BEAL, G. M., BOHLEN, J. M., and WARLAND, R. H. Rural value-orientations and farm-policy positions and actions. Iowa. Agr. Home Econ. Exp. Sta. Res. Bull. 561,178 p. May 1968. 100 Io9  
Attitudes toward government aid.
- 89323 CROFT, E. J. Understanding yourself. Wyo. Univ. Ext. [4-H Club Circ.] H-14-67,27 p. Ref. Jan. 1967. 275.29 W99Fc  
Four-H Clubs.
- 89324 DASGUPTA, S. Relative predictability of five indices of adoption of recommended farm practices. Sociol. Ruralis 8(1):1-21. Ref. 1968. 281.29 So12
- 89325 EVERSON, N. O., and APPS, J. W. Reaching youth in low-income areas. J. Coop. Ext. 5(4):205-213. Winter 1967. 275.28 J82  
Participation of the youth of rural areas in organizations and education.
- 89326 HAVIGHURST, R. J. Routes to adulthood. J. Coop. Ext. 6(1):7-14. Spring 1968. 275.28 J82  
Attitudes and activities of youth.
- 89327 HAWKINS, L. F. Investing in family relationships. N. C. Univ. Ext. Home Econ. Ser. 94, 2 p. May 1968. 275.29 N811Hom
- 89328 SJO, J. Goals, values, and attitudes of farmers. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Apr. 25, 1967, 2 p. HD9004.A1K3  
Relating to farm management.
- 89329 SOHAL, T. S., and SINGH, R. Relationship of personal characteristics of farmers with their aspirations in farming and acceptance of crop production plans. Punjab Agr. Univ. J. Res. 4(2):308-314. June 1967. S19.P8
- 89330 SPERRY, I. V., and HERRIN, A. E. Educational and vocational goals of rural and urban youth in North Carolina. N. C. Agr. Exp. Sta. Tech. Bull. 186,30 p. Ref. Dec. 1967. 100 N81  
North Carolina University, School of Home Economics, cooperating.
- 89331 WHITTENBARGER, R., and MAFFEI, E. Innovativeness and related factors in a rural Colombian community. Land Tenure Center. LTC [Pub.] 3(21),22 p. Ref. 1966. HD107.L33
- 89332 WISSLER, D. H. Farmer's evaluations of occupational prestige in southern Germany. (Ge) Sociol. Ruralis 8(1):48-57. 1968. 281.29 So12  
English summary.

## TRADE, FOREIGN AND INTERNATIONAL

- 89333 BANANAS: market developments in 1966 and outlook for 1967. Food Agr. Organ. U. N. Mon. Bull. Agr. Econ. Statist. 16(6):9-14. June 1967. 251 F73Mb  
Trade.
- 89334 BENCIVENGA, R. Green America looks to Europe. (It) Agri Forum 9(1):19-21. Jan. 1968. 16 Ag8233  
Trade programs.
- 89335 BENGTSOON, T. Sugar in the second provisional year. (Sw) Betodlaren 29(1):13-14. 1966. 66.9 Sv22  
On the sugar agreement.
- 89336 BRAUNSCHWEIG, J. Swiss coffee trade shrinking in numbers. Tea Coffee Trade J. 133 (6):30-32. Dec. 1967. 68.8 T22
- 89337 CASADIO, G. P. The UNCTAD-GATT Trade Center. (It) Agri Forum 9(4):122-124. Apr. 1968. 16 Ag8233  
International Trade Center at Geneva.
- 89338 CLIFTON, R. E. The new International Grains Arrangement. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., June 6, 1967, 2 p. HD9004.A1K3  
Effects on Kansas wheat trade.
- 89339 COHEN, M. H. Danish farmers look to EEC for income boost. Foreign Agr. 6(29):5-6. July 15, 1968. A281.9 F76Fo  
Trade.
- 89340 DE PASCALE, M. Italian State Organization for Interventions in the Agricultural Market: first year. (It) Esso Agr. 16(4):4-7. Aug. 1967. 58.8 Es7  
Azienda di Stato per gli Interventi sul Mercato Agricolo and its program in relation to the European Common Market.
- 89341 DUE, J. M. Changes in imports of capital goods—Sierra Leone, 1950-1965. Ill. Agr. Exp. Sta. Bull. 730,43 p. May 1968. 100 IL6S
- 89342 DUSTIN, J. P. Imports from the point of view of the World Food Programme. Int. Congr. Nutr. Proc., 7th Congr., v.3:129-132. 1966, pub. 1967. TX345.I53 1966
- 89343 EPSZTEIN, T. A new export situation for poultry and egg industry. (Pol) Drobiarstwo 15(2):3-4. Feb. 1967. 47.8 P953
- 89344 FARRELL, K. R. Considerations in appraising foreign market potential and in conducting promotion programs in foreign markets. U. S. D. A. Econ. Res. Serv. ERS-274:94-112. 1966. A281.9 Ag83E  
Includes discussion by J. A. Adams, and A. W. Jasper.

- 89345 FREEMAN, O. L. Liberal trade policy benefits U.S. agriculture. *Foreign Agr.* 6(27):2-4. July 1, 1968. A281.9 F76Fo
- 89346 GHORPADE, C. M. Role of ECGC [Export Credit & Guarantee Corporation] in export promotion. *Coir* 11(4):17,19,21,23. July 1967. A credit cooperative in India.
- 89347 GOSS, R. O. Aspects of shipping economics of importance to primary product exporters. In Warley, T. K., ed. *Agricultural producers and their markets*, p.87-109. 1967. HD9000.1.W3
- 89348 HALE, S. L. The world cocoa market. In Warley, T. K., ed. *Agricultural producers and their markets*, p.136-147. 1967. HD9000.1.W3
- 89349 HARDACH, K. W. The position of German agriculture in the 1878/79 grain tariff discussion. (Ge) *Z. Agrargesch. Agrarsoziol.* 15(1):33-48. Apr. 1967. 30.98 Z3
- 89350 HENSON, J. H. The potential market in the United States for New Zealand cheese. *Massey Univ. Dairyfarming Annu.* 1967:89-92. 44.9 M382
- 89351 HOLMSTROM, S. Swedish agriculture in an expanded international market. (Sw) *Sveriges Jordbrkassforbund. Jordbrkassforbunds.* 27(6):197-204. 1967. 284.29 Sv2  
European Common Market, European Free Trade Association.
- 89352 KROGH, K. K. Export market development for U.S. agricultural products. U. S. D. A. Econ. Res. Serv. ERS-274:72-93. 1966. A281.9 Ag83E
- 89353 KRUER, G. Farm exports continue to lighten payments deficit. *Foreign Agr.* 6(28):11. July 8, 1968. A281.9 F76Fo
- 89354 LEBANON. DIRECTION GENERALE DES DOUANES. Statistiques du commerce exterieur, annee 1966 [Statistics of foreign trade, 1966]. Vol. 2. Beyrouth, 1967. 220 p. 269.8 L492
- 89355 MARTIRANO, G. Constitutional aspects of the European Community. (It) *Agri Forum* 9(2):37-38. Feb. 1968. 16 Ag8233
- 89356 MARTIRANO, G. Goals attained by the Common Market. (It) *Esso Agr.* 16(4):8-9. Aug. 1967. 58.8 Es7  
Ten year progress report.
- 89357 MARTIRANO, G. Greater powers for the European parliament. (It) *Agri Forum* 9(4):111-112. Apr. 1968. 16 Ag8233  
The European Common Market.
- 89358 MAURITIUS. CUSTOMS AND EXCISE DEPT. Annual report for the year 1966. Port Louis, 1967. 209 p. 286.9 M44  
Trade statistics for agricultural products included.
- 89359 MCMILLEN, D. F. The development of foreign markets for California and Arizona citrus. U. S. D. A. Econ. Res. Serv. ERS-274:113-115. 1966. A281.9 Ag83E
- 89360 MIZUTA, M. The first steps toward consultations. (Ja) *Agr. Asia* 5(6):17-21. June 1967. 22.5 Aj5  
Relating to trade agreements; the second Ajia Nogyo visit to China.
- 89361 MONTGOMERY, G. PL [Public Law] 480 wheat to India. *Kans. State Univ. Ext. Econ.* *Kans. Farm Bus. Inform.*, Sept. 19, 1967, 2 p. HD9004.A1K3
- 89362 NAIDENOV, S. Trade in livestock breeding stock. (Bu) *Zhivotnovodstvo* 21(1):37-39. Jan. 1967. 49 Z62
- 89363 NAVILLE, R. The French citrus market in 1966. (Fr) *Fruits* 22(7):313-319. July/Aug. 1967. 80 F9492  
English summary.  
Statistics of citrus imports.
- 89364 NICARAGUA. RECAUDACION GENERAL DE ADUANAS. Memoria, periodo anual de 1966 [Report, annual period, 1966]. Managua, 1967. 286 p. 254 N512
- 89365 NICOLINI, M. A. Growth abroad spells bigger [U. S.] farm markets. *Foreign Agr.* 6(28):8-11. July 8, 1968. A281.9 F76Fo
- 89366 NIELSEN, S. T. How to solve the difficulties of the cheese export? (Da) *Maelkeritidende* 81 (12):239-243. Mar. 22, 1968. 44.8 M26
- 89367 NORWAY. STATENS KORNFORRETNING. Annual report of the Norwegian Grain Corporation, 1967. Oslo, 1968. 16 p. 287 N83A
- 89368 OLIVA, G. Temporary importation. (It) *Mon-do Aperto* 21(5):300-309. Oct. 1967. 280.8 M743  
English summary.  
Includes agricultural products for re-export.
- 89369 POGELER, G. H. Introduction to panel discussion on soy products and marketing. U. S. Agr. Res. Serv. ARS-71-35:258-260. May 1967. A381 R31Ac  
Trade.
- 89370 REPUBLIC OF SOUTH AFRICA. DEPT. OF CUSTOMS AND EXCISE. Foreign trade statistics. Volume I. Imports and exports, calendar year, 1966. Pretoria, 1967. 257 p. 270 So83A  
Text also in Afrikaans.
- 89371 ROBINSON, H. V. Keys to successful marketing in developed countries. U. S. Agr. Res. Serv. ARS-71-35:233-236. May 1967. A381 R31Ac  
Chiefly soybean products.
- 89372 ROCHA, F. F. Analysis of vegetable seed importation. (Por) *Pesquisa Agropecuar.* Brasil. 1:295-302. 1966. S15.P42  
English summary.
- 89373 ROJAS A., D. A., ERAZO V., S., and ALMEY-DA M., C. The influence of live cattle importation from Argentina on Chilean livestock density. (Sp) *Zoosia* 6(1/4):10-23. Ref. Jan./Dec. 1965. 41.8 R3225  
English summary.  
Includes statistics.
- 89374 SCHENK, D. G. The West European meat poultry situation. II. (Du) *Veeteelt Zuivelber.* 10(6):269-284. June 1967. 49 V51  
Export and import.
- 89375 SCHOLZ, W. L. Danes boost their foods in Britain as part of big promotional effort. *Foreign Agr.* 6(27):11. July 1, 1968. A281.9 F76Fo
- 89376 SCHRATT, H. Viticulture and wine in competition. (Ge) *Winzer* (ser.1)23:3-6; (ser.2)23:20-23. Jan.-Feb. 1967. 95.8 W73  
With reference to the EFTA, European Free Trade Association.
- 89377 SCHULZE, H. Agricultural policy, nutritional, and food legislation aspects of British entry into the E.E.C. (Ge) *Agrarwirtschaft* 17(5):142-145. Ref. May 1968. 281.8 Ag826  
English summary.
- 89378 SIEGEL, O. Foreign trade in potatoes in the OECD [Organisation for Economic Cooperation and Development] area. (Ge) *Kartoffelbau* 18 (2):47. Feb. 1967. 75.8 K145
- 89379 SOARES, H. DE A. G. The problem of meat supply in the District of Cabo Delgado. (Por) *Mozambique. Serv. Vet. An.* 10:65-73. 1962, pub. 1966. 41.9 M872  
Imports of live animals and frozen meat.
- 89380 SORENSON, L. O. U.S. agricultural exports. *Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform.*, Mar. 14, 1967, 2 p. HD9004.A1K3
- 89381 STATISTICAL OFF. OF THE EUROPEAN COMMUNITIES. Aussenhandel, Foreign trade, Analytische Übersichten, Analytical tables, Import, Januar/Dezember, January/December 1966. Brussels, 1967. 395 p. HF181.S73
- 89382 STEPINSKI, M. Export of egg and poultry products. (Pol) *Drobiarstwo* 15(5):21. May 1967. 47.8 P953
- 89383 SUDAN. DEPT. OF STATISTICS. Foreign trade statistics annual, 1966. Khartoum, 1967? 247 p. 270 Su22F
- 89384 TSU, S. K., and FRIEND, R. E. U.S. farm trade prospects in the EEC. *Foreign Agr.* 6 (25):12-13. June 17, 1968. A281.9 F76Fo



- 89385 VAN RENSBURG, W. C. J. Export of eggs from South Africa. *Agrekon* 6(4):16-20. Oct.1967. 281.8 Ag835
- 89386 WAGER, V. Agriculture—marketing and advertising. (Da) *Dansk Landbrug* 86(10):261-262. Oct.1967. 280.28 V91  
Chiefly export.
- 89387 WARDEN, T. A. U.S. agricultural trade with Eastern Europe. *Foreign Agr. Trade U. S.*, July 1968:6-26, map. A286.9 Ag8
- 89388 WARELY, T. K. Problems of world trade in agricultural products. In his *Agricultural producers and their markets*, p.50-74. 1967. HD9000.1.W3
- 89389 WILLIAMS, J. R. Turkey moves to control tobacco quality. *Foreign Agr.* 6(27):8-9. July 1, 1968. A281.9 F76Fo  
For the export market.





**AGRICULTURAL PRODUCTS: PROCESSING,  
DISTRIBUTION, AND STATISTICS**

**GENERAL**

- 89390 ABBOTT, J. C. The economics of food industries in the developing countries. Food Agr. Organ. U. N. Mon. Bull. Agr. Econ. 16(3):1-5. Mar.1967. 251 F73Mb
- 89391 ARNOLD, T. E. World food outlook - a foreign policy response. Farm Found. Increasing Understanding Public Probl. Policies 1967:48-56. 275.29 F22
- 89392 AYRES, J. C. The viewpoint of the Institute of Food Technologists on the evolution of a satisfactory programme for abstracting literature in the foods field. Int. Congr. Food Sci. Technol. Proc. 5:89-99. 1962,pub.1967. TP368.I5 1962
- 89393 BEHAR, M. New dietary sources of proteins. Int. Congr. Nutr. Proc., 7th Congr.,v.3:194-198. 1966,pub.1967. TX345.I53 1966
- 89394 BENNETT, I. L. Food and population; an overview. Agr. Sci. Rev. 6(1):10-17. First Q.1968. A31.3 Ag893
- 89395 BIGWOOD, E. J. Problems of world nutrition in the future outlook to the year 2000. Int. Congr. Nutr. Proc., 7th Congr.,v.4:823-835. Ref. 1966,pub.1967. TX345.I53 1966  
Includes productive capacity of agriculture and protein and food sources.
- 89396 BISON, H. Food Stamp Plan faces House fight. Wash. State Food Dealer 62(5):6. May 1967. 286.28 P11
- 89397 BITTER, C. Main problems of the development of the catering industry in new industrial settlements. Int. Congr. Nutr. Proc., 7th Congr.,v.4:682-688. 1966,pub.1967. TX345.I53 1966  
Poland.
- 89398 BRADY, N. C. The fight against famine. Limestone 4(12):14-15,39,41,43. Summer 1967 294.8 L62  
Food supply in relation to population and relief programs.
- 89399 BUCK, R. K. World food outlook - a farmer's response. Farm Found. Increasing Understanding Public Probl. Policies 1967:32-38. 275.29 F22  
The U. S. farmer's role in world food production, marketing, and policies.
- 89400 BUTLER, A. B. Food, fertility and famine. Wash. State Hort. Ass. Proc. 1967:137-141. 81 W273
- 89401 CONSTANTINE, R. Famine effectively tamed. Yojana 11(11):19-21. June 11,1967. 280.8 Y7  
In Bihar and Uttar Pradesh, India.
- 89402 DAVAN, C. F., and AINES, R. O. World food outlook - an agribusiness response. Farm Found. Increasing Understanding Public Probl. Policies 1967:39-47. 275.29 F22
- 89403 DUBENDORFER, F. What can industry do to promote our stored supplies? (Ge) Int. Congr. Nutr. Proc., 7th Congr.,v.4:553. 1966,pub.1967. TX345.I53 1966
- 89404 ELLIS, F. R. The way for action programs in developing countries. U. S. Agr. Res. Serv. ARS-71-35:237-242. May 1967. A381 R31Ac  
Food.
- 89405 EMERY, K. O., and ISELIN, C. O'. Human food from ocean and land. Science 157(3794): 1279-1281. Ref. Sept.15,1967. 470 Sci2
- 89406 FISCHNICH, O. E., ANDERSON, J. H., and SCHULTE, W. World food supply; requirements-possibilities-outlook to the year 2000. (Ge) Int. Congr. Nutr. Proc., 7th Congr.,v.4: 835-856,map. Ref. 1966,pub.1967. TX345.I53 1966  
Includes agricultural outlook and food sources.
- 89407 FOX, H. M. Protein possibilities for a hungry world. Int. Agr. Ser. 7,18 p. 1967. SI.15
- 89408 GADGIL, D. R. Maharashtra's food programme. Maharashtra Co-op. Quart. 51(1):5-10. July 1967. 280.28 B63
- 89409 GINDERTAEL, J. M. VAN. The world's population in 1950 and 2000; people and food in the year 2000. World Health 20:24-30. Mar.1968. 449.8 W89
- 89410 GRAFE, H. K. Food requirements of the world population in the year 2000. (Ge) Int. Congr. Nutr. Proc., 7th Congr.,v.4:859-871. 1966,pub. 1967. TX345.I53 1966  
In terms of the population and of calorie and protein requirements.
- 89411 GROSJEAN, M. H., and FOUASSIN, A. Level of propionic acid in foods by gas-phase chromatography. (Fr) Rev. Ferment. Indus. Aliment. 22(6):211-213. Ref. 1967. 390.08 R32
- 89412 HOPE, R. A cash economy develops among tribal farmers. Mod. Farming Cent. Afr. 4(8):55-59. Feb.1968. 24 M72  
Cotton, cora and sorghum in Rhodesia.
- 89413 KANAI, T. The present emphasis on increasing food production. (Ja) Agr. Asia 5(6):11-14. June 1967. 22.5 Aj5  
The second Ajia Nogyo visit to China.
- 89414 KOENG, F. French food industry needs more research. (Ge) Alimenta 5(6):235-236. 1966. TP368.A4
- 89415 KOTSCHIEVAR, L. H. Group feeding problems in the Near East. Int. Congr. Nutr. Proc., 7th Congr.,v.4:651-653. 1966,pub.1967. TX345.I53 1966
- 89416 KRAUT, H. Opening up of new sources of food. (Ge) Ernahr.-Umsch. 15(3):71-72. Mar.1968. 389.8 Er66
- 89417 MCGOVERN, G. S. Meeting the challenge of world hunger. Limestone 4(11):10-15,29-33. Spring 1967. 294.8 L62
- 89418 MCPHERSON, A. T. Food synthesis as a supplement to agriculture. Int. Congr. Nutr. Proc., 7th Congr.,v.4:920-924. Ref. 1966,pub. 1967. TX345.I53 1966
- 89419 MEHREN, G. L. Closing the protein gap. U. S. Agr. Res. Serv. ARS-71-35:225-232. May 1967. A381 R31Ac  
USDA program on protein-rich foods for developing areas.
- 89420 MILNER, M. New patterns in foods for protein deficient areas. Int. Congr. Food Sci. Technol. Proc. 5:235-249. Ref. 1962,pub.1967. TP368.I5 1962  
Protein sources and nutritive value.
- 89421 MOSHER, A. T. World food problems and prospects. Farm Found. Increasing Understanding Public Probl. Policies 1967:21-31. 275.29 F22
- 89422 PANIKKAR, N. K., and DWIVEDI, S. N. Fisheries of the Asian countries bordering the Indian Ocean. Int. Congr. Nutr. Proc., 7th Congr.,v.4:973-994,map. Ref. 1966,pub.1967. TX345.I53 1966  
In relation to population and food supply and nutritional requirements.
- 89423 PATEL, A. M. Population of east Pakistan. Symp. Sci. Probl. Humid Trop. Zone Deltas Implications. Proc. 1966:321-328. GB1205.S3  
Includes relation to food supply.
- 89424 RICHTER, J. The world food crisis; our part in it. Feed Farm Supplier 41(5):36-38. May 1967. 47.8 H28
- 89425 ROBINSON, H. F. World food problems. Southern Weed Conf. Proc. 21:1-9. 1968. 79.9 S08
- 89426 SAINT RAT, L. DE. Considerations on the organization of an international documentation in food and agricultural industries. Int. Congr. Food Sci. Technol. Proc. 5:101-114. 1962,pub. 1967. TP368.I5 1962  
Includes discussion.
- 89427 SAKURAI, K. Position and present status of the problem. (Ja) Jap. Soc. Food Nutr. J. 20 (2):1-4. July 1967. 389.9 J27  
Protein food resources in Japan.

- 89428 SCHILLING, D. R. World population and food. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., May 8, 1968, 2 p. HD9004.A1K3
- 89429 SISLER, D. G. Some rays of hope on the world food problem. N. Y. State Hort. Soc. Proc. 113:21-29. 1968. 81 N484
- 89430 SOLVERUD, S. Future food demand in Norway and our food production resources. (No) Norsk Landbruk 2:14-15. (Cont.) Jan. 26, 1968. 11 N8122
- 89431 STATENS ERNAERINGSRAD. Arsmelding for budsjettaet [Annual report for the fiscal year], 1966. Oslo, 1967. 47 p. 389.9 N83  
Chiefly food production and consumption in Norway.
- 89432 SUZUKI, S. Problems of the future development of research in starch science. (Ja) Technol. Soc. Starch. J. 14(2/3):79-81. May 1967. 309.9 D39
- 89433 SYMPOSIUM ON EDUCATION AND TRAINING OF FOOD SCIENTISTS AND TECHNOLOGISTS. [Papers]. Int. Congr. Food Sci. Technol. Proc. 5:115-158. 1962, pub. 1967. TP368.I5 1962  
Chairman: J. D. Mounfield; pannel members: G. F. Stewart, J. Kuprianoff, J. Hawthorn, and J. D. Mounfield.
- 89434 SYMPOSIUM ON PROSPECTS OF THE WORLD FOOD SUPPLY, WASHINGTON, D. C., 1966. Proceedings, one hundred and third annual meeting of the National Academy of Sciences. Washington, 1966. 84 p. Ref. HD9000.6.N3 1966  
Chairman, J. G. Harrar.
- 89435 TEULON, H. P. The present situation and development trends in group feeding in economically developed and developing countries. (Fr) Int. Congr. Nutr. Proc., 7th Congr., v. 4:654-657. Ref. 1966, pub. 1967. TX345.I53 1966
- 89436 THIAGARAJAN, B. Role of the United Nations in the industrial advancement of developing countries. U. S. Agr. Res. Serv. ARS-71-35: 216-220. May 1967. A381 R31Ac  
Includes World Food Program and Technical assistance programs.  
Discussion by M. Milner, P. 263-265.
- 89437 TILLMANN, F. Hunger and abundance-- problems in world nutrition. (Ge) Agr. Rundsch. 3:63-68. July 1967. 280.8 Ag82  
Productive capacity and nutrition in developing areas and Europe.
- 89438 TILLMANN, F. Problems of the world food situation. (Ge) Zucker 20(11):293-296. June 1, 1967. 65.8 Z82  
Includes sugar.
- 89439 U. S. DEPT. OF AGRICULTURE. Science and food for freedom. U. S. D. A. Agr. Inform. Bull. 317, slightly rev., 8 p. Feb. 1968. 1 Ag84Ab  
Research to feed populations in developing areas.
- 89440 VAN GORDER, D. P. Ill fares the land; the famine planned for America. Boston, Western Islands, 1966. 240 p. Ref. HD9006.V3
- 89441 WAMPACH, J. P. Tendency toward global equilibrium between supply and demand in Quebec agriculture. (Fr) Agriculture (Montreal) 24(4):15-21. Dec. 1967. 7 Ag82  
Productive capacity, population and food supply.
- 89442 WHITE-STEVENS, R. Producing protein for seven thousand million humans in the twenty first century. Int. Congr. Nutr. Proc., 7th Congr., v. 4:925-935. 1966, pub. 1967. TX345.I53 1966
- 89443 WILBRANDT, H. Ways to the feeding of 6 billion people from the point of view of the social economist. (Ge) Int. Congr. Nutr. Proc., 7th Congr., v. 4:796-810. 1966, pub. 1967. TX345.I53 1966
- 89444 WINSTON, E. Principles of emergency feeding. Int. Congr. Nutr. Proc., 7th Congr., v. 4:526-528. 1966, pub. 1967. TX345.I53 1966  
Services.
- ANALYSIS AND COMPOSITION
- 89445 BEN-YEHOSHUA, S., and KRINSKY, P. Gas chromatography of ethylene oxide and its toxic residues. J. Gas Chromatogr. 6(6):350-351. June 1968. 381 J8225  
In foods.
- 89446 BERGNER, K. G., and KRUSE, C. L. Preparation of analytic precipitates for X-ray fluorescence-spectral analysis and for beta activity measurements. (Ge) Deut. Lebensm.-Rundsch. 63(5):153-155. May 1967. 389.8 D482  
Radioactivity measurements in food.
- 89447 BERTUZZI, P. F., and others. Extraction of chlorinated pesticide residues from nonfatty samples of low moisture content. Ass. Offic. Anal. Chem. J. 50(3):623-627. June 1967. 381 As7  
L. Kamps, C. I. Miles, and J. A. Burke, joint authors.  
In food.
- 89448 BIGWOOD, E. J. Differences in principles involved in animal assay methods of evaluation of protein quality. Int. Congr. Nutr. Proc., 7th Congr., v. 4:301-307. Ref. 1966, pub. 1967. TX345.I53 1966
- 89449 BJ, J. R. VAN DER. Modern methods of analyses for starch derivatives and starch hydrolyzates. (Ge) Starke 19(8):256-263. Ref. Aug. 1967. 309 St22  
English summary.
- 89450 BITSCH-HOLSCHER, I., PEPPLER, E., and WILMES, G. The apparent failure of the thiochrome method for thiamine determination in heated tests. (Ge) Int. Congr. Nutr. Proc., 7th Congr., v. 5:513-516. 1966, pub. 1967. TX345.I53 1966
- 89451 BOSTWICK, D. C., and GIUFFRIDA, L. Programmed temperature gas chromatography of pesticides, using electron capture and thermionic detectors. Ass. Offic. Anal. Chem. J. 50(3):577-581. June 1967. 381 As7  
Residue analysis.
- 89452 BRAUNITZER, G. The primary structure of protein. (Ge) Naturwissenschaften 54(15/16): 407-417. Ref. Aug. 1967. 474 N213
- 89453 BURKE, J. A. Report on chlorinated insecticides and miticides. Ass. Offic. Anal. Chem. J. 50(3):575-577. June 1967. 381 As7  
Residue analysis in food.
- 89454 BURKEHOLDER, J. N., and MERTZ, W. Properties and effects of chromium (III) fractions obtained from brewer's yeast. Int. Congr. Nutr. Proc., 7th Congr., v. 5:701-705. 1966, pub. 1967. TX345.I53 1966
- 89455 CRISAN, E. V., and GREFIG, A. T. The formation of aflatoxin derivatives. Boyce Thompson Inst. Contrib. 24(1):3-8. Ref. Oct./Dec. 1967. 451 B69  
Chiefly methods of determination in contaminated products.
- 89456 EISENBERG, W. V. Report on extraneous materials in foods and drugs. Ass. Offic. Anal. Chem. J. 50(3):494-496. June 1967. 381 As7
- 89457 FORD, J. H., and BEROZA, M. Gas chromatographic determination of residues of organophosphorus pesticides with a modified flame ionization detector. Ass. Offic. Anal. Chem. J. 50(3):601-604. June 1967. 381 As7
- 89458 FREEMAN, K. A. Report on color additives. Ass. Offic. Anal. Chem. J. 50(3):525. June 1967. 381 As7
- 89459 FUKUI, T., FUJII, M., and NIKUNI, Z. Digestion of raw starch granules, particularly rice starch granules, by the action of amylase. 13 p. Ref. Transl. 16857  
Translation from Agricultural Chemical Society of Japan. Journal 38(5):262-266. 1964.
- 89460 GOLUBEV, T. I. Simple enzymatic method of determining Trichlorfon in biological materials. (Rus) Khim. Sel'skom Khoz. 7:31-32. July 1967. 385 K524  
Agricultural products.
- 89461 GREENWOOD, C. T., and HOURSTON, D. J. Physicochemical studies on starches. XXXIII. Starke 19(8):243-246. Ref. Aug. 1967. 309 St22



- 89462 GREENWOOD, C. T., and MUIRHEAD, H. E. The thermal degradation of starch. VII. Differential thermal analysis of maltodextrins and of starch and its components. *Starke* 19(9): 281-284. Sept. 1967. 309 St22
- 89463 GRIGOR'YANTS, N. N. Manganese and cobalt content in food products of Turkmenistan SSR. (Rus) *Akad. Nauk Turkm. SSR Izv. Ser. Biol. Nauk* 4:45-48. Ref. 1967. 442.9 Ak124
- 89464 GUNTHER, F. A., and BARKLEY, J. H. Simple liquid-liquid partitioning apparatus. *Bull. Environ. Contamination Toxicol.* 2(1):53-56. Jan./Feb. 1967. RA1270.P35A1  
Pesticide residue analysis in food.
- 89465 GUTFREUND, H. The dynamic behaviour of proteins during catalysis. *Naturwissenschaften* 54(15/16):402-406. Ref. Aug. 1967. 474 N213
- 89466 HARTMAN, K. T. Additional cleanup of samples on GLC column for TLC determination of pesticide residues. *Ass. Offic. Anal. Chem. J.* 50(3):615-623. Ref. June 1967. 381 As7  
In food.
- 89467 HEGSTED, D. M., and WORCESTER, J. Assessment of protein quality with young rats. *Int. Congr. Nutr. Proc., 7th Congr., v.4:*318-325. 1966, pub. 1967. TX345.153 1966  
Bioassay.
- 89468 HILL, W. H., and FIELDS, M. L. Factors affecting the growth and interaction of the rough and smooth variants of *Bacillus stearothermophilus*. 2. Media and pH. *J. Food Sci.* 32(4): 463-467. Ref. July/Aug. 1967. 389.8 F7322  
Causal agent of spoilage in canned food.
- 89469 HILL, W. M., and FIELDS, M. L. Factors affecting growth and interaction of rough and smooth variants of *Bacillus stearothermophilus*. 1. Oxygen tension and temperature. *J. Food Sci.* 32(4):458-462. Ref. July/Aug. 1967. 389.8 F7322  
Causal agent of spoilage in canned food.
- 89470 HOLLO, J., LASZLO, E., and JUHASZ, J. The biosynthesis of starch IX. The optimum conditions of phosphorolysis. (Ge) *Starke* 19(8): 246-250. Ref. Aug. 1967. 309 St22  
English summary.
- 89471 HOLLO, J., LASZLO, E., and JUHASZ, J. The biosynthesis of starch. X. Reaction of kinetic studies of the phosphorolysis. (Ge) *Starke* 19(9):285-290. Ref. Sept. 1967. 309 St22  
English summary.
- 89472 KARTUS, E., and ENGEBECK, K. Chemical investigation of plant products and feed, 1965/66. (Sw) *Stockholm. Stat. Lantbrukskem. Kontrollanstalt. Medd.* 29:11-16. 1967. 385 St6
- 89473 KROLLER, E. Investigations on the determination of emulsifiers in foods. 7. (Ge) *Fette, Seifen, Anstrichmittel* 70(2):119-121. Feb. 1968. 384 C422  
English summary.
- 89474 LAFONTAINE, A. Identification of Enterobacteriaceae. (Fr) *Rev. Ferment. Indus. Aliment.* 22(6):201-206. 1967. 390.08 R32
- 89475 LAMBION, R. Thin-layer chromatography applied to foods. (Fr) *Rev. Ferment. Indus. Aliment.* 22(6):207-210. 1967. 390.08 R32
- 89476 LEHMANN, G., and others. Methods for the quantitative determination of chlorogenic acid. (Ge) *Deut. Lebensmittel-Rundsch.* 63(5):144-151. Ref. May 1967. 389.8 D482  
H. G. Hahn, P. Martinod, O. Luzuriaga, joint authors.  
In food of plant origin, using chromatography.
- 89477 LONGREE, K. Bacterial growth in food prepared and cooled in quantity. *Int. Congr. Nutr. Proc., 7th Congr., v.4:*500-513. Ref. 1966, pub. 1967. TX345.153 1966
- 89478 LORANT, B. The dependency of the evaporation of alkaline salts on the temperature of the heating. (Ge) *Z. Ernährungswiss.* 8(4):258-267. Oct. 1967. 389.8 Z35  
In determining the mineral content of food.
- 89479 MCLEOD, H. A., and MCKINLEY, W. P. Note on some operating parameters of a halogen detector constructed and utilized for gas-liquid chromatography. *Ass. Offic. Anal. Chem. J.* 50(3):641-643. June 1967. 381 As7  
For economic poisons analysis.
- 89480 MENDEN, E. Evaluation of changes in protein quality by liberation of amino acids with enzymatic and acid hydrolysis. *Int. Congr. Nutr. Proc., 7th Congr., v.4:*357. 1966, pub. 1967. TX345.153 1966  
Food chemistry.
- 89481 MILLER, M. T. Rapid method for separation of extraneous materials from whole and degerminated corn meal, prepared mustard, and soy flour. *Ass. Offic. Anal. Chem. J.* 50(3):505-509. Ref. June 1967. 381 As7
- 89482 MULLER, R., KNAPPEN, F., and NIEDER, H. Protein evaluation with "biological lysine value." *Int. Congr. Nutr. Proc., 7th Congr., v.4:* 325-329. 1966, pub. 1967. TX345.153 1966
- 89483 MULLER-MANGOLD, D. Contribution to the determination of the ash content of starches. (Ge) *Starke* 19(8):251-252. Aug. 1967. 309 St22
- 89484 NOLBERGA SH., B. Methionine, cystine, lysine, and tryptophan in some Venezuelan foods. (Sp) *Arch. Latinoamer. Nutr.* 17(2):111-116. Ref. June 1967. 389.8 Ar22  
English summary.
- 89485 PADMOYO, M., and MISEREZ, A. The identification of gelatin and other thickening agents permitted in Switzerland by electrophoresis and cellulose acetate strip dyeing. (Ge) *Mitt. Geb. Lebensmitteluntersuch. Hyg.* 58(1):31-48. Ref. 1967. 389.9 Sw6  
English summary.  
Food research.
- 89486 QUARMBY, C., and GRIMSHAW, H. M. A rapid method for the determination of iron in plant material with application of automatic analysis to the colorimetric procedure. *Analyst* 92(1094):305-310. May 1967. 382 An1
- 89487 RAFALSKI, H., and NOGAL, E. A comparison of NPR, PER, NPU methods for the evaluation of dietary proteins. *Int. Congr. Nutr. Proc., 7th Congr., v.4:*317. 1966, pub. 1967. TX345.153 1966
- 89488 RAFALSKI, H., and NOGAL, E. A modification of body N technique for NPU [Net Protein Utilization] determination. *Int. Congr. Nutr. Proc., 7th Congr., v.4:*307-317. Ref. 1966, pub. 1967. TX345.153 1966
- 89489 REHM, H. J. Antimicrobial effect of sorbic acid. 6. Effects of sorbic acid on the carbohydrate metabolism in *Escherichia coli*. (Ge) *Zentralbl. Bakteriell. Parasitenk. Infektionskr. Hyg. Abt. II, Naturwiss.* 121(5):491-502. Ref. Aug. 8, 1967. 448.3 C33  
English summary.  
In food.
- 89490 ROOSE, E. DE. X-rays and their application in the determination of animal contamination in food products. (Du) *Conserva* 16(11):265-266. May 1968. 389.8 C7632
- 89491 SCHMIDT-HEBBEL, H. Modern techniques in food analysis. (Sp) *Col. Quim. Farm.* 24(268): 103-107. July/Aug. 1967. 396.8 R32  
Chiefly chromatography.
- 89492 SCHOCH, T. J. Mechano-chemistry of starch. (Ja) *Technol. Soc. Starch. J.* 14(2/3):53-78. May 1967. 309.9 D39  
Analysis of various starches.
- 89493 SIEWIERSKI, M., and HELDRICH, K. Separation, identification, and measurement of DDT and its metabolites. *Ass. Offic. Anal. Chem. J.* 50(3): 627-633. Ref. June 1967. 381 As7  
In food products.
- 89494 SRIVASTAVA, H. C., and RAMALINGAM, K. V. Distribution of hydroxyethyl groups in commercial hydroxyethyl starch. *Starke* 19(9):295-300. Ref. 309 St22
- 89495 STOLL, U. Proof and determination of sorbitol in fruits. (Ge) *Mitt. Geg. Lebensmitteluntersuch. Hyg.* 58(1):56-60. 1967. 389.9 Sw6  
English summary.

- 89496 TAKAHASHI, S., and KUWATA, G. Studies on enzymatic determination of sugars in foods. III. Determination of the digestion value of starch syrup with amyloglucosidase. (Ja) Agr. Chem. Soc. Jap. J. 41(9):409-416. Ref. 1967. 385 Ag8  
English summary.
- 89497 VAN CLEVE, J. W., and RIST, C. E. Ethylidene derivatives of D-erythrose. I. Carbohydr. Res. 4(1):82-90. Ref. Mar.1967. 385 C172  
From dialdehyde starch.
- 89498 WHITE, L. M., and GAUGER, M. A. Adaptation of a spectrophotometer to automated continuous colorimetric analysis. Anal. Biochem. 23(2): 355-357. May 1968. 381 An13
- 89499 WINKLER, S., ROHRICH, M., and HITZE, W. Measuring strip holder. (Ge) Starke 19 (8):250-251. Aug.1967. 309 St22  
In paper chromatography.
- 89500 WITUSZYNSKA, B., and TELEGDY-KOVATS, M. Comparative investigation of two microbiological methods of pantothenic acid determination. (Ge) Z. Lebensmittel-Untersuchung-Forsch. 136(4):214-216. 1968. 384 Z39
- 89501 YAMAMOTO, D., ISO, N., and IKAWA, N. Studies on rheological properties of foodstuffs. III. Tokyo. Meiji Univ. Fac. Agr. Bull. 22:29-35. Nov.1967. 22.5 T576

#### CONSUMPTION AND UTILIZATION

- 89502 CLARK, F. Changing patterns of food consumption in North America. Int. Congr. Food Sci. Technol. Proc. 5:163-171. 1962, pub. 1967. TP368.I5 1962
- 89503 CLIFTON, R. E. Demand for Kansas farm products. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., June 19, 1968, 2 p. HD9004.A1K3  
Consumer preferred foods.
- 89504 DEMA, I. S. Implications of the growing demands for imported foods in Nigeria. Int. Congr. Nutr. Proc., 7th Congr., v.3:142-148. 1966, pub. 1968. TX345.I53 1966
- 89505 DUPIN, H. Trends in food consumption in the states of West Africa. (Fr) Int. Congr. Nutr. Proc., 7th Congr., v.3:113-123. 1966, pub. 1967. TX345.I53 1966
- 89506 FIDANZA, F., IMBIMBO, B., and ALBERTI, A. F. Five year follow-up on foods and nutrients consumed in two rural areas of Italy. Int. Congr. Nutr. Proc., 7th Congr., v.4:50-53. 1966, pub. 1967. TX345.I53 1966
- 89507 HAMMETT, R. A. Response of homemakers to food information in mass media of Anniston, Birmingham, Montgomery. Ala. Agr. Exp. Sta. Bull. 377, 42 p. Ref. Apr. 1968. 100 AL15
- 89508 HILL, B. E. Supply and demand situation in the Common Market. Arable Farmer 1(7):32-34, map. May 1967. S3.A7  
Consumption of agricultural products.
- 89509 KOKSAL, O. Methodology for family food consumption survey in Turkey. Int. Congr. Nutr. Proc., 7th Congr., v.4:222-224. 1966, pub. 1967. TX345.I53 1966
- 89510 NAMYSLOWSKI, L. Individual food consumption and energy expenditure in the Olympic Skiers team. Int. Congr. Nutr. Proc., 7th Congr., v.5:39-48. Ref. 1966, pub. 1967. TX345.I53 1966
- 89511 PERISSE, J. Role of imported foods and influence of monetary return on food consumption in Africa. (Fr) Int. Congr. Nutr. Proc., 7th Congr. v.3:132-141. Ref. 1966, pub. 1967. TX345.I53 1966
- 89512 SAHOTA, J. S., and KAHN, A. S. Income elasticities for food consumption of farm households in Punjab. Punjab Agr. Univ. J. Res. 4(2):292-296. June 1967. S19.P8
- 89514 BELVEAL, L. D. Commodity speculation with profits in mind. Wilmette, Commodities Press, 1967. 347 p. HG6046.B4  
Includes exchanges, risk, and hedging.
- 89515 BENNETT, J. F. The role of public research, extension and market service agencies in market development and agricultural promotion programs as related to market services. U. S. D. A. Econ. Res. Serv. ERS-274:123-124. 1966. A281.9 Ag83E
- 89516 BOYD, H. W. Present status, procedures, and practices of agricultural promotion groups. U. S. D. A. Econ. Res. Serv. ERS-274:1-7. 1966. A281.9 Ag83E  
Includes discussion by W. C. Lamb; discussion by P. T. Rowell, p.17-20.
- 89517 BRANSON, R. E. The role of public research in market development and promotion programs for agricultural products as related to research. U. S. D. A. Econ. Res. Serv. ERS-274:116-119. 1966. A281.9 Ag83E
- 89518 BUFFINGTON, A. L. The role of public research, extension, and market service agencies in market development and agricultural promotion programs as related to a farm co-operative. U. S. D. A. Econ. Res. Serv. ERS-274:125-126. 1966. A281.9 Ag83E
- 89519 BUNJE, R. B. The challenge of change. Pear Growers League Annu. 24:25-26. 1968. 286.3939 P31  
Bargaining power for farmers.
- 89520 CLAYTON, E. S. Agricultural marketing and co-operatives in developing countries. World Crops 19(1):40-43. Mar.1967. 281.8 W892
- 89521 CLAYTON, J. E. New developments in transporting products. Nat. Res. Council. Agr. Res. Inst. Proc. 1967:217-232. 4 N2122  
Food; includes containerization.
- 89522 DODDS, P. R. The group marketing movement in the United Kingdom. In Warley, T. K., ed. Agricultural producers and their markets, p.352-366. 1967. HD9000.1.W3
- 89523 FESNEAU, F. Collective publicity. (Fr) Inform. Agr. (Paris). 366:29. Jan.1967. HD1945.A15  
Campaign for advertising in France.
- 89524 GREGERSON, P. V. Another milestone - UMMI [United Merchandising and Management Institute] looks to the future with coordinated program. United Fresh Fruit Veg. Ass. Yearbook 1968:87-88. 280.3939 Un3
- 89525 GRUSHIN, S. V. Possible lowering of the transportation costs. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 9:39-40. Sept.1967. 30.69 Uc4  
On the farms.
- 89526 HARTLEY, H. J. 1968 program of American Agricultural Marketing Association. N. Y. State Hort. Soc. Proc. 113:166-170. 1968. 81 N484
- 89527 HAUSMANN, F. B. Producer cooperatives as an instrument of marketing policy. (Ge) Agrarwirtschaft 17(5):135-142. May 1968. 281.8 Ag826  
English summary.
- 89528 HIRAKI, T. A study of the organization in foods contribution. 1. The fundamental problems in cold chain. (Ja) Tokyo. Meiji Univ. Fac. Agr. Bull. 22:15-27. Ref. Nov.1967. 22.5 T576  
Marketing.
- 89529 HOOFNAGLE, W. S. The role of and limitation to advertising and promotion in the solution of agricultural problems. U. S. D. A. Econ. Res. Serv. ERS-274:8-20. Ref. 1966. A281.9 Ag83E  
Includes discussion by W. C. Lamb and P. T. Rowell.
- 89530 KOUDELE, J. W. Competition of synthetic products and raw materials in agricultural markets. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Feb.27, 1968, 3 p. HD9004.A1K3
- 89531 KOUDELE, J. W. Product differentiation, advertising and your food marketing bill. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Jan.31, 1967, 2 p. HD9004.A1K3

#### DISTRIBUTION, MARKETING, AND TRANSPORTATION

- 89513 BAGLEY, E. S. Bargaining power and farm incomes. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Aug.22, 1967, 2 p. HD9004.A1K3  
Marketing cooperatives.



- 89532 LAWLER, F. K. U.S. food firms go world-wide. *Food Eng.* 40(6):69-78. June 1968. 389.8 F737
- 89533 MCLAUCHLAN, G. New accent on marketing of agricultural produce. *New Zeal. J. Agr.* 114(1):26-27. Jan.1967. 23 N48J  
New graduate program at Massey University of Manawatu.
- 89534 MANUEL, M. L. Farmers promote the sale of farm products. *Kans. State Univ. Ext. Ext. Econ. Kans. Farm Bus. Inform.*, Feb.22,1967, 2 p. HD9004.A1K3
- 89535 MEI, A. Economic research in regard to marketing of agricultural products in tropical and developing countries. (It) *Riv. Agr. Subtrop. Trop.* 61(1/3):21-31. Jan./Mar.1967. 26 Ag82
- 89536 MORLEY, J. A. E. Marketing boards. In Warley, T. K. ed. *Agricultural producers and their markets*, p.341-351. 1967. HD9000.1.W3 Great Britain.
- 89537 NICHOLSON, P. A. Marketing orders and bargaining associations as useful tools in marketing. *N. Y. State Hort. Soc. Proc.* 113:161-165. 1968. 81 N484
- 89538 ORMAN, A. D. Experimentation and building of alternatives test marketing of food. *Manufacturing Confectioner* 47(6):27-30,44. June 1967. 389.8 M31
- 89539 PICKETT, L. E. Co-operative marketing of agricultural produce in Ceylon: the changing patterns. *Year Book Agr. Co-op.* 1967:214-234. 280.29 H78
- 89540 PITZ, H. Sizing up the market. *Ontario Soil Crop Impr. Ass. Addresses Proc.* 1967:150-154. 64.9 On83
- 89541 POLASCHEK, R. J., TOMS, D. F., and LORIMER, R. T. Transport and primary industry: I. Future development of internal transport; II. Future developments in external air transport; III. Future developments of sea transport. *New Zeal. Agr. Sci.* 2/3:76-87. Nov. 1967. S17.N4
- 89542 PUERTO RICO. OFICINA DE ESTADISTICAS AGRICOLAS. Ventas al pro mayor de productos agricolas del pais en las principales de mercado y en los mercados rurales de Puerto Rico [Wholesale sales of agricultural products of the country in the principal market places and in the rural markets of Puerto Rico]. 1963/64-1964/65. *Estado Libre Asoc. P. R. Dep. Agr. Publ. Espec.* 15,66 p. June 1966. 252.74 Es8P
- 89543 RAMOND, C. K. Evaluating response to market development and promotion programs for agricultural products. *U. S. D. A. Econ. Res. Serv. ERS-274:52-71. Ref.* 1966. A281.9 Ag83E  
Includes discussion by. P. McDonald and Cecil N. Smith.
- 89544 REINSCH, H. H. Plastic foams as air-cushion protection for commodities in transit. (Ge) *Alimenta* 5(6):231-234. 1966. TP368.A4
- 89545 ROBERT, S. Designing, planning, and executing promotion campaigns for agricultural products. *U. S. D. A. Econ. Res. Serv. ERS-274:36-40. 1966. A281.9 Ag83E*
- 89546 ROBERTS, G. H. Initiating co-operatives: the conduct of feasibility studies. In Warley, T. K., ed. *Agricultural producers and their markets*, p.406-413. 1967. HD9000.1.E3  
Marketing cooperatives in Great Britain.
- 89547 SCOTT, F. S. The implication of market development and promotion schemes on producer returns and consumer welfare. *U. S. D. A. Econ. Res. Serv. ERS-274:21-35. 1966. A281.9 Ag83E*  
Includes discussion by W. R. Hoard, J. E. Klahre, and D. W. McColly.
- 89548 SORENSON, O. Agricultural outlook and market forecasts. *Kans. State Univ. Ext. Ext. Econ. Kans. Farm Bus. Inform.*, Apr.17,1968, 2 p. HD9004.A1K3
- 89549 STUMMER, F. An active marketing policy in the service of agriculture and forestry. (Ge) *Agr. Rundsch.* 3:68-72. July 1967. 280.8 Ag82 In Austria.
- 89550 SURRIDGE, B. J. The special role of farmers' marketing organizations in economic development. In Warley, T. K., ed. *Agricultural producers and their markets*, p.82-86. 1967. HD9000.1.W3
- 89551 SWANK, C. E. The role of public research, extension, and market service agencies in market development and agricultural promotion programs as related to extension. *U. S. D. A. Econ. Res. Serv. ERS-274:120-122. 1966. A281.9 Ag83E*
- 89552 TOBIAS, J. G. Designing, planning, and executing campaigns for processed foods. *U. S. D. A. Econ. Res. Serv. ERS-274:45-47. 1966. A281.9 Ag83E*
- 89553 TRIEB, S. E. Current issues in food retailing. *Kans. State Univ. Ext. Looking Ahead K-State Econ.*, Feb.27,1968,2 p. HD9284.U5K3
- 89554 U. S. AGRICULTURAL RESEARCH SERV. Food buying guide and recipes. Prepared for the Office of Economic Opportunity. Washington, 1967. 119 p. TX356.A2  
U. S. Consumer and Marketing Service, co-operating.  
U. S. Office of Economic Opportunity. Project Head Start, 3A.
- 89555 U. S. CONSUMER AND MARKETING SERV. Federal-State Market News Service. *U. S. D. A. Marketing Bull.* 40,4 p. Apr.1968. A280.39 Ag8M
- 89556 VINCENT, C. D. Marketing and economic development. In Warley, T. K., ed. *Agricultural producers and their markets*, p.75-81. 1967. HD9000.1.W3
- 89557 WARLEY, T. K., ed. *Agricultural producers and their markets*. New York, Kelley, 1967. 596 p. HD9000.1.W3  
Papers read at an international seminar sponsored by the Ministry of Overseas Development, held at the University of Nottingham.
- 89558 WARLEY, T. K. A synoptic view of agricultural marketing organizations in the United Kingdom. In Warley, T. K., ed. *Agricultural producers and their markets*, p.328-340. 1967. HD9000.1.W3
- 89559 ZATURINSKY, A. YA. Experience of work of milk-meat and food check stations in the capital of Kazakhstan. (Rus) *Veterinariya* 8:106-108. Aug.1967. 41.8 V6426  
Marketing.

#### GRADING, INSPECTION, STANDARDIZATION, AND QUALITY

- 89560 AMBROSE, A. M. Naturally occurring antienzymes (inhibitors). In *Toxicants occurring naturally in foods*, p.105-111. Ref.,p.109-111. 1966. TX531.T6
- 89561 BAR, F. Possible dangers to health through the use of pesticides. (Ge) *Int. Congr. Nutr. Proc.*, 7th Congr.,v.4:697-699. 1966,pub.1967. TX345.I53 1966
- 89562 BATORA, V. Pesticide residues. Study of some analytical problems in Research Institute of Agrochemical Technology [Vyskumny Ustav Agrochemickej Technologie v Bratislava]. *Agrochemia [Bratislava]* 7(12):360-362. Ref. 1967. 385 Ag88
- 89563 BAUERMANN, J. F. Food poisoning; emphasis on Salmonella. *Pa. State Univ. Ext. Farm Econ.*, May 1967,4 p. 275.28 P38
- 89564 BAUMEISTER, J. The "maximum residue-regulation" from the viewpoint of the producer and the consumer. (Ge) *Obstbauversuchsring Alten Landes. Mitt.* 22(3):142-146. Mar.1967. 85 J76  
November 1966 revision of the 1958 law concerning residues of economic poisons in food.

- 89565 BENES, V., and CERNA, V. Plant protection from the viewpoint of pesticides residues in the Czechoslovak Socialist Republic. (Ge) Int. Congr. Nutr. Proc., 7th Congr., v.4:700-706. 1966, pub. 1967. TX345.153 1966  
English summary.
- 89566 BLOOD, F. R., and RUDOLPH, G. G. Some naturally occurring stimulants and depressants. In Toxicants occurring naturally in foods, p.62-71. Ref. 1966. TX531.T6
- 89567 CALIFORNIA UNIVERSITY, FOOD PROTECTION AND TOXICOLOGY CENTER. Annual report, 1967. Davis, 1968. 120 p. TX341.C3
- 89568 COMAR, C. L. Natural radioactivity in the biosphere and foodstuffs. In Toxicants occurring naturally in foods, p.117-125. 1966. TX531.T6
- 89569 CROSBY, D. G. Natural cholinesterase inhibitors in food. In Toxicants occurring naturally in foods, p.112-116. Ref. 1966. TX531.T6
- 89570 DAVIS, G. K. Toxicity of the essential minerals. In Toxicants occurring naturally in foods, p.229-235. Ref. 1966. TX531.T6
- 89571 DEPLEDT, F. Problems posed by the permanence of flavors in foods consumed on a large scale. (Fr) Int. Congr. Nutr. Proc., 7th Congr., v.4:645-648. 1966, pub. 1967. TX345.153 1966
- 89572 DORMAL-VAN DEN BRUEL, S. Efforts of the EEC in standardizing food legislation in regard to pesticide residues. (Fr) Int. Congr. Nutr. Proc., 7th Congr., v.4:707-711. Ref. 1966, pub. 1967. TX345.153 1966
- 89573 DUGGAN, R. E., and DAWSON, K. Pesticides; a report on residues in food. FDA [Food Drug Admin.] Pap. 1(5):4-8, map. June 1967. HD9000.9 U5A1
- 89574 EAGLE, E. Gossypol. In Toxicants occurring naturally in foods, p.242-249. Ref., p.246-249. 1966. TX531.T6  
Toxicity in cottonseed.
- 89575 ENGST, R. Residues of plant pesticides as a nutritional and food sanitation problem. (Ge) Int. Congr. Nutr. Proc., 7th Congr., v.4:711-712. 1966, pub. 1967. TX345.153 1966
- 89576 FARRER, K. T. H. The industrial approach to food standards. Food Technol. Australia 20(3): 106-108, 111. Mar. 1968. 389.8 F7333
- 89577 FASSETT, D. W. Oxalates. In Toxicants occurring naturally in foods, p.257-266. Ref. 1966. TX531.T6
- 89578 GALACTINA - BIOMALT AG; BERP. Forum on chemical pest control and consumer protection. (Ge) Alimenta 5(6):224-227. 1966. TP368.A4  
Held September 1966.
- 89579 GESELLSCHAFT DEUTSCHER CHEMIKER, FACHGRUPPE "LEBENSMITTEL-CHEMIE UND GERICHTLICHE CHEMIE." Effects of plastics and pesticides on food. (Ge) Alimenta 5(6):228-230. 1966. TP368.A4  
Nederlandse Vereniging voor Voedingsleer en Levensmiddelentechnologie, cooperating.  
Summaries, by E. Baumgartner, of papers delivered at a congress held September 7-9, 1966, in Aachen.
- 89580 GOUNELLE, H., and SZAKVARY, A. French medical opinion with regard to antibiotic residues in foods. (Fr) Int. Congr. Nutr. Proc., 7th Congr., v.4:719-721. 1966, pub. 1967. TX345.153 1966
- 89581 GROSSKLAUS, D. Sanitation and bacteriology of pre-cooked frozen foods in community feeding. (Ge) Int. Congr. Nutr. Proc., 7th Congr., v.4:641-644. Ref. 1966, pub. 1967. TX345.153 1966
- 89582 HARPER, A. E. Excesses of indispensable amino acids. In Toxicants occurring naturally in foods, p.221-228. Ref. 1966. TX531.T6
- 89583 HAUSCHILD, A. H. W., and THATCHER, F. S. Experimental food poisoning with heat-susceptible *Clostridium perfringens* type A. J. Food Sci. 32(4):467-469. Ref. July/Aug. 1967. 389.8 F7322
- 89584 JARRY. Rural economies; On the significance of traditional rural metrology. (Fr) Paris. Acad. Agr. France. Compt. Rend. Hebd. Seances 53(17):1352-1359. Dec. 6/13, 1967. 14 P215Bc  
Includes discussion.
- 89585 LAFONT, P., and FRAYSSINET, C. Possibilities of contamination of food products by aflatoxins in a temperate climate. (Fr) Int. Congr. Nutr. Proc., 7th Congr., v.4:722-727. 1966, pub. 1967. TX345.153 1966
- 89586 LEPKOVSKY, S. Antivitamins in foods. In Toxicants occurring naturally in foods, p.98-104. Ref., p.102-104. 1966. TX531.T6
- 89587 LIENER, I. E. Cyanogenetic glycosides. In Toxicants occurring naturally in foods, p.58-61. Ref. 1966. TX531.T6
- 89588 LIENER, I. E. Favism. In Toxicants occurring naturally in foods, p.47-50. Ref. 1966. TX531.T6
- 89589 LIENER, I. E. Hemagglutinins in foods. In Toxicants occurring naturally in foods, p.51-57. Ref., p.54-57. 1966. TX531.T6  
Toxicity.
- 89590 LIENER, I. E. Lathrogens in foods. In Toxicants occurring naturally in foods, p.40-46. Ref. 1966. TX531.T6
- 89591 MANSMANN, H. C. Foods as antigens and allergens. In Toxicants occurring naturally in foods, p.72-93. Ref., p.91-93. 1966. TX531.T6
- 89592 MEAD, J. F., and ALFIN-SLATER, R. B. Toxic substances present in food fats. In Toxicants occurring naturally in foods, p.236-241. Ref. 1966. TX531.T6
- 89593 MENEELY, G. R. Toxic effects of dietary sodium chloride and the protective effect of potassium. In Toxicants occurring naturally in foods, p.267-279. Ref., p.277-279. 1966. TX531.T6
- 89594 MILLER, J. A. Tumorigenic and carcinogenic natural products. In Toxicants occurring naturally in foods, p.24-39. 1966. TX531.T6  
Bibliography, p.35-39.
- 89595 MITYUKOV, A. D. On the utilization of mathematics in organoleptic analysis of food products. (Rus) Izv. Vyssh. Ucheb. Zaved. Pishch. Tekhnol. 3(58):158-161. 1967. 389.8 IZ8
- 89596 NIKODEMUSZ, I., and NOVOTNY, T. Statistical data on food poisoning in Hungary. (Hu) Elelmезesi Ipar 21(6):176-181. Ref. June 1967. 290.9 M57  
English summary.
- 89597 OSER, B. L. The no-residues problem and the proposed solution. Int. Congr. Nutr. Proc., 7th Congr., v.4:740-745. 1966, pub. 1967. TX345.153 1966  
Food regulation in the United States.
- 89598 OSTWALD, R., and BRIGGS, G. M. Toxicity of the vitamins. In Toxicants occurring naturally in foods, p.183-220. 1966. TX531.T6  
Bibliography, p.208-218, 220.
- 89599 PEETERS, E. G. Problems of protecting modern society against nutritional and environmental pollution. (Fr) Vitalst.-Zivilisationskrankheiten 13(1):14-15. (Cont.) Feb. 1968. 389.8 V836
- 89600 PREVITE, J. J. Salmonellosis - the problem and a potential remedy. Res. Develop. Ass. Activ. Rep. 19(1):64-70. Ref. Spring 1967. 389.9 As74A  
Includes fish and fish products.
- 89601 RADEMACHER, B. Plant protection problems of importance to food from the viewpoint of the plant producer and the plant pathologist. (Ge) Int. Congr. Nutr. Proc., 7th Congr., v.4:712-719. 1966, pub. 1967. TX345.153  
The dilemma of prevention of losses and increased yields through use of pesticides and possible health hazards.
- 89602 SANDERS, H. G. Toxic chemicals in British farming. Int. Congr. Food Sci. Technol. Proc. 5:277-282. 1962, pub. 1967. TP368.15 1962



- 89603 SCHUPHAN, W. Problems of plant protection. (Ge) Int. Congr. Nutr. Proc., 7th Congr., v.4: 694-697. 1966, pub. 1967. TX345.I53 1966  
Includes the problem of residues.
- 89604 STOB, M. Estrogens in foods. In Toxicants occurring naturally in foods, p.18-23. Ref., p. 21-23. 1966. TX531.T6
- 89605 STRONG, D. W. Clostridium perfringens (Welchii) as a food poisoning agent. J. Food Sci. Technol. [Mysore] 4(4):174-175. Dec. 1967. 389.8 J823
- 89606 STRONG, F. M. Deleterious natural products in foods and feeds. J. Food Sci. Technol. [Mysore] 4(4):173-174. Dec. 1967. 389.8 J823
- 89607 STRONG, F. M. Pressor amines in foods. In Toxicants occurring naturally in foods, p.94-97. Ref. 1966. TX531.T6
- 89608 U. S. CONSUMER AND MARKETING SERV. TECHNICAL SERVICES DIV. List of chemical compounds authorized for use under USDA poultry, meat, rabbit and egg products in inspection programs. Washington, 1968. 122 p. aTX501.A3U5
- 89609 VAN VEEN, A. G. Toxic properties of some unusual foods. In Toxicants occurring naturally in foods, p. 174-182. Ref. 1966. TX531.T6
- 89610 WASER, P. G. The use of pesticides and the harmful influence on the human organism. (Ge) Alimenta 5(6):224-225. 1966. TP368.A4
- 89611 WILLS, J. H. Goitrogens in foods. In Toxicants occurring naturally in foods, p.3-17. 1966. TX531.T6  
Bibliography, p.13-17.
- 89612 WILSON, B. J. Fungal toxins. In Toxicants occurring naturally in foods, p.129-146. 1966. TX531.T6  
Bibliography, p.139-146.
- 89613 WINKLE, S. Epidemic prophylaxis of salmonellosis. (Ge) Zentralbl. Bakteriол. Parasitenk. Infektionskr. Hyg. Abt. I, Orig. 205(1/3): 424-434. Dec. 1967. 448.3 C33  
Includes discussion.  
Salmonella isolated from food and fish products.

#### PACKING AND PACKAGING

- 89614 BOUTELLE, C. P. Carton coatings more functional now. Food Eng. 40(3):78-81. Mar. 1968. 389.8 F737
- 89615 DE, K. C. Notes on open top cans. Indian Food Packer 21(4):20-24. July/Aug. 1967. 389.8 In25
- 89616 HEISS, R., and RADTKE, R. On the influence of light, oxygen, and temperature on the keeping quality of packed foods. 3. (Ge) Tech. Wiss. Beilage, p.17-24. Ref. In Verpack.-Rundsch. 19(3). Mar. 1968. 280.38 V592
- 89617 HEISS, R. Reciprocal action of packing and foods. (Ge) Int. Congr. Nutr. Proc., 7th Congr., v.4:427-429. 1966, pub. 1967. TX345.I53 1966
- 89618 KOUDELE, J. W. The Fair Packaging and Labeling Act [of 1966]. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., June 12, 1968, 2 p. HD9004.A1K3
- 89619 MCCULLOUGH, J. T. Containers? Ja! Certainement! Ja wohl! Rather! Distribution Age 66(1):12-19. Jan. 1967. 288.8 T68
- 89620 ROTH, M. Rigid foil containers promote convenience boom. Food Eng. 40(3):72-75. Mar. 1968. 389.8 F737
- 89621 SMITH, R. Know your adhesives. Food Eng. 40(3):93-95. Mar. 1968. 389.8 F737  
Types used in food packing.
- 89622 WALLENBERG, E. Foods of tomorrow—new methods of treatment—new packagings. (Ge) Verpack.-Rundsch. 19(3):258,261. Mar. 1968. 280.38 V592  
English summary.

- 89623 WIENTJES, A. G., MAARSE, H., and VAN STRATEN, S. A gas chromatographic procedure for measuring the isostatic permeation of volatile aroma components of food through packaging films. Mitt. Geb. Lebensmitteluntersuch. Hyg. 58(1):61-70. Ref. 1967. 389.9 Sw6  
Polyethylene in coffee packaging.

#### PRICES, PRICE CONTROL, AND RATIONING

- 89624 AGRICULTURAL producer prices in Europe. Food Agr. Organ. U. N. Mon. Bull. Agr. Econ. Statist. 16(5):16-20. May 1967. 251 F73Mb
- 89625 ALBERTARIO, P. Price policy of the agricultural European Economic Community. (It) Ital. Agr. 104(4):389-392. Apr. 1967. 16 It1
- 89626 CLIFTON, R. E. Parity ratio dips to depression levels. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Mar. 5, 1968, 2 p. HD9004.A1K3  
Prices.
- 89627 GADGIL, D. R. Price-policy. Maharashtra Co-op. Quart. 51(1):29-44. July 1967. 280.28 B63  
Of agricultural products.
- 89628 GUNES, T. Agricultural product price policy changes in Turkey. Mediterranean 17:55-62. Jan. 1968. 281.8 M462
- 89629 HIRSCH, H. G. Selected price series of international significance. Foreign Agr. Trade U. S., July 1968:27-33. A286.9 Ag8  
Grain, soybeans, and cotton.
- 89630 KJORVEN, C. Supplementary agreement to the agricultural agreements for 1966-1968. (No) Norsk Landbruk 12:16,35. June 16, 1967. 11 N8122  
Prices.
- 89631 LECOLLE, M., and others. Distribution of the retail prices of certain food products in the Paris metropolitan area. (Fr) France. Inst. Nat. Statist. Etudes. Econ. Etudes Conjoncture 22(10):3-35., map. Oct. 1967. 280.8 F84  
M. M. Picard, Leroux, and M. Laborie, joint authors.
- 89632 SCHRUBEN, L. W. Food marketing cost. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., July 18, 1967, 2 p. HD9004.A1K3  
Farmers income.
- 89633 U. S. CROP REPORTING BOARD. Agricultural prices; 1967 annual summary. Washington, 1968. 179 p. A284.39 M343

#### PROCESSING AND STORAGE

- 89634 AKINRELE, I. A. Special methods of food processing in tropical countries. Int. Congr. Nutr. Proc., 7th Congr., v.4:471-476. Ref. 1966, pub. 1967. TX345.I53 1966
- 89635 ALDOR, T. Comparative investigations on methods for the defrosting and heating of frozen foods. (Ge) Int. Congr. Nutr. Proc., 7th Congr., v.4:455-460. 1966, pub. 1967. TX345.I53 1966
- 89636 ALF, F. Continuous manufacture and preparation of foods on a large scale through automatic transfer. (Ge) Int. Congr. Nutr. Proc., 7th Congr., v.4:672-676. 1966, pub. 1967. TX345.I53 1966
- 89637 BALTZER, J. Food handling and nutrition, some hygienic aspects. Int. Congr. Nutr. Proc., 7th Congr., v.4:420-426. 1966, pub. 1967. TX345.I53 1966
- 89638 BARFOED, H. Enzymatic methods for starch liquefaction. (Ge) Starke 19(9):291-295. Sept. 1967. 309 St22  
English summary.  
For the production of dextrose and glucose.
- 89639 BERGAMI, G. Long term food storing in households and emergency food supplies. Int. Congr. Nutr. Proc., 7th Congr., v.4:535-536. 1966, pub. 1967. TX345.I53 1966
- 89640 BIRD, K. New food processing methods. Int. Congr. Nutr. Proc., 7th Congr., v.4:618-629. Ref. 1966, pub. 1967. TX345.I53 1966

- S9641 CANADA, BUR. OF STATISTICS. Canned foods summary 1962. Ottawa, 1966. 22 p. (Annual Census of Manufactures) 253 C335Ca
- S9642 CHAMPAGNAT, A. The biosynthesis of proteins from petroleum. Int. Congr. Nutr. Proc., 7th Congr., v.4:916-920. 1966, pub. 1967. TX345.I53 1966
- S9643 CHANDRAPANOND, A. Long term food storing in households and emergency food supplies in Thailand. Int. Congr. Nutr. Proc., 7th Congr., v.4:536-537. 1966, pub. 1967. TX345.I53 1966
- S9644 CHANDRASEKARAN, A. Purification and hydrolytic activity of *Pestalotiopsis westerdijkii* enzyme. J. Food Sci. Technol. [Mysore] 4(4): 159-161. Ref. Dec. 1967. 388 J833  
Food processing.
- S9645 CHICHESTER, C. O. Nutritional effects of processing. Int. Congr. Nutr. Proc., 7th Congr., v.4:429-431. 1966, pub. 1967. TX345.I53 1966
- S9646 CLUISTRA, A., and MELJER, J. C. M. Course in the preservation of foods. 24. Recent developments in the field of food preservation. 24. 2. The freeze-drying of foods. (Du) Conserva 16(11):267-271. May 1968. 389.8 C7632
- S9647 CONGRES INTERNATIONAL DE CHIMIE INDUSTRIELLE, 36, BRUSSELS, 1966. Programme general [General program]. Brussels, 1966. various paging. 383 C42C  
Includes abstracts of papers dealing with the agricultural products processing industries, in Dutch, English, French, or German.
- S9648 DAVIDESCU, N. Utilization of best methods for lightening labor. (Rum) Rev. Gosp. Agr. Stat 19(8):29-31. Aug. 1967. 21 R32  
Equipment for handling agricultural products.
- S9649 DE JONG, A. B. E. Long-term food storing in households and emergency food supplies. Int. Congr. Nutr. Proc., 7th Congr., v.4:541-544. 1966, pub. 1967. TX345.I53 1966  
Great Britain.
- S9650 DUIN, J. E. F. Rotary short-term sterilizing of canned foods. (Du) Conserva 16(4):84-86. Oct. 1967. 389.8 C7632
- S9651 FRANZ, C. Food in aerosol cans--a new market? (Ge) Fette, Seifen, Anstrichmittel 70(2): 126-127. Feb. 1968. 384 C422
- S9652 GAFFRE, P. The processed foods industry in our partners of the Common Market. II. Germany. (Fr) Rev. Conserv. 23, i.e. 22(10):38-54, 57-59, map. Dec. 1967. 389.8 R326
- S9653 GOLDBLITH, S. A., and TANNENBAUM, S. R. The nutritional aspects of the freeze-drying of foods. Int. Congr. Nutr. Proc., 7th Congr., v.4: 432-445. Ref. 1966, pub. 1967. TX345.I53 1966
- S9654 GORTNER, W. A. Food storing in households and emergency food supplies in U.S.A. Int. Congr. Nutr. Proc., 7th Congr., v.4:538-539. 1966, pub. 1967. TX345.I53 1966
- S9655 GRONOWSKA-SENGER, A., DANIEWSKI, M., and BERGER, S. Evaluation of beta carotene-protein complex obtained by lactic fermentation. Int. Congr. Nutr. Proc., 7th Congr., v.5: 631-635. Ref. 1966, pub. 1967. TX345.I53 1966  
*Streptococcus lactis* used.
- S9656 HALACKA, K., PURKYNE, J. E., and WOLF, A. Influencing of the biological and organoleptic value of food through technological concepts. (Ge) Int. Congr. Nutr. Proc., 7th Congr., v.4: 912-916. 1966, pub. 1967. TX345.I53 1966
- S9657 HEINER, H. Mechanized stackers revolutionize storage techniques. (Ge) Alimenta 5(6): 239-241. 1966. TP368.A4
- S9658 HERRMANN, J. Irradiation of foods. (Ge) Int. Congr. Nutr. Proc., 7th Congr., v.4:460-467. Ref. 1966, pub. 1967. TX345.I53 1966  
Includes effects on nutritive value.
- S9659 HUNT, F. E. Practices in handling and storing commercially frozen food in Ohio households. Ohio Agr. Res. Develop. Center. Bull. 1010, 14 p., map. Ref. May 1968. 100 Oh3S
- S9660 INTERNATIONAL CONGRESS OF FOOD SCIENCE AND TECHNOLOGY, 1, LONDON, 1962. Food science & technology; proceedings. Volume V. Proceedings of the congress symposia. edited by J. M. Leitch. New York, Gordon and Breach Science Publishers, 1967. 352 p., map. TP368.I5 1962
- S9661 IRVING, G. W. Food science and technology--their place in the future. I. Int. Congr. Food Sci. Technol. Proc. 5:39-52. 1962, pub. 1967. TP368.I5 1962
- S9662 ISAKSSON, B. Long term food storing and emergency food supplies in Sweden. Int. Congr. Nutr. Proc., 7th Congr., v.4:540-541. 1966, pub. 1967. TX345.I53 1966
- S9663 JACKEL, S. S. The future of bulk handling. Bakers Weekly 215(7):28-34. Feb. 12, 1968. 389.8 B172  
Of bakery ingredients.
- S9664 JAPAN. MINISTRY OF AGRICULTURE AND FORESTRY. FOOD RESEARCH INSTITUTE. Shokuryo; sono kagaku to gijutsu [The science and technology of food]. n.p., 1966. 129 p. 389.9 Sh7  
Chiefly processing and storage.
- S9665 KARLIN, R. On the preparation of a food powder rich in vitamins, especially B after culture of vitamin-producing microorganisms in milk serum. (Fr) Int. Congr. Nutr. Proc., 7th Congr., v.5:578-582. 1966, pub. 1967. TX345.I53 1966
- S9666 KASPAR, J. Some economic aspects of industrial production of meals for the catering industry. Int. Congr. Nutr. Proc., 7th Congr., v.4: 630-635. 1966, pub. 1967. TX345.I53 1966
- S9667 KAY, H. D. Food science and technology--their place in the future. 2. Int. Congr. Food Sci. Technol. Proc. 5:57-67. 1962, pub. 1967. TP368.I5 1962
- S9668 KERTESZ, Z. I. The role of food technology in providing adequate diets. Int. Congr. Nutr. Proc., 7th Congr., v.4:477-481. 1966, pub. 1967. TX345.I53 1966  
Nutritive value of processed foods; includes discussion of fortified foods and fish protein concentrates.
- S9669 KOKSAL, O. Food for survival. Int. Congr. Nutr. Proc., 7th Congr., v.4:545-546. 1966, pub. 1967. TX345.I53 1966  
Proposes storage program for Turkey.
- S9670 KORTGE, P., ALBRECHT, J., and MULLER, G. Frozen meals to rationalize hospital food service. Int. Congr. Nutr. Proc., 7th Congr., v.4:669-671. 1966, pub. 1967. TX345.I53 1966
- S9671 KRISHNA, B. H., and LAKSHMINARAYANA, S. K. Problems in process development and equipment design in developing countries with special reference to India. Int. Congr. Food Sci. Technol. Proc. 5:199-213. 1962, pub. 1967. TP368.I5 1962
- S9672 LEMAITRE, L. Management of stocks. (Fr) Coop. Agr. [Paris] 15(169):11-12. Feb. 1968. 280.28 C78972
- S9673 LOGARAS, G. Household food storing and emergency feeding in Greece. Int. Congr. Nutr. Proc., 7th Congr., v.4:548. 1966, pub. 1967. TX345.I53 1966
- S9674 MANN, E. J., and HARVEY, D. The contribution made by the Commonwealth Agricultural Bureaux in the documentation of food science and technology literature. Int. Congr. Food Sci. Technol. Proc. 5:77-84. 1962, pub. 1967. TP368.I5 1962
- S9675 MAURON, J. From pilot plant tests to the commercialisation of protein-rich vegetable mixtures. Int. Congr. Nutr. Proc., 7th Congr., v.3:183-193. Ref. 1966, pub. 1967. TX345.I53 1966
- S9676 MEILUN, E. A., and BOLANOWSKI, J. P. Food concentration yesterday, today and tomorrow. Glass Packer/Processor 47(3):20-23. Mar. 1968. 309.8 G463  
Evaporation, freeze concentration.



- 89677 MITSUDA, H., YASUMOTO, K., and NAKAMURA, H. Needs for new protein isolate techniques to utilize *Chlorella* and other unused resources. Int. Congr. Nutr. Proc., 7th Congr., v.5:327-332. 1966, pub. 1967. TX345.I53 1966
- 89678 MITSUDA, H. Protein production in microorganisms. (Ja) Jap. Soc. Food Nutr. J. 20(2): 16-21. Ref. July 1967. 389.9 J27  
Tables in English.
- 89679 MOIRANO, A. L. Application of seaweed polysaccharides. Res. Develop. Ass. Activ. Rep. 19(1):88-96. Spring 1967. 389.9 As74A  
In food processing.
- 89680 MOSSEL, D. A. A. Course in the preservation of foods. 24. Recent developments in the field of food preservation. 24.1. The use of ionised irradiation in food preservation. (Du) Conserva 16(4):87-90. Oct. 1967. 389.8 C7332
- 89681 MRAK, E. M. Food science and technology in relation to feeding the world. 2. Int. Congr. Food Sci. Technol. Proc. 5:25-33. 1962, pub. 1967. TP368.I5 1962
- 89682 NEYMARK, M., and HELLSTROM, V. Losses of thiamine in foods during home preparation. Int. Congr. Nutr. Proc., 7th Congr., v.4:494-500. Ref. 1966, pub. 1967. TX345.I53 1966
- 89683 OKAZAKI, M., and TERUI, G. Kinetic studies on enzyme production by microbes. III. Process kinetics of glucamylase production by *Aspergillus niger*. J. Ferment. Technol. 45(12):1147-1155. 1967. 390.08 H12
- 89684 OLBRICH, H. Alcoholic fermentation. (Ge) Seifen-Ole-Fette-Wachse 94(3):66-70. (Cont.) Jan. 31, 1968. 307.8 Se4
- 89685 PARPIA, H. A. B. Role of food technology in improving the level of nutrition in developing countries. Int. Congr. Nutr. Proc., 7th Congr., v.3:251-261. Ref. 1966, pub. 1967. TX345.I53 1966
- 89686 RAHMAN, A., BALU, V., and SUBBARAYAPPA, B. V. Problems in the extended utilization of processed foods in developing countries like India. Int. Congr. Food Sci. Technol. Proc. 5: 183-198. 1962, pub. 1967. TP368.I5 1962  
Food habits.
- 89687 RASMUSSEN, C. L. Raw materials yield: key to final product cost. Food Technol. 21(10):15-18. Oct. 1967. 389.8 F7398
- 89688 SCHERTZ, E. P. Food product development and improvement. Mass. Fruit Growers' Ass. Rep. 73:98-103. 1967. 81 M384  
Includes marketing.
- 89689 SCHISCHKOFF, G., and others. Modern trends in food technology: nutritional viewpoint. Int. Congr. Nutr. Proc., 7th Congr., v.4:411-419. Ref. 1966, pub. 1967. TX345.I53 1966  
V. Simeonova, L. Mavrodieva, and N. Bonchev, joint authors.
- 89690 SCHMIDLIN-MESZAROS, J., and ROMANN, E. On the irradiation of food. (Ge) *Alimenta* 5(6): 216-223. Ref. 1966. TP368.A4  
Switzerland.
- 89691 SCHMIDT, B. The importance of quick-frozen foods in hospitals; sanitary supervision of their preparation and use. (Ge) Int. Congr. Nutr. Proc., 7th Congr., v.1:76-81. Ref., p.79-81. 1966, pub. 1967. TX345.I53 1966
- 89692 SHALAMBERIDZE, KH. B. Some problems of storing, decreasing of losses and improving the quality of agricultural raw material. (Geo) Gruz. Sel'skokhoz. Inst. Tr. 70:351-374. 1966. 106 T44  
English summary.
- 89693 SNYDER, J. C., and NELSON, L. L. A management planning and control system. Food Technol. 21(10):50-54, 56, 60, 62. Oct. 1967. 389.8 F7398  
Computers in food manufacture.
- 89694 SOMOGYI, J. C. Present problems of emergency feeding and household food storing: introduction. Int. Congr. Nutr. Proc., 7th Congr., v.4:525-526. 1966, pub. 1967. TX345.I53 1966
- 89695 SRIVASTAVA, D. N. Canning for the community - a unique development in Uttar Pradesh. Indian Food Packer 21(6):10-15. Nov./Dec. 1967. 389.8 In25
- 89696 STEINMANN, D. Household storage and emergency food in Switzerland. (Ge) Int. Congr. Nutr. Proc., 7th Congr., v.4:552. 1966, pub. 1967. TX345.I53 1966
- 89697 STRASSER, J., and GIFFEE, J. W. The freeze-desiccation process. Res. Develop. Ass. Activ. Rep. 19(1):125-132. Spring 1967. 389.9 As74A  
Experiments done by Animal Products and Food Chemistry Branches of the U. S. Army Natick Laboratories.
- 89698 SYMONS, H. Physiological aspects of deep-frozen foods. Int. Congr. Nutr. Proc., 7th Congr., v.4:445-455. 1966, pub. 1967. TX345.I53 1966  
On the freezing process, storage temperature, chemistry, and nutritive value.
- 89699 SYMPOSIUM ON COMPUTERS IN THE FOOD INDUSTRY. [Papers]. 3. Food Technol. 21(10): 50-54, 56, 60, 62. Oct. 1967. 389.8 F7398
- 89700 TACHIBANA, S., SIODE, J., and HANAI, T. Studies on CO<sub>2</sub>-fixing fermentation. IV. *J. Ferment. Technol.* 45(12):1130-1138. Ref. 1967. 390.08 H12  
*Schizophyllum commune*.
- 89701 VAMOS, V. Application of enzyme products in the food industries. (Hu) *Elelmезesi Ipar* 21 (6):161-165. Ref. June 1967. 290.9 M57  
English summary.
- 89702 VAN LOON, J. P. Household food storing in the Netherlands. Int. Congr. Nutr. Proc., 7th Congr., v.4:549-551. 1966, pub. 1967. TX345.I53 1966  
Includes emergency rations.
- 89703 WIRTHS, W. Brief report on the situation of emergency feeding and home storage in various countries. (Ge) Int. Congr. Nutr. Proc., 7th Congr., v.4:546-547. 1966, pub. 1967. TX345.I53 1966
- 89704 WRIGHT, D. E. Prospect beckons of converting cellulose into protein. New Zeal. J. Agr. 114 (5):70-71. May 1967. 23 N48J  
Using microorganisms.
- 89705 WRIGHT, N. C. Food science and technology in relation to feeding the world. I. Int. Congr. Food Sci. Technol. Proc. 5:11-20. 1962, pub. 1967. TP368.I5 1962
- 89706 YANNAI, S., and ZIMMERMANN, G. Changes in the protein nutritive value of different staple foods, induced by varying humidity and temperature conditions during long term controlled storage—a preliminary report. Int. Congr. Nutr. Proc., 7th Congr., v.5:211-218. Ref. 1966, pub. 1967. TX345.I53 1966
- 89707 ZACHARIAS, R. Effects of technical advancement on the manufacture and processing of foods. (Ge) Int. Congr. Nutr. Proc., 7th Congr., v.4:482-494. Ref. 1966, pub. 1967. TX345.I53 1966
- 89708 ZAHN, H. Chemical synthesis of proteins. (Ge) *Naturwissenschaften* 54(15/16):396-402. Ref. Aug. 1967. 474 N213
- 89709 ZOBEL, M. Advantages and limitations of centralization in preparation of foods for community provisioning from the standpoint of cookery. (Ge) Int. Congr. Nutr. Proc., 7th Congr., v.4:635-641. Ref. 1966, pub. 1967. TX345.I53 1966

## STATISTICS

- 89710 BANTEGUI, B. G., and SUMAGUI, J. O. The food supply situation in the Philippines, CY 1965-66. Philippines. Nat. Econ. Council. Statist. Reporter 11(4):11-22. Ref. Oct./Dec. 1967. 273 N21S
- 89711 CANADA. BUR. OF STATISTICS. Field crop reporting calendar 1967. Ottawa, 1966. 3 p. 253 St22Cr
- 89712 THE FOOD balance sheet of the Philippines for CY 1966. Philippines. Nat. Econ. Council. Statist. Reporter 11(4):1-10. Oct./Dec. 1967. 273 N21S

- 89713 HUNGARY, KOZPONTI STATISZTIKAI H-VATAL. Statistical yearbook, 1966. n.p., 1967. 389 p. 266.5 St2Sch  
Text also in Russian.  
Contains a chapter on agriculture.
- 89714 MARYLAND CROP REPORTING SERV. Maryland agricultural statistics; annual summary for 1967, with comparisons. Md. Dep. Marketing Publ. 25,72 p. June 1968. 2 M363  
Maryland Department of Markets, cooperating.
- 89715 NORIN, S. Average yields in Skaraborg. (Sw) Skaraborgs Lans Hushallningssallsk. Tidn. 5: 98-100, map. 1967. 11 Sk1
- 89716 ORAZEM, F. Some facts and figures relating to U.S. agriculture. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Apr. 24, 1968, 2 p. HD9004.A1K3
- 89717 PANAMA, DIRECCION DE ESTADISTICA Y CENSO. Panama en cifras (compendio estadístico: años 1962 A 1966) [Panama in figures (statistical compendium: years 1962 to 1966)]. 179 p., map. 254 P197Pa  
Agricultural statistics included.
- 89718 TRELOGAN, H. C., and HOUSEMAN, E. E. Assembly and retrieval of production information for agricultural business. Nat. Res. Counc. Agr. Res. Inst. Proc. 1967:173-180. 4 N2122  
Crop and livestock reporting by the Statistical Reporting Service of the U. S. Department of Agriculture.
- 89719 U. S. AGRICULTURAL STABILIZATION AND CONSERVATION SERV. Agricultural Conservation Program; 1967, 1966, 1965 summary. Washington, 1968. 91 p. A281.9 C76  
Statistics.
- 89720 U. S. BUR. OF THE CENSUS. 1964 United States Census of Agriculture. Volume 1, Part 52, Puerto Rico. Washington, 1967. 339 p. HD1753.A5 1964
- 89721 U. S. BUR. OF CENSUS. 1964 United States Census of Agriculture. Volume II, chapter 5, Characteristics of farm operators and persons living on farms. Washington, 1967. p.491-587. HD1753.A5 1964  
Includes tenure, education, and off-farm income.
- 89722 U. S. S. R. TSENTRAL'NOE STATISTICHESKOE UPRAVLENIE. Strana Sovetov za 50 let; sbornik statisticheskikh materialov [Soviet country for 50 years; a collection of statistical data]. Moskva, Statistika, 1967. 351 p. HA1435.A55  
Includes agriculture.
- BEVERAGES AND CONDIMENTS**
- 89723 ABRAHAM, J. M., and SIMHA, K. L. Coffee industry—its growth and future outlook. Indian Coffee 32(1):32-35. Jan. 1968. 68.29 In23M
- 89724 ABRAHAM, J. M. Trend in the consumption of coffee in India. Indian Coffee 31(5):13-14. May 1967. 68.29 In23M
- 89725 AMARAL, A. Z. DO, and VERDADE, F. DA C. Studies on coffee culture in some counties of the Northeast of Sao Paulo State through aerial photographs. (Por) Bragantia 25(1):95-106. Ref. 1966. 102.5 B73Tb  
English summary.  
Crop distribution.
- 89726 ASVANY, A. Stabilization of wine protein should start with the must. (Hu) Kertesz. Szolesz. 16(18):6-7. Sept. 1967. 80 K474  
Application of bentonite.
- 89727 BADEN-WURTEMBERG. STATISTISCHES LANDESAMT. Final results of the 1967 wine must harvest. (Ge) Baden-Wurttemb. Statist. Ber. Agrardienst 72(4):317-333. Jan. 11, 1968. 265 St28
- 89728 THE BREWERS' almanack, 1966, (sixty-third edition). London, Brewers' Society, 1966. 867 p. 390.1 B753
- 89729 BUCKLEY, J. C. K. The marketing of coffee. In Warley, T. K., ed. Agricultural producers and their markets, p.125-135. 1967. HD9000.1.W3
- 89730 BUTTERY, R. G., and others. A study of the fate of volatile hop constituents in beer. J. Food Sci. 32(4):414-419. Ref. July/Aug. 1967. 389.8 F7322  
D. R. Black, M. J. Lewis, and L. Ling, joint authors.
- 89731 CLARK, R. Economic aspects of coffee production in East Africa. Kenya Coffee 32(380): 327-330. Aug. 1967. 68.29 C652  
Prices and policy.
- 89732 COOK, A. H. Continuous brewing fermentations in relation to beer quality. Versuchsanst. Garungsgewerbe. Mitt. 22(3):33-38. Ref. Mar. 1968. 390.08 V67
- 89733 CORSETTI, M. Wine vats from reinforced concrete. (It) Turin. Univ. Fac. Sci. Agr. Ann. 1:389-404. 1961-62, pub. 1966. 59.T8  
English summary.
- 89734 DA SILVA, D. The Pakistan tea industry. Ceylon Trade J. 32(5):123-124. May 1967. 286.8 C333
- 89735 DOMINIONE, C. This is the wine we like. (It) Esso Agr. 16(4):22-23. Aug. 1967. 58.8 Es7  
Wine qualities: color, flavor, odor.
- 89736 EPERJESI, I. Formation of optimal sulfuric acid level in quality and mass-product wines. (Hu) Kertesz. Szoleszeti Foiskola. Kiadv. 3 (2):437-449. Ref. 1966. SB13.K4
- 89737 EPP, F. Steps in the making of fresh wine. (Ge) Winzer 23(12):233-234. Dec. 1967. 95.8 W73  
In Austria.
- 89738 FEAVER, W. R. Collection and marketing of cocoa in producing countries. In Warley, T. K., ed. Agricultural producers and their markets, p.149-158. 1967. HD9000.1.W3
- 89739 FORREST, D. M. A hundred years of Ceylon tea, 1867-1967. London, Chatto and Windus, 1967. 320 p. HD9198.C42F6  
Bibliography, p.303-308.
- 89740 FORREST, D. M. World situation and outlook for tea. In Warley, T. K., ed. Agricultural producers and their markets, p.159-171. 1967. HD9000.1.W3
- 89741 FUJII, N., and TOYAMA, N. Application of cellulase in brewing. V. Action of a cell separating enzyme and cellulase on rice. 9 p. Transl. 16862  
Translation from Society of Fermentation Technology, Japan. Journal of Fermentation Technology 45(7). 1967.
- 89742 GALLEGOS JAUREGUI, B. The coffee breeder and world situation of coffee. (Sp) Rev. Cafetalera 64:18-25. Dec. 1966. 68.28 R322
- 89743 GECAN, J. S., and BRICKEY, P. M. Evaluation of the effects of eleven bleaching agents on ground cocoa bean tissue, insect fragments, and rodent hairs. Ass. Offic. Anal. Chem. J. 50(3): 496-499. June 1967. 381 As7
- 89744 GERMANY (FEDERAL REPUBLIC). STATISTISCHES BUNDESAMT. Gartenbau und Weinwirtschaft. III. Weinwirtschaft; Weinmosternte [Horticulture and grape industry. III. Wine industry; wine must crop] 1967. Stuttgart, 1968. 33 p. (Its Land-und Forstwirtschaft, Fischerei rei, Reihe 2) 265 G318Gar
- 89745 GOCAR, M. Contributions to the history of brewing and Pilsen beer. (Fr) Louvain. Univ. Ass. Anciens Etud. Brass. Bull. 63(2):75-83. June 1967. 390.9 L93
- 89746 HADORN, H., ZUERCHER, K., and RAGNARSON, V. New fluorometric methods for the determination of malvin in wine. (Ge) Mitt. Geb. Lebensmitteluntersuch. Hyg. 58(1):1-30. Ref. 1967. 389.9 Sw6  
English summary.
- 89747 HALL, R. L. Toxicants occurring naturally in spices and flavors. In Toxicants occurring naturally in foods, p.164-173. Ref., p.171-173. 1966. TX531.T6
- 89748 HARADA, T., SETO, K., and MUROOKA, Y. Formation of glutamic acid from acetic acid by Corynebacterium acetophilum nov. sp. J. Ferment. Technol. 46(3):169-176. Ref. Mar. 1968. 390.08 H12



- 89749 HEROLD, G. Vermouth wine and medicated wine from the legal point-of-view. (Ge) Pharm. Zeitung 113(2):45-47. Jan. 11, 1968. 396.8 P496
- 89750 KADAR, GY., and MALYA, E. The effect of storage and fermentation in concrete vats on the quality of wine. (Hu) Kertesz. Szoleszeti Foiskola. Kiadv. 3(2):417-435. 1966. SB13.K4
- 89751 KAGAMI, M., AMANO, Y., and SAITO, H. On the removal of color from wine. XVII. Studies on the application of ion exchange process to fermentation industries. J. Ferment. Technol. 46(3):153-157. Mar. 1968. 390.08 H12
- 89752 KAGEYAMA, Y., and KUNISADA, N. Research on sake *Aspergillus oryzae*; protein decomposition of sake koji. 1. Measurement of the protein decomposition ability by Folin-Ciocalteu phenol reagent. 8 p. Transl. 14749  
No source of translation given.
- 89753 KAGITCI, M. A. Coffee substitute from *Gundelia tournefortii* L. (Ge) Fette, Seifen, Anstrichmittel 70(2):73-74. Feb. 1968. 384 C422
- 89754 KIRTISINGHE, D. Quality and economy in the production of tea. Ceylon. Tea Res. Inst. Tea Quart. 38(3):289-292. Sept. 1967. 68.18 C33
- 89755 KLOPPER, W. J. New raw materials for brewing. (Du) Int. Tijdschr. Brouwerij Mouterij 27(5):143-151. 1967/68. 390.8 R32Af
- 89756 KOZHIN, S. A. Volatile substances from black tea. J. Food Sci. Technol. [Mysore] 4(4):175. Dec. 1967. 389.8 J823
- 89757 KUHN, E. Visits to firms by former students. of the subjects of fruit and wine. (Ge) Schweiz. Z. Obst- Weinbau 103(11):351-353. May 27, 1967. 80 Sch9  
Distilleries.
- 89758 KUNG, J. T., MCNAUGHT, R. P., and YERANIAN, J. A. Determining volatile acids in coffee beverages by NMR and gas chromatography. J. Food Sci. 32(4):455-458. July/Aug. 1967. 389.8 F7322
- 89759 LIBERO, A. T. Methanol in brandies. (It) Turin. Univ. Fac. Sci. Agr. Ann. 1:199-202. 1961-62, pub. 1966. S9.T8  
English summary.
- 89760 MALAN, C. E. "Cottony mold" caused by the development of *Lactobacillus trichodes* Fornachon, Douglas and Vaughn in Piedmont vermuth. (It) Turin. Univ. Fac. Sci. Agr. Ann. 1:27-40. Ref. 1961-62, pub. 1966. S9.T8  
English summary.
- 89761 MARESCALCHI, C. It's the day of origin-designated wines. (It) Agri Forum (2):43-46. Feb. 1968. 16 Ag8233  
Italy.
- 89762 MAROV, G. J. A procedure for computing and determining solids in syrups and beverages formulated with medium invert sugar. Int. Sugar J. 69(822):163-169. June 1967. 65.8 In8
- 89763 MENDOZA, J. L. The minimum price of coffee. (Sp) Rev. Cafetalera 64:15-17. Dec. 1966. 68.28 R322
- 89764 MERZHANIAN, A. A., and TAGUNKOV, YU. D. On the action of hydrogen in wine and must. (Rus) Izv. Vyssh. Ucheb. Zaved. Pishch. Tekhnol. 3(58):95-97. 1967. 389.8 IZ8
- 89765 NARASIMHASWAMY, R. L., and MUTHURAMAN, S. Trends in production of Arabica coffee in Mysore State. Indian Coffee 32(1):7-10. Jan. 1968. 68.29 In23M
- 89766 NATARAJAN, C. P., and GOPALAKRISHNA, N. Utilization of spent coffee grounds from soluble coffee industry. Indian Coffee 32(1):25-29. Ref. Jan. 1968. 68.29 In23M
- 89767 NAY, E. V. Processing brewery waste products for food supplement of high nutritional value. Int. Congr. Nutr. Proc., 7th Congr., v.5: 247-248. 1966, pub. 1967. TX345.I53 1966  
Source of proteins and amino acids.
- 89768 PATAKY, B. Further remarks on the use of statistical methods in wine manufacture. (Ge) Klosterneuburg. Hoheren Bundeslehr-Versuchsanst. Wein- Obstbau. Mitt. 16(1):40-41. Jan. 1966. 105.9 K696
- 89769 RAKCSANYI, L. Introduction of up-to-date processing of by-products in the wine industry. (Hu) Kertesz. Szoleszeti Foiskola. Kiadv. 3(2):397-416. 1966. SB13.K4
- 89770 RASPINO, G. Building for wine bottling of social cooperatives of Piedmont. (It) Turin. Univ. Fac. Sci. Agr. Ann. 1:175-198. 1961-62, pub. 1966. S9.T8  
English summary.
- 89771 REDDY, P. N. International Coffee Organization; it's role in stabilizing world coffee economy. Planting Com. 15(3):20-23. May 8/23, 1967. 22 P697
- 89772 REINHARD, C. Contribution to the determination of diethyl carbonate in wine. (Ge) Deut. Lebensm.-Rundsch. 63(5):151-153. Ref. May 1967. 389.8 D482  
Chromatography.
- 89773 ROHAN, T. A. The precursors of chocolate aroma: Application of gas chromatography in following formation during fermentation of cocoa beans. J. Food Sci. 32(4):402-404. July/Aug. 1967. 389.8 F7322
- 89774 ROHAN, T. A., and STEWART, T. The precursors of chocolate aroma: Production of free amino acids during fermentation of cocoa beans. J. Food Sci. 32(4):395-398. Ref. July/Aug. 1967. 389.8 F7322
- 89775 ROHAN, T. A., and STEWART, T. The precursors of chocolate aroma: Production of reducing sugars during fermentation of cocoa beans. J. Food Sci. 32(4):399-402. July/Aug. 1967. 389.8 F7322
- 89776 ROY, J. Production area of Lirac wine. (Fr) France Inst. Nat. Appellations Origine Vins Eaux-de-Vie Bull. 102:51-61. Oct. 1967. 390.9 F843
- 89777 SAENZ, E. J. The Zinke pod breaker: a significant contribution to the development of the cacao industry. Cacao 12(2):1-5. Apr./June 1967. 68.38 C11
- 89778 SCHEUTEN, R. Organization and methods of wine co-operatives in Baden. Year Book Agr. Co-op. 1967:78-92. 280.29 H78
- 89779 SCHWIEN, W. G., and MILLER, B. J. Detection and identification of dehydrated red beets in Capsicum spices. Ass. Offic. Anal. Chem. J. 50(3):523-525. June 1967. 381 As7
- 89780 SHELTON, B. Artificial drying of cocoa beans. Trop. Agr. [St. Augustine] 44(2):125-132. Apr. 1967. 26 T754  
Nigeria.
- 89781 SIKOVEC, S. The effective utilization of waste products of grapes and wines. (Sl) Soc. Kmetijstvo Gozdarstvo 18(1):7-11, map. Ref. Jan. 20, 1967. 21.5 So14  
German summary.
- 89782 SKOGSBERG, G. 86% of ground coffee packed in cans. (Ge) Verpackung.-Rundsch. 19(3):240. Mar. 1968. 280.38 V592
- 89783 SPENCER, C. C. World situation and outlook for coffee. In Warley, T. K., ed. Agricultural producers and their markets, p.113-124. 1967. HD9000.1.W3
- 89784 STEIN, R., EISENBERG, W. V., and BRICKEY, P. M. Note on staining as an aid in counting vinegar eelworms in vinegar. Ass. Offic. Anal. Chem. J. 50(3):519-520. June 1967. 381 As7
- 89785 SUDRAUD, P. The volatile acidity of wine vintages attacked by *Botrytis cinerea*. (Fr) France Inst. Nat. Appellations Origine Vins Eaux-de-Vie Bull. 102:15-18. Oct. 1967. 390.9 F843
- 89786 TANNER, H. Wine and spirits from a pharmacological view. (Ge) Schweiz. Z. Obst- Weinbau 103(11):347-351. May 27, 1967. 80 Sch9  
Composition and hazards.
- 89787 TARANTOLA, C., and CASTINO, M. Colorimetric determination of malic acid in wine. (It) Turin. Univ. Fac. Sci. Agr. Ann. 1:137-150. Ref. 1961-62, pub. 1966. S9.T8  
German summary.

- 89788 THIRUVENKATACHARI, N. S., and SWAMINATHAN, V. Growth rates in agricultural production in Madras State. *Agr. Situation India* 22(5): 535-538. Aug.1967. 281.9 In23  
Statistical analysis.
- 89789 TIRIMANNA, A. S. L. Aroma complex—with special reference to tea. *Ceylon. Tea Res. Inst. Tea Quart.* 38(3):293-295. Sept.1967. 68.18 C33
- 89790 TRAXLER, H. Current news from the vine market. (Ge) *Winzer* 23(12):235-236. Dec. 1967. 95.8 W73
- 89791 VAN VUREN, J. J. Throw away the "dish-water," make some real coffee! *Farming S. Afr.* 42(10):60-61. Jan.1967. 24 So842  
Consumption and quality.
- 89792 VITANOV, R. Clarification of wine. (Se) *Sovremeno Zemjod.* 14(3):10-11. Mar.1967. S13.S6
- 89793 VITANOV, R. Defects of young wine. (Se) *Sovremeno Zemjod.* 14(1):10-11. Jan.1967. S13.S6  
Includes decanting.
- 89794 VITICULTURAL REGISTRATION and declaration of wine harvests by names of origin. (Fr) *France. Inst. Nat. Appellations Origine Vins Eaux-de-Vie Bull.* 102:21-28. Oct.1967. 390.9 F843  
A decree by the president of Italy on May 24, 1967.
- 89795 VOISIN and LEPAGE. Proposition of a law forbidding the manufacture of ordinary sparkling wines within the geographic area of origin, Vouvray. (Fr) *France. Inst. Nat. Appellations Origine Vins Eaux-de-Vie Bull.* 102:19-21. Oct.1967. 390.9 F843  
Presented to the French National Assembly.
- 89796 WESSEL, Modern economic cooperation forms in viticulture. (Ge) *Winzer (ser.2)* 24:21-24. Feb.1968. 95.8 W73
- 89797 WICKREMASINGHE, R. L. Aspects of the biochemistry of tea manufacture. *Ceylon. Tea Res. Inst. Tea Quart.* 38(3):287-288. Sept.1967. 68.18 C33
- 89798 WILBAUX, R., and HAHN, D. A contribution to the study of phenomena occurring during the storage of raw coffee. (Fr) *Cafe, Cacao, The* 10(4):342-367. Ref. Oct./Dec.1966. 68.8 C112  
English summary.
- 89799 WORLD OF COFFEE AND TEA. Consumption. *World Coffee Tea* 8(5):48-50. Sept.1967. 286.83 W89  
Includes production statistics.
- 89800 WORLD OF COFFEE AND TEA. What's behind current global tea production trends? *World Coffee Tea* 8(5):55-56,58-60. Sept.1967. 286.83 W89
- 89801 WUCHERPENNIG, K., and KLEINKNECHT, E. M. Contribution to the oxygen uptake of wine with special attention to changes in its content in free sulfuric acids and its ITT value. (Ge) *Klosterneuburg. Hoherne Bundeslehr- Versuchsanst. Wein- Obstbau. Mitt.* 16(1):19-30. Ref. Jan.1966. 105.9 K696  
English summary.  
Redox potential and reducing substances.
- 89802 YAMAGUCHI, S. The synergistic taste effect of monosodium glutamate and disodium 5'-inosinate. *J. Food Sci.* 32(4):473-478. Ref. July/Aug.1967. 389.8 F7322
- 89803 YUILLE, A. B. Production and marketing of tea. In *Warley, T. K., ed. Agricultural producers and their markets*, p.172-178. 1967. HD9000.1.W3
- DAIRY PRODUCTS**
- 89804 ALFONSUS, H. Report of a trip in the Federal Republic of Germany and the Netherlands. 7. (Ge) *Osterr. Milchwirt.* 23(6):102-105. Mar.21,1968. 44.8 Os72
- 89805 BAEHR, H. A. Austria acts to cut dairy surpluses. *Foreign Agr.* 6(25):7. June 17,1968. A281.9 F76Fo
- 89806 BRATES, E., and SOTIR, M. P. Glossary for the milk industry. (Rum) *Indus. Aliment.* 19(2):94-96. (Cont.) Feb.1968. 389.8 In26  
Rumanian terms (A-M) with corresponding terms in French, German, English, Russian.
- 89807 BROS, C. DE. Swiss agriculture in a difficult position. (Fr) *Indus. Lait. Suisse* 49(5):1-2. Feb.2,1968. 44.8 In24  
Dairy industry.
- 89808 CAMPBELL, I. L. Education for future dairy farmers. *Massey Univ. Dairyfarming Annu.* 1967:7-16. 44.9 M382
- 89809 CHOUDHURY, R. Raising dairy cattle in India. (It) *Inform. Zootec.* 14(23):10. Dec.15,1967. 49 In3  
Milk production, land utilization, government policies.
- 89810 CHRIST, P. G. Regional patterns of milk production. *Kans. State Univ. Ext. Econ.* *Kans. Farm Bus. Inform.*, May 23,1967,2 p. HD9004.A1K3
- 89811 CHVALINA, V. The development of dairy industry. (Cz) *Prum. Potravín* 17(6):287-288. June 1966. TP368.P7
- 89812 CONNER, M. C. Dairy. *Va. Polytech. Inst. Ext. Va. Farm Econ.* 208:22-24. May/June 1968. 275.29 V813  
Industry.
- 89813 DANSKE MEJERIFORENINGERS FAELLES-ORGANISATION. Beretning om Faellesorganisationens og mejerikontorets virksomhed [Report on the activities of the Federation and the Dairy Board]. Aarhus, 1966. 284 p. 44.9 D23
- 89814 DEVRIENDT, K. L. A Belgian view of production and marketing of cheese in the E.E.C. (Du) *Ned. Zuivelbond. Offic. Orgaan* 60(13): 344-346. Mar.27,1968. 44.9 AL3
- 89815 DRASKOVIC, R. Some conditions of the production and purchase of surplus milk in two communities of southern Banat region. (Se) *Mljekarstvo* 18(1):11-16. Jan.1968. 44.8 M694Ac
- 89816 ELSTRAETE, R. VAN, and GHINDES, S. Information—collection and payment for milk. (Fr) *Coop. Agr. [Paris]* 15(169):7-10. Feb.1968. 280.28 C78972  
Accounting.
- 89817 GERREBOS, H. The organization of the dairy products market in the E.E.C. (Du) *Conserva* 16(4):79-83. Oct.1967. 389.8 C7632  
French summary.
- 89818 GOLEBIEWSKI, T. Marginal discussion on reconstructing the dairy industry. (Pol) *Przegląd Mleczarski* 16(9):3-6. Sept.1967. 44.8 P95
- 89819 HAISCH, K. H. Basic economic problems of management adaptation in the German dairy industry. (Ge) *Deut. Molk.-Zeitung* 88(41): 1681-1684. Oct.12,1967. 44.8 Su2  
In relation to the European Common Market.
- 89820 HESSELBARTH, Milk production in the district of the Hanover Chamber of Agriculture [Hannover Landwirtschaftskammer]. (Ge) *Tierzuchter* 20(1):10-11. Jan.5,1968. 49 T445
- 89821 HOEKSTRA, P. Dairy industry in Iran. (Du) *Veeteelt Zuivelber.* 10(8):379-383. Aug.1967. 49 V51
- 89822 HOFMANN, F. Present and future problems of the dairy industry. (Fr) *Indus. Lait. Suisse* 49(8):1-4. Feb.23,1968. 44.8 In24
- 89823 HULGARD, S. A. Dutch population problems and agricultural problems. (Da) *Dansk Landbrug* 86(10):253-256, map. Oct.1967. 280.28 V91  
Importance of the dairy industry.



- S9S24 JOOST, K. Hunting for the favorite cheese. (Sw) Var Naring 44(12):8. 1967. 44.8 M692  
Swedish cheese types.
- S9S25 KOESTER, O. J. Some points about the American milk industry. (Ge) Mitt. Deut. Landwirt.-Ges. 83(15):533-534. Apr.11,1968. 18 N39
- S9S26 KUBIK, S. Basic directions of production growth in the dairy industry. (Pol) Przegląd Mleczarski 16(9):6-8. Sept.1967. 44.8 P95
- S9S27 KUGENEV, P. V. Molochnoe delo [Dairy industry]. Ed. 2, rev. and enl. Moskva, Kolos, 1967. 303 p. SF239.K8 1967
- S9S28 LATHAM, M. C. Increasing production and consumption of dairy products and eggs in developing countries. Int. Congr. Nutr. Proc., 7th Congr., v.3:61-75. Ref. 1966, pub.1967. TX345.I53 1966  
Includes nutritive value of the products, methods of raising cattle and poultry, and food ideologies.
- S9S29 LINDQUIST, B. Israel. (Sw) Var Naring 44(12):16-17. 1967. 44.8 M692  
Dairy industry.
- S9S30 MASSEY UNIVERSITY OF MANAWATU. Dairyfarming annual 1967. Proceedings of the nineteenth annual meeting of dairyfarmers conducted by Massey University, Palmerston North, May 24-25, 1967. Wellington, 1967. 175p. 44.9 M382
- S9S31 MCFETRIDGE, M. J. Farm dairy instruction service does much for producers. New Zeal. J. Agr. 115(1):85,87,89. July 1967. 23 N48J
- S9S32 MELJERS, P. A visit to the cattle farmers of northern Nepal. (Du) Ned. Zuivelbond. Offic. Orgaan 60(3):61-65. Jan.17,1968. 44.9 AL3  
Dairying.
- MILANOVIC, Z. Some elements of the production and organization of dairy industry in Netherlands. 1-2. (Se) Mljekarstvo 18(1):17-23; (2):35-41. Jan.-Feb.1968. 44.8 M694Ac
- S9S33 MULLER, G. The outlook for trends in cattle raising in the Federal Republic of Germany. I. Development of milk production. (Ge) Agrarwirtschaft 17(5):129-135, map. May 1968. 281.8 Ag826
- S9S34 ORTEGO, A. J. Substitutes for fluid milk. Va. Polytech. Inst. Ext. Va. Farm Econ. 208:14-20. May/June 1968. 275.29 V813  
Effects on industry.
- S9S35 ORTH, A. Dairy production problems. (Fr) Indus. Lait. Suisse 49(4):3,5. Jan.26,1968. 44.8 In24
- S9S36 RAUCH, E. Milk production in developing countries. (Ge) Z. Ausländische Landwirt. 6(4):354-367. Nov.1967. 281.8 Z32  
English summary.
- S9S37 RUDDER, R. Dairy industry needs - more funds for research, more scientists, more interchange between science and industry. Milk Board J. 18(5):13-14. May 1967. 44.8 M5934  
Australia.
- S9S38 SANDBROOK, C. Discussion groups have proved their value. New Zeal. J. Agr. 114(1):48-49. Jan.1967. 23 N48J  
Dairy farming.
- S9S39 SLUMP, H. Custard on the march. (Du) Ned. Zuivelbond. Offic. Orgaan 60(10):262-263. Mar.6,1968. 44.9 AL3
- S9S40 SMIT, H. J. M. How it should go, by April 1, (Du) Ned. Zuivelbond. Offic. Orgaan 60(5):116-118. Jan.31,1968. 44.9 AL3  
European Common Market dairy industry.
- S9S41 VERMA, S. Objectives of dairy extension work in India. Indian Dairyman 19(9):309-312. Sept.1967. 44.8 In282
- S9S42 VILJOEN, D. C. Recent developments in the dairy industry. Agrekon 6(4):5-15. Oct.1967. 281.8 Ag835  
In South Africa.
- S9S43 WARD, A. H. Production and marketing of dairy products. Ruakura Farmers Conf. Week Proc. 1967:126-131. Apr.9,1968. 49.9 R82  
In New Zealand.
- S9S44 WITTIG, W. The German dairy industry in European competition. (Ge) Deut. Molk.-Zeitung 88(43):1761-1766. Oct.26,1967. 44.8 Su2
- Analysis and Composition
- S9S45 ADAMS, H. P. Nevada dairy industry: its present and future. Nev. Ranch Home Rev. 3(9):12-14. Spring 1967. 60.18 Sci2  
Quality analysis of milk.
- S9S46 AGARWAL, M. L., SRINIVASAN, R. A., and DUDANI, A. T. Studies on the bacterial phosphatases in milk. Indian J. Dairy Sci. 20(3):113-117. Ref. Sept.1967. 44.8 In28
- S9S47 ALLEMEERSCH, X. VAN, and DEVOGELARE, R. Radiography of cheese. (Fl) Ghent. Rijksfac. Landbouwwetensch. Meded. 31(4):1231-1249. Ref. 1966. 105.1 G344  
English summary.
- S9S48 BABSON, A. L., and GREELEY, S. J. New substrate for alkaline phosphatase in milk. Ass. Offic. Anal. Chem. J. 50(3):555-557. June 1967. 381 As7
- S9S49 BLUMENTHAL, A. On the hygienic-bacteriological structure of pasteurized cream cheese. (Ge) Mitt. Geb. Lebensmittelforsch. Hyg. 58(3):166-169. 1967. 389.9 Sw6  
English summary.
- S9S50 BOTTAZZI, V., and DELLAGLIO, F. Acetaldehyde and diacetyl production by Streptococcus thermophilus and other lactic streptococci. J. Dairy Res. 34(2):109-113. Ref. June 1967. 44.8 J823
- S9S51 BRADLEY, R. L., and STINE, C. M. A gas chromatographic study of the volatile flavors in natural and spray-dried Cheddar cheese. J. Gas Chromatogr. 6(6):344-348. June 1968. 381 J8225
- S9S52 BURTON, H. Seasonal variation in deposit formation from whole milk on a heated surface. J. Dairy Res. 34(2):137-143. Ref. June 1967. 44.8 J823  
Correlated with fat content.
- S9S53 BUSSE, M. Metabolic patterns in dairy organisms. Seminar Radioisotop. Radiat. Dairy Sci. Technol. Proc. 1966:67-81. Ref. SF223.S4 1966  
Lactic acid bacteria; use of radioactive carbon as tracer.  
Includes discussion.
- S9S54 CERBULIS, J., and ARD, J. S. Method for isolation and detection of dioctyl phthalate from milk lipids. Ass. Offic. Anal. Chem. J. 50(3):646-650. Ref. June 1967. 381 As7
- S9S55 CERNA, E., and PISECKY, J. The determination of fat in milk with milk-o-tester. (Cz) Prum. Potravin 17(6):298-300. June 1966. TP368.P7  
English summary.
- S9S56 CRNOBORI, M. A contribution to the study of solubility of dried milk. I. The composition and structure of particles of dried milk as factors of its solubility. (Se) Mljekarstvo 18(1):7-11. Jan.1968. 44.8 M694Ac
- S9S57 DIXON, B. D. Spreadability of butter: importance of type of fat, cream cooling and butter reworking. Australian J. Dairy Technol. 22(1):22-27. Ref. Mar.1967. 44.8 Au74
- S9S58 DOI, T., MORI, S., and MINO, K. Studies on conjugated lipids in milk. (Ja) Jap. J. Zootech. Sci. 38(6):245-251. Ref. June 1967. 49 N62  
English summary.
- S9S59 DOLEZALEK, J., and BARTUSKOVA, M. Study of the surface microorganisms of beer cheese. (Cz) Prum. Potravin 17(6):322-324. Ref. June 1966. TP368.P7
- S9S60 ESCHMANN, K. H., and ZEDER, F. Bacteriological testing and assessment of full and half cream. (Ge) Alimentia 5(6):209-210. 1966. TP368.A4

- 89862 FLETCHER, W., and others. Strontium 90 in the Australian environment during 1965. *Australian J. Sci.* 29(9):319-325, map. Mar. 1967. 475 Au72  
W. J. Gibbs, J. R. Moroney, D. J. Stevens, and E. W. Titterton, joint authors.  
In milk and flour.
- 89863 FORSS, D. A., STARK, W., and URBACH, G. Volatile compounds in butter oil. *J. Dairy Res.* 34(2):131-136. Ref. June 1967. 44.8 J823
- 89864 GANGULI, N. C., and MAJUMDER, G. C. Kappa-casein crop variants in buffalo milk. *J. Dairy Sci.* 51(5):796-797. Ref. May 1968. 44.8 J822
- 89865 GRAF, T. High protein dairy items needed. *Mod. Milk Hauler* 8(4):10. Feb. 1968. 280.38 M72  
Need for research.
- 89866 GROVES, M. I., and GORDON, W. G. Isolation of a new glycoprotein-a and a gamma-Globulin from individual cow milks. *Biochemistry* 6(8):2388-2394. Ref. Aug. 1967. 381 B523
- 89867 GULYAEV-ZAITSEV, S. S., and TVERDO-KHLEB, G. V. On some phenomena in crystallization of milk fat glycerides. (Rus) *Izv. Vyssh. Ucheb. Zaved. Pishch. Tekhnol.* 3(58):75-77. 1967. 389.8 IZ8
- 89868 GUPTA, S. K., and GANGULI, N. C. The release of free and bound salic acid from casein by rennet and trypsin. *Indian J. Dairy Sci.* 19(4):216-217. Ref. Dec. 1966. 44.8 In28
- 89869 HANSON, L. A., SAMUELSSON, E. G., and HOLMGREN, J. Detection of caeruloplasmin in bovine milk and blood serum. *J. Dairy Res.* 34(2):103-107. Ref. June 1967. 44.8 J823
- 89870 HARPER, W. J., and GOULD, I. A. Utilization of radioactive isotopes as tracers in research concerning milk and milk products. *Seminar Radioisotop. Radiat. Dairy Sci. Technol. Proc.* 1966:51-65. Ref. SF223.S4 1966  
In studying their chemistry.  
Includes discussion.
- 89871 HATTOWSKA, H. Microflora development in frozen milk. (Pol) *Przegląd Mleczarski* 16(9):14-15. Ref. Sept. 1967. 44.8 P95
- 89872 HENDRICKX, H., and HUYGHEBAERT, A. Gas chromatographic analysis of mixtures of short chain fatty acids and of the Reichert-Meissl-fraction of butter and substitution fats. (Fl) *Ghent. Rijksfac. Landbouwwetensch. Meded.* 31(4):1251-1273. Ref. 1966. 105.1 G344  
English summary.
- 89873 HENNINGSON, R. W. Determination of the freezing point of milk by thermistor cryoscopy. *Ass. Offic. Anal. Chem. J.* 50(3):533-537. June 1967. 381 As7
- 89874 HOFFER, H., and NIEDERHEIM, F. Quick ashing of milk and dairy products. (Ge) *Osterr. Milchwirt.* 22(10, wiss. beilage 2):7-8. May 21, 1967. 44.8 Os72
- 89875 HOFI, A. A., RIFAAT, I. D., and KHORSHID, M. A. Studies of some physical and physico-chemical properties of Egyptian buffalo's and cow's milk. VI-VII. *Indian J. Dairy Sci.* 19(4):195-201. Ref. Dec. 1966. 44.8 In28
- 89876 IGARASHI, Y., and SAITO, Z. Column chromatography of skim milk and buttermilk on triethylaminoethyl cellulose. *Hirosaki Univ. Fac. Agr. Bull.* 13:44-50. Ref. Mar. 1967. 22.5 H613
- 89877 INGLETON, N. A cheese sampler for microbiological assays. *Australian J. Dairy Technol.* 22(1):51-52. Mar. 1967. 44.8 Au74
- 89878 JOOST, K. Underestimated milk property. (Sw) *Var Naring* 44(8):14. 1967. 44.8 M692  
Lactose.
- 89879 JORGENSEN, H. Corrections of Gerber van Gulik's rapid method for the determination of fat in cheese. (Da) *Maelkeritidende* 81(8):155-159. Feb. 23, 1968. 44.8 M26
- 89880 LANGEVELD, L. P. M. *Clostridium thermosaccharolyticum* in sterilized chocolate milk. *Ned. Melk- Zuiveltijdschr.* 2(3/4):245. Dec. 1967. 44.8 N283
- 89881 LIST, P. H., and FREUND, B. Identification of a hydrolysate protein substance damaged by heat, being evidently ninhydrin positive. (Ge) *Naturwissenschaften* 54(24):648. Dec. 15, 1967. 474 N213  
In dried milk.
- 89882 LUKE, H. A. Collaborative testing of the dye binding method for milk protein. *Ass. Offic. Anal. Chem. J.* 50(3):560-564. June 1967. 381 As7
- 89883 MANN, E. J. Instant whole milk tests. *Irish Agr. Creamery Rev. (n.s.)* 21(411):14. Mar. 1968. 44.8 C866
- 89884 MESTRES, R., BARTHES, F., and PRIU, M. DDT, aldrin, and dieldrin residue determinations in milk and butter. *Bull. Environ. Contamination Toxicol.* 2(1):25-33. Jan./Feb. 1967. RA1270.P35A1
- 89885 MITCHELL, D. J. Collaborative studies of methods for butterfat in homogenized and chocolate milk. *Ass. Offic. Anal. Chem. J.* 50(3):537-541. June 1967. 381 As7
- 89886 NAIR, P. G. Hansa test to detect milk adulteration. *Indian Farming* 17(10):56-58. Jan. 1968. 22 In283  
Adulteration of cow's milk with buffalo's milk.
- 89887 PARODI, P. W. A simple apparatus for the preparation of methyl esters of butterfat. *Australian J. Dairy Technol.* 22(1):50-51. Mar. 1967. 44.8 Au74  
For gas chromatographic analysis.
- 89888 PISECKY, J., HEJL, J., and CERNA, M. Some properties of condensed milk and their effect upon the quality of dried milk. (Cz) *Prum. Potravin* 17(6):304-309. Ref. June 1966. TP368.P7  
English summary.
- 89889 RAMMELL, C. G. Brucella in dairy products; a review. *Australian J. Dairy Technol.* 22(1):40-43. Mar. 1967. 44.8 Au74  
Literature review.
- 89890 ROGOV, I. A., and GORBATOV, A. V. On relationship between electrical conductivity and milk viscosity. (Rus) *Izv. Vyssh. Ucheb. Zaved. Pishch. Tekhnol.* 3(58):114-121. 1967. 389.8 IZ8
- 89891 RYHAGE, R. Identification of fatty acids from butterfat using a combined gas chromatograph-mass spectrometer. *J. Dairy Res.* 34(2):115-121. June 1967. 44.8 J823
- 89892 SAITO, Z., IGARASHI, Y., and SEINO, T. Quality of raw milk in Aomori Prefecture. I. Estimation of specific gravity using "Spegrav" and solids content of milk produced in the Hirosaki area. (Ja) *Hirosaki Univ. Fac. Agr. Bull.* 13:31-36. Ref. Mar. 1967. 22.5 H613  
English summary.
- 89893 SAMUELSSON, E. G. Determination of trace elements in milk and milk products by means of neutron activation analysis. *Seminar Radioisotop. Radiat. Dairy Sci. Technol. Proc.* 1966:221-237. Ref. SF223.S4 1966  
Includes discussion.
- 89894 SANDOVAL, L. A. Sanitary control of milk. (Por) *Inst. Laticinios Candido Tostes. Rev.* 23(136):3-5. Jan./Feb. 1968. 44.8 F33  
Quality control.
- 89895 SCHIVONE, E. L., and PASSERINI, L. M. D. The resazurin test in the evaluating of milk destined for pasteurization. (Sp) *Indus. Leche.* 49(575):152-155. (Concl.) Ref. June 1967. 44.8 In26
- 89896 SEBELA, F., and SUSS, W. Study of interrelations between the chemical composition of milk, its properties and curdling. (Cz) *Prum. Potravin* 17(6):295-297. June 1966. TP368.P7  
English summary.



- 89897 SENFT, B. New facts about the composition of cattle milk. (Ge) Tierzuchter 20(1):8-9. Jan.5,1968. 49 T445  
Effects of quality on prices.
- 89898 SETH, A. D., and COLAH, R. B. M. Amino-acid requirements of local lactobacilli. Indian J. Dairy Sci. 19(4):178-180. Dec.1966. 44.8 In28
- 89899 SHARPE, M. E., FRYER, T. F., and SMITH, D. G. Identification of the lactic acid bacteria. Soc. Appl. Bacteriol. Tech. Ser. 1:65-79. Ref.,p.77-79. 1966. QR41.S6
- 89900 SHERBON, J. W., and HEMPHILL, B. Comparison of the reproducibilities of the Kjeldahl and dye binding methods for measuring protein in milk. Ass. Offic. Anal. Chem. J. 50(3):557-560. June 1967. 381 As7
- 89901 SHERBON, J. W. Rapid determination of protein in milk by dye binding. Ass. Offic. Anal. Chem. J. 50(3):542-546. Ref. June 1967. 381 As7
- 89902 STADHOUDERS, J., TUCKEY, S. L., and RAADSVELD, C. W. Comparison of certain methods for the determination of fat hydrolysis in milk. Ned. Melk- Zuiveltijdschr. 2(3/4):150. Dec.1967. 44.8 N283
- 89903 STARK, W., SMITH, J. F., and FORSS, D. A. n-Pent-1-en-3-ol and n-pent-1-en-3-one in oxidized dairy products. J. Dairy Res. 34(2):123-129. June 1967. 44.8 J823
- 89904 STEPHENS, R. L. Extraneous materials in dairy products: Cheese. Ass. Offic. Anal. Chem. J. 50(3):501-504. June 1967. 381 As7
- 89905 STRANGE, T. E. A comparative study of methods for the determination of moisture in cheese. Ass. Offic. Anal. Chem. J. 50(3):547-555. Ref. June 1967. 381 As7
- 89906 THOME, K. E. Drops of oil and balls of fat. (Sw) Var Naring 44(9):11,22-28. 1967. 44.8 M692  
Chiefly in milk.
- 89907 TRODAHL, S. The difference in percentage of fat between the dairy milk and the tested milk. (No) Buskap Avdratt 3:173. 1967. 49 B96
- 89908 WATTS, R. R., and STORHERR, R. W. Sweep co-distillation cleanup of milk for determination of organophosphate and chlorinated hydrocarbon pesticides. Ass. Offic. Anal. Chem. J. 50(3):581-585. June 1967. 381 As7  
Residues in milk.
- 89909 WEBER, P. Behavior of coagulase-positive staphylococci in milk and Emmental cheese. (Ge) Schweiz. Landwirt. Forsch. 7(1):1-42. Ref.,p.39-42. 1968. 17 Sch99  
English summary.
- 89910 WEIK, R. W. Report on dairy products. Ass. Offic. Anal. Chem. J. 50(3):531-533. June 1967. 381 As7
- 89911 WILDBRETT, G. Plastics in the dairy industry—a critical study. IV. Effects resulting from the chemical composition and thermal conductivity of plastics. (Ge) Fette, Seifen, Anstrichmittel 70(2):107-118. Ref. Feb.1968. 384 C422  
English summary.
- 89912 WRIGHT, D. E., and WHITTLESTONE, W. G. The adsorption of cetyl-trimethyl-ammonium bromide (cetrimide) by metal surfaces. Australian J. Dairy Technol. 22(1):28-33. Mar. 1967. 44.8 Au74
- 89913 WYATT, C. J., PEREIRA, R. L., and DAY, E. A. The lactone precursor in fresh milk fat: identification of the hydroxy fatty acids. Lipids 2(3):208-211. Ref. May 1967. QP751.L5
- 89914 YOUNG, J. O., and KLEEN, E. J. Screening tests for abnormal milk. S. Dak. State Univ. Ext. FS 405,2 p. Mar.1968. 275.29 So85Fs

#### Consumption and Utilization

- 89915 ASIEDU, E. R. Use of dried milks in Ghana. Int. Congr. Nutr. Proc., 7th Congr., v.3:124-126. 1966, pub.1967. TX345.153 1966

- 89916 PIJANOWSKI, E. Consumption increase of dairy products--the theme of FIL seminars. (Pol) Przegl. Mleczarski 16(9):8-11. Sept. 1967. 44.8 P95

#### Distribution, Marketing, and Transportation

- 89917 BAKER, G. E. Tanker collection of milk. Massey Univ. Dairyfarming Annu. 1967:65-71. 44.9 M382
- 89918 CHRIST, P. G. Developments in outside markets for Kansas milk. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Jan.10, 1967,2 p. HD9004.A1K3
- 89919 CROPP, R. A., MOEDE, H. H., and GRAF, T. F. Marketing potential for sterilized milk concentrate in institutional outlets. Wis. Agr. Exp. Sta. Res. Bull. 271,32 p. June 1968. 100 W75
- 89920 DEVINO, G. T., and APLIN, R. D. Measuring and improving the profitability of milk distribution routes. N. Y. (Cornell) Agr. Exp. Sta. Bull. 1015,48 p. May 1968. 100 N48C
- 89921 FALLON, E. H. The dairy industry faces a challenge. Agway Coop. 4(2):5. Mar.1968. 280.28 Ag9  
From filled milk.
- 89922 JONES, H. T. Marketing of increased dairy production. Massey Univ. Dairyfarming Annu. 1967:109-120. 44.9 M382
- 89923 KROHN, H. Forward or backward flight? (Ge) Tierzuchter 20(5):207-208. Apr.1968. 49 T445  
Milk prices, markets and milk politics, Germany.
- 89924 LEENDERS, A. G. Modification of dairy surpluses. 2. (Du) Ned. Zuivelbond. Offic. Orgaan 60(12):315-317,325-236. Mar.20,1968. 44.9 AL3
- 89925 LEENDERS, A. G. Modification of the dairy surpluses. 1. (Du) Ned. Zuivelbond. Offic. Orgaan 60(11):290-293. Mar.13,1968. 44.9 AL3  
European Common Market.
- 89926 MARTIN, W. Designing, planning, and executing promotion campaigns for dairy products. U. S. D. A. Econ. Res. Serv. ERS-274:41-44. 1966. A281.9 Ag83E
- 89927 OUWEHAND, D. Market research and extension indispensable to production development. (Du) Ned. Zuivelbond. Offic. Orgaan 60(9):234-236. Feb.28,1968. 44.9 AL3
- 89928 RAWAT, R. S. Transportation of market milk. Indian Dairyman 19(9):305-307. Sept.1967. 44.8 In282
- 89929 SIEGENTHALER, E. The market for milk specialties. (Ge) Agrarpolit. Rev. 23(1/2):43-51. Sept./Oct.1966. 281.8 Ag824  
Switzerland.
- 89930 U. S. CONSUMER AND MARKETING SERV. DAIRY DIV. Federal milk order market statistics, annual summary for 1967. U. S. D. A. Statist. Bull. 426,111 p.,map. May 1968. 1 Ag84St
- 89931 U. S. CONSUMER AND MARKETING SERV. DAIRY DIV. Summary of major provisions in Federal milk marketing orders, January 1, 1968. Washington, 1968. 76 p. aHD9282.U5A3

#### Grading, Inspection, Standardization, and Quality

- 89932 BADINGS, H. T. Ribes flavor in cheese. (Du) Ned. Zuivelbond. Offic. Orgaan 60(12):322-324. Mar.20,1968. 44.9 AL3  
English summary.
- 89933 BADINGS, H. T. Ribes flavor in cheese. (Du) Alg. Zuivelbl. 61(6):91,93-94. Mar.18,1968. 44.8 AL32  
English summary.  
Also called catty flavor.
- 89934 GOPINATH, G., and DASTUR, N. N. Regulations relating to dairy industry. Indian Dairyman 20(3):89-91. Mar.1968. 44.8 In282

- 89933 KERVINA, L. Fourth judging of quality of dairy products of Republic of Slovenia. (Se) *Mljekarstvo* 18(1):1-7. Jan.1968. 44.8 M694Ac
- 89936 KLUPSCH, H. J. Definition of the concept "raw milk quality" and practical methods for improving quality of raw milk. (Ge) *Deut. Molk.-Zeitung* 88(44):1801-1806. Ref. Nov.2, 1967. 44.8 Su2
- 89937 KOLMODIN, P. I. More milk of good quality. (Sw) *Hallands Lans Hushallningssallsk. Tidskr.* 10(6):25-28. Dec.1967. 11 H152  
Effects of sanitation of shelter and milking parlor; operation of milking machines; quality of feed.
- 89938 LYUBAVSKII, A. V. Improvement of milk quality. (Rus) *Uchet. Finansy Kolkhoz. Sovkhoz.* 2: 37-39. 1968. 30.69 Uc4
- 89939 MICEV, N. Why milk does not become sour by itself and which are the defects of sour milk. (Se) *Sovremeno Zemjod.* 14(4):16-17. Apr. 1967. S13.S6  
Includes bacteria and acids.
- 89940 MOCQUOT, M. Defects of cheese of the Gruyere type and their causes. (Fr) *Potasse* 42(353):63-68. Mar.1968. 57.8 P84
- 89941 POSTHUMUS, G. Detergent and disinfectant residues in milk. (Du) *Ned. Zuivelbond. Offic. Orgaan* 60(8):214-216. Ref. Feb.21,1968. 44.9 AL3
- 89942 SAITO, Z., IGARASHI, Y., and MIKAMI, H. Studies on the flavor defects of milk. I. Factors related with the development of hydrolytic rancidity. (Ja) *Hirosaki Univ. Fac. Agr. Bull.* 13:37-43. Ref. Mar.1967. 22.5 H613  
English summary.
- 89943 SARTORY, R., MALGRAS, J., and ROMOND, C. Contamination of fresh cheese by *Staphylococcus* of healthy porters. (Fr) *Inst. Pasteur Lille. Ann.* 17:189-192. 1966. 44.8.39 In7S
- 89944 SCHADE, H. Food regulatory and sanitary considerations on ice cream. (Ge) *ZSW (Zucker-Susswaren-Wirt.)* 20(1):21-22. Jan. 1967. 286.86 Z8
- 89945 SKREBLIYUKOV, I. E. Role of public sanitary inspectors in improving the sanitary conditions at dairy farms and the quality of their milk produce. *Hyg. Sanit.* 31(10/12):244-246. Oct./Dec.1966. RA421.G53  
Translation from *Gigiena i Sanitariya*. Issued by CFSTL.
- Packing and Packaging
- 89946 BERG, J. C. T. VAN DEN, Trends in the preparation of sterilized milk. (Du) *Veeteelt Zuivelber.* 10(5):185-189,199. May 1967. 49 V51  
Chiefly packing.
- 89947 FORSBERG, T. Milk containers. (Sw) *Var Naring* 44(9):19,31. 1967. 44.8 M692  
In Sweden.
- 89948 FORSEN, R. Judging the butter package. (Sw) *Mejeritidskrift* 29(2):44-48. Apr.1967. 44.8 M472  
German summary.  
Finland.
- 89949 PALO, V., HERIAN, K., and HRIVNAK, J. The effect of packing material on the quality of Bryndza cheese in the self-service stores. (Cz) *Prum. Potravin* 17(6):325-327. Ref. June 1966. TP368.P7  
English summary.
- Prices, Price Control, and Rationing
- 89950 DJORDJEVIC, M. The prices of milk and dairy products and the elasticity of consumption. (Se) *Mljekarstvo* 18(2):31-34. Feb.1968. 44.8 M694Ac
- 89951 GARRETT, E. M. The function and operation of licensed milk equalization. *S. Australian Dairymens J.* 7(3):22-31. Nov./Dec.1967. 44.8 So86
- 89952 MCGOUGH, J. C. Fall in skim milk powder prices. *Irish Agr. Creamery Rev. (n.s.)* 21(411): 7-8. Mar.1968. 44.8 C866
- 89953 RUSSELL, S. The seasonal pricing plan for milk. *J. Farm Econ.* 49(3):643-655. Aug. 1967. 280.8 J822
- Processing and Storage
- 89954 BALES, R. E., and HICKEY, J. L. S. Commercial processing of milk for concurrent removal of cationic and anionic radionuclides. *Seminar Radioisotop. Radiat. Dairy Sci. Technol. Proc.* 1966:121-145. Ref. SF223.S4 1966  
Includes discussion.
- 89955 BANERJEE, A. K., VERMA, I. S., and BAGCHI, B. Pilot plant for continuous manufacture of khoa. *Indian Dairymen* 20(3):81,84-86. Mar.1968. 44.8 In282  
A dairy product prepared by concentration of milk.
- 89956 BERNATONIS, I., and MITSKEKE, N. Milk protein alteration in souring by some starters. (Rus) *Izv. Vyssh. Ucheb. Zaved. Pishch. Tekhnol.* 3(58):78-80. 1967. 389.8 IZ8
- 89957 BERRY, C. R. Structural changes occurring in fluid milk processing. *Ark. Farm Res.* 17(2):7. Mar./Apr.1968. 100 Ar42F
- 89958 BRAZ, W. R. How to avoid acid milk. (Por) *Inst. Laticinios Candido Tostes. Rev.* 23(136): 16-17. Jan./Feb.1968. 44.8 F33  
Handling and sanitation.
- 89959 CANADA, BUR. OF STATISTICS. Process cheese manufacturers 1964. Ottawa, 1966. 25 p. (Annual Census of Manufactures) 253 St262  
Text also in French.
- 89960 CONOCHIE, J. Improved air-filter unit for bulk-starter vessels. *Australian J. Dairy Technol.* 22(1):48-50. Mar.1967. 44.8 Au74  
For cheese manufacture.
- 89961 CZULAK, J., and FREEMAN, N. H. A commercial continuous cheddaring machine. *Australian J. Dairy Technol.* 22(1):6-11. Mar. 1967. 44.8 Au74
- 89962 DAVIS, J. G. Modern yoghurt—manufacture and control. *Irish Agr. Creamery Rev. (n.s.)* 21(411):19-23. (Cont.) Mar.1968. 44.8 C866
- 89963 EISENREICH, L. The contribution of technology to the structural improvement of the dairy industry. (Ge) *Deut. Molk.-Zeitung* 88(43): 1766-1770. Oct.26,1967. 44.8 Su2
- 89964 FEXA, J., ROSENBAUM, M., and TREND, O. Automatic control of the fat content of cream in separators. (Cz) *Prum. Potravin* 17(6):316-321. June 1966. TP368.P7  
English summary.
- 89965 HOFFER, H. Chemical and physical criteria of the customary disinfectants in the dairy industry. (Ge) *Osterr. Milchwirt.* 22(11): 193-197. June 7,1967. 44.8 Os72
- 89966 JOOST, K., BERTELSEN, E., and BRESBY, G. Undersökningar om aktuella renskumningsproblem. Investigations of current skimming efficiency problems. *Svenska Mejeriernas Riksför. Produkttekn. Adv. Medd.* 89,18 p. 1968. 44.9 Sv23  
English summary.
- 89967 KNEZ, V., and OLSANSKY, C. Current state of the mechanization of cheese manufacturing in Czechoslovakia. (Cz) *Prum. Potravin* 17(6): 289-294. Ref. June 1966. TP368.P7  
English summary.
- 89968 KOLK, H. VAN DER. Powder losses in the drying air. (Du) *Ned. Zuivelbond. Offic. Orgaan* 60(5):128-130. Jan.31,1968. 44.9 AL3  
English summary.  
Milk.



- 89969 KOSIKOWSKI, F. V. The potentialities of radioisotopes and radiation for the dairy industry. Seminar Radioisotop. Radiat. Dairy Sci. Technol. Proc. 1966:3-13. Ref. SF223.S4 1966  
In food preservation.  
Discussion, p.29-33.
- 89970 KRCAL, Z., and PORUBIAKOVA, J. Study of the effect of carbon dioxide on the processing of milk. (Cz) *Prum. Potravin* 17(6):310-312. June 1966. TP368.P7  
English summary.  
Effect on microorganisms.
- 89971 LAMY, J. Applications of electrodialysis in the dairy industry. (It) *Mondo Latte* 22(2):101-104. Feb.1968. 44.8 M74
- 89972 MAGNUSSON, F. Ultra pasteurization and aseptic packaging of milk and cream. (Sw) *Var Naring* 44(9):24,26. 1967. 44.8 M692  
Includes equipment.
- 89973 MCDONOUGH, F. E. Whey concentration by reverse osmosis. *Food Eng.* 40(3):124-127. Mar.1968. 389.8 F737
- 89974 MCLAUCHLAN, G. Dairy processing given research boost. *New Zeal. J. Agr.* 114(3):15-17. Mar.1967. 23 N48J  
Dairy Research Institute (New Zealand).
- 89975 MERGL, M., CERNA, E., and KUCERA, M. Utilization of enzymes in dairy industry. (Cz) *Prum. Potravin* 17(6):313-316. Ref. June 1966. TP368.P7  
In cheese manufacture.
- 89976 MICEV, N. Conditions for the improvement of sour milk. (Se) *Sovremeno Zemjod.* 14(5):12-13. May 1967. S13.S6
- 89977 MILETIC, S. Free amino acids during the process of ripening of some Yugoslav cheeses. (Se) *Mljekarstvo* 18(2):25-31. Feb.1968. 44.8 M694Ac  
English summary.
- 89978 MOL, J. J., and SCHAAP, J. E. Continuous preparation of sterilized and aseptically packed whipping cream. (Du) *Ned. Zuivelbond. Offic. Orgaan* 60(9):238-241. Feb.28,1968. 44.9 AL3
- 89979 MULDER, H. Scientific tracing is necessary! (Du) *Alg. Zuivelbl.* 61(6):79-81,83. Mar.18, 1968. 44.8 AL32  
Dairy industry research.
- 89980 MULLER, L. Li, and others. Studies on co-precipitates of milk proteins. 1-2. *Australian J. Dairy Technol.* 22(1):12-21. Ref. Mar. 1967. 44.8 Au74  
J. F. Hays, N. Snow, and J. A. Dunkerley, joint authors.  
1, Manufacture with varying calcium contents; 2, A simple method for estimation of calcium.
- 89981 NIELSEN, V. H. Preventing off-flavors in butter. *Amer. Dairy Rev.* 30(5):65-66. May 1968. 44.8 Am38  
Caused by copper contamination and pH.
- 89982 OBUKHOV, P. A. Technological line for getting pasteurized milk on the farm. (Rus) *Vses. Nauch.-Issled. Inst. Zhivotn. Tr.* 30:277-284. 1967. 49.9 R92  
In U.S.S.R.
- 89983 O'CONNOR, F. Milk powder—production boom. *Irish Agr. Creamery Rev.* (n.s.)21(411):9-11. Mar.1968. 44.8 C866
- 89984 PARKASH, S. Effect of various heat treatments on the freezing point of milk of three species. *Indian J. Dairy Sci.* 19(4):181-182. Dec.1966. 44.8 In28  
Buffalo, cow, and goat milk.
- 89985 POLLHEIMER, W. New working methods in the Emmental cheese factory. (Ge) *Osterr. Milchwirt.* 22(11):197-199. June 7,1967. 44.8 Os72
- 89986 RAMMELL, C. G., and SPLITE, A. Partition of iodine between iodophors and n-heptane. Assessment of iodine vapour pressure and stability of iodophors. *Australian J. Dairy Technol.* 22(1):34-35. Mar.1967. 44.8 Au74
- 89987 RETTL, C. Study on the presumed yield in relation to real yield in manufacture of Mozzarella. (Por) *Inst. Laticinios Candido Tostes. Rev.* 23(136):7-8. Jan./Feb.1968. 44.8 F33
- 89988 SAMSONOV, N. A. Using yeasts to improve storing qualities of butter. (Rus) *Moloch. Prom.* 2:32-35. Feb.1968. 44.8 M734
- 89989 SEMINAR ON RADIOISOTOPES AND RADIATION IN DAIRY SCIENCE AND TECHNOLOGY, VIENNA, 1966. Radioisotopes and radiation in dairy science and technology; proceedings of a seminar—jointly organized by the International Atomic Energy Agency and the Food and Agriculture Organization of the United Nations and held in Vienna, 12—15 July 1966. Vienna, International Atomic Energy Agency, 1966. 258 p. Ref. SF223.S4 1966  
Includes radiation control.
- 89990 SHIH, C. H. Studies on the quality and storage of imitated, natural and mixed pineapple juice milk. (Ch) *J. Agr. Forest.* 15:265-280. Ref. Oct.1966. 22.5 J823  
English summary.
- 89991 STEWART, J. A. One simple remedy for low S. N. F. [solids-not-fat]. *Dairyfarming Dig.* 14(1):14,38. Feb.1967. 44.8 D1443  
Prevention of addition of water.
- 89992 STOUTJESDUJK, J. F. The removal of radioactive strontium from milk with columns of Ca3 (PO4)2. Seminar Radiosotop. Radiat. Dairy Sci. Technol. Proc. 1966:111-120. Ref. SF223.S4 1966  
Discussion, p.137-145.
- 89993 SURKOV, V. D., and KOMLYAKOV, G. A. The effect of multistage milk homogenization using ascending and descending regimes of pressure. (Rus) *Izv. Vyssh. Ucheb. Zaved. Pishch. Tekhnol.* 3(58):71-74. 1967. 389.8 IZ8
- 89994 TUNG, T. H., REU, L., and MILLAR, R. H. A location programming model of the Colorado dairy industry. *Colo. Agr. Exp. Sta. Tech. Bull.* 99,22 p.,map. Ref. May 1968. 100 C71S  
Milk processing costs.

## Statistics

- 89995 FLORIDA. CROP AND LIVESTOCK REPORTING SERV. Florida agricultural statistics; dairy summary 1966. Orlando, 1966. 19 p., map. 281.8 F654
- 89996 FREBLING, J., and others. The method of calculating milk production indices. III. Justification of correction factors utilized. (Fr) *France Min. Agr. Bull. Tech. Inform.* 222:633-645. Ref. Sept.1967. 14 F844B  
J. Poly, M. Poutous, and J. J. Chambeyron, joint authors.
- 89997 LENCO, M. M., and others. Study of the amount and use of farm milk production. (Fr) *France. Inst. Nat. Statist. Etudes Econ. Etudes Conjoncture* 22(10):37-119. Oct.1967. 280.8 F84  
D. Brissaud, O. Tissier, M. Brunet, and M. Rohon, joint authors.  
Includes seasonal changes in milk production, milk production based on fat content, and other related statistical data.

## FEED AND FORAGE CROPS

- 89998 AMBROSOV, V. Economic grading of feeds. U.S. Joint Publ. Res. Serv. Transl. USSR Agr. 224:12-15. Nov.16,1967. (JPRS 43,343; TT 67-33967) 173 J663Tso  
Translation from *Ekonomika Sovetskoy Ukrainy* 8:83-86. Aug.1967.  
Issued by CFSTI.
- 89999 BACHMANN, F. Magnesium in Swiss green and processed feed. (Ge) *Schweiz. Landwirt. Forsch.* 7(1):95-106. 1968. 17 Sch99  
English summary.  
Hay.

- 90000 BAHTIJAREVIC, E. On the production of Torula feed yeast in the light of needs of industry of feed concentrates. (Se) Poljoprivredni Pregl. 15(7/8):249-253. July/Aug.1966. 21.5 P753  
Torula utilis.
- 90001 BREGLIA, G. Prices of feed grain and of meat (It) Inform. Zootec. 14(23):17. Dec.15,1967. 49 In3  
In relation to conditions on the Common Market.
- 90002 BUHUTS'KYI, O. A., ROMANENKO, I. N., and ZHIHALO, L. F. Possibilities of increasing feed production and lowering costs on the collective and state farms in the Ukraine. (Uk) Visn. Sel's'kohospod. Nauk. 9:15-24. Sept. 1966. 20 V82  
Russian summary.
- 90003 DYBOWSKI, A. New measures for securing and increasing the quality of industrially produced mixed feed. (Ge) Tierzucht 21(6):320-324. June 1967. 49 T443
- 90004 FASSETT, D. W. Nitrates and nitrites. In Toxicants occurring naturally in foods, p.250-256. Ref. 1966. TX531.T6  
In feed.
- 90005 FEED BAG red book; reference book for the feed industry; buyers guide for 1968. Milwaukee, Wisconsin, 1968. 224 p. 389.78 F322
- 90006 GERSTENBERG, E., NIELEBOCK, W., and SCHULZ, G. Some economic problems in the future development of rough and juicy forage and its supply in the German Democratic Republic. (Ge) Z. Agrarikon. 10(5):254-265. Ref. 1967. 281.8 Z3
- 90007 GITINS, L. Fishmeal—modern manufacturing processes. Food Mfr. 43(5):41-47. Ref. May 1968. 389.8 F736
- 90008 HONG, L., and KAWAMURA, N. The compression and solidity of the plant. II. Rheological behaviour of compressed plants. (Ja) Soc. Agr. Mach. Jap. J. 29(4):225-230. Mar.1968. 58.9 S01  
English summary.  
Forage plants.
- 90009 HUMPHRIS, C. Maintaining stockfeed quality. Agr. Gaz. New S. Wales 78(5):274-277. May 1967. 23 N472
- 90010 KAL'MYKOV, S. I., and KHON, K. V. Determining flourine in liquated phosphates used for feeding. (Rus) Khim. Sel'skom Khoz. 5(6):54-57. Ref. June 1967. 385 K524
- 90011 KENTUCKY. AGRICULTURAL EXPERIMENT STATION. Commercial feeds in Kentucky, 1967. Ky. Agr. Exp. Sta. Regulat. Bull. 198, 32 p. May 1968. 100 K41  
Analysis and inspection.
- 90012 KOHLER, G. O., KNOWLES, R. E., and LIVINGSTON, A. L. An improved analytical procedure for the determination of xanthophyll. Ass. Offic. Anal. Chem. J. 50(3):707-711. Ref. June 1967. 381 As7  
In alfalfa and grass meal.
- 90013 LAGERVALL, M., and LARSSON, L. Quality, drying and storage of forage grain. (Sw) Lantmannen 78(14/15):22-23. July 8,1967. 11 L234
- 90014 LITTLE, E. C. S., and HENSON, I. E. The water content of some important tropical water weeds. PANS (Pest Articles News Sum.) Sect. C Weed Contr. 13(3):223-227. Sept.1967. 79.9 G792  
With reference to their value as feed.
- 90015 LIVANOV, K., and SINCHUGOV, A. Legume culture as source for feed. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 4:24-25. Apr.1967. 281.8 Se4  
Statistics chiefly.
- 90016 LUDTKE, F. Handling feed concentrates. (Sw) Svensk Husdjursskotsel Ladugard. 12:488-490. Dec.1967. 44.8 L12
- 90017 MILOHNOJA, M. Sanitary quality of feed and microbiological norms. (Sl) Soc. Kmetijstvo Gozdarstvo 18(1):12-14. Jan.20,1967. 21.5 S014
- 90018 MINNEMAN, P. G. West Germany's mixed feed industry keeps growing. Foreign Agr. 6 (28):13. July 8,1968. A281.9 F76Fo
- 90019 NJAA, L. R., UTNE, F., and BRAEKKAN, O. R. Protein quality of herring meal. Int. Congr. Nutr. Proc., 7th Congr., v.5:218-222. 1966, pub. 1967. TX345.153 1966
- 90020 RENOUS, D., STEINER, J. P., and ZWOBADA, F. Determination of extraction solvents in oil-cakes. (Fr) Rev. Franc. Corps Gras 15(2):81-83. Feb.1968. 307.8 R32  
English summary, p. 105.
- 90021 RIGGS, D. W. Dutch mixed feed industry adapts to changing times. Foreign Agr. 6(25):2-4. June 17,1968. A281.9 F76Fo
- 90022 ROSS, J. S. Hay prices—predicting their change. U. S. D. A. Econ. Res. Serv. Feed Situation. FdS-223:23-28. Apr.1968. 1.941 S8F32
- 90023 SCHOTHORST, M. VAN, and others. A practical procedure for the evaluation of the sanitary condition of processed mixed feed ingredients by means of an Enterobacteriaceae-enrichment test. (Du) Landbouwkundig Tijdschr. 79(3):67-74. Ref. 105.2 Or3  
D. A. A. Mossel, E. H. Kampelmacher, and E. F. Drion, joint authors.  
English summary.
- 90024 SIEVERT, C. W. Amino acid table. Feed Bag Red Book 1968:129. 389.78 F322  
In feed.
- 90025 SIEVERT, C. W., comp. Feed ingredient analyses. Feed Bag Red Book 1968:125-128. 389.78 F322
- 90026 STOSIC, D., and CUPERLOVIC, M. Results of the determination of volume of amino acids in feed by analytical methods. (Se) Savremena Poljoprivreda 15(3):197-205. Ref. Mar.1967. 21 P75  
English summary.
- 90027 TESKEY, A. G. The economics of feed storage. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:202-207. 64.9 On83
- 90028 TULPUL, P. G. The problem of aflatoxin in groundnut. Indian Farming 17(9):41-43. Dec. 1967. 22 In283  
Aspergillus flavus in peanut meal feed.
- 90029 VAN DER VEEN, J., HIROTA, K., and OLCOTT, H. S. Comparison of column chromatographic methods for the quantitative determination of mono- and digalactodiglycerides in fresh alfalfa (Medicago sativa). Lipids 2(5):406-410. Ref. Sept.1967. QP751.L5
- 90030 VOSLOH, C. J. Costs and economies of scale in feed manufacturing. U. S. D. A. Marketing Res. Rep. 815,66 p. 1968. 1 Ag84Mr  
Size of industry.

## FIBERS AND TEXTILES

- 90031 ADAMEK, F. Possibilities of the enrichment of the textile market. Textil [Prague] 22(5):161-163. 1967. 304.8 T3157  
In Czechoslovakia.
- 90032 AMICK, R. J., and others. Cotton; the effects of allotments on supply and farm resource use. S. Coop. Ser. 128,81 p.,map. Ref. May 1968. 100 G29So  
C. P. Butler, P. L. Strickland, and J. H. White, joint authors.  
Agricultural Experiment Stations of Alabama, Arkansas, Georgia, Kentucky, Louisiana, Mississippi, Missouri, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, and Virginia; and U. S. Department of Agriculture, cooperating.  
Acreage.
- 90033 ANDERSON, R. F. Consumption of cotton by Georgia mills, season of 1964-65. Ga. Agr. Exp. Sta. Res. Bull. 6,31 p. May 1967. S51.E2



- 90034 BANDYOPADHYAY, S. B. Quality assessment of jute and mesta yarns from their fiber properties. Textile Res. J. 38(2):135-141. Feb. 1968. 304.8 T293
- 90035 BENERITO, R. R. Inconsistencies in theories of resiliency in chemically treated cotton. Textile Res. J. 38(3):279-292. Ref. Mar. 1968. 304.8 T293
- 90036 BENINATE, J. W., and others. Conventional pad-dry-cure process for durable-flame and wrinkle resistance with tetrakis (hydroxymethyl) phosphonium hydroxide (THOPH). Textile Res. J. 38(3):267-272. Ref. Mar. 1968. 304.8 T293  
E. K. Boylston, G. L. Drake, and W. A. Reese, joint authors.
- 90037 BENISEK, L. Felting-proof and shrink-resist finishing of wool by means of oxidation, reduction and hydrolytic processes. (Cz) Textil [Prague] 22(7):265-267. 1967. 304.8 T3157  
English summary.  
In Czechoslovakia.
- 90038 BENISEK, L. Feltproofing and shrinkproofing of wool with natural and synthetic polymers. (Cz) Textil [Prague] 23(4):143-145. 1968. 304.8 T3157  
English summary.
- 90039 BENTO, A. A. Grading of wool in batches of fleece destined for industry. (Por) Port. Dir. Geral Serv. Pecuários. Bol. Pecuário 35(1):111-120. 1967. 41.8 P83
- 90040 BLACKLEY, S. R. The marketing of wool and competition with synthetic fibers. (Fr) Mouton 23(3):25-26. Mar. 1968. 45.8 M86
- 90041 BLAZEJ, A., and GAZOVA, J. Collagen fibers as a raw material for textiles. (Cz) Textil [Prague] 22(1):5-8. Jan. 1967. 304.8 T3157  
English summary.  
Collagen from leather waste.
- 90042 BOERE-SAAMWERK, BEPERK. (PORT ELIZABETH). Summary of the annual report for the year ended 30th June, 1966. Wolboer 20(6):28-29. Jan. 1967. 45.8 W83  
Text in Afrikaans, 20(5):35,37. Dec. 1966.  
Chiefly its production of wool, mohair, Karakul pelts, and sheepskins.
- 90043 BRAY, J. M. Local cotton production and traditional weaving in Western Nigeria. Empire Cotton Growing Rev. 44(4):265-268. Oct. 1967. 72.8 Em7
- 90044 BROOKS, R. C., and JOHNSON, W. G. Marketing high IQ [Improved Quality] cotton for the highest price. N. C. Univ. Ext. Leaflet 145, 6 p.-folder. July 1968. 275.29 N811L
- 90045 BUCK, G. S. Marketing cotton on measured fiber properties. Empire Cotton Growing Rev. 44(4):289-297. Oct. 1967. 72.8 Em7
- 90046 CAMPBELL, D., WILLIAMS, J. L., and STANNETT, V. Radiation grafting of vinyl monomers to wool. Advances Chem. Ser. 66:221-239. Ref. 1967. 381 Ad93
- 90047 CHAKRAVARTY, A. C. Microscopical study of rupture mechanism in jute fibres under tensile loading. Indian J. Technol. 5(10):333-334. Oct. 1967. 475 In22
- 90048 CHEN, C. S. H., JANKOWSKI, S., and BROTHER, A. Photolytic degradation of cellulose triacetate. Advances Chem. Ser. 66:240-255. Ref. 1967. 381 Ad93  
Use of ultra-violet rays.
- 90049 DAKIN, G. Drawing and spinning of short fibres—at Basle—and tomorrow. Textile Inst. Indus. 6(3):67-68. Mar. 1968. 304.8 T3133
- 90050 DEGELMANN, R. K. Quality control standard in cotton spinning. II. (Ge) Spinner Weber Textilveredlung 86(2):119-122. Feb. 1968. 304.8 Sp41
- 90051 DORSET, B. C. M. Increasing the resistance of wool to felting and shrinking. Textile Manufacturer 94(1117):24-30. Jan. 1968. 304.8 T3126
- 90052 DRIFANENKO, S. M. Drying flax stock in stacks. (Rus) Len Konoplya 12:26-27. 1967. 73.8 L542
- 90053 FOMENKO, L. D. The evenness of raw material as factor of the high quality fibers. (Rus) Len Konoplya 12:24-26. 1967. 73.8 L542  
Flax.
- 90054 FRASER, J. D. Production and market prospects for wool. Ruakura Farmers Conf. Week Proc. 1967:132-140. Apr. 9, 1968. 49.9 R82  
In New Zealand.  
Includes discussion.
- 90055 GARNER, W. Textile laboratory manual. Volume 5. Fibres. London, Heywood Books, 1967. 265 p. TS1449.G3  
Bibliography, p.247-252.  
Fiber types and analysis.
- 90056 GOODINGS, A. C. A method for the measurement of the rigidity of fibers immersed in liquids. Textile Res. J. 38(2):123-129. Feb. 1968. 304.8 T293
- 90057 GRANT, J. N., and others. Abrasion and tensile properties of cross-linked cotton fabrics. Textile Res. J. 38(3):217-225. Ref. Mar. 1968. 304.8 T293  
F. R. Andrews, L. C. Weiss, and C. B. Hassenboehler, joint authors.
- 90058 GUPTA, K., and SULE, A. D. Role of free sulphur and lanthionine in canary colouration of raw wools. Indian J. Technol. 5(11):359-361. Ref. Nov. 1967. 475 In22
- 90059 HARPER, R. J., BRUNO, J. S., and REEVES, W. A. Application of mechanisms for wet and dry wrinkle recovery to fabric exhibiting the unusual combination of high dry and low wet recovery. Textile Res. J. 38(3):292-304. Ref. Mar. 1968. 304.8 T293  
Cotton.
- 90060 HUTCHINSON, W. B. Raw cotton marketing. In Warley, T. K., ed. Agricultural producers and their markets, p.191-204. 1967. HD9000.1.W3
- 90061 INGLIS, A. S., and SIMPSON, R. J. Studies in wool yellowing. XIX. Improved stability of fluorescent-brightened fabrics to simulated sunlight. Textile Res. J. 38(2):109-117. Ref. Feb. 1968. 304.8 T293
- 90062 IREDALE, J. A., and ROBINSON, R. A. Australian, Cape and South American wool tops. Textile Manufacturer 94(1117):3-5. Jan. 1968. 304.8 T3126
- 90063 JEFFRIES, R., ROBERTS, J. G., and ROBINSON, R. N. Accessibility and reaction sites in cotton. Textile Res. J. 38(3):234-244. Ref. Mar. 1968. 304.8 T293  
Cotton cellulose.
- 90064 JONES, M. V., and CLAYTON, L. B. Supplement for 1967 to wool statistics and related data, 1920-64. U. S. D. A. Statist. Bull. 363(sup.), 124 p. May 1968. 1 Ag84St
- 90065 JOUBERT, F. J., and BURNS, M. A. C. The fractionation of the high-sulphur proteins of reduced Merino wool by column chromatography. S. Afr. Chem. Inst. J. 20(2):161-173. Ref. Oct. 1967. 385 So84
- 90066 KAMEL, M., KANTOUCH, A., and HEBEISH, A. Studies on partially carboxymethylated cotton. IV. Degradation of cotton. Indian J. Technol. 5(10):324-325. Ref. Oct. 1967. 475 In22
- 90067 KASSENBECK, P., and HAGEGE, R. Contribution to the electron-microscope study of the fine structure of cellulose fibers by means of ultramicrotomy. Textile Res. J. 38(2):196-204. Ref. Feb. 1968. 304.8 T293
- 90068 KULKARNI, M., SHAH, R. C., and GANDHI, R. S. Utilizing sodium ion electrode to determine sodium ions in presence of dissolved wool solutions. Textile Res. J. 38(3):307-310. Mar. 1968. 304.8 T293
- 90069 KUWAHARA, A. Studies on the abnormal silk. III. On the fine structure. (Ja) J. Sericult. Sci. Jap. 37(1):1-5. Feb. 1968. 425.9 Se6  
English summary.
- 90070 LENNOX, F. G., and LEACH, S. J. Progress in important CSIRO research to improve physical properties and color fastness of wool. Textile J. Australia 43(1):47-48. Jan. 1968. 304.8 T3134

- 90071 MACDONALD, A. S. Some statistical aspects of cotton production in Uganda. *Empire Cotton Growing Rev.* 44(2):105-113. Apr.1967. 72.8 Em7
- 90072 MANSOUR, M. The importance of cotton to the Egyptian economy. *Textile Forum* 25(4):16-20, 22. Dec.1967/Jan.1968. 304.8 T3191
- 90073 MILES, T. D., and DELASANTA, A. C. Durable non-reactive flame-retardant finishes for cotton. *Textile Res. J.* 38(3):273-279. Mar.1968. 304.8 T293
- 90074 MOORE, L. World situation and outlook for cotton. In Warley, T. K., ed. *Agricultural producers and their markets*, p.179-190. 1967. HD9000.1.W3
- 90075 MURUKANDY, J. Coir mats v/s packaging. *Coir* 11(4):25-27. July 1967. 286.80 C66  
Individual packaging as an aid to sales.
- 90076 NORDON, P., and others. A laboratory study of dry chlorination of wool at atmospheric pressure. I-II. *Soc. Dyers Colour. J.* 84(1):26-32. Jan.1968. 306.9 Sol  
N. W. Bainbridge, K. Baird, and R. A. Foulds, joint authors.  
Shrink-proofing.
- 90077 O'BRIEN S. J. Cyanamide-based durable flame-retardant finish for cotton. *Textile Res. J.* 38(3):256-266. Mar.1968. 304.8 T293
- 90078 PATEL, S., and others. Investigation on the chemical constitution of cotton cross-linked with formaldehyde. *Textile Res. J.* 38(3):226-234. Ref. Mar.1968. 304.8 T293  
J. Rivlin, T. Samuelson, O. A. Stamm, and H. Zollinger, joint authors.  
For creaseproofing.
- 90079 PEREIRA, G. The present situation and prospects for the future of wool. (Por) *Port. Dir. Geral Serv. Pecuarios. Bol. Pecuario* 35(1):17-37. 1967. 41.8 P83  
English summary.
- 90080 PETERSEN, H. Reaction mechanisms, structure, and properties of methylol compounds in cross-linking cotton. *Textile Res. J.* 38(2):156-176. Feb.1968. 304.8 T293
- 90081 PINCHUM, M. I., and KUZ'MINA, A. G. How to estimate flax fiber resources. (Rus) *Len Konoplya* 12:21-23. 1967. 73.8 L542
- 90082 PRADE, J. Experiences in the spinning of chemical fibers on the three-cylinder cotton spinning system. (Ge) *Spinner Weber Textilveredlung* 85(6):511-514. (Cont.) June 1967. 304.8 Sp41
- 90083 RADHAKRISHNAN, T., and PATIL, N. B. Azimuthal splitting of equatorial X-ray reflections from cotton. *Textile Res. J.* 38(2):209-210. Feb.1968. 304.8 T293
- 90084 RAES, G., FRANSEN, T., and VERSCHRAEGE, L. Study of the reversal phenomenon in the fibrillar structure of the cotton fiber. *Textile Res. J.* 38(2):182-195. Ref. Feb.1968. 304.8 T293
- 90085 RANGADASAPPA, T. Coir industry in Mysore State. *Coir* 11(4):9-13. July 1967. 286.80 C66
- 90086 REST, J. Use of synthetic fibres in conjunction with wool. *Textile Manufacturer* 94(1117):9-11. Jan.1968. 304.8 T3126
- 90087 SAMARIN, N. S. Simple, inexpensive and practical. (Rus) *Len Konoplya* 12:28. 1967. 73.8 L542  
Flax drying.
- 90088 SANTLEY, J. C. World cotton situation. *Empire Cotton Growing Rev.* 45(1):54-60. Jan.1968. 72.8 Em7  
Production, surpluses, and marketing.
- 90089 SERRA, F., and ROCA, J. The short fiber index obtained by the Digital Fibrograph. (Sp) *Cent. Algodonero Nac. Circ. Inform.* 69:13-16. May/June 1967. 281.3729 C33
- 90090 SHAH, R. C., and GANDHI, R. S. Utilizing silver electrode to determine the chloride ion concentration in dissolved wool solutions. *Textile Res. J.* 38(3):313-315. Mar.1968. 304.8 T293
- 90091 SIMOR, P. Properties of flax tow yarn and textiles—dry spinning research. (Ge) *Spinner Weber Textilveredlung* 86(2):123-126. Feb. 1968. 304.8 Sp41
- 90092 SMIT, J. H., SMITH, J. H., and DE VRIES, M. J. Adsorptive properties of cellulose acetate. II. *S. Afr. Chem. Inst. J.* 20(2):144-148. Ref. Oct.1967. 385 So84
- 90093 SOARES, L. P., and LIBONATI, V. F. Actual problems of Amazonian jute culture. (Por) *Pesquisa Agropecuar. Brasil.* 1:1-6. 1966. S15P42  
English summary.
- 90094 SONG, K. Y. Studies on the tussah silk reeling method. V. (Ko) *Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep.* 10(6):71-74. Sept.1967. 22.5 K843  
English summary.
- 90095 SOUTH AFRICAN WOOL BOARD. Annual report, 20th, 1965-1966. (Af) *Wolboer* 20(6):16 p.following p.24. Jan.1967. 45.8 W83  
Text in Afrikaans, 20(5):16 p.following p.30. Dec.1966.
- 90096 SOUTH AFRICAN WOOL BOARD. 1966-67 annual report. *Wolboer* 21(6), 20 p. insert at centerfold. Jan.1968. 45.8 W83  
Text in Afrikaans, 21(5):20 p. insert at centerfold. Dec. 1967.
- 90097 SOUTH AFRICAN WOOL COMMISSION. Annual report for the financial year 1966-67. n.p., 1968. 15 p. 281.3459 So84A
- 90098 SOUTH AFRICAN WOOL COMMISSION. Annual report for the financial year 1965-66, 6th. *Wolboer* 20(7):31-44. Feb.1967. 45.8 W83  
Text in Afrikaans, 20(6):35-48. Jan.1967.
- 90099 SOUTH AFRICAN WOOL COMMISSION. Statistical analysis of the South African wool clip for the 1965/66 season. *Wolboer* 20(7):25-30. Feb.1967. 45.8 W83
- 90100 SUVOROV, V. N. The results of analysis. (Rus) *Len Konoplya* 12:19-21. 1967. 73.8 L542  
Flax industry in USSR.
- 90101 SWART, L. S., JOUBERT, F. J., and HAYLETT, T. A comparative study of the proteins of adult mohair, kid mohair and kemp. *S. Afr. Chem. Inst. J.* 20(2):132-143. Ref. Oct.1967. 385 So84
- 90102 SYMPOSIUM ON IRRADIATION OF POLYMERS, PITTSBURGH, 1966. [Papers]. *Advances Chem. Ser.* 66, 275 p. 1967. 381 Ad93  
Sponsored by the Division of Industrial and Engineering Chemistry at the 151st meeting of the American Chemical Society.  
Fibers included.
- 90103 TALLANT, J. D., and PITTMAN, R. A. Breakage models and measuring techniques for fiber weight-length distributions. *Textile Res. J.* 38(2):149-155. Ref. Feb.1968. 304.8 T293  
Cotton.
- 90104 TALLANT, J. D., and PATUREAU, M. A. Harmonic response of the Uster spectrograph. *Textile Res. J.* 38(2):208-209. Feb.1968. 304.8 T293  
Yarn analysis.
- 90105 TESORO, G. C., SELLO, S. B., and WILLARD, J. J. Flame-retardant properties of phosphate derivatives of cotton cellulose. *Textile Res. J.* 38(3):245-255. Ref. Mar.1968. 304.8 T293
- 90106 UNDERWOOD, C. Spinning very small samples of cotton. *Empire Cotton Growing Rev.* 44(3):213-216. Ref. July 1967. 72.8 Em7
- 90107 VALOTA, A. Cause and remedy of gauze breaking on cotton cards. (It) *Indus. Cotoni- era* 2(3):191-195. Mar.1967. HD9886.I815
- 90108 WALLACE, R. Fabric tips; wash and wear. *Ky. Univ. Ext. Leaf.* 304, 6 p.-folder. May 1968. 275.29 K415Le
- 90109 WHITAKER, P. B. F. Non-woven fabrics: new techniques and materials. *Textile Manufacturer* 94(1117):12-13. Jan.1968. 304.8 T3126



## FRUITS, VEGETABLES, AND NUTS

- 90110 AGATHANGELIDES, D. Potential for apple production in northern Utah. Wash. State Hort. Ass. Proc. 1967:108-109. 81 W273
- 90111 AUVIL, G. Changes in horticulture. Wash. State Hort. Ass. Proc. 1967:58-59. 81 W273 Fruit industry.
- 90112 AUWERA, G. VAN DER. The production and marketing of witloof. (F1) Tuinbouwberichten 31(11):376-377. Nov.1967. 80 T817
- 90113 BARBUT, M. French horticultural production. (Fr) Rev. Agr. France 70:12-13,15-16. Feb. 1968. 14 R326 Situation and statistics.
- 90114 BASIEV, O. A. Fruit industry in the northern Osetia. (Rus) Sadovodstvo [Moscow] 10:4-5. Oct.1967. 80 Sa13
- 90115 BESLANEEV, V. D., and KAIROV, A. K. Kabbardino-Blakar USSR's fruit source. (Rus) Sadovodstvo [Moscow] 10:8-10. Oct.1967. 80 Sa13
- 90116 BRUNK, M. E. Profile and prospects in apple products - 1967 to 1975. N. Y. State Hort. Soc. Proc. 113:133-141. 1968. 81 N484
- 90117 BRUNK, M. E. Time to put the nuts and bolts together. N. Y. State Hort. Soc. Proc. 113:194-198. 1968. 81 N484 Apple industry and market.
- 90118 BURTON, W. G. The potato; a survey of its history and of factors influencing its yield, nutritive value, quality and storage. Ed. 2, completely rev. Wageningen, Veenman & Zonen, 1966. 382 p. SB211.P8B8 1966 Bibliography, p.311-362. Includes culture and biology.
- 90119 CALIFORNIA CANNING PEAR ASSOCIATION. 1968 annual. Santa Clara, 1968. 64p. 286.3939 P31 Pear Zone Number 1, Central Coast Pear Association, and Pear Growers League, Incorporated, cooperating agencies. Includes statistics.
- 90120 CHADWICK, T. M. The outlook for wine grapes in N. Y. State. N. Y. State Hort. Soc. Proc. 113:294-296. 1968. 81 N484
- 90121 COCHRAN, L. C. Current trends in fruit production and factors which influence them. Wash. State Hort. Ass. Proc. Dec.5-7,1966: 31-38. 81 W273
- 90122 DALRYMPLE, D. M. The future of the Concord grape industry. N. Y. State Hort. Soc. Proc. 113:286-293. 1968. 81 N484 Emphasis on prices of grapes for processing.
- 90123 DANIYALOV, A. D. Dagestan—an orchard of the Russian Federation. (Rus) Sadovodstvo [Moscow] 10:1-3, map. Oct.1967. 80 Sa13 Fruit industry.
- 90124 DEHNE, J. On further development of cooperative relations in the research of vegetables within the framework of agriculture and food production. (Ge) Deut. Gartenbau 15(1):15-17. Jan.1968. 80 G1948
- 90125 DOMINICK, B. A. The pear situation in New York. N. Y. State Hort. Soc. Proc. 113:150-154. 1968. 81 N484
- 90126 ECKERT, C. E. The National Apple Institute program. N. Y. State Hort. Soc. Proc. 113:184-185. 1968. 81 N484 Research and advertising.
- 90127 EDMONDSON, M. Golden Delicious. Wash. State Hort. Ass. Proc. 1967:197. 81 W273 Production regions and marketing.
- 90128 ERDEI, F. Production regions of vegetable in Hungary. (Hu) Kertesz. Szoleszeti Foiskola. Kiadv. 3(1):129-141. 1966. SB13.K4
- 90130 FRUIT and vegetable film directory; list of 185 motion pictures, dealing directly or indirectly with fruits and vegetables. United Fresh Fruit Veg. Ass. Yearbook 1968:321-322,324,326,328, 330,332,334,336,338. 280.3939 Un3
- 90130 GELLER, G. The consolidation of Pear Zone Number 1 and CTFA [California Tree Fruit Agreement]. Pear Growers League Annu. 24:11-12. 1968. 286.3939 P31
- 90131 GOLDWEBER, S. Thoughts on the Florida mango industry. Fla. State Hort. Soc. Proc. 80:384-387. May 1,1968. 81 F66
- 90132 GRAY, L. Producing sweet cherries for fresh market. Mich. State Hort. Soc. Annu. Rep. 96:75-76. 1966, pub.1967. 81 M58
- 90133 INTERNATIONAL FRUIT JUICE UNION. SCIENTIFIC TECHNICAL COMMISSION. Meeting, Apr.27-28, 1967 in Madrid, by H. U. Daepf. (Ge) Schweiz. Z. Obst- Weinbau 103(11):360-362. May 27,1967. 80 Sch9 Includes titles of papers.
- 90134 JOHANSEN, R. H. North Dakota's tri-purpose industry: processing, table stock, and certified seed production form the marketing triangle for this state's most important horticultural crop. Amer. Veg. Grower 15(12):44-47. Dec.1967. 80 C733 Potatoes.
- 90135 KONSTANTINESKU, N. The fruit and grape industry in Romania. (Rus) Sadovodstvo [Moscow] 11:45-46. 1967. 80 Sa13
- 90136 KROCHMAL, A. Cassava in the New World. World Crops 19(1):74-75. Mar.1967. 281.8 W892 The industry in Latin America.
- 90137 KUSENIKOV, T. Industrial redpepper and its importance. (Se) Sovremeno Zemjod. 13(2):14-15. Feb.1966. S13.S6
- 90138 LAMONT, T. E. Apple outlook. Mass. Fruit Growers' Ass. Rep. 73:31-39. 1967. 81 M384 Includes returns.
- 90139 LARSEN, R. P. A look at Michigan's expanding fruit industry. N. Y. State Hort. Soc. Proc. 113:142-149. 1968. 81 N484
- 90140 LUCIANI, V. Horticulture in Bulgaria. (It) Agri Forum 9(1):17-18. Jan.1968. 16 Ag8233
- 90141 MANNOZZI-TORINI, L. Acqualagna and its truffles. (It) Ital. Agr. 104(4):443-454, map. Apr.1967. 16 It1 Industry.
- 90142 MASSACHUSETTS FRUIT GROWERS' ASSOCIATION. Membership lists 1966. Mass. Fruit Growers' Ass. Rep. 73:106-124. 1967. 81 M384
- 90143 MEIJAARD, D. Some preliminary results from the industrial-economic organization of the mushroom industry. (Du) Champignoncultuur 11(3):86-90. Apr.1967. 80 C35 Netherlands; includes statistics.
- 90144 MEL'TSER, V. Success of the fruit growers in Czechoslovakia. (Rus) Sadovodstvo [Moscow] 11:43-45. 1967. 80 Sa13 Chiefly industry.
- 90145 MERCURIALI, G. Programming horticultural production. (It) Ezzo Agr. 16(4):24-25. Aug. 1967. 58.8 Es7
- 90146 MIRANOVIC, K. The causes of the decline of olive culture in Montenegro. (Se) Glasnik 12(2):36-39. 1968. 280.38 Z13
- 90147 MORRISON, S. The horticultural industry looks ahead. Wash. State Hort. Ass. Proc. 1967:60. 81 W273 Fruit industry.
- 90148 ODINTSOV, V. A. From the history of the Soviet fruit policies. (Rus) Sadovodstvo [Moscow] 11:47-48. 1967. 80 Sa13
- 90149 OLDENSTADT, D. L. Action alternatives for increasing profits. Wash. State Hort. Ass. Proc. Dec.5-7,1966:95-100. 81 W273 Fruit.
- 90150 OLLIVERO, L. Notes on the European Economic Community and legal rules in the viticulture sector. (It) Turin. Univ. Fac. Sci. Agr. Ann. 1:313-334. 1961-62, pub.1966. S9.T8 French summary.

- 90151 PETERSON, A. W. Potential fruit producing areas of Washington: their implications on the future of the industry. Wash. State Hort. Ass. Proc. Dec.5-7,1966:111-117. 81 W273
- 90152 PETROVSKI, G. Viticulture of the Delcevo area. (Se) Sovremeno Zemjod. 13(4):11-13. Apr.1966. S13.S6
- 90153 PRONIN, S. N. Orchards in Russia. (Rus) Sadovodstvo [Moscow] 11:5-7. 1967. 80 Sa13  
Fruit industry.
- 90154 ROLIN, P. Economic situation of Belgian fruit culture in 1967. (Fr) Fruit Belg. 36(317):5-9. Jan.1968. 80 F9493
- 90155 SAIFUTDINOV, A., SIBGATULLIN, N., and SHAVAEV, M. Potatoes—profitable culture. (Rus) Sel'skokhoz. Povolzh'ya 4:45-46. Apr. 1967. 281.8 S34
- 90156 SEELIG, R. A. Fruit & vegetable facts & pointers; honey dews. United Fresh Fruit Veg. Ass. Yearbook 1968:223, 225-226,228,230,232,234, 236,238,240,242,244,246,248,251. 280.3939 Un3  
Survey of the industry and varieties.
- 90157 SHAPKIN, YU. D. Development of the grape industry in the USSR. (Rus) Sadovodstvo [Moscow] 11:29-30. 1967. 80 Sa13
- 90158 STENDEVAD, P. Economic conditions in the potato industry in Denmark. (Ge) Kartoffelbau 18(2):46. Feb.1967. 75.8 K145
- 90159 TAYLOR, J. A. World situation and outlook -- for bananas. In Warley, T. K., ed. Agricultural producers and their markets, p.273-284. 1967. HD9000.1.W3
- 90160 TRANDAFIR, L. Aspects of potato culture in Netherlands. (Rum) Probl. Agr. [Bucharest] 20(3):79-85. Mar.1968. 21 R862
- 90161 TUBERTINI, R. Italian seed potatoes 1966. (It) Sementi Elette 13(2/3):140-146. Mar./June 1967. 61.8 Se53  
English summary.  
Varieties and production per province.
- 90162 TUSKES, L. What is the trend in vegetable production and marketing? (Hu) Kertesz. Szolesz. 16(15):3-4. Aug.1967. 80 K474
- 90163 UNITED FRESH FRUIT AND VEGETABLE ASSOCIATION. Fresh facts about the fresh fruit and vegetable industry. United Fresh Fruit Veg. Ass. Yearbook 1968:125-126,128. 280.3939 Un3
- 90164 UNITED FRESH FRUIT AND VEGETABLE ASSOCIATION. United Fresh Fruit and Vegetable Association; what it is and what it does. United Fresh Fruit Veg. Ass. Yearbook 1968:185-186, 188,190,193-194,198,200,202,204,206,208,211. 280.3939 Un3
- 90165 VAGABOV, F. The outlook for increasing filbert industry. (Rus) Sadovodstvo [Moscow] 10: 17-18. Oct.1967. 80 Sa13
- 90166 WILLARD, M. Potato flour. Potato Handbook 12:68. 1967. 75.8 P842P
- 90167 WINTERTON, D. The macadamia nut industry—problems and prospects. Food Technol. Australia 20(3):119,121. Mar.1968. 389.8 F7333
- Analysis and Composition
- 90168 BARRON, R. W., MARAULJA, M. D., and HUGGART, R. L. Instrumental and visual methods for measuring orange juice color. Fla. State Hort. Soc. Proc. 80:308-313. Ref. May 1,1968. 81 F66
- 90169 BEACHAM, L. M. Report on processed vegetable products. Ass. Offic. Anal. Chem. J. 50 (3):689-690. June 1967. 381 As7
- 90170 BENEDICT, R. H., JONES, M. D., and FLEMING, J. Quality of machine-harvested grapes. Ark. Farm Res. 17(2):10. Mar./Apr.1968. 100 Ar42F  
Chiefly analysis.
- 90171 BOURNE, M. C., and MONDY, N. Measurement of whole potato firmness with a universal testing machine. Food Technol. 21(10):97-100. Oct.1967. 389.8 F7398
- 90172 BROWN, R. F. Extraneous materials in mushrooms. Ass. Offic. Anal. Chem. J. 50(3):514-515. June 1967. 381 As7
- 90173 BURR, H. K. Compounds contributing to flavor of potatoes and potato products. Plant Sci. Symp. Proc. 1966:83-97. Ref. SB211.P8P59
- 90174 DUPAIGNE, P. Evaluation of the content of pulp held in suspension in fruit drinks. (Fr) Fruits 22(7):305-308. July/Aug.1967. 80 F9492  
English summary.
- 90175 FELDMAN, A. L., and KOBELEVA, J. M. Biochemical characteristics of some types of vegetable raw material for canning. (Rus) Prikl. Biokhim. Mikrobiol. 3(2):147-150. Apr.1967. 385 P93  
Peppers, eggplants.
- 90176 GOTLIEB, K. F., and WOLDENDORP, P. Some properties of crosslinked potato starch. (Ge) Starke 19(8):263-271. Aug.1967. 309 St22  
English summary.
- 90177 GREENWOOD, C. T. Physical and chemical characteristics of potato starch. Plant Sci. Symp. Proc. 1966:41-62. SB211.P8P59
- 90178 HAASBROEK, F. J., and LOTZ, E. V. D. S. Assay of 32P in biological material using a Cerenkov counter. S. Afr. J. Agr. Sci. 10(1): 285-287. Mar.1967. 24 Su3  
Peach leaves and wheat tops.
- 90179 HATANAKA, S. I. Isolation of pipelicolic acid from Adzuki beans (*Phaseolus angularis*). (Ge) Tokyo Univ. Coll. Gen. Educ. Sci. Pap. 17(2): 219-220. Ref. Dec.1967. 330.9 T572
- 90180 HIRT, E. Present possibilities of the food industry's protecting the consumer from spray residue injury. (Ge) Alimentia 5(6):226-227. 1966. TP368.A4  
Analyses of fruit, vegetables, and grain.
- 90181 HOLZL, J., WASHUTT, J., and BANCHER, E. Staining potato and wheat starches. I (Ge) Qualitas Plant. Mater. Veg. 14(1/2):1-27. Ref. Jan.10,1967. 64.8 M41
- 90182 HOLZL, J., WASHUTT, J., and BANCHER, E. Staining potato and wheat starches. II. (Ge) Qualitas Plant. Mater. Veg. 14(3):237-256. Ref. Apr.28,1967. 64.8 M41
- 90183 HONBO, K., OKUBO, T., and SATA, S. Studies on the viscosity of sweetpotato starch. 3. (Ja) Technol. Soc. Starch. J. 14(4):137-143. May 1967. 309.9 D39
- 90184 INGALSBE, D. W., and NEUBERT, A. M. Colloid stability of frozen concentrated apple juice. Wash. State Hort. Ass. Proc. Dec.5-7. 1966:139-144. 81 W273
- 90185 JOHNSON, J. H., and ORTH, P. G. Total and nitrate nitrogen and solids content of processed tomatoes as affected by fertility and variety. Fla. State Hort. Soc. Proc. 80:313-317. May 1,1968. 81 F66
- 90186 LAMB, F. C. Relation between refractive index, specific gravity, and total solids of tomato juice, puree, and paste. Ass. Offic. Anal. Chem. J. 50(3):690-700. Ref. June 1967. 381 As7
- 90187 MARAULJA, M. D., and BARRON, R. W. An improved method for measurement of pulp content of citrus juices. Fla. State Hort. Soc. Proc. 80:284-288. May 1,1968. 81 F66
- 90188 PARFENOPULO, M. G. Potential conductivity of beet pulp. (Rus) Izv. Vyssh. Ucheb. Zaved. Pishch. Tekhnol. 3(58):68-70. 1967. 389.8 IZ8
- 90189 PERRING, M. A. Recent work at the Ditton Laboratory on the chemical composition and storage characteristics of apples in relation to orchard factors. East Malling Res. Sta. Annu. Rep., Apr.1968:191-198. Ref. 103 Ea7
- 90190 PETROPAVLOVSKII, E. I., SHIKHALIEV, S. S., and YATSYNA, A. N. On physico-chemical changes of cucumbers in heat treatment. (Rus) Izv. Vyssh. Ucheb. Zaved. Pishch. Tekhnol. 3(58):92-94. 1967. 389.8 IZ8



- 90191 RADER, B. R. Determination of moisture in dried vegetables. *Ass. Offic. Anal. Chem. J.* 50 (3):701-703. June 1967. 381 As7
- 90192 REPANSEK, V. Economic properties of potato varieties. (Sl) *Soc. Kmetijstvo Gozdarstvo* 18 (2):28-30. Feb.22,1967. 21.5 So14
- 90193 RIDDLE, P. J., and MACGILLIVRAY, J. H. Relation of dry matter to soluble solids in carrots and peppers. *Amer. Soc. Hort. Sci. Proc.* 89:381-385. Dec.1966. 81 So12
- 90194 SHARPLES, R. O. The structure and composition of apples in relation to storage quality. *East Mailing Res. Sta. Annu. Rep.* Apr.1968:185-189. Ref. 103 Ea7
- 90195 STEMPKOVSKAYA, L. A., and PASHKOVSKAYA, I. I. Colorimetric determination of residual quantity of Trichlorfon in some yields. (Rus) *Khim. Sel'skom Khoz.* 5(6):67-70. Ref. June 1967. 385 K524  
Vegetables, fruit and grain.
- 90196 TING, S. V. Nitrogen content of Florida orange juice and orange juice concentrate. *Fla. State Hort. Soc. Proc.* 80:257-261. May 1,1968. 81 F66
- 90197 TRAUTNER, K., and SOMOGYI, J. C. Biosynthesis of vitamin C in potatoes slices. *Int. Congr. Nutr. Proc.*, 7th Congr.,v.5:596. 1966, pub.1967. TX345.153 1966
- 90198 VÄRSEVELD, G. W., and OLSON, D. W. Sources of variation in lot sampling of raw shelled peas for tenderometer test. *Oreg. Agr. Exp. Sta. Spec. Rep.* 248,30 p. Feb.1968. 100 Or3M  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.  
Quality for processing.
- 90199 WALKLEY, V. T., and BUCHANAN, J. A. Acetyl methylcarbinol and diacetyl, describing an automated method for estimation in fruit juices, microbial cultures and related products. *Indian Food Packer* 21(5):8-10. Ref. Sept./Oct.1967. 389.8 In25
- 90200 WILDMAN, J. W. Dilution method for mold count of catsup. *Ass. Offic. Anal. Chem. J.* 50 (3):509-513. June 1967. 381 As7
- 90201 ZAEHRINGER, M. V., and others. Specific gravity and composition of potatoes for various processing and cooking purposes. *Potato Handbook* 12:5-10. Ref. 1967. 75.8 P842P  
R. M. Reeve, E. A. Talley, D. H. Dinkel, R. B. Hyde, joint authors.
- 90202 ZUCKERMAN, B. M., and others. Pigment and viscosity of juice and sauce of several cranberry varieties. *Amer. Soc. Hort. Sci. Proc.* 89:248-254. Dec.1966. 81 So12  
I. E. Demoranville, F. J. Francis, K. Hayes, R. L. Norgren, S. Regling, C. W. Miller and S. M. Paracer, joint authors.

#### Consumption and Utilization

#### Distribution, Marketing, and Transportation

- 90208 BALDASARO, R. J. A study of the apple market at retail. *Mass. Fruit Growers' Ass. Rep.* 73:91-95. 1967. 81 M384  
Influence of store type on sales in Springfield, Massachusetts-Hartford, Connecticut area.
- 90209 BEMIS, K. P. What's the future of fresh? Will fresh potatoes disappear from the market? *United Fresh Fruit Veg. Ass. Yearbook* 1968: 151-152,154,156,158,161. 280.3939 Un3
- 90210 BENZ, R. G. Wanted: more Idaho apple buyers. *Idaho State Hort. Soc. Trans.* 1967:43-53. 81 ID12
- 90211 BERRY, R. N. Apple publicity and national apple promotion programs. *N. Y. State Hort. Soc. Proc.* 113:181-183. 1968. 81 N484
- 90212 BERRY, R. N. A study of the apple market at retail. *Mass. Fruit Growers' Ass. Rep.* 73:96-97. 1967. 81 M384  
Preferred varieties in New England.
- 90213 BIDSTRUP, D. Fresh Bartlett's, 1967. *Pear Growers League Annu.* 24:41-42. 1968. 286.3939 P31  
Marketing.
- 90214 BLANPIED, G. D., and PEASE, R. L. Picking, packing, storing and selling tests with pears. *N. Y. State Hort. Soc. Proc.* 113:155-160. 1968. 81 N484
- 90215 BOWERS, J. M. Peach marketing. *Mountain-eer Grower* 275:24-29. Apr.1968. 80 M86
- 90216 BROWN, J. D., and ELROD, J. C. Competitive position of the Georgia watermelon producing industry. *Ga. Agr. Exp. Sta. Res. Bull.* 28, 39 p.,map. Apr.1968. S51.E2  
With regard to marketing, prices, and yields.
- 90217 BROWNLOW, J. Designing, planning, and executing campaigns for fresh fruits and vegetables. *U. S. D. A. Econ. Res. Serv. ERS-274:* 48-51. 1966. A281.9 Ag83E
- 90218 CLAYTON, J. E. Piggyback containerization. *United Fresh Fruit Veg. Ass. Yearbook* 1968: 19-20,22,25. 280.3939 Un3
- 90219 COLLINS, R. E. No easy answers. *Pear Growers League Annu.* 24:3-4. 1968. 286.3939 P31  
Increasing farmer bargaining power.
- 90220 COOP, F. A. Job descriptions. *United Fresh Fruit Veg. Ass. Yearbook* 1968:175-176. 280.3939 Un3  
Fruit and vegetable marketing.
- 90221 DAVIS, C. The importance of communications to promote fresh perishables. *N. Y. State Hort. Soc. Proc.* 113:49-51. 1968. 81 N484  
Fruit and vegetables.
- 90222 DAVIS, J. F. Brokers know the new approach. *United Fresh Fruit Veg. Ass. Yearbook* 1968: 61-62. 280.3939 Un3
- 90223 DESCOMPS, J. The apple sales at the end of the season in the Paris markets - in comparison to 1964, 1965, 1966. (Fr) *Pomol. Franc.* 9(6):171-172. June 1967. 80 P77
- 90224 DEULLIN, R. Prospects for the utilization of refrigerated containers for transport of tropical fruits by sea. (Fr) *Fruits* 22(8):368-370. Sept.1967. 80 F9492  
English summary.
- 90225 DOMINICK, B. A. Grower marketing organizations are benefiting New York fruit growers. *Mich. State Hort. Soc. Annu. Rep.* 96:67-72. 1966,pub.1967. 81 M58
- 90226 ELLER, R. Z. United friends behind the scene. *United Fresh Fruit Veg. Ass. Yearbook* 1968: 93-94. 280.3939 Un3  
Promotion activities of the United Fresh Fruit and Vegetable Association.
- 90227 ELLISON, M. A. The golden future of the United Fresh Fruit and Vegetable Association. *United Fresh Fruit Veg. Ass. Yearbook* 1968: 11-12,15. 280.3939 Un3

- 90228 FLOYD, T. E., LANGHAM, M. R., and SPURLOCK, A. H. Cost and volume relationships for picking, hauling, and packing and selling Florida oranges. Fla. State Hort. Soc. Proc. 80:241-246. May 1, 1968. 81 F66
- 90229 FRANKLIN, E. R. Costs for packing, storing and selling apples in Washington, 1965-66 season. Wash. State Hort. Ass. Proc. Dec.5-7, 1966:103-106. 81 W273
- 90230 GILB, C. E. Selling - promoting - organization and other thoughts. United Fresh Fruit Veg. Ass. Yearbook 1968:67-68. 280.3939 Un3 Potatoes.
- 90231 GIRTON, C. We will try again. Pear Growers League Annu. 24:5-6. 1968. 286.3939 P31 Proposed Federal marketing programs and the pear industry.
- 90232 GLAZAR, M. Possibilities of sale of seed potato on Yugoslav and foreign markets. (Sl) Soc. Kmetijstvo Gozdarstvo 18(2):32-33. Feb.22, 1967. 21.5 So14
- 90233 GOETSCH, F. L. Marketing group proves bargaining power. Doanes Agr. Rep. 31(11):18-21. Apr.8, 1968. 281.8 D652 American Agricultural Marketing Association; potato marketing.
- 90234 GREGERSON, J. M. Industrial trucks; material handling efficiency is more important than ever. United Fresh Fruit Veg. Ass. Yearbook 1968:213-215, 217. 280.3939 Un3
- 90235 GRIERSON, W., and HAYWARD, F. W. Simulated marketing tests with prepackaged citrus. Fla. State Hort. Soc. Proc. 80:237-241. May 1, 1968. 81 F66
- 90236 GRODER, R. H. Market News Service on fruits and vegetables. Oreg. State Univ. Ext. FS 142,2 p. Mar.1968. 275.29 Or36
- 90237 HEALY, N. The functions of federal marketing orders. Mass. Fruit Growers' Ass. Rep. 73:40-44. 1967. 81 M384 For apples in New England.
- 90238 IMMING, B. J. Point of view: the ultimate factor. United Fresh Fruit Veg. Ass. Yearbook 1968:43-44, 47. 280.3939 Un3 Promotion of fruit and vegetables.
- 90239 ISHIDA, J. T., and others. Marketing Hawaii's processed fruit products. Hawaii. Univ. Ext. Misc. Publ. 47:42-56. Dec.1967. S544.3 H3H3 H. A. Alexander, L. Garoian, and R. A. Souza, joint authors.
- 90240 JOHNSTON, S. C. Marketing for the producer. Mich. State Hort. Soc. Annu. Rep. 96:14-18. 1966, pub. 1967. 81 M58 Growers' cooperatives for apples and blueberries.
- 90241 KAHN, H. Control of potatoes in France. Seed Potato 7(1):6-7. Spring 1967. 75.8 Se3 Marketing and prices.
- 90242 LANGE, H. Agricultural purchasing and selling cooperative in Hermannsburg concerned with market conforming adjustment. (Ge) Kartoffelbau 18(2):30-31. Feb.1967. 75.8 K145
- 90243 LAURET, F. The evolution of fruit farming in the context made by the use of producer cooperatives. (Fr) Congr. Pomol. (Compt. Rend.). 97:79-92. Oct.6,7,8,1966. 93.09 C7643 In France. Marketing cooperatives.
- 90244 LINDSTAD, B. Chief impressions concerning marketing of fruit and market garden products in U.S.A. (Da) Erhvervsfrugtavlere 34(12):473-474. Dec.1,1967. 80 Er3
- 90245 LOHDEN, A. Discussion of the paper by H. G. Hemmb: "The organization of producers in the EEC and the marketing regulations for fruit and vegetables." (Ge) Obstbauversuchsring Alten Landes. Mitt. 22(3):107-112. Mar.1967. 85 J76
- 90246 NAGARAJAN, P. The vertical integration of produce wholesaling with retailing. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Oct.3,1967,2 p. HD9004.A1K3 Fruit and vegetables.
- 90247 NOLTE, L. Fruit cocktail promotion. Pear Growers League Annu. 24:19,21,23. 1968. 286.3939 P31
- 90248 PERSSON, N. E. Before you start cultivating vegetable crops - find out where they can be sold. (Sw) Jord Skog 7/8:28-29. 1967. 58.8 M373
- 90249 PRICE, D. An economist's view of the cherry order. Wash. State Hort. Ass. Proc. Dec.5-7, 1966:107-110. 81 W273
- 90250 RAINS, A. T. Orderly marketing vs. railroad schedules. United Fresh Fruit Veg. Ass. Yearbook 1968:29-30. 280.3939 Un3 Legislation.
- 90251 RAUTENBERG, B. How much of the market do we control? (Ge) Obstbauversuchsring Alten Landes. Mitt. 22(3):120-128, map. Mar. 1967. 85 J76 Fruit market in Germany including statistics.
- 90252 SCHARFENSTEIN, O. H. C. Practical marketing. (Ge) Indus. Obst- Gemuseverwertung 52 (22):701-704. Nov.16, 1967. 389.8 K832
- 90253 SCHMID, G. Journey to the vineyards of eastern Switzerland for the press. (Ge) Schweiz. Z. Obst. Weinbau 103(13):411-412. June 24, 1967. 80 Sch9 Public relations.
- 90254 SCHWEIZERISCHER BAUERNVERBAND. Estimate of saleable cherries from 1967 harvest. (Ge) Schweiz. Z. Obst- Weinbau 103(13):402-403. June 24, 1967. 80 Sch9
- 90255 SEALS, D. Reasonable dispatch is a multifaceted term. United Fresh Fruit Veg. Ass. Yearbook 1968:107-108, 110, 113, 115. 280.3939 Un3 Legal aspects related to transportation of perishables by rail.
- 90256 SEELIG, R. A. Where to find the answers—to questions about fresh fruit and vegetable marketing. United Fresh Fruit Veg. Ass. Yearbook 1968:279-280, 282, 284, 286, 288, 290, 292, 294, 296, 298, 300, 302, 304, 306, 308, 310, 312, 314, 316, 318-319. 280.3939 Un3 A bibliography.
- 90257 SHERWIN, C. J. What a produce buyer looks for. N. Y. State Hort. Soc. Proc. 113:186-193. 1968. 81 N484 Fruit.
- 90258 SHIELDS, G. New Jersey the Garden State Branch. United Fresh Fruit Veg. Ass. Yearbook 1968:259, 266, 271, 275, 277. 280.3939 Un3 Of the United Fresh Fruit and Vegetable Association.
- 90259 SPIELMANN, H. Market behavior of fresh and potentially gamma irradiated papaya on U.S. Mainland markets. Hawaii. Univ. Ext. Misc. Publ. 49:27-31. Feb.1968. S544.3 H3H3 California.
- 90260 SPRAGUE, F. D. Canned Bartlett pear promotion report. 1967-1968 season. Pear Growers League Annu. 24:35-36. 1968. 286.3939 P31
- 90261 SPURLOCK, A. H. Cost of packing and selling citrus. Citrus Indus. 48(12):19-22. Dec.1967. 80 C49
- 90262 STAHLI, H. R. Problems of this year's cherry market. (Ge) Schweiz. Z. Obst- Weinbau 103(13):409-411. June 24, 1967. 80 Sch9 Includes prices.
- 90263 STANEK, J. The proposed advertising and promotional program for Michigan cherries. Mich. State Hort. Soc. Annu. Rep. 96:62-67. 1966, pub. 1967. 81 M58
- 90264 STEDMAN, G. Adapting to containerization. United Fresh Fruit Veg. Ass. Yearbook 1968:143-144, 147. 280.3939 Un3
- 90265 STEDMAN, G. Changing transportation. Fla. State Hort. Soc. Proc. 80:XXXIII-XXXV. May 1, 1968. 81 F66 Fruit and vegetable transportation equipment.
- 90266 TIPTON, S. G. The outlook for growth in air-freighting fresh fruits and vegetables. United Fresh Fruit Veg. Ass. Yearbook 1968:163, 165-166, 170. 280.3939 Un3



- 90267 TOKUYASU, T. The sales organization of processed fruits produced in cooperative fruits processing plants in Japan. Jap. Agr. Coop News 7(3):12-17. Feb.1967. 280.28 J27
- 90268 UNITED FRESH FRUIT AND VEGETABLE ASSOCIATION. Yearbook 1968. Washington, D. C., 1968. 356 p. Ref. 280.3939 Un3
- 90269 VELJANOV, D. Harvesting at the right time, grading and packing of early vegetables insures good marketing and high prices. (Se) Sovremeno Zemjod. 13(5):2-4. May 1966. S13.S6
- 90270 WARNER, H. H. Impact of direct jet flights on the papaya industry. Hawaii. Univ. Ext. Misc. Publ. 49:21-22. Feb.1968. S544.3 H3H3 Marketing.
- 90271 WEINSTEIN, J. L. Terminals are growing; new opportunity awaits the TMD [Terminal Market Division] member. United Fresh Fruit Veg. Ass. Yearbook 1968:119-120,122. 280.3939 Un3
- 90272 WESTBERG, F. Idaho joins Washington and Oregon in fresh cherry promotion. Idaho State Hort. Soc. Trans. 1967:53-54. 81 ID12
- 90273 WESTBERG, F. H. Comments on 1967 fresh northwest purple prune plum promotion. Idaho State Hort. Soc. Trans. 1967:54-56. 81 ID12 Idaho, Washington, Oregon.
- 90274 WILCOX, F. R. Co-operative marketing of citrus fruits. Fla. State Hort. Soc. Proc. 80: 105-107. May 1,1968. 81 F66
- 90275 YORK, E. T. Our competitive position. Citrus Indus. 48(12):4-7. Dec.1967. 80 C49 In Florida citrus culture; consumer preferences and export market.

#### Grading, Inspection, Standardization, and Quality

- 90276 BISTON, R., BOLLY, L., and MARTENS, P. H. New facts about plant pesticide residues in canned food. (Ge) Indus. Obst-Gemüseverwertung. 52(17):509-513. Ref. Sept.7,1967. 389.8 K832
- 90277 BOER, H. TEN, and SCHAAF, A. VAN DER. Research on the sorting of seed potatoes. (Du) Neth. Dir. Landbouw Verslag Landbouwkundig Onderz. Noordelijk-Groningen 1967:47-50. 12 N38Vg In the Netherlands.
- 90278 BOUIER DE L'ECLUSE, R. The rugosity of the Golden Delicious apple. (Fr) Pomol. Franc. 9(6):161-162. June 1967. 80 P77
- 90279 BURT, S. W. A brush sizer and sorter for apples. Wash. State Hort. Ass. Proc. 1967: 184-185. 81 W273
- 90280 DECLEIRE, M. Study of souring in some canned spinach. (Fr) Rev. Ferment. Indus. Aliment. 22(6):214-222. Ref. 1967. 390.08 R32 English summary.
- 90281 FINE, S. FDA's Dallas district; an incident in Laredo. FDA [Food Drug Admin.] Pap. 1(5):9-13. June 1967. HD9000.9 U5A1 Chiefly on endrin residues on cantaloupes imported from Mexico.
- 90282 GAFFNEY, J. J., and JAHN, O. L. Photoelectric color sorting of early season Florida oranges before degreening. Fla. State Hort. Soc. Proc. 80:296-301. May 1,1968. 81 F66
- 90283 GALIEN, M. VAN DER, and RIEPMA, H. Grading by the grower or in a central location? (Du) Neth. Provinc. Dir. Rijkslandbouwvoorlichting Friesland Voorlichting Onderz. 1966: 48-49. SB183.N4A3 Potatoes.
- 90284 JOHNSON, J. M. Realistic grading and pricing of apples for processing. N. Y. State Hort. Soc. Proc. 113:171-177. 1968. 81 N484
- 90285 KLOTSCHER, T. Supplements to the quality classes in the general quality norms for fresh fruit and vegetables. (Ge) Obstbauversuchsring Alten Landes. Mitt. 22(1):21-23. Jan. 1967. 85 J76
- 90286 KRIJGSMAN, H. K. The organization of grading in horticulture. (Du) Neth. Dir. Tuinbouw. Mededel. 30(9):333-339. Sept.1967. 86 N384 English summary, p.374. Work methods and equipment for fruit and vegetable grading.
- 90287 LITTMANN, M. D. Effect of temperature on the post-harvest deterioration in quality of beans. Queensland J. Agr. Anim. Sci. 24(3/4): Sept./Dec.1967. 23 Q37
- 90288 MAH, M. C., and GONZALEZ, L. C. Studies on cassava flour adulteration. Researcher 3(2): 109-118. Aug.1967. 475 Sci237 Suppl.
- 90289 MAIER-BODE, H. The aldrin and dieldrin contents of German edible carrots. Bull. Environ. Contamination Toxicol. 2(1):10-16. Ref. Jan./Feb.1967. RA1270.P35A1
- 90290 NYLUND, R. E. Introductory remarks; first session. Plant Sci. Symp. Proc. 1966:1-9. Ref. SB211.P8P59 Chiefly on quality of potatoes for processing.
- 90291 OLSEN, K. L. Effect of maturity on dessert quality of stored Golden Delicious apples. Wash. State Hort. Ass. Proc. Dec.5-7,1966: 209-212. 81 W273
- 90292 ROBINSON, W. B. Measures of quality in grapes. N. Y. State Hort. Soc. Proc. 113:280-285. 1968. 81 N484
- 90293 ROHLEDER, K. The radioactive contamination of edible mushrooms. (Ge) Deut. Lebensm.-Rundsch. 63(5):135-138. May 1967. 389.8 D482
- 90294 RUDOLPHIJ, J. W. Quality and size. (Du) Neth. Dir. Tuinbouw. Mededel. 30(9):352-361. Sept.1967. 86 N384 English summary, p.375. Fruit grading. Includes discussion.
- 90295 SWAIN, T., HUGHES, J. C., and MAPSON, L. W. Discoloration in potatoes and potato products. Plant Sci. Symp. Proc. 1966:63-82. Ref. SB211.P8P59
- 90296 SWEEZEY, R. L. Size and grade of McIntosh apples delivered to processing plants and returns per cwt. and per bushel in 1967. N. Y. State Hort. Soc. Proc. 113:203-204. 1968. 81 N484
- 90297 VINS, M., LUKAVCOVA, M., and SOLC, J. Informative method of determining quality of celery pulp. (Cz) Gen. UVTI (Ustav Vedeckotechn. Inform.) Genet. Slechteni 3(3):231-233. June 1967. QH431.A1S25 With x-rays.
- 90298 WINKLER, G. Guiding principles in assessing and characterizing vegetables in vinegar. (Ge) Indus. Obst-Gemüseverwertung 52(17):516-524. Sept.7,1967. 389.8 K832 Regulations.

#### Packing and Packaging

- 90299 DEULLIN, R. Damp-absorption by cartons of bananas during warehousing and transport by sea. (Fr) Fruits 22(6):273-277. June 1967. 80 F9492 English summary.
- 90300 DUMMEYER, F. Table potato production changes to marketable paper-bagged potatoes. (Ge) Kartoffelbau 18(2):34-35. Feb.1967. 75.8 K145
- 90301 GIRENKO, V. N., and SHKARIN, S. A. A special packing paper to protect fruit. (Rus) Sadovodstvo [Moscow] 10:25. Oct.1967. 80 Sa13 Apples and pears.
- 90302 HIELE, T. VAN. Packing and transport. (Du) Neth. Dir. Tuinbouw. Mededel. 30(9):340-351. Sept.1967. 86 N384 English summary, p.374-375. Fruit and vegetables. Includes discussion.
- 90303 KRANZLE, G. A. Questions of packaging for fruit and vegetables. (Ge) Verpack.-Rundsch. 19(3):262,264. Mar.1968. 280.38 V592 English summary.

- 90304 NEILSON, D. H. Consumer package contest awards at Rochester and Kingston. N. Y. State Hort. Soc. Proc. 113:303-304. 1968. 81 N484 For apples.
- 90305 O'LOUGHLIN, J. B. Polythene liners for pears. Tasmanian J. Agr. 38(2):81-83. May 1967. 23 T182T
- 90306 RUMSEY, G. Pre-packs put premium on potatoes. Arable Farmer 5(1):17-19. Mar. 1967. S3.A7
- 90307 SCHOMER, H. A., and PIERSON, C. F. The use of wax on apples and pears. Wash. State Hort. Ass. Proc. 1967:198-200. 81 W273
- 90308 TOMKINS, R. G. Assessing suitability of plastic films for prepackaging fruit and vegetables. Food Mfr. 42(4):34-38. Apr. 1967. 389.8 F736
- 90309 TUGWELL, B. L. An apple carton for the local market. S. Australia J. Agr. 71(4):115-117. Nov. 1967. 23 So84
- 90310 VASEY, C. R. Banana packing. Fiji Farmer 3(1):13-16. Mar. 1967. 25 F473
- 90311 VELICH, S. Modern, mechanized grape packing. (Hu) Kertesz. Szolesz. 16(15):16-17. Aug. 1967. 80 K474
- 90312 VOLKOV, M. A. New packing materials. (Rus) Sadovodstvo [Moscow] 10:26. Oct. 1967. 80 Sa13 Fruit.
- Prices, Price Control, and Rationing
- 90313 GRODER, R. H. The probable effect of increased production on grower prices. Nut Growers Soc. Oreg. Wash. Proc. Dec. 8, 1967:15-20. 94.69 W52 Filberts.
- 90314 JOHANSSON, R. Potato growers need a trade association to influence the market price. (Sw) Jord Skog 7/8:26-27. 1967. 58.8 M373
- 90315 LOHDEN, A. Considerations on the present price situation. (Ge) Obstbauversuchsring Alten Landes. Mitt. 22(3):128-141. Mar. 1967. 85 J76
- 90316 MELI, T. Index of consumer prices from the viewpoint of fruit producers. (Ge) Schweiz. Z. Obst- Weinbau 103(13):399-402. June 24, 1967. 80 Sch9
- 90317 RODINI, N. Prices of horticultural products and EEC regulation. (It) Agri Forum 9(4):117-118. Apr. 1968. 16 Ag8233
- 90318 THURESSON, B. The quotation on food potatoes. (Sw) Kalmar Lans Hushallnings-sallsk. Tidskr. 2:10-12. Apr. 1967. 11 K123
- 90319 U. S. CONSUMER AND MARKETING SERV. FRUIT AND VEGETABLE DIV. Fresh fruit and vegetable prices, 1967. U. S. D. A. Statist. Bull. 427, 35 p. June 1968. 1 Ag84St
- 90320 VANDENBORRE, R. J. An econometric investigation of the impact of governmental support programs on the production and disappearance of important varieties of dry edible beans. Giannini Found. Agr. Econ. Res. Rep. 294, 92 p. Dec. 1967. 281.9 G34M  
California Agricultural Experiment Station, cooperating
- Processing and Storage
- 90321 AUSLAND, O. Does it pay to build storage rooms? (No) Gartneryrket 43(57):905-907, 930. Oct. 27, 1967. 80 G1938  
Cost of cold storage in relation to vegetable prices.
- 90322 AUSTRALIA. BUR. OF CENSUS AND STATISTICS. Manufacturing industries, 1965-66. No. 19, Jam, fruit, vegetables, pickles, sauces, condiments, etc. Canberra, 1968. 19 p. 271 Au72Ma
- 90323 BENKO, B. Conserving of grape juice and carbonic bottling. (Hu) Kertesz. Szolesz. 16(18):8-9. Sept. 1967. 80 K474
- 90324 BERRY, R. E., WAGNER, C. J., and WOLFE, S. Relation of pressure and moisture for densifying foam-mat dried orange and grapefruit juice crystals. Fla. State Hort. Soc. Proc. 80:280-284. May 1, 1968. 81 F66
- 90325 BHATIA, B. S., and others. Use of papain in the preparation of quick cooking dehydrated pulses and beans. Food Technol. 21(10):105-107. Ref. Oct. 1967. 389.8 F7398  
L. A. Ramanathan, M. S. Prasad, and P. K. Vijayaraghavan, joint authors.
- 90326 BHATNAGAR, H. C. Development of mandarin orange processing industry. Indian Food Pack-er 21(5):11-17. Ref. Sept./Oct. 1967. 389.8 In25
- 90327 BONDOUX, P. Hot water and thiabendazole as therapeutic treatment against lenticular parasites of apples. (Fr) Paris. Acad. Agr. France. Compt. Rend. Hebd. Seances 53(17):1314-1323. Ref. Dec. 6/13, 1967. 14 P215Bc  
Fungus diseases in storage.
- 90328 BOOCK, O. J., NERY, J. P., and NOBREGA, S. DE A. Influence of storage conditions on the chemical composition of the potato tubers. (Por) Bragantia 25(1):161-178. Ref. 1966. 102.5 B73Tb  
English summary.
- 90329 BOROS, R., and ZIMAY, GY. New methods in fruit storage. (Hu) Kertesz. Szolesz. 16(17):21-23. Sept. 1967. 80 K474
- 90330 BRAMLAGE, W. J., and others. Comparison of controlled atmosphere and air-stored McIntosh apples after various lengths of storage. Amer. Soc. Hort. Sci. Proc. 89:40-45. Dec. 1966. 81 So12  
F. W. Southwick, F. M. Sawyer, and P. E. Fergenson, joint authors.
- 90331 BREKKE, J. E., and ALLEN, L. Dehydrated bananas. Food Technol. 21(10):101-105. Ref. Oct. 1967. 389.8 F7398  
Process.
- 90332 BROWN, D. S., BUCHANAN, J. R., and HICKS, J. R. Volatiles from apples, as related to variety, season, maturity, and storage. Hilgardia 39(2):37-67. Ref. Mar. 1968. 100 C12H
- 90333 CARRIS, L. R. A processor looks at bulk handling of grapes. N. Y. State Hort. Soc. Proc. 113:277-279. 1968. 81 N484  
Includes injuries
- 90334 COLEMAN, F. Problems and progress in processing Washington State apples and the role of the producer. Wash. State Hort. Ass. Proc. 1967:125-127. 81 W273
- 90335 COOPER, G. Safe in store. Arable Farmer 5(1):34-37. Mar. 1967. S3.A7  
Potato storage in Great Britain.
- 90336 DOUGHERTY, R. H., MODERY, M. G., and WILEY, R. C. Effect of vacuum time and steam blanch temperature on the quality of canned apple slices. Amer. Soc. Hort. Sci. Proc. 89:46-52. Dec. 1966. 81 So12
- 90337 ERDELYI, MRS. L. Processing experiments of prune juice. (Hu) Kertesz. Szoleszeti Foiskola. Kiadv. 3(2):275-299. Ref. 1966. SB13.K4
- 90338 FEINBERG, B. Pre-peeled potatoes. Potato Handbook 12:70-71. 1967. 75.8 P842P
- 90339 FEUSTEL, I. C., and KUENEMAN, R. W. Frozen french fries and other frozen potato products. Potato Handbook 12:58-63. 1967. 75.8 P842P
- 90340 FEUSTEL, I. C. Miscellaneous products from potatoes. Potato Handbook 12:72-75. 1967. 75.8 P842P
- 90341 FRANKLIN, E. R. New processed products wanted. Wash. State Hort. Ass. Proc. Dec. 5-7, 1966:157-160. 81 W273  
Returns on apples.
- 90342 GOOD, E. I., LOPEZ-S., A., and KREHL, W. A. Influence of time and temperature on ascorbic acid stability in orange juice and ascorbic acid solutions. Int. Congr. Nutr. Proc., 7th Congr., v. 5:595. 1966, pub. 1967. TX345.153 1966



- 90343 GRADOWA, W. On the uniformity of the nomenclature in potato drying industry. (Pol) Nowe Roln. 16(1):35-36. 1967 20.5 N86
- 90344 GUSLU, S. Study of the combined effects of temperature and composition of the atmosphere on the ripening of fruit using a variety of pear. (Fr) Fruits 22(9):433-442. Oct.1967. 80 F9492  
English summary.
- 90345 GUTTER, Y. The use of 2-aminobutane and other antifungal compounds for the control of orange fruit decay. Israel J. Agr. Res. 17(3):167-170. July 1967. 107 J552  
Caused chiefly by *Penicillium digitatum*.
- 90346 GUTULESCU, I. A. New orientation principles in the sterilization of tinned vegetables and fruits. (Rum) Indus. Aliment. 19(2):70-75. Ref. Feb.1968. 389.8 In26  
English summary, p.113.
- 90347 HARATA, J., OSANAI, T., and OKAMOTO, T. Studies on the controlled atmosphere (CA) storage of apples. 6. The influence of carbon dioxide on internal injury in "Starking Delicious" apple fruits. (Ja) Hirotsaki Univ. Fac. Agr. Bull. 13:7-13. Mar.1967. 22.5 H613  
English summary.
- 90348 HAWAII TROPICAL FRUIT PROCESSING CONFERENCE. Proceedings. Hawaii. Univ. Ext. Misc. Publ. 47,64 p. Dec.1967. S544.3 H3H3
- 90349 HERREGODS, I. M. Storage of apples and pears. (Fr) Fruit Belg. 35(315):385-393. Nov.1967. 80 F9493
- 90350 HERRMANN, K. Influence of storage, processing and preservation on vitamin content of vegetables. (Ge) Ernähr.-Umsch. 15(3):81-83. Mar.1968. 389.8 Er66
- 90351 HUBNER, R. Conserving vegetables in the processing plant. (Hu) Kertesz. Szolesz. 16(15):6-7. Aug.1967. 80 K474
- 90352 INGALSBE, D. W., CLORE, W. J., and CONE, W. W. Measurement and removal of dirt on Concord grapes grown in central Washington 1967. Wash. Agr. Exp. Sta. Circ. 485,11 p. May 1968. 100 W275
- 90353 ISMAIL, M. A., and WOLFORD, R. W. Changes in organic nitrogen including free amino acids during processing of Florida orange concentrate. Fla. State Hort. Soc. Proc. 80:261-267. Ref. May 1,1968. 81 F66
- 90354 JOHNSON, H. B. Heat and other treatments for cantaloupes and peppers. United Fresh Fruit Veg. Ass. Yearbook 1968:51-52,54,56. Ref. 280.3939 Un3
- 90355 KAMIENOBRODZKI, W., and LISINSKA, G. The starch-sugar transformation in potato tubers during drying and cooling. (Pol) Wrocław Wyzsza Szkola Roln. Zeszyty Nauk. Roln. 21(66):83-98. Ref. 1967. 20.5 B75  
English summary.
- 90356 KLEMM, K. The influence of CO<sub>2</sub> and O<sub>2</sub> concentrations on the metabolism of organic acids and nitrogen in stored (Anjou) pears. (Ge) Bodenkultur 19(1):79-87. Ref. Feb.1968. 19 B635  
English summary.  
Cold storage.
- 90357 KOCHAN, W. J. Italian prune research - 1967. Idaho State Hort. Soc. Trans. 1967:25-30. 81 ID12  
Ripening and storage.
- 90358 KOEN, H., and HOGEWIND, W. L. Symptoms and characteristics of *Pratylenchus brachyurus* infestation of stored potatoes. S. Afr. J. Agr. Sci. 10(2):543-549. June 1967. 24 Su3
- 90359 KOENG, W. F. Cooperative food preservation in France? (Ge) Indus. Obst-Gemüseverwertung. 52(17):525-526. Sept.7,1967. 389.8 K832
- 90360 KOERT, J. L. The storage of onion sets in boxes in a warehouse. (Du) Zaaibelangen 21(11):207. June 1967. 61.8 Z1  
Netherlands.
- 90361 KOSSOY, M. W. Carbohydrate sweeteners in jams, jellies and preserves. Glass Pack-er/Processor 47(3):34-37. Mar.1968. 309.8 G463
- 90362 KRUG, K. Modern manufacture of fruit juices and fruit juice concentrates as well as their influence on the further processing of sweet musts, fruit juice liqueurs, fruit juice beverages, fruit wines, etc. (Ge) Indus. Obst-Gemüseverwertung 52(22):697-701. Nov.16,1967. 389.8 K832
- 90363 LABELLE, R. L. The yield and quality of sauce from McIntosh apples. N. Y. State Hort. Soc. Proc. 113:205-209. 1968. 81 N484
- 90364 LANDFALD, R. Temperature and humidity requirements for cooling of fruit. (No) Gartneryrket 43(57):926-927,932. Oct.27,1967. 80 G1938
- 90365 LARSSON, K. Handling potatoes. (Sw) Joel 3:3-5,14. 1967. 335.8 J59
- 90366 LINGE, R. A. VAN. Instant dextrin. (Ge) Starke 19(9):300-302. Sept.1967. 309 St22  
English summary.  
With special reference to potato starch dextrin.
- 90367 LIPTON, W. J. Low O<sub>2</sub> atmospheres, benefits and dangers; a report on head lettuce and potatoes. United Fresh Veg. Ass. Yearbook 1968:99-100,103. 280.3939 Un3  
Study of the effects after harvesting.
- 90368 LUKEZIC, F. L., KAISER, W. J., and MARTINEZ, M. M. The incidence of crown rot of boxed bananas in relation to microbial populations of the crown tissue. Can. J. Bot. 45(4):413-421. Apr.1967. 470 C16C
- 90369 MAGOS, J. Refrigerated storage of summer fruit. (Hu) Kertesz. Szolesz. 16(17):26-27. Sept.1967. 80 K474
- 90370 MARCELLIN, P., LEBLOND, C., and PAULIN, A. Preliminary observations on the physiological behavior of apples in controlled-atmosphere storage. (Fr) Int. Congr. Nutr. Proc., 7th Congr., v.4:688-693. 1966,pub.1967. TX345.I53 1966
- 90371 MATTOO, A. K., and MODI, V. V. Methionine utilization in ripening mangoes. Indian J. Exp. Biol. 5(2):126-127. Apr.1967. 442.8 In2  
Post-harvest ripening.
- 90372 MCBEAN, D. Recommendation for sulphuring cut fruit before drying. Food Technol. Australia 20(3):113. Mar.1968. 389.8 F7333
- 90373 MCDONALD, R. E., and BURNS, E. E. Effects of storage on starch characteristics of Irish potatoes. Tex. Agr. Exp. Sta. MP-880,2 p. Mar.1968. 100 T31M
- 90374 NAKASATO, G. M., and others. Changes influencing fruit processing in Hawaii. Hawaii. Univ. Ext. Misc. Publ. 47:17-30. Dec.1967. S544.3 H3H3  
T. K. Hitch, G. Shiroma, R. A. Souza, J. Holzman, and C. F. Heye, joint authors.  
Marketing, processing and culture.
- 90375 NEUBERT, A. M., and INGALSBE, D. W. Characteristics of apple juice from commercial rack-and-cloth presses. Wash. State Hort. Ass. Proc. Dec.5-7,1966:135-138. 81 W273
- 90376 OSTROWSKI, W. New directions in fruit storing and freezing in Poland. (Pol) Nowe Roln. 16(3):17-19. 1967. 20.5 N86  
Controlled atmosphere storage included.
- 90377 PADBERG, D. The new weekly report on apple storage holdings. N. Y. State Hort. Soc. Proc. 113:199-201. 1968. 81 N484
- 90378 PANEL on commercial experience in modified atmosphere refrigerated (CA) [Controlled Atmosphere] storage operation. Wash. State Hort. Ass. Proc. Dec.5-7,1966:185-192. 81 W273  
Members: D. Bartram, R. M. Coddling, H. A. Schomer, F. Marley, S. Chase.

- 90379 PATCHEN, G. O., and SCHOMER, H. A. Hydrocooling apples for storage. Wash. State Hort. Ass. Proc. 1967:186-187. 81 W273
- 90380 PEREKKODKIN, L. P., and GUSEVA, I. N. Regime and the methods of fruit storage. (Rus) Sadovodstvo [Moscow] 10:27. Oct. 1967. 80 Sa13  
Apples.
- 90381 PIERSON, C. F. The control of storage scald on Golden Delicious apples. Wash. State Hort. Ass. Proc. 1967:195. 81 W273
- 90382 PIERSON, C. F. The control of storage scald on Golden Delicious apples. Wash. State Hort. Ass. Proc. 1967:195-196. 81 W273
- 90383 PORTER, W. L., and ROSS, L. R. Factors affecting the textural quality of French fried potatoes. Plant Sci. Symp. Proc. 1966:27-39. Ref. SB211.P8P59  
Chiefly processing and grading.
- 90384 RAO, K. R. S., and others. Studies on the storage of mandarin oranges (*Citrus reticulata* Blanco) treated with wax or wrapped in diphenyl treated paper. J. Food Sci. Technol. [Mysore] 4(4):165-169. Ref. Dec. 1967. 389.8 J823  
P. Narasimham, B. Anandaswamy, and N. V. R. Iyengar, joint authors.
- 90385 RATNAM, C. V., and NEMA, K. G. Studies on market diseases of fruits and vegetables. Andhra Agr. J. 14(2):60-66. Ref. 1967. 34.2 An4  
Fungus diseases in India.
- 90386 REEDER, W. F., and HATTON, T. T. Physical responses of small limes during holding and storage. Fla. State Hort. Soc. Proc. 80: 382-384. May 1, 1968. 81 F66
- 90387 ROBBINS, B. C. The two P's in apples - planning for processing. Wash. State Hort. Ass. Proc. 1967:128. 81 W273
- 90388 SAWYER, R. L. Storage technology and black spot of potatoes. Plant Sci. Symp. Proc. 1966: 209-219. Ref. SB211.P8P59
- 90389 SCHULTZ, R. W., and SMITH, G. A. Additives raise peeling efficiency. Food Eng. 40(6):95-98. June 1968. 389.8 F737  
Fruit and vegetables.
- 90390 SINGH, K. K., NIJJAR, G. S., and SINGH, G. Studies on the storage behaviour of Dusehri mango at room temperature. Punjab Agr. Univ. J. Res. 4(1):59-67. Ref. Mar. 1967. S19.P8
- 90391 SINGH, N. S., and others. A note on the effect of hot water treatment on colour development in tomatoes. Indian Food Packer 21(6):16. Nov./Dec. 1967. 389.8 In25  
N. V. N. Moorthy, M. S. Krishnaprakash, K. G. Nair, P. Narasimham, and H. C. Bhatnagar, joint authors.  
Post-harvest treatment to increase market value.
- 90392 SMITH, O. Potato chip processing. Potato Handbook 12:46-53. 1967. 75.8 P842P
- 90393 SMITH, O. Summary and observations. Plant Sci. Symp. Proc. 1966:217-222. SB211.P8P59  
Chiefly potato processing and raw material and product quality.
- 90394 SMOOT, J. J., and MELVIN, C. F. Postharvest decay of specialty hybrid citrus fruits in relation to degreening time. Fla. State Hort. Soc. Proc. 80:246-250. May 1, 1968. 81 F66  
Diplodia, Phomopsis, Anthracnose.
- 90395 SPALDING, D. H. Effects of ozone atmospheres on spoilage of fruits and vegetables after harvest. U. S. D. A. Marketing Res. Rep. 801,9 p. 1968. 1 Ag84Mr
- 90396 SPARKS, W. C. Revolution in potato storage. United Fresh Fruit Veg. Ass. Yearbook 1968: 342-348, 351. 280.3939 Un3
- 90397 STANLEY, W. L. Utilization of apples by new processing techniques. Wash. State Hort. Ass. Proc. 1967:129-130. 81 W273  
Drying, canning, and freezing.
- 90398 STEHLIK, G. Fruit juice preservation with gamma rays. (Ge) L E (Lebensmittel Ernähr.) 21(3):5-7. (Cont.) Mar. 1968. 389.8 Z34
- 90399 STEINBUCH, E. Investigation on the improvement of quality of prepared dried legumes. 3. (Du) Conserva 16(11):255-258. Ref. May 1968. 389.8 C7632  
English summary.  
Canning.
- 90400 STOJANOV, B. A method of storing seed potatoes for summer planting. (Se) Sovremeno Zemjod. 13(3):6-7. Mar. 1966. S13.S6
- 90401 SUH, K. B., LEE, S. K., and KIM, K. S. Studies on the tomato solid pack processing utilizing the Popula variety in Korea. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(6):49-59. Ref. Sept. 1967. 22.5 K843  
English summary.
- 90402 TANNER, H. Cherry production from the technological point of view. (Ge) Schweiz. Z. Obst-Weinbau 103(13):385-389. June 24, 1967. 80 Sch9  
Equipment for storage and processing.
- 90403 VAN BUREN, J. P. Pectic substances of sweet cherries and their alteration during SO<sub>2</sub> brining. J. Food Sci. 32(4):435-437. Ref. July/Aug. 1967. 389.8 F7322
- 90404 THE VEGETABLE and fruit processing industry. Amsterdam Econ. Quart. Rev. 5:27-33. June 1966. 280.9 Am7
- 90405 VLADIMIROV, B. M. On suitability of some sorts of tomatoes for commercial processing. (Rus) Izv. Vyssh. Ucheb. Zaved. Pishch. Tekhnol. 3(53):89-91. 1967. 389.8 IZ8
- 90406 WALLNOFER, P., and REHM, H. J. Antimicrobial effect of biphenyl and biphenyl derivatives. III. Influence of biphenyl and Na-o-phenyl phenolate on the development of citrus spoiling molds. (Ge) Zentralbl. Bakteriell. Parasitenk. Infektionskr. Hyg. Abt. II. Naturwiss. 122(1):25-41. 1968. 448.3 C33  
English summary.
- 90407 WATADA, A. E., and MORRIS, L. L. Effect of chilling and non-chilling temperatures on snap bean fruits. Amer. Soc. Hort. Sci. Proc. 89:368-374. Ref. Dec. 1966. 81 So12  
Cold storage of tendergreen snap beans.
- 90408 WATADA, A. E., and MORRIS, L. L. Post-harvest behavior of snap bean cultivars. Amer. Soc. Hort. Sci. Proc. 89:375-380. Dec. 1966. 81 So12  
Cold storage of snap beans.
- 90409 WEBSTER, R. Bright future for winter pears. Wash. State Hort. Ass. Proc. Dec. 5-7, 1966: 55-66. 81 W273  
If properly ripened by producer.
- 90410 WESTPHAL, F. The cooperative relationship between industry, agriculture, and science are necessary for improvement of the quality of baby foods. (Ge) Deut. Gartenbau 15(1):11-12. Jan. 1968. 80 G1948  
Manufacture of fruit and vegetable products.
- 90411 YAMAMURA, E., and others. Application of the S.B. in sweet potato starch production. (Ja) Technol. Soc. Starch. J. 14(4):128-136. May 1967. 309.9 D39  
T. Kono, M. Futatsuki, S. Hanyu, M. Hashiguchi, and K. Honbo, joint authors.

## Statistics

- 90412 BOTTICHER, W. World problems in the use of edible mushrooms. (Ge) Int. Congr. Nutr. Proc., 7th Congr., v. 5:253-259, map. 1966, pub. 1967. TX345.I53 1966  
Production statistics, composition, and nutritive value.
- 90413 CADILLAT, R. M. The pineapple in Mexico. (Fr) Fruits 22(8):371-375. Sept. 1967. 80 F9492  
English summary, p. 391.  
Statistics.



- 90414 COELHO, A. G. DE S., and AUDI, R. Some characteristics of banana plantations on the Northern Coast of Sao Paulo studied through aerial photographs. (Por) Bragantia 25(1): 87-94, map. 1966. 102.5 B73Tb  
English summary.  
Crop distribution studies, including correlations for climate and soil.
- 90415 GERMANY (FEDERAL REPUBLIC). STATISTISCHES BUNDESAMT. Gartenbau und Weinwirtschaft. I. Gemüse; Anbau und Ernte von Gemüse [Horticulture and grape industry. 1. Vegetables; culture and harvesting of vegetables] 1967. Stuttgart, 1968. 37 p. (Its Land- und Forstwirtschaft, Fischerei, Reihe 2) 265 G318G
- 90416 GERMANY (FEDERAL REPUBLIC). STATISTISCHES BUNDESAMT. Gartenbau und Weinwirtschaft. II. Obst; Obsternte [Horticulture and grape industry. II. Fruit; fruit crop] 1967. Stuttgart, 1968. 21 p. (Its Land- und Forstwirtschaft, Fischerei, Reihe 2) 265 G318Ga
- 90417 JESKE, J. Vegetable culture in the open ground. (Ge) Statist. Monh. Schleswig-Holstein 20(2):47-48. Feb. 1968. 265 Sch32Sm  
Statistical.
- 90418 LOEWEL, E. L. Are we making the most of the advantages of a closed fruit production region? (Ge) Obstbauversuchsring Alten Landes. Mitt. 22(3):96-104. Mar. 1967. 85 J76  
Statistics and marketing.
- 90419 OESERT, K. Requirements of the processing industry for field vegetable production remain decisive. (Ge) Betriebswirtsch. Mitt. Wirtschaftsberater 160:7-11. Mar. 15, 1968. 281.8 B462  
Production and marketing statistics for fresh and processed vegetables.
- 90420 PETERSON, B. S. Summary of the 1965 New England fruit tree survey. Mass. Fruit Growers' Ass. Rep. 73:25-28. 1967. 81 M384  
Apples; includes marketing.
- 90421 SAJA, F. Economic developments in the Italian viticulture. (It) Turin. Univ. Fac. Sci. Agr. Ann. 1:89-106. 1961-62, pub. 1966. S9.T8  
French summary.  
Production statistics.
- 90422 WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; apples. Wash. State Univ. Ext. E. M. 2376, rev., 2 p. Feb. 1968. 275.29 W27Mi
- 90423 WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; apricots. Wash. State Univ. Ext. E. M. 2378, rev., 2 p. Feb. 1968. 275.29 W27Mi
- 90424 WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; Bartlett pears. Wash. State Univ. Ext. E. M. 2290, rev., 2 p. Mar. 1968. 275.29 W27Mi
- 90425 WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; blueberries. Wash. State Univ. Ext. E. M. 2572, rev., 2 p. Feb. 1968. 275.29 W27Mi
- 90426 WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; cucumbers and spinach for processing. Wash. State Univ. Ext. E. M. 2526, rev., 2 p. May 1968. 275.29 W27Mi
- 90427 WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; dry edible beans. Wash. State Univ. Ext. E. M. 2487, rev., 2 p. Mar. 1968. 275.29 W27Mi
- 90428 WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; dry edible peas. Wash. State Univ. Ext. E. M. 2516, rev., 2 p. May 1968. 275.29 W27Mi
- 90429 WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; filberts. Wash. State Univ. Ext. E. M. 2382, rev., 2 p. Apr. 1968. 275.29 W27Mi
- 90430 WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; lentils. Wash. State Univ. Ext. E. M. 2798, rev., 2 p. May 1968. 275.29 W27Mi
- 90431 WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; peaches. Wash. State Univ. Ext. E. M. 2377, rev., 2 p. Apr. 1968. 275.29 W27Mi
- 90432 WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; pears, non Bartlett. Wash. State Univ. Ext. E. M. 2291, rev., 2 p. Apr. 1968. 275.29 W27Mi
- 90433 WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; prunes. Wash. State Univ. Ext. E. M. 2393, rev., 2 p. Apr. 1968. 275.29 W27Mi
- 90434 WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; snap and lima beans for processing. Wash. State Univ. Ext. E. M. 2525, rev., 2 p. May 1968. 275.29 W27Mi
- 90435 WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; sour cherries. Wash. State Univ. Ext. E. M. 2392, rev., 2 p. Mar. 1968. 275.29 W27Mi
- 90436 WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; strawberries. Wash. State Univ. Ext. E. M. 2367, rev., 2 p. Mar. 1968. 275.29 W27Mi
- 90437 WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; sweet cherries. Wash. State Univ. Ext. E. M. 2277, rev., 2 p. Mar. 1968. 275.29 W27Mi
- 90438 WELY, A. J. M. VAN. Changes in the area's under apple and pear in the Netherlands. (Du) Neth. Dir. Tuinbouw. Mededel. 30(9):370-372. Sept. 1967. 86 N384

## GRAIN AND GRAIN PRODUCTS

- 90439 ABRAHAM, T. P., and RAHEJA, S. K. An analysis of growth of production of rice and wheat crops in India. Indian J. Agr. Econ. 22(3):1-15. July/Sept. 1967. 281.8 In2  
Statistical.
- 90440 ACKER, L., and SCHMITZ, H. J. On the lipids of wheat starch. II. Identification and isolation of lysolecithin. (Ge) Starke 19(8): 233-239. Ref. Aug. 1967. 309 St22  
English summary.
- 90441 ACKER, L., and SCHMITZ, H. J. On the lipids of wheat starch. III. (Ge) Starke 19(9): 275-280. Sept. 1967. 309 St22
- 90442 ARBEITSGEMEINSCHAFT GETREIDEFORSCHUNG. Grain chemistry conference 1967. (Ge) Mullerei 20(23):356. (Cont.) June 10, 1967. 298.8 M91  
Bundesforschungsanstalt für Getreideverarbeitung, cooperating.  
Abstracts of papers.
- 90443 ARDE, T. It still pays to grow grain. (It) Esso Agr. 16(4):12-13. Aug. 1967. 58.8 Es7  
Impact of European Common Market on grain prices in Italy.
- 90444 AUSTRALIA. BUR. OF CENSUS AND STATISTICS. Manufacturing industries 1965-66. No. 16, Flour and other grain mills. Canberra, 1968. 19 p. 271 Au72Ma
- 90445 BITTELMANN, O. Grain prices sinking--and yet more selective potato growing. (Ge) Kartoffelbau 18(3):61-62. Mar. 1967. 75.8 K145  
Includes potato prices.
- 90446 BOTTAZZI, A. The difficult battle of meat can be won by forcing forage crops and extending and intensifying corn culture. (It) Avvenire Agr. 76(3):59-63. Mar. 1968. 16 Av9
- 90447 BURCH, L. Clean grain begins on the farm. GTA (Grain Terminal Ass.) Dig. 27(4):31, 34. Apr. 1967. 280.28 G11  
For marketing.
- 90448 CHIKUBU, S., ENDO, I., and TANI, T. Studies on cooking and eating qualities of white rice. 2. Measurement of visco-elastic behavior of cooked rice by the parallel plate plastometer. 8 p. Transl. 16875  
Translation from Japanese Society of Food and Nutrition. Journal 16(5). 1964.

- 90449 CHRISTENSEN, C. M., and KAUFMANN, H. H. Maintenance of quality in stored grains and seeds. Minn. Univ. Ext. Ext. Folder 226, rev., 4 p. 1968. 275.29 M66Ex  
Chiefly preventing fungus spread in corn and wheat.
- 90450 CLIFTON, R. E. Kansas reduces grain acreage in 1968. Kans. State Univ. Ext. Ext. Econ. Kans. Farm Bus. Inform., May 1, 1968, 2 p. HD9004.A1K3
- 90451 CLIFTON, R. E. Moisture content of grain affects marketing decisions. Kans. State Univ. Ext. Ext. Econ. Kans. Farm Bus. Inform., Sept. 5, 1967, 2 p. HD9004.A1K3
- 90452 CLIFTON, R. E. The new Food-for-Freedom Program; what it means to Kansas farmers. Kans. State Univ. Ext. Ext. Econ. Kans. Farm Bus. Inform., Feb. 14, 1967, 2 p. HD9004.A1K3 Grain.
- 90453 CRYSLER, R. E. Reconstructing the Roblin Mill. Watersheds 2(3):13-14. Fall 1967. S900 W3  
History of an Ontario grist mill.
- 90454 DANIELS, N. E. Insecticidal residue in soil and grain sorghum. Tex. Agr. Exp. Sta. Progr. Rep. PR-2531, 2 p. Mar. 27, 1968. 100 T31P
- 90455 DESIKACHAR, H. S. R., BHASHYAM, M. K., and PARPIA, H. A. B. Relative yield of total and head rice from raw and parboiled paddy. J. Food Sci. Technol. [Mysore] 4(4):156-158. Dec. 1967. 389.8 J823
- 90456 DOHNE, E. Drying of cereal grains. (Ge) Tierzucht 20(1):20-23. Jan. 5, 1968. 49 T445 Germany.
- 90457 DONAHAYE, E., NAVARRO, S., and CALDERON, M. Storage of barley in an underground pit sealed with a polyethylene liner. J. Stored Prod. Res. 3(4):359-364. Dec. 1967. 421 J829
- 90458 ESCHHAUS, K. Reflections on flour manufacture. (Ge) Muhle 104(23):351-352. June 8, 1967. 298.8 M89
- 90459 FREEBAIRN, J. W. Wheat storage costs in New South Wales. Rev. Marketing Agr. Econ. 35(1):9-42. Mar. 1967. 286.8 N47M
- 90460 FRITSCH, E. Combined investigations as basis for evaluating milling technique. (Ge) Mullerei 20(23):353-355. June 10, 1967. 298.8 M91
- 90461 FRITSCH, E. The use of the new crop as basic plant problem. (Ge) Mullerei 20(25):379-380. June 24, 1967. 298.8 M91  
Grain quality and mixing problems.
- 90462 FRITZ, A., and ULONSKA, E. On the crude fiber content of various barley varieties. (Ge) Bayer. Landwirt. Jahrbuch 44(5):535-539. Ref. 1967. 18 L24
- 90463 FRUCHARD, C., POMA, J., and BURE, J. Contribution to the study of differentiation of hard and soft wheats. II. (Fr) Tech. Meun. 115:15-22. Jan./Feb. 1968. 298.8 T22  
Analysis.
- 90464 GAIKWAD, C. V. Production factors as affecting the quality of rice during milling and storage processes. Bull. Grain Technol. 5(1):21-23. Mar. 1967. TS2120.B8  
In India.
- 90465 GALEOTTI, G. Evolution of consumption of grain for food by Italian families from the last half of the last century to today. (Fr) Int. Congr. Nutr. Proc., 7th Congr., v. 4:53-67. Ref. 1966, pub. 1967. TX345.I53 1966  
English summary.
- 90466 GAMBORG, O. L., and EVELEIGH, D. E. Culture methods and detection of glucanases in suspension cultures of wheat and barley. Can. J. Chem. 46(5):417-421. Ref. May 1968. 470 C16E
- 90467 GAWLOWSKI, K. Some factors of production growth and commercial value of grain. (Pol) Nowe Roln. 16(4):3-4. 1967. 20.5 N86  
In Poland.
- 90468 GEISLER, B., and KASTNER, W. Selling or feeding of wheat and malting barley. (Ge) Bayer. Landwirt. Jahrbuch 44(5):540-548. Ref. 1967. 18 L24  
Comparative values.
- 90469 GETREIDE-Jahrbuch 1966/67, 9. Jahrgang [Grain yearbook 1966/67, 9th year], edited by E. Arnsdorf. Detmold, Verlag Moritz Schafer, 1966. 176 p., map. 284.3599 G33
- 90470 GILL, K. S., and JOHL, S. S. Efficacy of national grades for Punjab agricultural produce. Punjab Agr. Univ. J. Res. 4(2):285-291. June 1967. S19.P8  
Chiefly grain.
- 90471 GOUGH, B. M. Interaction of wheat starch and epichlorohydrin. (Ge) Starke 19(8):240-243. Ref. Aug. 1967. 309 St22
- 90472 GREZNEV, V. Increase of rice production. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 8:20-21. Aug. 1967. 281.8 Se4  
Includes acreage.
- 90473 GUR-ARIEH, C., NELSON, A. I., and STEINBERG, M. P. Studies on the density of water adsorbed on low-protein fraction of flour. J. Food Sci. 32(4):442-445. Ref. July/Aug. 1967. 389.8 F7322  
Pycnometry.
- 90474 HARTLEY, J. H. Seal high moisture grain in a pit. Doanes Agr. Rep. 31(11):35-36. Apr. 8, 1968. 281.8 D652
- 90475 HARTMANN, F. Milling in Turkey. (Ge) Muhle 104(23):353. June 8, 1967. 298.8 M89
- 90476 HENDRIX, W. E., NAIVE, J. J., and ADAMS, W. E. Accelerating India's food grain production, 1967-68 to 1970-71; requirements and prospects for a yearly growth rate of 5 percent. U. S. D. A. Foreign Agr. Econ. Rep. 40, 28 p. 1968. A281.9 Ag8F  
Bibliography, p. 20.
- 90477 HORIUCHI, H., CHIKUBU, S., and TANI, T. Studies on cereal starches. IV. Rheological and chemical properties of domestic rice starches. 14 p. Ref. Transl. 16790  
Translation from Agricultural Chemical Society of Japan. Journal 35(6). 1961.
- 90478 HUEG, W. F. The 53¢ dollar affects research too!! Barley Impr. Conf. Proc. Jan. 19, 1967: 64-67. 59.9 M583  
Includes malting barley.
- 90479 HULUGALLE, L. World situation and outlook for grain. In Warley, T. K., ed. Agricultural producers and their markets, p. 248-267. 1967. HD9000.1.W3
- 90480 INGOLD, M. Cultivation trials of durum wheat in western Switzerland. (Fr) Schweiz. Landwirt. Forsch. 4(3):332-344. Ref. 1967. 17 Sch99  
English summary.
- 90481 ISHIKAWA, S. On the peak of food grain consumption. (Ja) Econ. Rev. 18(3):252-257. Ref. July 1967. 280.8 Ec798
- 90482 KALPAGE, F. S. C. P. Increasing rice production in Ceylon. World Crops 19(1):44-48. Mar. 1967. 281.8 W892  
Includes requirements and statistics.
- 90483 KANSAS WHEAT COMMISSION. Kansas wheat quality in 1967. Topeka, 1967. 25 p., map. 59.9 K137
- 90484 KOCHETKOV, N. A., RUDOV, A. P., and RUDOVA, V. M. Taking grain production into separate account. (Rus) Uchet Finansy Kolhoz. Sovkhoz. 6:14-16. June 1967. 30.69 Uc4  
On the state farms.
- 90485 KUBO, K. On the pressures to the retaining wall of a large cylindrical grain silo. Tokyo Nihon Univ. Coll. Agr. Vet. Med. Bull. 24:45-56. Mar. 1967. 41.9 T5762
- 90486 KURTZ, O. L. Note on problems in sanitation analysis of low grade flours and cinnamon. Ass. Offic. Anal. Chem. J. 50(3):521-523. June 1967. 381 As7
- 90487 LAKSHMANAN, P. P. Transport of paddy from the farms to the markets in India. Agr. Situation India 22(4):361-368. July 1967. 281.9 In23  
Rice.



- 90488 MICIC, B. Refrigeration in the storage of wheat. (Se) Glasnik 12(2):43-46. 1968. 280.28 Z13
- 90489 MINNE, J. A. The production of aflatoxins in naturally infected high quality maize. Repub. S. Afr. Dep. Agr. Tech. Serv. Tech. Commun. 71,5 p. 1968. 24 So863  
Infection with *Aspergillus flavus*.
- 90490 MOTOC, L. Study of the correlation existing between the main qualitative indicators of the flour. (Rum) Indus. Aliment. 19(2):64-66. Feb. 1968. 389.8 In26  
English summary, p.113.
- 90491 NESMEYANOVA, G. YA. Geographical difference in the dynamics of crop yields of cereals on the territory of the non-chernozem centre in the period of the development of capitalism. (Rus) Moscow Univ. Vestnik. Ser. 5 Geogr. 2:113-119. Mar./Apr. 1967. 331.9 M85
- 90492 NOVOZHILOVA, G. N., DENISENKO, YA. I., and NECHAEV, A. P. Chemical composition of liquids of some sorts of oats. (Rus) Izv. Vyssh. Ucheb. Zaved. Pishch. Tekhnol. 3(58): 28-29. 1967. 389.8 IZ8  
USSR.
- 90493 NURET, H., and WILLM, C. Diagram modification. (Fr) Paris. Ecole Franc. Meun. Bull. Anciens Eleves 218:71-74. Mar./Apr. 1967. 298.9 P21
- 90494 O'BRATE, J. L. U.S. and Canada team up to inspect grain. Agr. Marketing [Washington] 13(7):10. July 1968. A280.38 Ag8
- 90495 OGAREV, V. More attention to winter grain. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 9: 20-21. Sept. 1967. 281.8 Se4  
Industry and policies.
- 90496 PHILLIPS, SIR. L. The marketing of grain. In Warley, T. K., ed. Agricultural producers and their markets, p.268-272. 1967. HD9000.1.W3
- 90497 QUAIST, D. G. Studies on the quantitative and qualitative content of protein in samples of corn (*Zea mays* L.). (Por) Pesquisa Agropecuar. Brasil. 1:225-232. Ref. 1966. S15.P42  
English summary.
- 90498 RAGHAVENDRA, S. N., NARAYANA, M. N., and DESIKACHAR, H. S. R. Studies on some comparative milling properties of raw and par-boiled rice. J. Food Sci. Technol. [Mysore] 4(4):150-155. Dec. 1967. 389.8 J823
- 90499 ROBERTS, R. H. Canadian farmers request higher prices for wheat. Foreign Agr. 6(25):9. June 17, 1968. A281.9 F76Fo
- 90500 ROBINSON, B. H., and HOOVER, D. M. An economic analysis of factors affecting the acreage of corn in North Carolina. N. C. Agr. Exp. Sta. Tech. Bull. 182,51 p. Ref. Jan. 1968. 100 N81  
U. S. Department of Agriculture, cooperating. Returns and government policy.
- 90501 ROHRlich, M., and GALLERT, H. Clarification of the primary structure of peptides from wheat gliadin. (Ge) Int. Congr. Nutr. Proc., 7th Congr., v.5:249-253. 1966, pub. 1967. TX345.I53 1966
- 90502 ROHRlich, M., and NIEDERAUER, T. Investigations on fat-protein complexes in cereals. II. Composition of protein- and lipid-components. (Ge) Fette, Seifen, Anstrichmittel 70(2): 58-62. Feb. 1968. 384 C422  
English summary.
- 90503 ROHRlich, M., and MEUSER, F. Investigations on grain fumigated with hydrogen phosphide. I. On the activity of glutamic acid decarboxylase after fumigation. (Ge) Getreide Mehl 17:121-125. Nov. 1967. 298.8 G332  
Wheat.
- 90504 ROOFAYEL, R. L. A note on prediction of starch content in sorghum grain. Queensland J. Agr. Anim. Sci. 24(3/4):365-368. Sept./Dec. 1967. 23 Q37
- 90505 RUMSEY, G. After those extra shillings. Arable Farmer 1(7):24-25. May 1967. S3.A7  
Grain prices in Great Britain.
- 90506 SCHWARZE, P. The variability in composition of the protein complex of wheat varieties and the relationships of the individual components to the sedimentation test. (Ge) Z. Pflanzenzucht. 58(1):58-72. Ref. Aug. 1967. 450 Z36  
English summary.
- 90507 SENSER, F. Occurrence and identification of toxin-forming mold fungi of the *Aspergillus flavus* group. (Ge) Deut. Lebensmittel-Rundsch. 63(5):140-144. May 1967. 389.8 D482  
In food; included aflatoxin production.
- 90508 SHIYOMI, M., and FUKUNAGA, K. An application of fractional factorial design and principal component technique to milling quality tests of wheat. (Ja) Tokyo. Nat. Inst. Agr. Sci. Bull. Ser. A (Phys. Statist.) 14:85-122. Ref. Mar. 1967. 334.9 C43  
English summary.
- 90509 SHOVE, G. C. Aerating stored dry grain. Ill. Univ. Ext. Circ. 984,12 p. Apr. 1968. 275.29 IL62C
- 90510 SHTEINMAN, M. YA. Taking output of grain more exactly into consideration. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 6:16-19. June 1967. 30.69 Uc4  
Accounting.
- 90511 SIGAL, L. A. On rational territorial distribution of brewer's malt production in the USSR. (Rus) Izv. Vyssh. Ucheb. Zaved. Pishch. Tekhnol. 3(58):16-19. 1967. 389.8 IZ8
- 90512 SLABONSKI, A., and PIECH, M. Evaluation of baking quality of winter wheat varieties in West Pomerania environment. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:216-219. 1966, pub. 1967. 20.5 St4
- 90513 SLABONSKI, A. Possibilities of increasing barley acreage. (Pol) Nowe Roln. 16(4):5-7, map. 1967. 20.5 N86  
Includes world data on yields.
- 90514 SORENSON, L. O. Railroad freight car situation. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., July 5, 1967, 2 p. HD9004.A1K3  
Kansas transportation of grain.
- 90515 STABONSKI, A., and PIECH, M. Baking quality of spring wheat varieties in West Pomerania environment. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:220-223. 1966, pub. 1967. 20.5 St4  
English summary.
- 90516 TAYLOR, B. Saskatchewan wheat pool. Year Book Agr. Co-op. 1967:259-264. 280.29 H78
- 90517 THERON, J., PURCHASE, I., and NEL, W. Occurrence and pathologic effects of toxigenic fungi in a predominantly cereal diet. Int. Congr. Nutr. Proc., 7th Congr., v.4:732-734. 1966, pub. 1967. TX345.I53 1966  
Among the Bantu of South Africa.
- 90518 TRIBOI, K. M. Exact accounting of yields. (Rus) Uchet Finansy Kolkhoz. Sovkhoz. 9:10-13. Sept. 1967. 30.69 Uc4  
Grain.
- 90519 VERMEIRE, H. A. Influencing the proteolytic activity of malt. (Du) Int. Tijdschr. Brouwerij Mouterij 27(5):138-142. 1967/68. 390.8 R32Af  
Includes discussion.
- 90520 VORWERCK, K. The influence of mineral content of wheat endosperm on flour yield. (Ge) Muhle 104(24):363-366. June 15, 1967. 298.8 M89
- 90521 WELSCH, D. E. Impact of yield and acreage changes on rice drying and storage facilities in Texas. Tex. Agr. Exp. Sta. MP-862, 12 p. Ref. Jan. 1968. 100 T31M
- 90522 WINFIELD, R. G. Farm drying and storage - possibilities and costs. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:155-158. 64.9 On83  
Corn and grain.

- 90523 YAKOVENKO, V. A., ISAROVA, L. YU., and DEKHTYARENKO, G. A. Chemical composition of maize grain in connection with after-harvest treatment. (Rus) *Izv. Vyssh. Ucheb. Zaved. Pishch. Tekhnol.* 3(58):24-27. 1967. 389.8 IZ8

## HONEY AND BEESWAX

- 90524 AGNALT, S. Honey marketing in Norway. (No) *Nord. Bitidskr.* 18:31-38. 1966. 424.8 N752
- 90525 CREMER, E., and RIEDMANN, M. Gas-chromatographic investigations on the question of honey aroma. 3 p. Ref. Transl. 16873  
Translation from *Monatshefte fur Chemie* 96 (2):364-368. 1965.
- 90526 HANSSON, A. Factors influencing the consistency of honey. (Sw) *Nord. Bitidskr.* 18:42-43. 1966. 424.8 N752
- 90527 PEDERSEN, N. J. Handling and distribution of honey. (Da) *Nord. Bitidskr.* 18:28-29. 1966. 424.8 N752  
Denmark.
- 90528 PELLMYR, N. Honey marketing in Sweden through the years. (Sw) *Nord. Bitidskr.* 18:39-41. 1966. 424.8 N752
- 90529 RIIILA, E. Honey marketing in Finland. (Sw) *Nord. Bitidskr.* 18:30. 1966. 424.8 N752
- 90530 SMITH, F. G. Deterioration of the colour of honey. *J. Apicult. Res.* 6(2):95-98. 1967. 424.8 J82
- 90531 WHITE, J. W., and KUSHNIR, I. The enzymes of honey: examination by ion-exchange chromatography, gel filtration, and starch-gel electrophoresis. *J. Apicult. Res.* 6(2):69-88. 1967. 424.8 J82

## LIVESTOCK AND LIVESTOCK PRODUCTS

- 90532 ANDERSON, G. Production and marketing prospects for meat. *Ruakura Farmers Conf. Week Proc.* 1967:141-146. Apr.9,1968. 49.9 R82  
In New Zealand.  
Includes discussion.
- 90533 BECHET, P. Prospects for intensification of cattle meat production in Mediterranean areas. (Fr) *Mediterranea* 16:274-281. Oct./Dec.1967. 281.8 M462  
English summary.
- 90534 BELIC, J. Problems of production of animal proteins. (Se) *Savremena Poljoprivreda* 15(4):329-338. Apr.1967. 21 P75
- 90535 BLUDOVSKY, J. Determination of trends in the development of production capacities of meat industry. (Cz) *Zpravod. Masneho Prum., Jan.*1967:1-4. TS1950.Z6
- 90536 BRABEC, J. Is the reduction of administrative costs in meat industry real. (Cz) *Zpravod. Masneho Prum., Mar.*1966. TS1950.Z6
- 90537 BRIDGER, G. Livestock production policies in Latin America. *World Rev. Anim. Prod.* 3(14):70-78. July/Sept.1967. 49 W89
- 90538 CLEVA-KURSCHEN, F. European Common Market. (It) *Terra Trentina* 14(2):79-81. (Cont.) Feb.1968. 16 T277  
Regulation for livestock and dairy products.
- 90539 CLEVA-KURSCHEN, F. European Common Market. D. Livestock and dairy products. (It) *Terra Trentina* 14(1):23-27. (Cont.) Jan.1968. 16 T277
- 90540 COPPERSMITH, R. L. Hog outlook. *Kans. State Univ. Ext. Looking Ahead K-State Econ., Apr.*17,1968,1 p. HD9284.U5K3
- 90541 DATTILO, M. Production and characteristics of horse meat. (It) *Inform. Zootec.* 14(23):12-13. Dec.15,1967. 49 In3
- 90542 DESCHUYTENER, G. The importance and possibilities of raising livestock in Rwanda. (Fr) *Ann. Gembloux* 73(2):61-76, map. Ref. 1967. 13 G28
- 90543 DICKSON, R. Canada's meat industry—the problems. *Food Can.* 28(3):31-33. Mar.1968. 389.8 F7323
- 90544 DIFFIDENTI, G. A. Fresh pork for everybody. (It) *Inform. Zootec.* 14(23):18. Dec.15,1967. 49 In3  
In Italy.
- 90545 DOLADO GOMEZ, F. The Provincial Deputation of Lerida and livestock. (Sp) *Lerida Pecuar.* (ser.4)10:35-38. Dec.1966. 41.8 L56
- 90546 FEVEREIRO, A. C. DE T. Meat supply in the northern centers of the Province. (Por) *Mozambique. Serv. Vet. An.* 10:45-58. 1962, pub. 1966. 41.9 M872  
Economic development of cattle industry as source of meat.
- 90547 FISCHETTI, B. Revival of interest in sheep. (It) *Agri Forum* 9(4):119-121. Apr.1968. 16 Ag8233  
Industry.
- 90548 GUNNING, B. A., and EVERITT, G. C. Problems and prospects in dairy beef production. *Ruakura Farmers Conf. Week Proc.* 1967:82-94. Apr.9,1968. 49.9 R82  
Includes beef costs.
- 90549 HANC, B. Main goals of the meat economy of Poznan Province for the years 1966-1970. (Pol) *Gosp. Miesna* 19(5):3-5. May 1967. 50.8 G69
- 90550 HOMB, T. Future prospects of West European beef cattle production. (No) *Buskap Avdratt* 2:121-124. 1967. 49 B96
- 90551 HOUST, J., and JANAK, Z. Meat industry of Yugoslavia. (Cz) *Zpravod. Masneho Prum., Mar.*1966:5-7. TS1950.Z6
- 90552 JANICEK, J., and BLUDOVSKY, J. More attention to the production and processing of meat. (Cz) *Zpravod. Masneho Prum., Mar.*1966:2-4. TS1950.Z6
- 90553 KOHOUT, J. The development of meat industry and the main tasks of the 4th Five-Year Plan. (Cz) *Zpravod. Masneho Prum., Mar.*1966:1-2. TS1950.Z6
- 90554 LIE, B. Beef in the Common Market. (No) *Buskap Avdratt* 3:232-235. 1967. 49 B96  
Production and marketing.
- 90555 MEAT and wool industry in the Kalmyk ASSR. (Rus) *Sel'skokhoz. Proizvodstvo Povolzh'ya* 8:6-12. Aug.1967. 281.8 Se4
- 90556 MILLER, M. Where are we headed in the beef industry? *Tex. Livestock J.* 26(11):7,26-27. Nov.15,1967. 49 T29
- 90557 MORAIS, M. T. The meat supply for the City of Quelimane. (Por) *Mozambique. Serv. Vet. An.* 10:37-43. 1962, pub.1966. 41.9 M872  
Especially beef.
- 90558 OLIVEIRA, C. G. DE. Some considerations on possible influences of prices of cattle and meat and other factors in the economy of slaughter livestock. (Por) *Mozambique. Serv. Vet. An.* 10:75-83. 1962, pub.1966. 41.9 M872
- 90559 OREGON. AGRICULTURAL EXPERIMENT STATION. Characteristics of the Pacific Northwest beef industry. *Oreg. Agr. Exp. Sta. Spec. Rep.* 256,60 p., map. May 1968. 100 Or3M  
U.S. Department of Agriculture, cooperating.  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 90560 PETEVA, Z., and SANDEV, S. Tendencies in development of cattle, sheep, and swine husbandry in United States. (Bu) *Zhivotnovodstvo* 21(1):45-47. Jan.1967. 49 Z62
- 90561 PETROV, D. Development of animal husbandry and forage resources of Bulgarian cooperatives. (Bu) *Zhivotnovodstvo* 21(1):40-44. Jan. 1967. 49 Z62  
Production regions.
- 90562 PORTUGAL, J. DA S. Sheep raising in Portugal—present situation and prospects. (Por) *Port. Dir. Geral Serv. Pecuarios. Bol. Pecuarios. Bol. Pecuario* 35(1):5-15. 1967. 41.8 P83  
English summary.
- 90563 PURCELL, J. C. Trends and relations in the livestock-meat sector affecting prices and revenue to primary producers. *Ga. Agr. Exp. Sta. Res. Bull.* 35,34 p. Ref. May 1968. S51.E2



- 90564 SCHALL, S. Site orientation of cattle raising in Bavaria and bases for its estimation. (Ge) Bayer. Landwirt. Jahrbuch 44(4):453-472, map. Ref. 1967. 18 L24  
Statistical material.
- 90565 SCHOONOVER, D. M. Soviet livestock expansion slows. Foreign Agr. 6(25):5-6. June 17, 1968. A281.9 F76Fo
- 90566 TORRENT MOLLEVI, M. The deficit of meat and of grains for feed. (Sp) Lerida Pecuar. (ser.4)10:38-39. Dec.1966. 41.8 L56  
Spain's needs.
- 90567 VON CATRON, D. Future contributions of pork to human nutrition. Int. Congr. Nutr. Proc., 7th Congr., v.4:901-902. 1966, pub.1967. TX345.I53 1966  
Outlook for production.
- 90568 VON WUELFING, J. Has sheep keeping a future? (Ge) Mitt. Deut. Landwirt.-Ges. 83(15): 501-502, 519-520. Apr.11, 1968. 18 N39  
18 N39
- 90569 WALKER, J. This is the way beef may develop by 1975. J. Agr. [Melbourne] 65(2):468-472. Nov.1967. 23 V66J  
Beef cattle outlook.
- 90570 WITT, M. Trends in the development of milk and meat production in the cattle population to the year 2000. (Ge) Int. Congr. Nutr. Proc., 7th Congr., v.4:895-901. 1966, pub.1967. TX345.I53 1966

#### Analysis and Composition

- 90571 ARMSTRONG, C. W. B. An improved device for the insertion of meat samples into butyrometers used in the Gerber test for fat in meat. S. Afr. J. Agr. Sci. 10(2):563, 565. June 1967. 24 Su3
- 90572 ATALAIÁ, V. M. The laboratory in identification and expertise of meat. (Por) Mozambique. Serv. Vet. An. 10:25-28. 1962, pub.1966. 41.9 M872
- 90573 BORCHERT, L. L., and others. Electron microscopy of a meat emulsion. J. Food Sci. 32(4):419-421. Ref. July/Aug.1967. 389.8 F7322  
M. L. Greaser, J. C. Bard, R. G. Cassens, and E. J. Briskey, joint authors.
- 90574 BUSCH, W. A., PARRISH, F. C., and GOLL, D. E. Molecular properties of post-mortem muscle. 4. Effect of temperature on adenosine triphosphate degradation, isometric tension parameters, and shear resistance of bovine muscle. J. Food Sci. 32(4):390-394. Ref. July/Aug.1967. 389.8 F7322
- 90575 DUGGLEBY, J. C., and SEEBECK, R. M. Potassium and caesium-137 distributions in Angus steer carcasses. J. Agr. Sci. [London] 69(2): 149-153. Ref. Oct.1967. 10 J822  
Australia; possible relation to feed intake.
- 90576 EKSTAM, M. More about a practical antibiotic test. (Sw) Svensk Veterinartidn. 19(23):664-666. Dec.1967. 41.9 Sv23  
For presence in meat.
- 90577 ISKANDARYAN, A. K. On the mechanism of accelerated aroma formation in salted pork. (Rus) Izv. Vyssh. Ucheb. Zaved. Pishch. Tekhnol. 3(58):81-83. 1967. 389.8 IZ8
- 90578 JANICKI, M. A., KORTZ, J., and ROZYCZKA, J. Relationship of color with certain chemical and physical properties of porcine muscle. J. Food Sci. 32(4):375-378. Ref. July/Aug. 1967. 389.8 F7322
- 90579 JAY, J. M. Response of the phenomena of extract-release volume and water-holding capacity to irradiated beef. J. Food Sci. 32(4): 371-372. July/Aug.1967. 389.8 F7322
- 90580 KANAGY, J. R. Moisture permeation of leather and plastics used in shoes. Amer. Leather Chem. Ass. J. 62(2):115-122. Feb.1967. 303.9 Am32
- 90581 KLIMA, D., BLANKA, R., and VESELA, V. Speedy laboratory methods for the determination of freshness of meat and animal fats. (Cz) Zpravod. Masneho Prum., Mar.1966:13-15. TS1950.Z6  
English summary.
- 90582 LEHNHERR, F., and RAMSEIER, H. Contribution to thin-film chromatographic determination of orthophosphate and condensed chain-type phosphates in agents inhibiting blood coagulation. (Ge) Alimenta 5(6):211-215. Ref. 1966. TP368.A4  
Of slaughter animals.
- 90583 MAESER, M. The stiffness test. Amer. Leather Chem. Ass. J. 62(8):548-563. Aug.1967. 303.9 Am32  
For leather.
- 90584 MELLON, E. F., GRUBER, H. A., and BITCOVER, E. H. Differences in amino acid content between calfskin and ligament elastins. Amer. Leather Chem. Ass. J. 62(2):90-96. Feb.1967. 303.9 Am32  
Includes discussion.
- 90585 REID, J. A., and MAESER, M. Correlation between strength tests for leather. Amer. Leather Chem. Ass. J. 62(7):468-486. July 1967. 303.9 Am32
- 90586 REIHSMANN, R. M. The influence of nonpolymeric modifiers on resin filled side upper leather. Amer. Leather Chem. Ass. J. 62(9): 636-646. Sept.1967. 303.9 Am32
- 90587 STROMER, M. H., and GOLL, D. E. Molecular properties of post-mortem muscle. 3. Electron microscopy of myofibrils. J. Food Sci. 32(4): 386-389. Ref. July/Aug.1967. 389.8 F7322
- 90588 SULSER, H., SCHENK, P., and BUECHI, W. Quantitative determination of various contents of commercial meat extracts. (Ge) Mitt. Geb. Lebensmitteluntersuch. Hyg. 58(3):157-165. Ref. 1967. 389.9 Sw6  
English summary.  
Beef and whale meat.
- 90589 WYLER, O. On analytical-chemical evaluation of meat quality; contribution to the discussion on so-called "muscle protein." (Ge) Mitt. Geb. Lebensmitteluntersuch. Hyg. 58(1):49-55. 1967. 389.9 Sw6  
English summary.
- 90590 WYLER, O. The polyphosphate content of blood plasma and of the broth sausages made from it. (Ge) Mitt. Geb. Lebensmitteluntersuch. Hyg. 58(4):258-266. 1967. 389.9 Sw6

#### Consumption and Utilization

- 90591 CARPENTER, E. M. Supplying beef the consumer requires. New Zeal. Meat Prod. 12(1): 35. Oct.2, 1967. 50.8 N48
- 90592 DE VITA, R. New processes for the rendering and utilization of animal by-products. (It) Riv. Ital. Sostanze Grasse 45(1):7-9. Jan.1968. 307.8 OL3  
English summary.
- 90593 HAMMETT, R. A. Meat buying habits of urban homemakers. Ala. Agr. Exp. Sta. Bull. 378, 31 p. Apr.1968. 100 AL15

#### Distribution, Marketing, and Transportation

- 90594 ANADON PINTO, R., and VILLA GRAU, J. Regulation of the swine market. (Sp) Lerida Pecuar. (ser.4)9:4-6, 9-13. Ref. Nov.1966. 41.8 L56  
Spain.
- 90595 BAIN, J. Beef for Father's Day program continues growth. Over Feed Bunk Annual Edition 1967:10. 389.79 Ov2
- 90596 BAKER, J. L. Commercial undertakings; cattle sales. Fiji Farmer 3(1):10-12. Mar.1967. 25 F473
- 90597 BATT, A. P. Pork marketing. Meggitt Feed Leadership 13:2-3. Aug./Oct.1967. SF95.A1M4

- 90598 BUCKNALL, V. J. L. The history, functions and significance of F.M.C. [Fatstock Marketing Corporation] (Meat) Limited. In Warley, T. K., ed. *Agricultural producers and their markets*, p.367-370. 1967. HD9000.1.W3
- 90599 DYKA, S., and URBAN, R. Seasonal and rhythmic variations on the meat market. (Pol) *Gosp. Miesna* 19(2):5-7. Feb.1967. 50.8 G69 Supply and demand.
- 90600 FOWLER, S. H. Merchandising purebred cattle. *Can. Cattlemen* 30(11):46-47. (Cont.) Nov.1967. 49 C16
- 90601 HOWELL, S., and THOMAS, A. Weaner pig marketing in Wales. *Year Book Agr. Co-op.* 1967:147-149. 280.29 H78
- 90602 MAGDANZ, D. What about average slaughter weights? *Livestock Feeder* 15(1):8-9. Sept. 1967. 49 L759 Beef cattle marketing and prices.
- 90603 MANNING, T. W. Country livestock auctions and market performance. Alberta. Univ. Dep. Agr. Econ. Agr. Econ. Tech. Bull. 1,36 p. Ref. Sept.1966. HD1790.A35A4
- 90604 MEHRLE, F. Some considerations about new regulations concerning the purchase of animals. (Ge) *Deut. Tierarztl. Wochenschr.* 74 (12):310-312. June 15,1967. 41.8 D482 English summary.
- 90605 PEERY, C. M. Promotion of an Angus herd. *Va. Angus Ass. Handbook* 1968:25-28. SF199.A14V5
- 90606 PHILLIPS, R. Agricultural co-operation in Wales; suckled calf marketing. *Year Book Agr. Co-op.* 1966:123-128. 280.29 H78
- 90607 TEMPLE, R. S. Cattle and livestock products: world production and consumption. *Mediterranea* 16:248-264. Oct./Dec.1967. 281.8 M462
- 90608 THIEMAN, H. Promotion is the key. *Okla. Cowman* 8(1):32. Jan.1968. 43.8 Ok42 Cattle marketing.
- 90609 VON PAAR, J. R. R. What marketing possibilities does lamb-meat have? (Ge) *Mitt. Deut. Landwirt.-Ges.* 83(15):523-525. Apr.11,1968. 18 N39 European Common Market.
- 90610 VRCHLABSKY, J. The losses in live weight and body measurement and in carcass yields of swine during transportation. (Cz) *Zpravod. Masneho Prum., Jan.* 1967:27-30. TS1950.Z6 English summary.
- 90611 WALKER, M. L. Frozen meats in your future. *Kans. State Univ. Ext. Looking Ahead K-State Econ., May* 8,1968. 2 p. HD9284.U5K3 Marketing advantages.
- 90617 KNOTHE, H. Antibiotics in animal raising and possible effects on man with respect to allergies and bacterial resistance. (Ge) *Int. Congr. Nutr. Proc., 7th Congr., v.4:*745-752. Ref. 1966, pub.1967. TX345.153 1966
- 90618 SMIT, M. P. The control on meat and meat products. (Du) *Tijdschr. Diergeneesk.* 92(12):763-775. Ref. June 15,1967. 41.8 T431 English summary.
- 90619 SMIT, M. P., and KOOL, W. H. Problems about the preservation of instruments for bacteriologic meat inspection. (Du) *Tijdschr. Diergeneesk.* 92(3):1445-1451. Feb.1,1967. 41.8 T431 English summary.
- 90620 TIEWS, J. Feed additives are not foot additives. (Ge) *Int. Congr. Nutr. Proc., 7th Congr. Congr., v.4:*768-774. 1966, pub.1967. TX345.153 1966
- 90621 VAN GENDEREN, H. T. Toxicological considerations with regard to the planning of metabolism studies of feed additives and contaminants. *Int. Congr. Nutr. Proc., 7th Congr., v.4:*766-767. 1966, pub.1967. TX345.153 1966 Residues in food.
- 90622 ZLAMALOVA, J. Determination of the degree of bacteriologic contamination of meat cutting lines and lines for liver meat. (Cz) *Zpravod. Masneho Prum., Mar.* 1966:17-20. TS1950.Z6 English summary.

#### Prices, Price Control, and Rationing

- 90623 BREIMYER, H. F. What you can do to influence the price you receive for cattle. *Cattleman* 54(6):37. Nov.1967. 49 C29
- 90624 LINDHE, B. High prices for quality calves. (No) *Buskap Avdratt* 2:91-93. 1967. 49 B96
- 90625 MCCOY, J. H. High level meat production, a factor in livestock prices. *Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Jan.* 30,1968. 2 p. HD9004.A1K3 Meat consumption, outlook, and prices.
- 90626 PALME, L. A. The cattle pricing system. *Cattleman* 54(6):36-37. Nov.1967. 49 C29 Includes beef.
- 90627 PARISH, R. M. Price "levelling" and "averaging." *Farm Econ. [Oxford]* 11(5):187-198. 1967. 281.8 F223 Meat.
- 90628 RICKARD, R. C. Beef and veal in the Common Market. *Great Brit. Min. Agr. Fish. Food. Agr.* 73(12):584-587, map. Dec.1966. 10 G79J Price control.
- 90629 SCHOEN, L. The value of the various cuts of mutton. (Ge) *Mitt. Deut. Landwirt.-Ges* 83 (15):516-519. Apr.11,1968. 18 N39 In Germany.

#### Grading, Inspection, Standardization, and Quality

- 90612 BRANNANG, E. Grading beef. (Sw) *Skand. Kreaturforsakringsbolaget Manadsbl.* 45(7/8):88-92. 1967. 49.9 Sk1
- 90613 CORREIA, A. A. D. Contribution to the study of the degree of freshness in meats. (Por) *Lisbon. Escol. Super. Med. Vet. An.* 8:219,221-247. 1966, pub.1967. 41.9 L682 English summary.
- 90614 FERREIRA, A. J. Two judicial problems connected with sanitary inspection. (Por) *Lisbon. Escol. Super. Med. Vet. An.* 8:15,17,19-27. 1966, pub.1967. 41.9 L682 Inspection of meat animals post-mortem in Portugal, especially for African swine fever.
- 90615 HAKS, L. J., and NOODER, H. J. Routine inspection on salmonellosis with a view on the serious danger of contamination by way of meat transport by car. (Du) *Tijdschr. Diergeneesk.* 93(5):298-302. Mar.1,1968. 41.8 T431 English summary.
- 90616 JEDLICKA, J. To the problems of pork quality. (Cz) *Pol'nohospodarstvo* 14(3):220-221. 1968. 19.5 P752

#### Processing and Storage

- 90630 AUSTRALIA. BUR. OF CENSUS AND STATISTICS. *Manufacturing industries 1965-66.* No.23, Meat and fish preserving. Canberra, 1968. 15 p. 271 Au72Ma
- 90631 BALTZER, J. Cattle slaughtering, hygiene and keeping quality. III. (Da) *Danske Dyrslaegerfor. Medlemsbl.* 50(12):522-530. June 15, 1967. 41.9 D23 Freezing, cold storage and bacterial contamination.
- 90632 BHATIA, B. S., and GOPALA RAO, K. R. Tenderization of meat. *Indian Food Packer* 21(4):13-19. Ref. July/Aug.1967. 389.8 In25 Includes beef and poultry.
- 90633 CANTONI, C., and others. Studies on the ripening of coppa sausage. (It) *Arch. Vet. Ital.* 18(5):335-350. Ref. Oct.31,1967. 41.8 Ar25 M. R. Molnar, C. Calcinardi, P. Renon, and D. Gouliamas, joint authors. English summary.
- 90634 CRISTEA, E. Experiments on a new brining mixture. (Rum) *Indus. Aliment.* 19(2):88-89. Feb.1968. 389.8 In26 English summary, p.113. For the ripening of meats.



- 90635 DICKSON, R. Meat packers and retailers examine central processing. Food Can. 28(3):44. Mar.1968. 389.8 F7323  
In the United States and Canada.
- 90636 DONOVAN, R. G., COLE, R. L., and GAND-BHIR, S. S. Practical assays of bating enzymes. Amer. Leather Chem. Ass. J. 62(8): 565-574. Ref. Aug.1967. 303.9 Am32  
A method for evaluating the action of the enzymes on hides.  
Includes discussion.
- 90637 DVORAK, Z. The opinion of a biochemist on the use of soybeans in meat products. (Cz) Zpravod. Masneho Prum., Jan.1967:32-36. TS1950.Z6
- 90638 FAUTZ, J. Untersuchungen uber Veränderungen einiger wasserlöslicher, aromabildender Verbindungen während der Kochschinkenherstellung [Studies on the changes of some water-soluble flavor forming compounds during cooked ham production]. Munich. Univ. Tier-arztl. Fak. [Inaug.-Diss.] 32,95 p. 1967. 41.2 M9222  
English summary.  
Bibliography, p.80-95.  
Nitrite curing salt and sodium chloride.
- 90639 FREIXO, J. The action of cold in food processing. (Por) Conserv. Peixe 22(258):27. (Cont.) Sept.1967. 389.8 C7692  
Meat freezing.
- 90640 GOLA, J. Liquid paprika concentrate. (Cz) Zpravod. Masneho Prum., Jan.1967:31-32. TS1950.Z6  
English summary.  
In meat processing.
- 90641 GOLOVKIN, N. A., and others. Change of the free amino acid content during storage of cooled meat. (Rus) Prikl. Biokhim. Mikrobiol. 3(2):184-188. Apr.1967. 385 P93  
O. S. Shagan, A. A. Vasilyev, E. M. Miltsina, joint authors.
- 90642 HAFFERT, K. Recent changes in the location factors of South Africa's developing meat processing industry. Agrekon 6(4):21-31. Oct.1967. 281.8 Ag835
- 90643 HUCKO, J. Mechanization of handling of finished products in meat industry. (Cz) Zpravod. Masneho Prum., Jan.1967:12-14. TS1950.Z6
- 90644 JANICEK, J. The effectiveness of rat control, pest control and sanitation. (Cz) Zpravod. Masneho Prum., Jan.1967:8-12. TS1950.Z6  
In the meat industry.
- 90645 KAWAMURA, A., and WADA, K. Studies on the composition of chrome tanning liquors and their reaction with hide substance. Amer. Leather Chem. Ass. J. 62(9):612-634. Ref. Sept.1967. 303.9 Am32  
Chromium sulfate.
- 90646 KOJ, F., and JANISZEWSKA, K. The influence of microwave oven on the quality of meat foods and their digestibility. (Ge) Int. Congr. Nutr. Proc., 7th Congr., v.4:677-681. Ref. 1966, pub. 1967. TX345.I53 1966
- 90647 KUSZ, J., and others. Modern methods of the production of sausages with automated link line. (Cz) Zpravod. Masneho Prum., Jan. 1967:20-24. TS1950.Z6  
I. Simek, S. Kapounek, D. Hujnakova, and M. Kopalova, joint authors.  
English summary.
- 90648 LECKIE, H. K., and others. Six top men offer advice and possible solutions to a troubled Canadian meat packing industry. Food Can. 28(3): 34-38. Mar.1968. 389.8 F7323  
N. Matheson, A. J. E. Child, F. P. Schneider, J. R. A. Robinson, and P. L. Ayers, joint authors.
- 90649 MARGADO, F. DE P. Improvement of sausage production in Mozambique. II. (Por) Gaz. Agr. [Lourenco Marques] 19(215):98-103. Apr.1967. 24 G25
- 90650 MIHALYI, V., and KORMENDY, L. Changes in protein solubility and associated properties during the ripening of Hungarian dry sausages. Food Technol. 21(10):108-111. Ref. Oct.1967. 389.8 F7398
- 90651 MOLLER, P. L. Cooling of pigs. (Da) Kulde 21(3):29-34. June 1967. 295.8 K95  
Carcasses.
- 90652 NICOLESCU, L., and others. Experimental study and recommendations concerning a new method for the quick refrigeration of pork carcasses. (Rum) Indus. Aliment. 19(2):67-69. Ref. Feb.1968. 389.8 In26  
S. Vasilescu, V. Bercescu, A. Savu, and M. Nacea, joint authors.  
English summary, p.113.
- 90653 PARAK, V. Corrosion and its control in meat industry. (Cz) Zpravod. Masneho Prum., Mar. 1966:8-9. TS1950.Z6  
Protection of processing equipment.
- 90654 RAO, D. P. G., and RAMANATHAN, N. Effect of pretanning and tanning treatments on the friction of collagen fibers. Amer. Leather Chem. Ass. J. 62(2):97-102. Ref. Feb.1967. 303.9 Am32
- 90655 SOBOTKA, R. Fast cutters in sausage technology. (Cz) Zpravod. Masneho Prum., Mar.1966: 9-10. TS1950.Z6
- 90656 SOBOTKA, R. Line for salting meat for manufacture of sausages. (Cz) Zpravod. Masneho Prum., Mar.1966:11-12. TS1950.Z6
- 90657 STALIK, J. Mechanization of meat production. (Cz) Zpravod. Masneho Prum., Jan.1967:14-16. TS1950.Z6
- 90658 STRASZEWSKI, T., and KULAK, W. Processing bones for gelatin production in Poznan Meat Plants. (Pol) Gosp. Miesna 19(3):13-14. Mar.1967. 50.8 G69
- 90659 STROZ, J. J. Processing wieners by micro-waves. Food Can. 28(3):45. Mar.1968. 389.8 F7323
- 90660 WEBSTER, L. Refrigeration may swing to central plant operations. Food Can. 28(3):40-41. Mar.1968. 389.8 F7323  
Meat.
- 90661 WILLIAMS, M. S., MEYER, B. H., and MUNDT, J. O. Relation of oven temperature to microbiology of beef roasts. Tenn. Farm Home Sci. Progr. Rep. 65:12-14. Jan./Mar.1968. 100 T25F  
Safe cooking recommendations.
- 90662 WINFREE, S. K., and RAMSEY, C. B. Effects of ultraviolet light on country hams during aging. Tenn. Farm Home Sci. Progr. Rep. 65: 2-5. Ref. Jan./Mar.1968. 100 T25F

## Statistics

- 90663 ARGENTINA. JUNTA NACIONAL DE CARNES. Resena [Summary of the National Meat Board] 1966. Buenos Aires, 1966. 215 p. 255.1 C21R  
Statistical.
- 90664 AUGROS, R. The cattle stock and its production. (Fr) France Min. Agr. Bull. Tech. Inform. 222:651-692, maps. Sept.1967. 14 F844B  
Meat and milk production by region in France.
- 90665 LIGGETT, L. Cattle numbers on U. S. farms. Ark. Cattle Bus. 4(3):12-13. Mar.1968. 43.8 Ar43
- 90666 MONEVA, G. Livestock of the FR Macedonia. (Se) Sots. Zemjod. 18(7/8):79-85. 1966. 280.28 So7  
Statistics.
- 90667 PASIERBSKI, Z., and WASZCZAK, CZ. Carrying out the law on restrictions of calf slaughter in Szczecin Province. (Pol) Nowe Roln. 16(4):21-22. 1967. 20.5 N86  
Chiefly statistics.

- 90668 STRECKER, H., and others. Determination des erreurs lors des recensements du bétail au moyen de sondages; résultats du control des effectifs procins lors du recensement agricole et horticole au 15 mai 1965 en Belgique [Determination of errors in livestock censuses by means of sampling; results of control of the swine situation in the agricultural and horticultural census of May 15, 1965, in Belgium] Eur. Econ. Community, Inform. Internes Agr. 16, 62 p. Mar. 1967. 281.9 Eu71  
R. Steylaerts, W. Forster, and W. Piesch, joint authors.
- 90669 U. S. DEPT. OF AGRICULTURE. ECONOMIC RESEARCH SERV. Livestock and meat statistics. U. S. D. A. Statist. Bull. 333(sup.), 159 p. June 1968. 1 Ag84St  
U. S. Department of Agriculture, Statistical Reporting Service, and U. S. Consumer and Marketing Service, cooperating.

## OILS AND OILSEEDS

- 90670 ACHAYA, K. T. Cottonseed - prospects of cutting down edible oil imports worth 250 million rupees. Indian Farming 17(9):9-10. Dec. 1967. 22 In283  
Outlook for cottonseed processing industry.
- 90671 ACHAYA, K. T. Oilseed technology. Indian Farming 17(9):49-51. Dec. 1967. 22 In283  
Processing and products.
- 90672 APPELQVIST, L. A., and MELIN, K. A. An autosampler for solvent-free sample introduction into a gas chromatograph. Lipids 2(4):351-352. July 1967. QP751.L5  
Analysis of lipides.
- 90673 BASLAS, K. K. Chemistry of Indian essential oils. V. Perfumery Essent. Oil Rec. 59(2):103-109. Ref. Feb. 1968. 308.8 P41
- 90674 BASLAS, R. K., and BASLAS, K. K. Essential oils from some exotic plants raised in Kumaon. I. Perfumery Essent. Oil Rec. 59(2):110-113. Ref. Feb. 1968. 308.8 P41
- 90675 BATES, R. P. Cottonseed protein processing and utilization - an example of nutritional food technology. Fla. State Hort. Soc. Proc. 80:289-292. Ref. May 1, 1968. 81 F66
- 90676 BENTLEY, O. G. Soybean production in the world; limitations and potentials. U. S. Agr. Res. Serv. ARS-71-35:2-19, map. Ref. May 1967. A381 R31Ac  
Summaries by L. J. Teply, and L. L. McKinney, p. 243-246, 256-257.
- 90677 BROCHE, G. Organization of the oil market in the European Economic Community and prospects for development of the oil industry in France. (Fr) Rev. Franc. Corps Gras 14(7):435-440. July 1967. 307.8 R32  
English summary, p. 433.
- 90678 CANTABRANA, F., and DE MAN, J. M. Glyceride components of acorn oil and its physical and chemical properties. (Sp) Grasas Aceites 18(3):155-156. May/June 1967. 307.8 G76  
English summary.
- 90679 CHAINE, M. H., MAMEESH, M. S., and EL-HAWWARY, N. M. Heated fats. II. Chemical and physical studies on frying cottonseed oil. Grasas Aceites 18(3):149. May/June 1967. 307.8 G76
- 90680 DE, S. S., RUSSELL, J. S., and ANDRE, L. M. Soybean acceptability and consumer adaptability in relation to food habits in different parts of the world. U. S. Agr. Res. Serv. ARS-71-35:20-27. May 1967. A381 R31Ac  
Summaries by L. J. Teply, and L. L. McKinney, p. 243-246, 256-257.  
Products.
- 90681 DEUTSCHE GESELLSCHAFT FÜR FETTSWISSENSCHAFT. Conference session, October 1 to 6, 1967, in Mainz. (Ge) Deut. Apoth.-Zeitung 108(13):427-431. Mar. 28, 1968. 396.8 Su2  
Abstracts of papers.
- 90682 DE VITA, R. New modern aspects of filtration in the vegetable oils field. (It) Riv. Ital. Sostanze Grasse 45(1):3-6. Jan. 1968. 307.8 OL3  
English summary.
- 90683 DOWNEY, R. K. Determination of oil content means improved oilseed crops. Sask. Farm Sci. 15(1):3. Feb. 1968. 275.28 Sa7  
Spectrophotometry.
- 90684 EVANS, C. D., and others. Pentane from thermal decomposition of lipoxidase-derived products. Lipids 2(5):432-434. Ref. Sept. 1967. QP751.L5  
G. R. List, A. Dolev, D. G. McConnell, and R. L. Hoffmann, joint authors.
- 90685 EZQUERRA LARREINA, C. Improvements in the extraction of cacao butter. (Sp) Oleagineux 22(10):617-622. Oct. 1967. 77.8 OL2  
English summary.
- 90686 GRIECO, D., and PIEPOLI, G. Fatty acid composition of comestible vegetable oils. (Fr) Oleagineux 22(10):611-612. Oct. 1967. 77.8 OL2  
English summary.
- 90687 GUILLAUMIN, R., and PERTUISOT, J. F. Influence of method of using adsorbants on certain characteristics of vegetable oils. III. (Fr) Rev. Franc. Corps Gras 14(7):449-460. July 1967. 307.8 R32  
English summary, p. 433.  
Bleaching earths.
- 90688 GUPTA, A. K. S., and SCHARMANN, H. Investigations on the structure of dimeric fatty acids. II. (Ge) Fette, Seifen, Anstrichmittel 70(2):86-90. Feb. 1968. 384 C422  
English summary.
- 90689 HADORN, H., and ZURCHER, K. Contribution to a gas chromatographic study of fats and oils. 1. Apparatus and quantitative estimation of the gas-chromatogram. (Ge) Mitt. Geb. Lebensmitteluntersuch. Hyg. 58(4):209-235. Ref. 1967. 389.9 Sw6  
English summary.  
Separation of fatty acid esters.
- 90690 HAGEMANN, J. M., and others. Search for new industrial oils. XIV. Seed oils of Labiatae. Lipids 2(5):371-380. Ref. Sept. 1967. QP751.L5  
F. R. Earle, I. A. Wolff, and A. S. Barclay, joint authors.
- 90691 HAND, D. B. Formulated soy beverages for infants and preschool children. U. S. Agr. Res. Serv. ARS-71-35:67-74. May 1967. A381 R31Ac  
Summary by J. C. Cowan, p. 247-248.
- 90692 HINRICHSSEN, J. J. World supplies of flaxseed and oil. (Sp) Inform. Grasas Aceites. Bol. 4(7):301-302. Sept. 1966. 307.8 In3
- 90693 HOOVER, S. R. Production of high- and low-fat oilseed protein products for food uses. Int. Congr. Nutr. Proc., 7th Congr., v. 5:294-298. 1966, pub. 1967. TX345.I53 1966
- 90694 HOPKINS, C. Y., and SWINGLE, R. Eicosenoic acid and other fatty acids of Sapindaceae seed oils. Lipids 2(3):258-260. May 1967. QP751.L5
- 90695 HORAN, F. E. Defatted and full-fat soy flours by conventional processes. U. S. Agr. Res. Serv. ARS-71-35:129-141. May 1967. A381 R31Ac  
Discussion by H. L. Wilcke, p. 261-262.
- 90696 ISHII, K. Studies on the bitter taste of hatching miso. II. Fractionation of water-soluble nitrogen compounds of hatching-miso by Dowex 50 molecular sieve. Tokyo Nihon Univ. Coll. Agr. Vet. Med. Bull. 24:1-6. Mar. 1967. 41.9 T5762  
Soybean product.
- 90697 ISKANDEROVA, D. S., and others. Studying the effect of ultraviolet rays on extraction of cottonseed oil. (Rus) Akad. Nauk Uzb. SSR. Dokl. 8:30-31. 1967. 511 Uz1  
N. U. Rizaev, R. M. Mirzakarimov, A. Sul-tanov, and M. I. Niyazov, joint authors.
- 90698 KAVADIA, V., and LAL, R. Dissipation of insecticide residues from crop of Indian rape seed [Brassica campestris]. I. Indian J. Agr. Sci. 37(5):419-427. Ref. Oct. 1967. 22 Ag831
- 90699 KAWAMURA, S., TADA, M., and IRIE, N. Effect of autoclaving on sugars of defatted soybean flakes from selected varieties. Kagawa Univ. Fac. Agr. Tech. Bull. 18(2):147-153. Mar. 1967. 107.6 K113



- 90700 KAWAMURA, S. Quantitative paper chromatography of sugars of defatted soybean meal. Kagawa Univ. Fac. Agr. Tech. Bull. 18(2):132-141. Mar.1967. 107.6 K113
- 90701 KAWAMURA, S. Review of PL 480 work on soybean carbohydrates. U. S. Agr. Res. Serv. ARS-71-35:249-254. May 1967. A381 R31Ac
- 90702 KING, K. W., ABDO, K. M., and CHANDRASEKARAN, A. Enzymic improvement of the extractability of soya and coconut protein. Int. Congr. Nutr. Proc., 7th Congr., v.5:268-272. 1966, pub. 1967. TX345.I53 1966  
Possibility for infant feeding.
- 90703 KLEIMAN, R., and others. Determination of petroselinic acid by microreactor chromatography. Lipids 2(4):339-341. Ref. July 1967. QP751.L5  
V. L. Davison, F. R. Earle, and H. J. Dutton, joint authors.  
In Umbelliferae seed oils.
- 90704 KRISHNAMURTHY, R. G., and others. Identification of 2-pentyl furan in fats and oils and its relationship to the reversion flavor of soybean oil. J. Food Sci. 32(4):372-374. July/Aug.1967. 389.8 F7322  
T. H. Smouse, B. D. Mookherjee, B. R. Reddy, and S. S. Chang, joint authors.
- 90705 KROMER, G. W. Soybeans; seasonal trends in marketings and use. U. S. D. A. Econ. Res. Serv. FOS-243:22-28. June 1968. 1.9 Ec752F
- 90706 KUTA, E. J., and YU, M. Polarography of conjugated unsaturated lipids. Lipids 2(5):411-418. Ref. Sept.1967. QP751.L5
- 90707 LITCHFIELD, C., HARLOW, R. D., AND REISER, R. Gas-liquid chromatography of triglyceride mixtures containing both odd and even carbon number fatty acids. Lipids 2(5):363-370. Ref. Sept.1967. QP751.L5
- 90708 LITCHFIELD, C., and others. The triglyceride composition of 17 seed fats rich in octanoic, decanoic, or lauric acid. Lipids 2(4):345-350. Ref. July 1967. QP751.L5  
E. Miller, R. D. Harlow, and R. Reiser, joint authors.
- 90709 LOEW, G. Bleaching of oils with bleaching earths. (Ge) Seifen-Ole-Fette-Wachse 93(20):750-754. Sept.27,1967. 307.8 Se4  
English summary.
- 90710 MARTINEZ UTRILLA, R. Natural fats, raw material for the chemical industry. (Sp) Gras Aceites 18(3):163-175. May/June 1967. 307.8 G76  
English summary.
- 90711 MCPHERSON, W. K. Economics and marketing. Fla. Agr. Exp. Sta. Bull. 716:13-33. Aug.1967. 100 F66S  
Soybeans; includes grading and regulation.
- 90712 MEAR, A. The peanut in Chad. (Fr) Nat. Nouv. (n.s.):9:17-23. Sept.1966. 280.8 N212  
Industry and marketing statistics.
- 90713 MESSERSCHMIDT, W. Study of the steam distillation of leaves of Hamamelis virg. L. I. (Ge) Arch. Pharm. 300(6):550-552. Ref. June 1967. 396.8 Ar2A  
Essential oil.
- 90714 MIKOLAJCZAK, K. L., and SMITH, C. R. Optically active trihydroxy acids of Chamaepeuce seed oils. Lipids 2(3):261-265. Ref. May 1967. QP751.L5
- 90715 MOFFET, J. N. Soybeans, an emerging cash crop. Rural Realtor 20:11. Mar.1968. 282.8 R88
- 90716 MULALIC, N. Constant increase of acreage under soybeans and its role in the USA. (Se) Poljoprivredni Pregl. 15(7/8):283-288. July/Aug.1966. 21.5 P753
- 90717 MULLER, P. A. Oil of bergamot. Perfumery Essent. Oil Rec. 58(6):368-371. June 1967. 308.8 P41  
Analysis, composition, and adulteration in Italy.
- 90718 MULLER, P. A. Peppermint oil and menthol. (Ge) Seifen-Ole-Fette-Wachse 93(20):773-775. Sept.27,1967. 307.8 Se4  
English summary.
- 90719 MURDOCK, D. I., and others. Relationship of bacterial contamination in orange oil recovery system to quality of finished product. Fla. State Hort. Soc. Proc. 80:267-280. May 1, 1968. 81 F66  
G. L. K. Hunter, W. A. Bueck, and J. A. Brent, joint authors.
- 90720 MUSTAKAS, G. C. Alternative processes for full-fat soy flours for use in developing countries. U. S. Agr. Res. Serv. ARS-71-35:156-162. May 1967. A381 R31Ac  
Discussion by H. L. Wilcke, p.261-262.
- 90721 NIAZULLAH, M., and others. Studies in the enrichment of castor oil monoglycerides. Indian J. Technol. 5(11):352-353. Nov.1967. 475 In22  
D. V. Chandran, Y. M. Chandhok, and R. K. Bhatnagar, joint authors.
- 90722 NIGAM, S. K., and MITRA, C. R. Cosmos seed constituents. II. Fatty acid composition of C. bipinnatus and C. sulphureus. Fette, Seifen, Anstrichmittel 70(2):67-69. Feb.1968. 384 C422
- 90723 NOBLE, A. C., BUZIASSY, C., and NAWAR, W. W. Thermal hydrolysis of some natural fats. Lipids 2(5):435-436. Ref. Sept.1967. QP751.L5
- 90724 OLIVEROS-BELARDO, L. Some constituents of the volatile oil of Peperomia pellucida (L.) HBK. Perfumery Essent. Oil Rec. 58(6):359-363. June 1967. 308.8 P41
- 90725 OSMAN, F., SUBBARAM, M. R., and ACHAYA, K. T. The glyceride structure of some Egyptian vegetable oils. Fette, Seifen, Anstrichmittel 70(2):75-79. Ref. Feb.1968. 384 C422
- 90726 OSTEROTH, D. Continuous fats hardening by the Lurgi process. (Ge) Seifen-Ole-Fette-Wachse 93(20):758-759. Sept.27,1967. 307.8 Se4
- 90727 PERKINS, E. G., and KUMMEROW, F. A. The chemistry of the "polymers" resulting from the thermal oxidation of oils. Int. Congr. Nutr. Proc., 7th Congr., v.1:182-186. 1966, pub.1967. TX345.I53 1966
- 90728 PETIT, J. P. Study of the films ready for use in the chromatography of aflatoxins. (Fr) Rev. Elevage Med. Vet. Pays Trop. (n.s.)20(2):359-364. 1967. 41.8 R3262  
English summary.  
In peanut meal.
- 90729 POPOV, A., and MIZEV, I. Observations on citric acid as antioxidant for sunflower oil. (Fr) Rev. Franc. Corps Gras 14(7):445-447. Ref. July 1967. 307.8 R32  
English summary, p.433.
- 90730 PRICE, M. J. Linseed oil yield and iodine value—refractive index correlation for Queensland-grown linseed. Queensland J. Agr. Anim. Sci. 24(3/4):279-285. Sept./Dec.1967. 23 Q37
- 90731 PRINCEN, L. H., STOLP, J. A., and KWOLEK, W. F. Emulsification of linseed oil I. Effects of oil viscosity, temperature time of agitation, and age of emulsions on particle size distribution. J. Paint Technol. 39(507):182-187. Apr.1967. 306.9 F31
- 90732 RACKIS, J. J., SESSA, D. J., and HONIG, D. H. Isolation and characterization of flavor and flatulence factors in soybean meal. U. S. Agr. Res. Serv. ARS-71-35:100-111. Ref. May 1967. A381 R31Ac  
Summary by J. C. Cowan, p.247-248.
- 90733 RHEINECK, A. E., and SHULMAN, S. Preparation of isocyanates from linseed, safflower and tall oil fatty acids. I. Fette, Seifen, Anstrichmittel 70(2):75-79. Ref. Feb.1968. 384 C422
- 90734 ROCHA, J. L. V., CANECCHIO, V., and BAZZATO, N. V. Determination of drying floor areas for castorbean fruits. (Por) Bragantia 25(1):V-VI. 1966. 102.5 B73Tb  
English summary.
- 90735 RUSK, C. A. Charting the course for marketing orders. Peanut J. Nut World 47(3):22-23. Jan.8,1968. 77.8 P313

- 90736 SANDIN, D. H. Venezuela reaches self-sufficiency in sesame output. *Foreign Agr.* 6(27): 6. July 1, 1968. A281.9 F76Fo
- 90737 SAVAGE, J. World situation and outlook for oilseeds, oils and fats. In Warley, T. K., ed. *Agricultural producers and their markets*, p.231-243. 1967. HD9000.1.W3
- 90738 SAVIN, G. Actual situation and possibilities of the African oil palm (*Elaeis guineensis* Jacq.) in the production of vegetable oil in Latin America. (Por) *Pesquisa Agropecuar. Brasil.* 1:391-394. 1966. S15.P42  
English summary.
- 90739 SCHMIDT, H. E. Determination of tocopherol in oils and fats: Influence of the tocopherol content of peanut and soybean oils on the oxidation course of these oils upon heating. II. (Ge) *Fette, Seifen, Anstrichmittel* 70(2):63-67. Feb. 1968. 384 C422
- 90740 SCHRUBEN, L. W. Soybean meal production trends. *Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform.*, Apr.4, 1967, 2 p. HD9004.A1K3  
Statistical.
- 90741 SEDLACEK, B. A. J. Studies on the UV-spectra of autoxidized fats. (Ge) *Fette, Seifen, Anstrichmittel* 70(2):80-86. Feb. 1968. 384 C422  
English summary.
- 90742 SEHER, A., and BURJES, G. Determination of caesium-137 in oil-bearing seeds and fruits. (Ge) *Fette, Seifen, Anstrichmittel* 70(2):53-58. Ref. Feb. 1968. 384 C422  
English summary.
- 90743 SHCHERBAKOV, V. G., and KUDINOV, P. I. On the influence of huskiness of sunflower seed kernels on oil quality. (Rus) *Izv. Vyssh. Ucheb. Zaved. Pishch. Tekhnol.* 3(58):55-56. 1967. 389.8 IZ8
- 90744 SOLOMON, B. The margarine industry in the U.S.S.R. (Fr) *Rev. Franc. Corps Gras* 15(2): 93-100. Ref. Feb. 1968. 307.8 R32  
English summary, p.105.
- 90745 SOON RHEE, K., DEL ROSARIO, R. R., and DUGAN, L. R. Determination of plasmalogens after treating with a 2,4-dinitrophenylhydrazine-phosphoric acid reagent. *Lipids* 2(4):334-338. Ref. July 1967. QP751.L5  
From plant and animal sources.
- 90746 STEGGERDA, F. R. Physiological effects of soybean fractions. *U. S. Agr. Res. Serv. ARS-71-35:94-99.* May 1967. A381 R31Ac  
Summary by J. C. Cowan, p.247-248.  
Soybean meal with relation to flatulence in man.
- 90747 STOPFORTH, J., and O'HAGAN, J. P. Structure of the oilseed crushing industry and factors affecting its location, with particular reference to the situation in developing countries. 2. *Food Agr. Organ. U. N. Mon. Bull. Agr. Econ. Statist.* 16(5):1-15. May 1967. 251 F73Mb
- 90748 STORHERR, R. W., and others. Sweep co-distillation cleanup of fortified edible oils for determination of organophosphate and chlorinated hydrocarbon pesticides. *Ass. Offic. Anal. Chem. J.* 50(3):605-615. Ref. June 1967. 381 As7  
E. J. Murray, I. Klein, and L. A. Rosenberg, joint authors.
- 90749 TEPLY, L. J. Taiwan program; extruded full-fat soy flour. *U. S. Agr. Res. Serv. ARS-71-35:181-182.* May 1967. A381 R31Ac  
Discussion by M. Milner, p.263-265.
- 90750 U. S. CONSUMER AND MARKETING SERV. FRUIT AND VEGETABLE DIV. FRESH PRODUCTS STANDARDIZATION AND INSPECTION BR. Farmers' stock peanuts; inspection instructions. Washington, 1968. 27 p., rev. A280.3909 C762
- 90751 VANTERPOOL, T. C. Rape yield, 1967. *Sask. Farm Sci.* 15(1):1,2. Feb. 1968. 275.28 Sa7
- 90752 WATTS, J. O., and HOLSWADE, W. Gas chromatographic determination of residual hydrocarbon solvents in solvent-extracted edible oils. *Ass. Offic. Anal. Chem. J.* 50(3):717-726. June 1967. 381 As7
- 90753 WEDD, W. B. The marketing of oilseeds, oils and fats. In Warley, T. K., ed. *Agricultural producers and their markets*, p.244-247. 1967. HD9000.1.W3
- 90754 WOLF, W. J. Trypsin inhibitors, hemagglutinins, saponins, and isoflavones of soybeans. *U. S. Agr. Res. Serv. ARS-71-35:112-128.* May 1967. A381 R31Ac  
Summary by J. C. Cowan, p.247-248.  
Review of the literature.

## POULTRY AND POULTRY PRODUCTS

- 90755 BOARD, P. A., and BOARD, R. G. A diagnostic key for identifying organisms recovered from rotten eggs. *Brit. Poultry Sci.* 9(1):111-120. Ref. Jan. 1968. 47.8 B77
- 90756 BROGGI, A. The poultry policy of Sicily. (It) *Notiz. Avicolo* 1(6/7):29-34. Nov./Dec. 1966. SF481.N6
- 90757 BROVELLI, F. Contractual economy in France: the integration agreements for poultry market production. (It) *Riv. Econ. Agr.* 21(6): 35-46. 1966. 281.8 R52  
English summary.
- 90758 CASMAN, E. P., and others. Identification of a fourth staphylococcal enterotoxin, enterotoxin D. *J. Bacteriol.* 94(6):1875-1882. Ref. Dec. 1967. 448.3 J82  
R. W. Bennett, A. E. Dorsey, and J. A. Issa, joint authors.  
Isolated from poultry meat.
- 90759 COX, C. J. Oil those eggs! *Ga. Univ. Ext. Circ.* 583, 6 p.-folder. Apr. 1968. 275.29 G29C  
To hold quality.
- 90760 DINCE, R. R. How accurate are official statistics? *Poultry Meat* 5(2):25. Feb. 1968. 47.8 P8656
- 90761 DOERFLER, J. The development of laying hen production and egg marketing in the Neustadt a. d. Aisch district. (Ge) *Bayer. Landwirt. Jahrbuch* 44(4):478-489. 1967. 18 L24
- 90762 FOY, R. Can Japan develop a broiler industry? *Poultry Internat.* 7(1):16-18. Jan. 1968. 47.8 P8698
- 90763 FUNK, E. M. Early contacts, summer jobs seen as keys in interesting students in poultry industry. *Feedstuffs* 39(52):9. Dec. 30, 1967. 286.81 F322
- 90764 GALLIMORE, W., and VERTRESS, J. Contract arrangements in the poultry industry. *U. S. D. A. Econ. Res. Serv. MTS-169:15-18.* May 1968. 1.941 M8M34
- 90765 GOJSKI, H. New prices in poultry purchasing. (Pol) *Drobiarstwo* 15(3):21. Mar. 1967. 47.8 P953
- 90766 HASEGAWA, S. Proteolytic enzyme in chick egg white. 11 p. *Transl.* 16371  
Translation from Seikagaku (Biochemistry) 33:87-91. 1961.
- 90767 HERBERT, J. Processors push for mandatory inspection. *Poultry Meat* 5(2):23-24. Feb. 1968. 47.8 P8656
- 90768 HORITSU, K. Infrared absorption spectra of ovalbumin fraction. *Hirosaki Univ. Fac. Agr. Bull.* 13:51-55. Ref. Mar. 1967. 22.5 H613
- 90769 JACKSON, M. E. The egg industry still has problems. *Kans. State Univ. Ext. Looking Ahead K-State Econ.*, Jan. 9, 1968, 1 p. HD9284.U5K3  
Prices.
- 90770 JONSSON, E. Trends in broiler production. (Sw) *Landmannen* 78(23):34. Nov. 11, 1967. 11 L234
- 90771 KUNZE, J. H., BROWN, E. E., and BRANNEN, S. J. The economic feasibility of secondary processing [canning] of light fowl in Georgia. *Ga. Agr. Exp. Sta. Res. Bull.* 29, 27 p., map. Mar. 1968. S51.E2



- 90772 LASZKIEWICZ, L. The geography of poultry industry. (Pol) *Drobiarstwo* 15(1):3-5, map. Jan. 1967. 47.8 P953  
Poultry and poultry product statistics for Poland, by region.
- 90773 LUCKHAM, W. R., and BUCK, J. T. Broilers. Va. Polytech. Inst. Ext. Va. Farm Econ. 208: 20-22. May/June 1968. 275.29 V813  
Industry.
- 90774 MAJCHRZAK, H. Eggs are not all alike. (Pol) *Drobiarstwo* 15(3):10. Mar. 1967. 47.8 P953  
Quality and composition.
- 90775 MAZIARSKI, P. How to improve the quality of eggs being bought through purchasing programs. (Pol) *Drobiarstwo* 15(1):16-17. Jan. 1967. 47.8 P953
- 90776 MAZIARSKI, P. Truck transport in the poultry and egg industry. (Pol) *Drobiarstwo* 15(3):20. Mar. 1967. 47.8 P953
- 90777 MIX, L. S. Agway looks at the Northeastern market egg industry. *Agway Coop.* 3(5):6-7. July 1967. 280.28 Ag9  
Comparison with Southern production costs.
- 90778 MUNDA, M. The development and perspectives of poultry production. (Sl) *Soc. Kmetijstvo Gozdarstvo* 18(6):110-112. Apr. 22, 1967. 21.5 So14  
Includes egg production.
- 90779 MUNOZ GARCES, C. Chicken for Christmas. III-IV. (Sp) *Avicult. Tec.* 18(4):163-164, 167-168; (5):197-198, 201-202. Apr.-May 1967. 47.8 Av57  
The poultry industry and poultry meat in Spain.
- 90780 RASKOPF, B. D. Broiler condemnations—their economic importance. *Tenn. Farm Home Sci. Progr. Rep.* 62:12-14. Apr./June 1967. 100 T25F
- 90781 SCHENK, D. G. The West European slaughter poultry situation. (Du) *Veeteelt Zuivelber.* 10(5):217-229. May 1967. 49 V51
- 90782 SHOFFNER, R. N. The issues around us. *Poultry Sci.* 47(1):3-6. Jan. 1968. 47.8 Am33P
- 90783 STEPINSKI, M. Refrigeration in the egg and poultry industry. (Pol) *Drobiarstwo* 15(2):17. Feb. 1967. 47.8 P953
- 90784 STEPINSKI, M. Supply of poultry and egg products on the market in 1967. (Pol) *Drobiarstwo* 15(3):19. Mar. 1967. 47.8 P953
- 90785 STUNDZIS, M. R. Soviet poultry industry on a new road. (Pol) *Drobiarstwo* 15(6):3-4. June 1967. 47.8 P953
- 90786 SZKLARZEWICZ, J. Poultry production in 1965-1970. (Pol) *Drobiarstwo* 15(6):6-7. June 1967. 47.8 P953
- 90787 SZKLARZEWICZ, J. Poultry production in the German Federal Republic. (Pol) *Drobiarstwo* 15(1):19-20. Jan. 1967. 47.8 P953
- 90788 TAKAHASHI, K., FUKAZAWA, T., and YASUI, T. Formation of myofibrillar fragments and reversible contraction of sarcomeres in chicken pectoral muscle. *J. Food Sci.* 32(4):409-413. Ref. July/Aug. 1967. 389.8 F7322  
Storage.
- 90789 TERMOHLEN, W. D. Past history and future developments. *Poultry Sci.* 47(1):6-22. Jan. 1968. 47.8 Am33P  
Industry.
- 90790 TIJEN, W. F. VAN. On the relationship between the height of the thick albumen and the weight of eggs. *Brit. Poultry Sci.* 9(1):31-36. Jan. 1968. 47.8 B77
- 90791 TRIPPENBACH, W. Pesticides in eggs and poultry meat. (Pol) *Drobiarstwo* 15(4):15. (Cont.) Apr. 1967. 47.8 P953
- 90792 TRIPPENBACH, W. Pesticides in eggs and poultry meat. (Pol) *Drobiarstwo* 15(5):12-13. (Cont.) May 1967. 47.8 P953
- 90793 WASILEWSKI, J. Young guinea fowl. (Pol) *Drobiarstwo* 15(3):5. Mar. 1967. 47.8 P953  
Purchasing and grading.
- 90794 WENDT, H. What you should know before you build or expand. *Poultry Meat* 5(2):A26-A27. Feb. 1968. 47.8 P8656  
Turkey meat production plants.
- 90795 WOLFART, L. New rules for purchasing feathers. (Pol) *Drobiarstwo* 15(1):17-18. Jan. 1967. 47.8 P953

## RUBBER AND RUBBER SUBSTITUTES

- 90796 ALLEN, P. W., and MULLINS, L. Natural rubber. *Indian Rubber Bull.* 227:9-15. Ref. Nov. 1967. 78.8 In2  
Industry in Malaysia.
- 90797 BRAZIL. MINISTERIO DA INDUSTRIA E DO COMERCIO. COMISSAO EXECUTIVA DA DEFESA DA BORRACHA. Anuario de estatistica e informacoes (mercado estrangeiro), ano 18 [Statistical annual and information (foreign market), Volume 18], 1966. Rio de Janeiro, 1966. 30 p. 281.3789 B73
- 90798 BRAZIL. MINISTERIO DA INDUSTRIA E DO COMERCIO. COMISSAO EXECUTIVA DA DEFESA DA BORRACHA. Anuario de estatistica e informacoes (mercado nacional), ano 18 [Annual statistics and information (national market), Volume 18]. Rio de Janeiro, 1966. 40 p. 281.3789 B73
- 90799 BROVETTO, J., and PORCELLI, G. Characterization of proteins of *Ficus latex*. (It) *Ric. Sci.* 37(11):988-989. Nov. 1967. Q4.R5
- 90800 RUBBER AGE. 1967 review; 1968 preview; an editorial appraisal of the rubber industry and comments by industry leaders. *Rubber Age* 100(1):49-65. Jan. 1968. 305.8 R82

## SEEDS

- 90801 AKERBERG, E. On the threshold of 1968. (Sw) *Svensk Frotidn.* 37(1):1-2. Jan. 15, 1968. 61.8 Sv2  
Forage seed production for certified seed.
- 90802 ANDERSSON, G. Conformity to type of certified seed: spring grain. (Sw) *Svensk Frotidn.* 37(1): 6-10. Jan. 15, 1968. 61.8 Sv2
- 90803 BOEKE, J. E., and KUIPER, W. The "marking" of seeds with the help of fluorescent materials. (Du) *Zaadbelangen* 21(10):187-188. May 1967. 61.8 Z1  
Purity testing.
- 90804 BOULD, A. The quality of Brussels sprout seed lots entered for certification under the Vegetable Seed Certification Scheme from 1959-1964. *Nat. Inst. Agr. Bot. J.* 11(1):205-208. 1967. 103 N21J  
In Great Britain.
- 90805 CHAMBLISS, R. L. Seeds. Va. Polytech. Inst. Ext. Va. Farm Econ. 205:26-28. Sept./Dec. 1967. 275.29 V813  
Field crop seed outlook.
- 90806 DIPPENAR, C. J. Precautions with hybrid maize seed. *Farming S. Afr.* 43(3):35, 37, 39. June 1967. 24 So842  
Seed certification.
- 90807 ERASMUS, J. H. The law governing seeds and planting. (Du) *Zaadbelangen* 21(10):179-180, 182. May 1967. 61.8 Z1  
Netherlands industry in relation to the European Common Market.
- 90808 ESBO, H. Grain seeds entering the OECD certification system. (Sw) *Svensk Frotidn.* 37(1): 12-13. Jan. 15, 1968. 61.8 Sv2
- 90809 JAMES, E. Preservation of seed stocks. *Advances Agron.* 19:87-106. Ref. 1966. 30 Ad9
- 90810 JOUNTI: the seed village farmers built with self-help. *Indian Farming* 17(9):55. Dec. 1967. 22 In283  
Wheat seed production and processing cooperative.
- 90811 KOOISTRA, E. Observations on the storage of several types of vegetable seeds under unfavorable conditions. (Du) *Zaadbelangen* 21(14):270-272. July 1967. 61.8 Z1  
Stored in colored paper sacks.

- 90812 KULKARNI, N. S. The hybrid seed programme and the co-operative marketing system. Maharashtra Co-op. Quart. 51(1):23-28. July 1967. 280.28 B63  
Corn seeds.
- 90813 LANZI, G. Modern seed containers. (It) Sementi Elette 13(1):51-54. Jan./Feb.1967. 61.8 Se53  
European Common Market packing regulations included.
- 90814 LINDEGAARD, J. Purchase order for seeds 1968. (Da) Landbonyt 22(1):2-6. Jan.1968. 11 L2322
- 90815 MALIANI, C. Botanical purity and agronomical purity. (It) Agri Forum 9(1):7-8. Jan. 1968. 16 Ag8233  
Seed regulation in the Common Market.
- 90816 SANDERS, J. W. R. Trademark and protection of grower. (Du) Zaaibelangen 21(11):205-206 June 1967. 61.8 Z1  
Seed marketing in European Common Market.
- 90817 SOUTH, G. Man and seed. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:14-18. 64.9 On83  
Seed production and marketing in Canada.
- 90818 STROBL, L. On quality and nonquality seeds. (Sl) Soc. Kmetijstvo Gozdarstvo 18(2):25-26. Feb.22,1967. 21.5 So14  
Includes certification and legislation.
- 90819 SWAMINATHAN, M. S. The evolution and significance of Jounti seed village. Indian Farming 17(10):51-55. Jan.1968. 22 In283  
Wheat seed production and processing co-operative.
- 90820 WOLD, A. Seed grain production + import or Norwegian production. (No) Norsk Landbruk 12:22-23,35. June 16,1967. 11 N8122
- SUGAR AND SIRUPS**
- 90821 ABDOH, Y., and KHALKHALI, G. Cellulose from natural sources in Iran. Indian Pulp Pap. 22(4):235-236. Oct.1967. 302.8 In23  
Sugarcane and Typha.
- 90822 AHRENS, W. The present problems of the sugar industry. (Ge) Zucker 20(10):265-269. May 15,1967. 65.8 Z82
- 90823 BAXA, J. The beginnings of the sugar beet industry in Upper Austria. (Ge) Zucker 20(1): 2-4. Jan.1,1967. 65.8 Z82
- 90824 BECKER, C. F. The relationship between sugarbeet yield and number of beets harvested. Holly Agr. News 16(1):6-9. Spring 1968. 66.8 H72  
Statistical research.
- 90825 BENGTTSSON, T. Sugar beet culture in 1966. (Sw) Betodlaren 29(1):3-4. 1966. 66.9 Sv22  
Acreage and sugar prices.
- 90826 BRUNKE, M. The present state and trends of automation in the beet sugar industry. (Ge) Zucker 20(7):179-184. Apr.1,1967. 65.8 Z82  
English summary.
- 90827 BUCHANAN, E. J. The appraisal of diffusion performance without confusion. S. Afr. Sugar Technol. Ass. Proc. 1967:94-100. 65.9 So83  
Sugar cane in Southern Africa.
- 90828 CAMPBELL, J. R. Raw sugar mills in Louisiana, 1964-1966; returns, costs, and profits. La. Agr. Exp. Sta. DAE Res. Rep. 375,66 p. May 1968. 100 L935  
Sugarcane.
- 90829 CARTER, G. G. Clarification with emphasis on starch removal. S. Afr. Sugar Technol. Ass. Proc. 1967:37-41. 65.9 So83  
Sucrose.
- 90830 CHANDRASEKARAN, C., KULKARNI, S. K., and RAMANATHAN, K. An improved formula for reduced clarification efficiency. Sugar Technol. Ass. India Proc., 35th Annu. Conv., pt.1:197-202. Ref. 1967. 65.9 Su35P  
Processing of sugarcane juices.
- 90831 CHANDRASEKARAN, C., KULKARNI, S. K., and RAMANATHAN, K. Whole reduced extraction. Sugar Technol. Ass. India Proc., 35th Annu. Conv., pt.1:203-206. Ref. 1967. 65.9 Su35P  
Statistics on mill efficiency in extracting sugar from sugarcane in India.
- 90832 CHATTERJI, A. C., and DEVARAJAN, A. K. Cost of white sugar manufacture without sulphur reduced by D. M. C. [Defeco-Melt-Crystallisation] process. Sugar Technol. Ass. India Proc., 35th Annu. Conv., pt.1:79-83. Ref. 1967. 65.9 Su35P
- 90833 CROWTHER, J. The reduction of sucrose losses in clarifiers and milling tandems. S. Afr. Sugar Technol. Ass. Proc. 1967:101-103. 65.9 So83
- 90834 DELAVIER, H. J. 100 years of the Berlin Sugar Institute [Institut fur Zuckerindustrie]. Rev. Agr. Sucriere Ile Maurice 46(3):115-118. July/Sept.1967. 24 M44
- 90835 DEXTER, S. T., and FRANKS, M. G. A rapid method of sorting sugar beets for storage. Amer. Soc. Sugar Beet Technol. J. 14(4):350-356. Jan.1967. 66.9 Am35J  
Using specific gravity to estimate sucrose content for storage.
- 90836 EICHHORN, H. Relations between centrifugal basket designs and massecuite characteristics. S. Afr. Sugar Technol. Ass. Proc. 1967:79-86. Ref. 65.9 So83
- 90837 EIS, F. G., and THOMAS, J. P. Investigations of the sieve analysis method. Amer. Soc. Sugar Beet Technol. J. 14(4):283-291. Jan.1967. 66.9 Am35J  
Equipment for grading sugar.
- 90838 FIORENTINI, P. Sugar, situation of production and regulations. (It) Agri Forum 9(2):49-58. Feb.1968. 16 Ag8233  
Industry in the Common Market.
- 90839 FOURMOND, L. T. A useful yardstick for volume of c-massecuite. S. Afr. Sugar Technol. Ass. Proc. 1967:65-67. 65.9 So83
- 90840 FREUND, R. Sugarbeets their future and their financing. Holly Agr. News 16(1):26-27. Spring 1968. 66.8 H72
- 90841 FRIEDMANN, E. Historia del azucar en el Paraguay [History of sugar in Paraguay]. Asuncion, El Arte, 1966. 300 p. Ref. HD9114.P3F7
- 90842 GALEA, J. P. The relationship between first expressed, primary and absolute juice. Rev. Agr. Sucriere Ile Maurice 46(2):88-94. Apr./June 1967. 24 M44  
Determination of the sucrose content of sugarcane.
- 90843 GREIG, W. S. Consumer images of sugar and synthetic sweeteners. Mich. Agr. Exp. Sta. Res. Bull. 18,41 p. Ref. 1968. 100 M58R
- 90844 GUPTA, A. P., and PRASAD, B. Factors affecting ash content in cane juice. Part I. Cane varieties. Sugar Technol. Ass. India Proc., 35th Annu. Conv., pt.1:49-53. Ref. 1967. 65.9 Su35P  
In India.
- 90845 GUPTA, S. C., RAMAIAH, N. A., and SRIVASTAVA, S. K. Decalcification of the juice by ion exchange resins. Sugar Technol. Ass. India Proc., 35th Annu. Conv., pt.1:183-190. Ref. 1967. 65.9 Su35P  
Sugarcane juices.
- 90846 HALDEN, H. E. A simplification of the method for obtaining mean aperture and coefficient of variation of granulated sugars. Amer. Soc. Sugar Beet Technol. J. 14(4):297-301. Jan. 1967. 66.9 Am35J
- 90847 HARRIS, W. A., NAYLOR, R. L., and NELSON, R. L. Rapid determination of some nonsucrose components of beet juices. Amer. Soc. Sugar Beet Technol. J. 14(6):511-517. July 1967. 66.9 Am35J



- 90848 HEIN, P. Notes on Trinidad, with special reference to industrial relations in the sugar industry. *Rev. Agr. Sucriere Ile Maurice* 46(3):150-155. July/Sept.1967. 24 M44
- 90849 HOWELER, C. The sugar industry in Sweden, its development and present state. (Ge) *Zucker* 20(5):85-93. Feb.15,1967. 65.8 Z82 English summary.
- 90850 HUBER, H., and GUNTHER, P. Investigations on drying carbonatation sludge in a roll dryer. (Ge) *Zucker* 20(6):143-149. Mar.15,1967. 65.8 Z82 English summary. Sugar beet processing.
- 90851 JANAKIRAMAIAH, K., SATYANARAYANA, N., and MURTY, T. S. N. The deterioration of cane juices by *Leuconostoc mesenteroides*. *Sugar Technol. Ass. India Proc.*, 35th Annu. Conv., pt.1:85-90. Ref. 1967. 65.9 Su35P
- 90852 JANAKIRAMAIAH, K., SATYANARAYAN, N., and MURTY, T. S. N. The need of phosphates in the cane juice clarification. *Sugar Technol. Ass. India Proc.*, 35th Annu. Conv., pt.1:207-209. Ref. 1967. 65.9 Su35P
- 90853 JENNINGS, R. P. Further improvements in raw sugar quality. *S. Afr. Sugar Technol. Ass. Proc.* 1967:62-64. 65.9 So83
- 90854 KULKARNI, D. P., PATIL, M. K., and VORA, K. C. Inversion in white sugar manufacture. *Sugar Technol. Ass. India Proc.*, 35th Annu. Conv., pt.1:217-228. Ref. 1967. 65.9 Su35P
- 90855 LIDDIARD, R. E. World situation and outlook for sugar. In Warley, T. K., ed. *Agricultural producers and their markets*, p.205-212. 1967. HD9000.1.W3
- 90856 MANTOVANI, G. On the crystallization and the rate of dissolution of sucrose in pure and impure solutions. (Ge) *Zucker* 20(8):198-204. Ref. Apr.15,1967. 65.8 Z82 English summary.
- 90857 MITTAL, B. L. Exhaustibility of molasses with respect to vacuum in pan and preparation of the low grade massecuite in crystalliser. *Sugar Technol. Ass. India Proc.*, 35th Annu. Conv., pt.1:229-235. Ref. 1967. 65.9 Su35P Reduction of sugar lost in molasses during processing of cane juice with description of techniques of using equipment.
- 90858 MOORHTY, A. L. N. Cooperative sugar industry in India. *Sugar J.* 30(9):18-19. Feb.1968. 65.8 Su391
- 90859 OOMMEN, T. T., and GURUMURTHY, B. S. Phosphate treatment of clarified juice a method of reducing losses in waste molasses. *Sugar Technol. Ass. India Proc.*, 35th Annu. Conv., pt.1:65-68. Ref. 1967. 65.9 Su35P
- 90860 PAUL, B. B. A concept and design of continuous juice sulphiter. *Sugar Technol. Ass. India Proc.*, 35th Annu. Conv., pt.1:137-154. Ref. 1967. 65.9 Su35P Sugarcane juices.
- 90861 PAUL, B. B., and SAXENA, I. S. Partial third carbonation of thin juice - a means can be used for reducing sulphur consumption in carbonation factory. *Sugar Technol. Ass. India Proc.*, 35th Annu. Conv., pt.1:211-215. Ref. 1967. 65.9 Su35P Includes a description of equipment used in a modification of sugarcane juice processing.
- 90862 PAUL, B. B. A problem in alcohol distillation industry in India. *Sugar Technol. Ass. India Proc.*, 35th Annu. Conv., pt.1:91-96. Ref. 1967. 65.9 Su35P Use of sugarcane molasses as raw material.
- 90863 PAXSON, T. E., and others. Treatment of evaporator thick juice with Pittsburgh activated carbon. *Amer. Soc. Sugar Beet Technol. J.* 14 (4):271-277. Jan.1967. 66.9 Am35J L. P. Orleans, W. A. Harris, and R. L. Naylor, joint authors. Sugar beets.
- 90864 PEINEL, E. New aspects of the determination of manufacturing costs in general and during the campaign operations in particular. (Ge) *Zucker* 20(8):205-210. Ref. Apr.15,1967. 65.8 Z82
- 90865 PERK, C. G. M. Forty-second annual summary of laboratory reports of sugar factories in southern Africa for the season 1966/67. *S. Afr. Sugar Technol. Ass. Proc.* 1967:11-32. 65.9 So83
- 90866 PETZALL, E. B. Spain's sugar industry at the crossroads. (Ge) *Zucker* 20(6):158. Mar.15, 1967. 65.8 Z82
- 90867 PETZALL, E. B. Spain's sugar industry 1965/66. (Ge) *Zucker* 20(1):21-22. Jan.1, 1967. 65.8 Z82
- 90868 PETZALL, E. B. Sugar prices and the sugar beet industry in Spain. (Ge) *Zucker* 20(3):72-73. Feb.1,1967. 65.8 Z82
- 90869 PREY, V. Tasks of basic research in the sugar industry. (Ge) *Zucker* 20(10):272-282. May 15,1967. 65.8 Z82 English summary.
- 90870 RAO, S. N. G., and SHARMA, S. C. Modification of continuous juice liming and sulphitation unit. *Sugar Technol. Ass. India. Proc.*, 35th Annu. Conv., pt.1:127-135. Ref. 1967. 65.9 Su35P Sugarcane juice.
- 90871 RICKMAN, J. Nitrogen tests for improved sugar. *Holly Agr. News* 16(1):13. Spring 1968. 66.8 H72 In sugarbeets.
- 90872 ROCHE, M. The sugar refinery of Kiryat-Gat and the sugar industry of Israel. (Fr) *Sucrierie Franc.* 108(10):203-209. Oct.1967. 65.8 J82
- 90873 ROY, S. C. Practical hints for improvement of milling performance. *Sugar Technol. Ass. India. Proc.*, 35th Annu. Conv., pt.1:155-169. 1967. 65.9 Su35P Use of sugarcane processing machinery.
- 90874 SAXENA, S. L., RAO, P. N. R., and TIWARI, B. M. Estimating imbibition efficiency in sugarcane milling process. *Sugar Technol. Ass. India Proc.*, 35th Annu. Conv., pt.1:275-278. Ref. 1967. 65.9 Su35P
- 90875 SAXENA, S. L., and AGARWAL, S. K. D. On the working of first D. d. S. cane diffuser in India at Belapur. *Sugar Technol. Ass. India Proc.*, 35th Annu. Conv., pt.1:291-318. Ref. 1967. 65.9 Su35P
- 90876 SCHLANITZ, F. Hydraulic unloading of sugar beets with almost complete absorption of unloading water and its effect on the aerated pile of sugar beets. (Ge) *Zucker* 20(7):175-178. Apr.1,1967. 65.8 Z82 English summary.
- 90877 SHEMILT, G. L. The marketing of sugar. In Warley, T. K., ed. *Agricultural producers and their markets*, p.213-230. 1967. HD9000.1.W3
- 90878 SOUTH AFRICAN SUGAR TECHNOLOGISTS' ASSOCIATION. Proceedings of the forty - first annual congress held at Mount Edgecombe, 10th-14th April, 1967. Durban, 1967. 219 p. 65.9 So83
- 90879 SUGAR TECHNOLOGISTS' ASSOCIATION OF INDIA. Proceedings of the 35th annual convention, Kalyanpur, Kanpur (India), 1967. Kanpur, 1967. 332 p. 65.9 Su35P
- 90880 VAVRINECZ, G. Formation and composition of sugar beet molasses. VI. Applications and characteristics of the saturation function. (Ge) *Z. Zucker Indus.* 17(12):630-634. Dec.20, 1967. 65.8 D48 English summary.
- 90881 VUKOV, K. The content of invert sugar in sugar beets. (Ge) *Zucker* 20(11):301-304. Ref. June 1,1967. 65.8 Z82 English summary.
- 90882 YAMAGOUCHI, T. History of British sugar industry. II. Tokyo Nihon Univ. Coll. Agr. Vet. Med. Bull. 24:57-66. Mar.1967. 41.9 T5762

- 90883 YOUNG, C. M. Specific resistance of refinery process carbonation filter cake (mud). S. Afr. Sugar Technol. Ass. Proc. 1967:87-93. 65.9 So83

## TOBACCO

- 90884 ABE, I., and others. On the relation between physical properties and low temperature storages of flue-cured tobacco leaves. (Ja) Jap. Monop. Corp. Cent. Res. Inst. Sci. Pap. 109: 163-169. June 1967. 385 J273  
K. Saito, M. Furusawa, Y. Masuo, K. Tsuzuki, Y. Katayama, K. Nozawa, K. Shimada, M. Shinozaki, S. Kagawa, and I. Aoki, joint authors. English summary.
- 90885 ALBO, J. P. The evolution of oxidising enzymes in tobacco from harvesting to fermentation. (Fr) Serv. Exploit. Indus. Tab. Allumettes Dir., Etud. Equip. Ann. 2(sect.2):13-77. Ref. 1965, pub. 1966. TS2220.S4  
English summary.
- 90886 ARAGON, F. T., and RODA, F. V. The fire-holding capacity of native cigar-filler and other tobacco types. Philippine Tobacco Rev. 4(2):8-11. Apr./June 1967. 286.89 P53
- 90887 ARTHO, A. J., and COSSY, A. A new method of nitrogen determination in tobacco. (Ge) Beitr. Tabakforsch. 3(5):347-350. May 1966. QP981.T6B4  
English summary.
- 90888 BEAKA, H. Tobacco acreage should be approved already in the autumn. (Se) Sovremeno Zemjod. 13(10):7-8. Oct. 1966. S13.S6
- 90889 BOCEVSKI, D. Study of tobacco fermentation packed in embalmed Tonga bales. (Se) Tutun 5(6):137-146. May/June 1967. 69.8 T88  
French summary.
- 90890 BUJANOWSKI, K. Problems of quality improvement of produced tobacco. (Pol) Nowe Roln. 16(4):15-17. 1967. 20.5 N86
- 90891 CANADA, BUR. OF STATISTICS. Tobacco products industries 1964. Ottawa, 1966. 26 p. (Annual Census of Manufactures) 253 C335T  
Includes tobacco consumption statistics.
- 90892 CHENKOV, V. V., and SHAPOVALOV, E. N. Changes of resins and volatile oils in tobacco leaves in refining and processing. (Rus) Izv. Vyssh. Ucheb. Zaved. Pishch. Tekhnol. 3(58): 44-49. 1967. 389.8 IZ8
- 90893 CHIBA, S., KOKUSHO, M., and SUEMATSU, T. Studies on stem drying. (Ja) Jap. Monop. Corp. Cent. Res. Inst. Sci. Pap. 109:25-37. Ref. June 1967. 385 J273  
English summary.  
Tobacco.
- 90894 CHOUTEAU, J., and ALBO, J. P. The incidence of fermentation and aging conditions on the formic and acetic acid contents of dark tobacco with reference to its pH. (Fr) Serv. Exploit. Indus. Tab. Allumettes Dir. Etud. Equip. Ann. 2(sect.2):141-153. 1965, pub. 1966. TS2220.S4  
English summary.
- 90895 CHOUTEAU, J., and ALBO, J. P. A study of the influence of fermenting and aging conditions on some physical and chemical characteristics of dark tobacco. (Fr) Serv. Exploit. Indus. Tab. Allumettes Dir. Etud. Equip. Ann. 2(sect.2):115-139. 1965, pub. 1966. TS2220.S4  
English summary.
- 90896 CHUMAN, T., and KOKUSHO, M. Studies on the mist for the compressed tobacco conditioning. (Ja) Jap. Monop. Corp. Cent. Res. Inst. Sci. Pap. 109:39-46. June 1967. 385 J273  
English summary.
- 90897 DIMITROV, L. Experiment of whole-plant drying of tobacco. (Bu) Bulg. Tyutyun 7:34-41. 1967. 69.8 B872
- 90898 HUBSCHEN, L. A contribution to the analysis of sifting properties of tobacco. (Ge) Beitr. Tabakforsch. 3(5):371-391. May 1966. QP981.T6B4  
English summary.
- 90899 HURTADO, E. A., and DE LA CRUZ, I. E. The effect of varying numbers of days of sun wilting on the appearance of green spots on leaf tobacco. Philippine Tobacco Rev. 4(2):4-5. Apr./June 1967. 286.89 P53
- 90900 IKEGAMI, S., and others. Studies on the treatment of leaf tobaccos. II. Spraying and dipping of Shirodaruma strips. (Ja) Jap. Monop. Corp. Cent. Res. Inst. Sci. Pap. 109:107-116. Ref. June 1967. 385 J273  
H. Kobayashi, S. Chiba, Y. Inagaki, T. Muranaga, H. Ohe, S. Wakui, S. Sasaki, and K. Furusawa, joint authors. English summary.  
Processing for flavor.
- 90901 KAMACHI, T., NISHI, H., and YOSHITANI, H. Studies on tobacco casing. V. On "casing agent" as neutral sauce. (Ja) Jap. Monop. Corp. Cent. Res. Inst. Sci. Pap. 109:99-105. June 1967. 385 J273  
English summary.
- 90902 KROELLER, E. Studies on the proof of nitrosamine in tobacco smoke and foodstuffs. (Ge) Deut. Lebensm.-Rundsch. 63(10):303-305. Ref. Oct. 1967. 389.8 D482  
Carcinogenic nitrosamine compounds in food-stuffs and in plants.
- 90903 KRUGER, H. E. Angola in the Virginia business. Tabak-J. Int. 3:156-158. June 20, 1967. 286.89 T117
- 90904 KUROKI, T., MIYANOWAKI, H., and SAITO, K. On the tensile characteristics of tobacco leaves by tensile testing. I. The preliminary experiments by flue-cured leaf. (Ja) Jap. Monop. Corp. Cent. Res. Inst. Sci. Pap. 109:47-51. Ref. June 1967. 385 J273  
English summary.
- 90905 NARAYANA, C. L., GOPINATH, D. M., and SUBRAHMANYAM, M. Intergrade relationship in flue-cured Virginia tobacco: a study between physical traits and chemical composition, using the D<sup>2</sup>-statistic. Indian J. Agr. Sci. 37(5):332-337. Oct. 1967. 22 Ag831
- 90906 NEURATH, G., and DUNGER, M. Preparation and properties of the N-nitroso compounds of tobacco alkaloids. (Ge) Beitr. Tabakforsch. 3(5):339-345. Ref. May 1966. QP981.T6B4  
English summary.
- 90907 NOGUCHI, M., and others. Studies on storage and aging of leaf tobaccos. II. Artificial aging of bright yellow tobacco used for sources of aroma. (Ja) Jap. Monop. Corp. Cent. Res. Inst. Sci. Pap. 109:9-24. Ref. June 1967. 385 J273  
T. Hamashima, K. Yamamoto, K. Saito, K., Takahashi, Y. Oki, H. Funaoka, N. Yamaguchi, M. Yokoyama, K. Hoshino, K. Nishida, and E., Tamaki, joint authors. English summary.
- 90908 NOLEN, J. A. Dark-fired tobacco—can it compete? Va. Polytech. Inst. Ext. Va. Farm Econ. 208:3-5. May/June 1968. 275.29 V813
- 90909 OBI, Y., and others. Reaction of nicotine with ethylene oxide. (Ja) Jap. Monop. Corp. Cent. Res. Inst. Sci. Pap. 109:73-80. June 1967. 385 J273  
K. Takahashi, Y. Shimada, K. Nishida, and T. Kisasi, joint authors. English summary.  
In tobacco.
- 90910 ODIC, M., and others. Test results obtained with Herzegovinian type of tobacco in Tonga bales. (Se) Tutun 5(6):169-198. May/June 1967. 69.8 T88  
M. Mandic, B. Sekulovic, and M. Filipovic, joint authors.
- 90911 PEENS, J. F. Flue-curing tobacco. 2. Farming S. Afr. 43(12):15-19. Mar. 1968. 24 So842  
Includes curing equipment.
- 90912 RUDLAND, G. W. R.T.A. [Rhodesia Tobacco Association] accepts tobacco cut in national interest. Mod. Farming Cent. Afr., June 1967: 11, 13. 24 M72
- 90913 SCHMIDT, J. A. Nicotine decomposition by microorganisms in model experiments. (Ge) Beitr. Tabakforsch. 3(8):539-544. Ref. Dec. 1966. QP981.T6B4



- 90914 SFIKAS, A. Scientific research in Greece. (Gre) *Kapnike Epitheoresis* 249:5356,5365. 1967. 69.8 K14  
Tobacco research.
- 90915 SMITH, C. E. D. The marketing of tobacco. In Warley, T. K., ed. *Agricultural producers and their markets*, p.304-308. 1967. HD9000.1.W3
- 90916 SMITH, C. E. D. World situation and outlook for tobacco. In Warley, T. K., ed. *Agricultural producers and their markets*, p.297-303. 1967. HD9000.1.W3
- 90917 SUGAWARA, S., and others. Determination of glucose, fructose and sucrose in tobacco leaf by gas chromatography. (Ja) *Jap. Monop. Corp. Cent. Res. Inst. Sci. Pap.* 109:67-71. June 1967. 385 J273  
U. Kobashi, U. Okabayashi, and Y. Kaburaki, joint authors.  
English summary.
- 90918 TAKAHARA, H., and others. Studies on tobacco extract. I. Preparation of tobacco extract by repeated extraction with methanol and fractionation of the extract by hexane and water. (Ja) *Jap. Monop. Corp. Cent. Res. Inst. Sci. Pap.* 109:81-85. June 1967. 385 J273  
T. Shinkai, H. Inumaru, and I. Morishita, joint authors.  
English summary.
- 90919 TAKAHARA, H., and others. Studies on tobacco extract. II. The improvement of smoking taste of A- and B-fractions by chemical treatments. (Ja) *Jap. Monop. Corp. Cent. Res. Inst. Sci. Pap.* 109:87-91. June 1967. 385 J273  
T. Shinkai, H. Inumaru, and I. Morishita, joint authors.  
English summary.
- 90920 TAKAHARA, H., and others. Studies on tobacco extract. III. Chemical components in A- and B-fractions from tobacco dust and Cyclon tobacco dust (trichome). (Ja) *Jap. Monop. Corp. Cent. Res. Inst. Sci. Pap.* 109:93-97. Ref. June 1967. 385 J273  
T. Shinkai, H. Inumaru, and I. Morishita, joint authors.  
English summary.
- 90921 UEHARA, M., and others. Analytical errors in the determination of nicotine in tobacco leaves. (Ja) *Jap. Monop. Corp. Cent. Res. Inst. Sci. Pap.* 109:177-181. June 1967. 385 J273  
T. Tsugane, H. Ninomiya, M. Kawahata, and Y. Kobayashi, joint authors.  
English summary.
- MISCELLANEOUS PRODUCTS**
- 90922 BAKER, M., and GOODRICH, D. G. Flower re-tailing by mass outlets. N. J. Agr. Exp. Sta. Bull. 817,31 p. Mar. 1968. 100 N46S  
Northeastern Regional Research Publication.
- 90923 BANNERMAN, A. Smoking of fish; a review. *Food Mfr.* 43(5):48-50. May 1968. 389.8 F736
- 90924 BONTE, E. The cultivation of tea in Burundi. (Fr) *Ann. Gembloux* 73(2):105-111, map. 1967. 13 G28  
Outlook.
- 90925 BOTELHO, A. T. Dried salted fish. (Por) *Conserv. Peixe* 23(265):51,53. Apr. 1968. 389.8 C7692
- 90926 BOTELHO, A. T. Generalities on dried and salted fish. (Por) *Conserv. Peixe* 22(258):29-30. Sept. 1967. 389.8 C7692
- 90927 BURGESS, G. H. O. Developments in fish and fish products. *Food Mfr.* 43(5):39-40,47. May 1968. 389.8 F736  
In Britain.
- 90928 BUTTKUS, H. The reaction of myosin with malonaldehyde. *J. Food Sci.* 32(4):432-424. Ref. July/Aug. 1967. 389.8 F7322  
Frozen fish muscle.
- 90929 CHAPMAN, W. M. The ocean and human food needs—an introduction. *Int. Congr. Nutr. Proc., 7th Congr., v.4:936-947.* Ref. 1966, pub. 1967. TX345.153 1966  
Fish and algae, including fish protein concentrate.
- 90930 CHAPMAN, W. M. Scope for fishery development in the Eastern Pacific Ocean. *Int. Congr. Nutr. Proc., 7th Congr., v.4:1023-1027.* Ref. 1966, pub. 1967. TX345.153 1966
- 90931 CONNETT, B. E., and ELVIDGE, J. A. The chemistry of hop constituents. XXXII. Further studies on the oxidation of hop alpha-acids. *Chem. Soc. J. C, Org.* 10:1193-1195. Ref. 1968. QD241.C5
- 90932 DHAMANEY, C. P. Development of bamboo boards based on cashew-nut shell liquid. *Indian Pulp Pap.* 22(4):259-260. Oct. 1967. 302.8 In23
- 90933 DIBBS, J. L. The fisheries of East Africa and possibilities of increased production. *Int. Congr. Nutr. Proc., 7th Congr., v.4:994-998.* 1966, pub. 1967. TX345.153 1966  
With reference to food supply.
- 90934 FRIC, V., DREXLER, O., and MAKOVEC, K. Conditioning of hops on farms. (Cz) *Chmelarstvi* 40(10):155-156. Oct. 25, 1967. 70.8 C33  
Storage, moisture content and packing.
- 90935 GRABCZEWSKA, J. Roses in the florists' shops of Toronto. (Pol) *Pol. Tow. Milosnikow Roz. Roczn.* 1:108-113. 1965, pub. 1966. SB403.P6  
Chiefly marketing.
- 90936 GUTSCH, R. Increasing flower sales in Switzerland. (Ge) *Landesverband Gartenbau Landwirt. Berlin Mitteilungsbl.* 18(12):16. Dec. 1967. 85 L233
- 90937 HART, J. L. Fisheries production from the Northwest Atlantic. *Int. Congr. Nutr. Proc., 7th Congr., v.4:1007-1014, map.* Ref. 1966, pub. 1967. TX345.153 1966  
In relation to population and food supply.
- 90938 HENDERLONG, P. R. The turf industry in West Virginia. *West. Va. Agr. Exp. Sta. Misc. Publ.* 5:3-10. May 1968. S127.E2
- 90939 IDYLL, C. P. Fishery resources of the Western South Atlantic and the Caribbean Sea. *Int. Congr. Nutr. Proc., 7th Congr., v.4:1014-1023.* Ref. 1966, pub. 1967. TX345.153 1966
- 90940 KASAHARA, H. Prospect of fish production from the sea. *Int. Congr. Nutr. Proc., 7th Congr., v.4:958-964.* 1966, pub. 1967. TX345.153 1966
- 90941 KASAHARA, H. Prospects of fisheries in the Northwest Pacific. *Int. Congr. Nutr. Proc., 7th Congr., v.4:1028-1031.* 1966, pub. 1967. TX345.153 1966
- 90942 KESTEVEN, G. L. Fisheries of the South Pacific. *Int. Congr. Nutr. Proc., 7th Congr., v.4:1032-1038, map.* 1966, pub. 1967. TX345.153 1966
- 90943 KRISTOFFERSEN, T. Storage of cut flowers. (No) *Gartneryrket* 43(57):909,930-931. Oct. 27, 1967. 80 G138  
Refrigeration.
- 90944 MCLAUCHLAN, G. Hopes for N.Z. sardine canning industry. *New Zeal. J. Agr.* 114(5):15-17. May 1967. 23 N48J
- 90945 MESCHKAT, A. Improvement of fish consumption in developing countries through influence on food habits, with special reference to Africa. *Int. Congr. Nutr. Proc., 7th Congr., v.4:1038-1042.* 1966, pub. 1967. TX345.153 1966
- 90946 MESCHKAT, A. The sea fishery resources of Africa. *Int. Congr. Nutr. Proc., 7th Congr., v.4:998-1004.* Ref. 1966, pub. 1967. TX345.153 1966  
With reference to food supply.
- 90947 MESECK, G. Importance of fishery for food production under world-wide aspects. *Int. Congr. Nutr. Proc., 7th Congr., v.4:948-956.* Ref. 1966, pub. 1967. TX345.153 1966
- 90948 MEYER, A. The development of fisheries in the N.E. Atlantic. *Int. Congr. Nutr. Proc., 7th Congr., v.4:1004-1007.* 1966, pub. 1967. TX345.153 1966
- 90949 CHATTOPADHYAY, S. K. Utility of boosters in the sugar industry. *Sugar Technol. Ass. India Proc., 35th Annu. Conv., pt.1:237-241.* Ref. 1967. 65.9 Su35P  
Steam ejection condensers.

- 90950 MOORJANI, M. N. Preservation of fish with tetracycline antibiotics. Indian Food Packer 21(4):5-8. Ref. July/Aug.1967. 389.8 In25
- 90951 MOORJANI, M. N. Some aspects of the standardization and quality control in fish processing industry. Indian Food Packer 21(4):9-12. Ref. July/Aug.1967. 389.8 In25
- 90952 MUKHERJEA, V. N., and others. Utilisation of bamboo for cheap-grade paper. Indian Pulp Pap. 22(3):181-186. Sept.1967. 302.8 In23  
A. B. Gopal, M. Mohiuddin, and S. R. D. Guha, joint authors.  
Dendrocalamus stri ctus pulpwood in India.
- 90953 NOWAK, J. "Cut roses in bunches" that is the situation in rose nurseries. (Pol) Pol. Tow. Milosnikow Roz. Rocz. 1:42-45. 1965,pub.1966. SB403.P6  
Need of certification.
- 90954 PALINSKI, T. On the need of certification for the rose nurseries. (Pol) Pol. Tow. Milosnikow Roz. Rocz. 1:46-48. 1965,pub.1966. SB403.P6
- 90955 RICKERT, F. Nurseries. (Ge) Statist. Monh. Schleswig-Holstein 20(2):42-46. Feb.1968. 265 Sch32Sm
- 90956 ROKHOLT, P. O. Market politics and competition profile in flower marketing. (No) Gartneryrket 42(57)893-894,896-897. Oct.20,1967. 80 G1938
- 90957 RUIVO, M. Food production from the sea and its world-wide aspects. Int. Congr. Nutr. Proc., 7th Congr.,v.4:956-958. 1966,pub.1967. TX345.I53 1966  
Fish.
- 90958 SAVAGE, Z. Stocks used for citrus. Citrus Veg. Mag. 30(10):20. June 1967. 80 C498  
Nursery stock movements by type and variety in Florida.
- 90959 SYTSEMA, W. Storage and keeping quality of cut flowers. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:113-118. 86 Aa4
- 90960 TIEWS, K. On the possibilities for further developments of the South East Asian fisheries. Int. Congr. Nutr. Proc., 7th Congr.,v.4:965-973. Ref. 1966,pub.1967. TX345.I53 1966
- 90961 ZDANOWSKI, J. Storage of rose nursery stock in Denmark. (Pol) Pol. Tow. Milosnikow Roz. Rocz. 1:61-62. 1965,pub.1966. SB403.P6



## ANIMAL INDUSTRY

References on processing, distribution, economic aspects and statistics of livestock and livestock products are classified with Agricultural Products; references on housing of livestock with Agricultural Engineering.

## BREEDS AND BREEDING

- 90962 ARMSTRONG, D. T. Comparative studies of the action of luteinizing hormone upon ovarian steroidogenesis. *J. Reprod. Fert. Suppl.* 1: 101-112. Ref. 1966. 442.8 J8222 Suppl. Rabbit, rat, and cow. Discussion, p.124-126.
- 90963 BIELENBERG, H. On the subject of meteorology and animal breeding. (Ge) *Tierzuchter* 20(1):23-24. Jan.5,1968. 49 T445
- 90964 BIGGERS, J. D., and MCFEELY, R. A. Intersexuality in domestic mammals. *Advan. Reprod. Physiol.* 1:29-59. 1966. QP251.A3 Review of the literature.
- 90965 BLAND, K. P., and DONOVAN, B. T. The uterus and the control of ovarian function. *Advan. Reprod. Physiol.* 1:179-214. 1966. QP251.A3 Review of the literature. Includes livestock.
- 90966 DUPLAÑ, J. M. Giant government aid to French livestock breeding. (Sw) *Svensk Husdjurssktsel Ladugard*. 12:483-485. Dec. 1967. 44.8 L12 Artificial insemination associations.
- 90967 DUQUE, J. J. C. The practice of artificial insemination as a factor in the improvement of meat production. (Por) *Mozambique. Serv. Vet. An.* 10:263-273. 1962, pub.1966. 41.9 M872
- 90968 EZERA, I. P. Livestock breeding in the Latvian SSR. (Rus) *Zhivotnovodstvo* 6:57-59. June 1967. 49 Z6
- 90969 GJEDREM, T. Selection indexes compared with single trait selection. I-II. *Acta Agr. Scand.* 17(4):263-275. Ref. 1967. 11 Ac82 In predicting the breeding value of individual animals.
- 90970 GLIGOR, V. The development of breeding in Romania. (Fr) *World Rev. Anim. Prod.* 3(14): 56-60. July/Sept.1967. 49 W89
- 90971 HANCOCK, J. L. The ultra-structure of mammalian spermatozoa. *Advan. Reprod. Physiol.* 1:125-154. 1966. QP251.A3 Review of the literature. Includes livestock.
- 90972 HOFMEYER, J. H. Progeny testing techniques as an aid to genetic improvement of livestock. *S. Afr. Soc. Anim. Prod. Proc.* 5:26-35. Ref. 1966. 49.9 So822
- 90973 JOHANSSON, I., and RENDEL, J. Genetics and animal breeding. San Francisco, Freeman, 1968. 489 p. Ref. SF105.J63 Translation of *Arftlight och husdjursforadling*.
- 90974 LEIPNITZ, C. Second report on insemination with pelleted semen. (Ge) *Tierartzl. Wochenschr.* 74(24):644-645. Dec.15,1967. 41.8 D482 English summary. Cattle.
- 90975 LEPAJOE, L. Pollumajandusloomade aretuse praktikum [Manual on breeding farm animals]. Tallinn, Valgus, 1966. 257 p. Ref. SF55.E75L4
- 90976 MCLAREN, A., ed. Advances in reproductive physiology, v. 1. London, Logos Press, 1966. 295 p. QP251.A3 Review of the literature. Includes livestock.
- 90977 PEREIRA, M. G. C. The male breeding animal. (Por) *Mozambique. Serv. Vet. An.* 10: 413-422. 1962, pub.1966. 41.9 M872 Especially selection and progeny testing.
- 90978 RADEV, G. Artificial insemination of domestic animals in German Democratic Republic. (Bu) *Zhivotnovudstvo* 21(11):45-47. Nov.1967. 49 Z62
- 90979 ROKITSKII, P. F. The development of animal genetics in USSR. (Rus) *Genetika* 10:75-85. Oct.1967. QH431.A1G4 Chiefly domestic animals, historical review.
- 90980 SILVA, J. M. P. DA. Interactions of environment and heredity. (Por) *Mozambique. Serv. Vet. An.* 10:243-246. 1962, pub.1966. 41.9 M872 Animals and humans studied.
- 90981 SOCIETY FOR THE STUDY OF FERTILITY. Proceedings; annual conference, 4th July to 8th July 1967, held at Exeter University, edited by I. W. Rowlands. *J. Reprod. Fertil.* 14(2): 343-353. Oct.1967. 442.8 J8222 Includes abstracts on livestock.
- 90982 TURNER, H. N. Genetic aspects of characteristics to be considered in the evaluation and utilization of indigenous livestock. *World Rev. Anim. Prod.* 3(12):17-26. Ref. Apr./June 1967. 49 W89 Includes adaptation of local breeds to the environment.
- 90983 VARADIN, M. Basic factors of sterility in livestock. (Se) *Vet. Glas.* 22(4):255-259. Ref. 1968. 41.8 J93 English summary.
- 90984 VSESOYUZNYI NAUCHNO-ISSLEDOVATEL'-SKII INSTITUT ZHIVOTNOVODSTVA. *Biologiya vosproizvedeniya i iskusstvennoe osemene-nie sel'skokhozyaistvennykh zhivotnykh* [Biology of reproduction and artificial insemination of domestic animals]. *Vses. Nauch.-Issled. Inst. Zhivotnovod. Sb. Nauch. Rab.* 3,185 p. 1966. SF1.V73
- 90985 VSESOYUZNYI NAUCHNO-ISSLEDOVATEL'-SKII INSTITUT ZHIVOTNOVODSTVA. *Voprosy genetiki i razvedeniya sel'skokhozyaistvennykh zhivotnykh* [Problems of genetics and breeding of domestic animals]. *Vses. Nauch.-Issled. Inst. Zhivotnovod. Sb. Nauch. Rab.* 2,135 p. 1966. SF1.V73
- 90986 VUJOVIC, R., and others. Problems of reproduction in livestock husbandry and measures for their solution. (Se) *Vet. Glas.* 22(4):231-241. 1968. 41.8 J93 B. Markovic, V. Miljkovic, U. Jerkovic, and R. Perkucin, joint authors. English summary.
- 90987 WALTHER, F. The mating ceremonial of horned animals. *Blue Book Vet. Prof.* 13:23-29. 1967. 41.9 B61Ae

## FEEDS AND FEEDING

- 90988 AMICH GALLI, J. Animal fats for feed. (Sp) *Inform. Grasas Aceites. Bol.* 4(10):364-371. Dec.1966. 307.8 In3
- 90989 BAILE, C. A., and MAHONEY, A. W. Hypothalamic function in ruminant food intake regulation. *Int. Congr. Nutr. Proc.*, 7th Congr., v.2: 67-72. Ref. 1966, pub.1967. TX345.I53 1966
- 90990 BALCH, C. C. Problems in predicting the value of non-protein nitrogen as a substitute for protein in rations for farm animal ruminants. *World Rev. Anim. Prod.* 3(14):84-91. Ref. July/Sept.1967. 49 W89
- 90991 BEREZOVSKII, A. A., and AVTOMONOV, I. YA. Improving preparation of silage. (Rus) *Zhivotnovodstvo* 6:41-47. June 1967. 49 Z6
- 90992 BERTONCELJ, M., and VALINGER, E. The use of tightly closed silos for ensiling feed grain. (Sl) *Soc. Kmetijstvo Gozdarstvo* 18(1): 19-20. Jan.20,1967. 21.5 So14
- 90993 BONADONNA, T., and CESARINI, R. "Minor" grains and production of foods of animal origin for man. (Fr) *Vitalst.-Zivilisationskrankheiten* 13(1):21-24. (Cont.) Feb.1968. 389.8 V836 Use of grain in animal nutrition.
- 90994 BUKHGOL'TS, O. E. Animal husbandry on pastures of Caspian Lowland. (Rus) *Moscow. Univ. Vestnik Ser. 5, Geogr.* 4:45-53. Ref. July/Aug.1967. 331.9 M85
- 90995 CARLSON, C. W. Iodine, vitamins, minerals, and phytic acid as related to soybean protein. *U. S. Agr. Res. Serv. ARS-71-35:81-93.* Ref. May 1967. A381 R31Ac Summary by J. C. Cown, p.247-248. In animal nutrition.

- 90996 CARVALHO, J. A. DA S. The problem of water in the development of livestock industry in the area around Guija and Limpopo. (Por) Mozambique. Serv. Vet. An. 10:97-103. 1962, pub. 1966. 41.9 M872
- 90997 CENNI, B., JANNELLA, G. G., and COLOMBANI, B. Chemical composition, digestibility and nutritive value of the hay from an artificial meadow (*Lolium italicum*, *Vicia villosa*, *Trifolium squarrosum*, *Avena sativa*) produced in the country near Volterra. (It) Aliment. Anim. 12(3):101-106. Mar. 1968. 389.78 A14  
English summary.
- 90998 CHEN, Y. K. A study of the feeding value in the use of citrus fruit by-products for stock ration. III. Study on citrus fruit by-products (pulp and pomace) as silage. (Ch) J. Agr. Forest. 15:249-264. Ref. Oct. 1966. 22.5 J823  
English summary.
- 90999 CUNHA, T. J. Feeding soybeans and soybean products. 1-5. Fla. Agr. Exp. Sta. Bull. 716: 108-120. Ref. Aug. 1967. 100 F66S  
1, Introduction, by T. J. Cunha; 2, Beef cattle, by F. S. Baker and T. J. Cunha; 3, Dairy cattle, by J. M. Wing; 4, Swine, by G. E. Combs; 5, Poultry, by R. H. Harms.  
Florida; includes soybean meal and oil.
- 91000 DAIGGER, L. A., ANDERSON, F. N., and HARRIS, L. Succotash silage // Will it pay? Nebr. Univ. Coll. Agr. Home Econ. Quart. Serving Farm Ranch Home 14(4):27-28. Winter 1968. 100 N27N  
Corn-bean silage, protein value.
- 91001 DU PLESSIS, G. F., PEROLD, I. S., and VAN DER MERWE, F. J. The spectrophotometric properties of acetone solutions containing cupric chloride and hydrochloric acid as used in digestibility studies. S. Afr. Soc. Anim. Prod. Proc. 5:112-115. Ref. 1966. 49.9 So822  
Chiefly of forages.
- 91002 ELLIOTT, R. C. Feeding standards for ruminants. S. Afr. Soc. Anim. Prod. Proc. 5:9-17. Ref. 1966. 49.9 So822
- 91003 FERRANDO, R., and others. Nutritive value of proteins extracted from alfalfa. (Fr) Int. Congr. Nutr. Proc., 7th Congr., v.5:276-278. 1966, pub. 1967. TX345.153 1966  
A. Spais, R. Boivin, and M. C. Furlon, joint authors.  
Feed and possibility in human nutrition.
- 91004 FERRANDO, R. Reflexion on the analysis of feeds for animals. (Fr) Rec. Med. Vet. 143 (6):583-588. June 1967. 41.8 R24  
English summary.  
Includes effects and toxicity.
- 91005 FERRANDO, R. Use of feed additives in the Common Market countries. (Fr) Int. Congr. Nutr. Proc., 7th Congr., v.4:737-740. 1966, pub. 1967. TX345.153 1966  
Drugs.
- 91006 FERREIRA-SOUSA, M. F. DE M. The importance of chemical analysis in the study of feeds. (Por) Mozambique. Serv. Vet. An. 10:315-319. 1962, pub. 1966. 41.9 M872  
Composition and nutritive value.
- 91007 FLAM, F. A contribution to the evaluation of quality of silage. (Cz) Prague. Vyzk. Ustav Zemed. Vestn. 13(8/9):384-387. 1966. 19.5 C333
- 91008 FREDERIKSEN, J. H. Ensiling in flat silos. (Da) Landbonyt 21(9):341-344. Sept. 1967. 11 L2322
- 91009 FREEMAN, M. D., BARNARD, R. D., and STANTON, H. T. "Animal protein factor" as an informational macromolecule. Int. Congr. Nutr. Proc., 7th Congr., v.5:777-783. 1966, pub. 1967. TX345.153 1966
- 91010 GALLEN, M. V. D. Ensiling with agricultural salt. (Du) Neth. Prov. Dir. Rijkslandbouw-voorlichting Friesland. Voorlichting Onderz. Grasland Veehouderij 1965:62-63. 1966. SF15.N4A3  
Grass silage.
- 91011 GEOFFROY, R. Investigations on the use of oilcakes in animal nutrition. (Fr) Tech. Meun. 115:5-7. Jan./Feb. 1968. 298.8 T22
- 91012 GREY, J. H. The nutritive value of South African feeds: Ground snapped corn. S. Afr. J. Agr. Sci. 10(3):857-858. Sept. 1967. 24 Su3
- 91013 HILLMAN, D., and others. Nutritional differences in hay. Mich. State Univ. Ext. Bull. 626, 4 p. May 1968. 275.29 M58B  
B. H. Bean, J. W. Thomas, and E. J. Benne, joint authors.
- 91014 HUNT, I. V. Grass for winter keep. Seed Trade Rev. 19(4):81-85. Apr. 1967. 61.8 Se32  
Livestock in Scotland.
- 91015 JACOBSON, D. R., CARR, S. B., and SUTARDI, T. Appetite regulation in the ruminant. Int. Congr. Nutr. Proc., 7th Congr., v.2:63-67. 1966, pub. 1967. TX345.153 1966
- 91016 JANICKI, J. Vitamin E in feeding and nutrition. (Ge) Int. Congr. Nutr. Proc., 7th Congr., v.1:150-155. 1966, pub. 1967. TX345.153 1966  
In animals.
- 91017 KAEMMERER, K. The importance of unknown metabolites of feed additives for the health of domestic animals and the food consumer. (Ge) Int. Congr. Nutr. Proc., 7th Congr., v.4:759-765. 1966, pub. 1967. TX345.153 1966
- 91018 KIBE, K. Effect of addition of SMS and calcium carbonate to packed silage on quality, nutritive value and bacterial changes. Jap. J. Zotech. Sci. 38(4):141-147. Ref. Apr. 1967. 49 N62
- 91019 KRAITR, J. On the perspectives of feed ensiling. (Cz) Prague. Vyzk. Ustav Zemed. Vestn. 13(5):244-245. 1966. 19.5 C333
- 91020 KUBINA, L., and LOBOTKA, J. Coefficient of kinetic friction of maize silage. (Cz) Pol'nohospodarstvo 14(3):202-210. Ref. 1968. 19.5 P752  
English summary.
- 91021 LAGUTA, A. F., and MAZELKINA, N. V. The digestibility and nutrition values of grass meal and silage prepared from curly malva and malva meal. (Rus) Vses. Nauch.-Issled. Inst. Zhivotn. Tr. 30:158-163. 1967. 49.9 R92
- 91022 LASSITER, J. W., and others. Mineral content of some Georgia livestock feeds. Ga. Agr. Exp. Sta. Res. Bull. 25, 23 p. Ref. Dec. 1967. S51.E2  
J. V. Mason, H. F. Perkins, A. R. Brown, and E. R. Beaty, joint authors.
- 91023 LOZANSKI, B. Green cut forage in the feeding of livestock. (Se) Sovremeno Zemjod. 14(5):13-14. May 1967. S13.S6
- 91024 MACDONALD, J. A. W. O. A. S. results with stover silage. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:143-144. 64.9 On83  
Corn trials with beef cattle.
- 91025 MARSHALL, B., and LONG, M. I. E. The digestible energy content of some East African grasses. East Afr. Agr. Forest. J. 33(1):64-66. Ref. July 1967. 24 Ea74
- 91026 MARTEN, G. C., and DONKER, J. D. Reed canarygrass [*Phalaris arundinacea*] outcores brome [*Bromus*] as upland pasture. Minn. Sci. 24(2):13-15. Winter 1968. 100 M668  
Palatability comparison.
- 91027 MEDAROV, P. Production of fodder mixtures and their use. (Se) Sovremeno Zemjod. 13(1): 18-20. Jan. 1966. S13.S6
- 91028 MIAKI, T. Studies on chemical composition and feeding value in forage crops. (Ja) Jap. J. Zotech. Sci. 38(6):252-256. Ref. June 1967. 49 N62  
English summary.
- 91029 MILLER, W. J., and others. Influence of zinc deficiency per se on Zn<sup>65</sup> absorption in ruminants. Int. Congr. Nutr. Proc., 7th Congr., v.5: 749-753. Ref. 1966, pub. 1967. TX345.153 1966  
- D. M. Blackmon, R. P. Gentry, and G. W. Powell, joint authors.
- 91030 MIYAZAKI, M. Proteins and feeding results. (Ja) Jap. Soc. Food Nutr. J. 20(2):5-9. Ref. July 1967. 389.9 J27  
Livestock feed.
- 91031 MONROE, W. E. Quality harvested forage. La. Ass. Agron. Proc. 8:60-63. 1967. 4 L933



- 91032 MORTIMER, R. G. Mechanized feeding of live-stock. Milk Board J. 19(3):25-27. Mar.1968. 44.8 M5934  
In Great Britain.
- 91033 MYER, M., and COUTINHO, L. P. Trees and shrubs as pasture—chanate [*Colophospermum mopane*]. (Por) Mozambique. Serv. Vet. An. 10:321-331, map. Ref. 1962, pub.1966. 41.9 M872  
In Mozambique.
- 91034 NAIK, A. H. Chemical composition of Tanzania feedstuffs. East. Afr. Agr. Forest. J. 33(2): 201-205. Ref. Oct.1967. 24 Ea74  
Nutritive value.
- 91035 NEVES, V. A. F. C. The problem of water in the area around Magude in relation to meat animals. (Por) Mozambique. Serv. Vet. An. 10: 87-96. 1962, pub.1966. 41.9 M872  
Especially precipitation and the water supply for livestock.
- 91036 NIEMANN, P. J. Modern trends in forage quality measurement with ruminants. S. Afr. Soc. Anim. Prod. Proc. 5:18-24. Ref. 1966. 49.9 So822  
Includes discussion by W. J. Stielau.
- 91037 O'DELL, B. L. Nutritionists aim for adequate diets; many problems persist. Feed Bag Red Book 1968:109-112. Ref. 389.78 F322
- 91038 OSKARDOV, P. I. Proper use of milk byproducts. (Rus) Zhivotnovodstvo 6:28-29. June 1967. 49 Z6  
Whey as feed.
- 91039 PEDERSEN, E. J. N., MOLLER, E., and SKOV-BORG, E. B. Experiments on ensiling of clover-grass mixtures and lucerne with varying amounts of sulphuric (A.I.V.) acid. (Da) Tids-skr. Planteavl 71(2):246-257. 1967. 11 T439  
English summary.
- 91040 PERRY, T. W., and CALDWELL, D. M. The value of corn silage made from the corn plant at various stages of maturity. Ind. Agr. Exp. Sta. Res. Progr. Rep. 331, 4 p. Apr.1968. 100 In2Res
- 91041 PICCIONI, M. Soybean meal in modern animal feeding. (It) Esso Agr. 16(4):14-15. Aug.1967. 58.8 Es7
- 91042 PICCIONI, M. Watering livestock increases production. (It). Esso Agr. 17(6):24-25. Dec.1,1967. 58.8 Es7  
In Italy.
- 91043 POPA, O., and MOSOLOVA, L. Study of the chemical composition and nutritive value of clover meal. (Rum) Inst. Agron. Dr. Petru Groza. Lucrari Stiint. Ser. Med. Vet. Zootehnie 21:207-213. 1965, pub.1966. SF604.15  
English summary.
- 91044 RAYMOND, W. F. The nutritive value of grasses. (It) Aliment. Anim. 12(3):107-118. Mar.1968. 389.78 AL4
- 91045 RING, O. Feed preservation by means of AIV method. (Ge) World Rev. Anim. Prod. 3(12): 47-63. Ref. Apr./June 1967. 49 W89  
English summary.
- 91046 SAUE, O. Tower silo or low silo. (No) Norsk Landbruk 12:6-7. June 16,1967. 11 N8122  
Effects on silage quality.
- 91047 SCHIEMANN, R., and BOCK, H.-D. Scientific cooperation between the U. S. S. R. and the socialist countries produced mutual scientific results in the area of animal feed. (Ge) Tierzucht 21(11):555-557. Nov.1967. 49 T443
- 91048 SHANYGINA, N. G., and MODYANOV, A. V. Changes of amino-acid composition of corn silage with various nitrogen additives. (Rus) Vses. Nauch.-Issled. Inst. Zhivotn. Tr. 30:138-145. 1967. 49.9 R92
- 91049 SHERROD, L. B. Forage analysis in relation to animal requirements. Hawaii. Univ. Ext. Misc. Publ. 45:27-28. Aug.26,1967. S544.3.H3H3  
Digestibility and nutritive value.
- 91050 SIEVERT, C. W. How to build formulas. Feed Bag Red Book 1968:135-155. 389.78 F322
- 91051 SIEVERT, C. W., comp. Summary of vitamins required by farm animals. Feed Bag Red Book 1968:156-159. 389.78 F322
- 91052 SINGH, G. S. Studies on the Bundelkhand pastures of Uttar Pradesh. I-II. Indian J. Dairy Sci. 20(3):118-126. Ref. Sept.1967. 44.8 In28  
Quality, nutritive value and hay making from *Sehima nervosum*.
- 91053 STANLEY, R. W. Silage making with emphasis on vacuum compressed silage. Hawaii. Univ. Ext. Misc. Publ. 45:37-47. Aug.26,1967. S544.3.H3H3
- 91054 STONE, J. B. Feeding practices for 1967. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:75-76. 64.9 On83
- 91055 STONE, J. B. Utilization of forages. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967: 208-212. 64.9 On83
- 91056 SUTOH, H. Recent researches on silage. (Ja) Jap. J. Zootech. Sci. 38(6):233-244. Ref. June 1967. 49 N62
- 91057 SUTOH, H., UCHIDA, S., and SAKAMOTO, K. Studies on silage-making. IX. The effect of some treatments at the ensiling time. (Ja) Okayama. Univ. Fac. Agr. Sci. Rep. 30:37-50. Ref. Oct.1967. 107.6 Ok12  
English summary.  
*Lolium multiflorum* as silage.
- 91058 SYMPOSIUM on chelation. Amer. Feed Manufacturers Ass. Nutr. Council. Proc., 27th Semi-Ann. Meeting:22-31. Ref. 1967. 389.79 Am32  
In animal nutrition.
- 91059 TAJI, K., and KOYAMA, K. Studies on reasonable utilization of soiling forage grasses in warmer districts of Japan. XII. The feeding value of corn, sudangrass, sorgho and teosinte. (Ja) Jap. J. Zootech. Sci. 38(6):269-274. June 1967. 49 N62  
English summary.
- 91060 THAER, R. Experiments on air cooling of steamed potatoes. (Ge) Grundlagen Landtech. 17(6):208-214. Ref. 1967. 58.8 G92  
English summary on content page.  
For ensiling.
- 91061 TIESEMA, K. Grass drying and roughage gain. (Du) Neth. Prov. Dir. Rijkslandbouwvoorlichting Friesland. Voorlichting Onderz. Grasland Veehouderij 1965:70-74. 1966. SF15.N4A3
- 91062 TODOROV, N., and FILIPOV, I. Use of sodium metabisulfite in preparation of silage. (Bu) Zhivotnovodstvo 21(5):17-21. May 1967. 49 Z62
- 91063 TOSCANO, J., TELES-CUNHA, J., and FERNADES, E. F. The drinking water supply and its relation to the meat animal situation in the area around Tete district. (Por) Mozambique. Serv. Vet. An. 10:105-133, map. 1962, pub. 1966. 41.9 M872  
Includes vegetation, general weather conditions and livestock statistics.
- 91064 TUREK, F. Grundlagen der Fütterung; eine Einführung in die Fütterungslehre [Principles of feeding; an introduction to the feeding science]. Ed. 3, rev. München, Bayerischer Landwirtschaftsverlag, 1967. 181 p. SF95.T8 1967  
Includes feed processing and silage preparation.
- 91065 ULLREY, D. E. Nutrition plays vital role in supplying elements for blood. Feed Bag Red Book 1968:115-122. Ref. 389.78 F322
- 91066 VAN SOEST, P. J. Energy availability of feeds occupies attention of researchers. Feed Bag Red Book 1968:9-12. Ref. 389.78 F322
- 91067 VOLGER, Sugar beet leaf harvest 1967. (Ge) Zuckerrube 16(6):5-6. Dec.1967. 66.8 Z82  
Feed.
- 91068 VSESOYUZYNI NAUCHNO-ISSEDOVATEL'-SKII INSTITUT ZHIVOTNOVODSTVA. Kormlenie i tekhnologiya kormov [Feeding and technology of feed]. Vses. Nauch.-Issled. Inst. Zhivotnovod. Sb. Nauch. Rab. 1, 69 p. Ref. 1966. SF1.V73  
Livestock feeding and silage preparation.

- 91069 VSESOYUZNYI NAUCHNO-ISSLEDOVATEL'SKII INSTITUT ZHIVOTNOVODSTVA. Kormlenie i tekhnologiya kormov [Feeding and the technology of feed]. Vses. Nauch-Issled. Inst. Zhivotn. Tr. 30,287 p. 1967. 49.9 R92
- 91070 VUKAVIC, D., KOSANOVIC, M., and SAVIC, S. The effect of low molecular nitrogen compounds on the composition, digestibility and nutritive value of corn ensiled in trenches. (Se) Novi Sad, Poljopr. Fak. Letop. Naucnih Rad. 10:121-127. 1966. 106.6 N85  
English summary.  
Urea and ammonium sulfate in silage preparation.
- 91071 WHITE-STEVENSON, R. Benefits from feed additives in animal nutrition. Int. Congr. Nutr. Proc., 7th Congr., v.4:734-737. 1966, pub.1967. TX345.153 1966
- 91072 WILDGRUBE, M., and ZAUSCH, M. Diffusion chip with higher amount of solid matter. (Ge) Tierzucht 21(11):561-562. Nov.1967. 49 T443  
Preparation of silage in East Germany.
- 91073 WINFIELD, R. G. Harvesting and storing stover silage. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:136-138. 64.9 On83
- 91074 YAHARA, N., and SASAKI, K. Studies on the ruminant utilization of silage. I. Effect of silage on rumen contents and nitrogen balance. (Ja) Hokkaido Nat. Agr. Exp. Sta. Res. Bull. 91:41-46. Ref. Mar.1967. 107.6 H68  
English summary.
- 91075 ZIMMER, E., and KRUGER, H. O. Futterketten in der Silowirtschaft [Forage chain in the silage economy]. Mod. Landwirt 6,92 p. 1966. 18 M722  
Silage preparation, including labor.

## VETERINARY MEDICINE

- 91076 AABERG, H. C., and others. Informational and educational activities. Nat. Brucell. Comm. Proc., 1967:46-47. aSF809.B8N3  
R. E. Burleson, N. J. Post, H. S. Nicol, C. G. Scruggs, and P. Zillman, joint authors.  
Cooperative State-Federal Brucellosis Eradication Program.
- 91077 AABERG, H. C. Informational educational activities, Subcommittee on Information and Education, National Brucellosis Committee. Nat. Brucell. Comm. Proc. 1966:18-19. aSF809.B8N3
- 91078 ABROSIMOVA, R. S., and KOZUNIN, I. I. Adaptation of projecting installations for ultra-violet irradiation of livestock in large group concentrations. (Rus) Vses. Nauch-Issled. Inst. Zhivotn. Tr. 30:263-269. 1967. 49.9 R92
- 91079 ALBERTA. DEPT. OF AGRICULTURE. VETERINARY SERV. BR. Annual report, 1966. Edmonton, 1966. 69 p. 41.9 AL15
- 91080 AMERICAN ANIMAL HOSPITAL ASSOCIATION. Selected abstracts from scientific reports of the 34th annual convention. Amer. Vet. Med. Ass. J. 150(9):1050-1060. May 1, 1967. 41.8 Am3
- 91081 ANJARIA, J. V., and GUPTA, I. Studies on lactogenic property of *Leptadenia reticulata* (Jivanti) and leptaden tablets in goats, sheep, cows and buffaloes. Indian Vet. J. 44(11):967-974. Ref. Nov.1967. 41.8 In2
- 91082 ARLINGHAUS, R. B., and POLATNICK, J. Detergent-solubilized RNA polymerase from cells infected with foot-and-mouth disease virus. Science 158(3806):1320-1322. Ref. Dec.8, 1967. 470 Sci2
- 91083 ARUNDEL, J. H. New responsibilities for the veterinary profession. Australian Vet. J. 43(6):230-231. June 1967. 41.8 Au72
- 91084 ARZUMANYAN, ZH. R. Pathogenicity of *Lep-tospira* strain, isolated in Armenia, for various animals. (Rus) Zh. Mikrobiol. Epidemiol. Immunobiol. 1:151. Jan.1967. 448.3 Z4
- 91085 AUSTRALIAN VETERINARY ASSOCIATION. COMMITTEE ON VETERINARIANS IN NATIONAL DEFENCE. The veterinary profession in national defence. Australian Vet. J. 43(6):224-226. June 1967. 41.8 Au72
- 91086 AUSTWICK, P. K. C. The role of spores in the allergies and mycoses of man and animals. In Madelin, M. F., ed. The fungus spore, p.321-338. Ref. 1966. QK601.M3  
Includes discussion.
- 91087 BADALOV, E. T. A mixture of polychloroprene with prolongator—a preparation against ixodes. (Rus) Veterinariya 8:102-103. Aug. 1967. 41.8 V6426  
A polyvinyl acetate emulsion added.
- 91088 BAIES, A., MARICA, D., and POP, M. Comparative study of strains of *Listeria monocytogenes* isolated from livestock. (Rum) Inst. Agron. Dr. Petru Groza. Lucrari Stiint. Ser. Med. Vet. Zootehnie 21:73-82. 1965, pub.1966. SF604.15  
English summary.
- 91089 BALANDIN, G. A., and DROZHEVKINA, M. S. Species of *Brucella* isolated from northern reindeers. (Rus) Zh. Mikrobiol. Epidemiol. Immunobiol. 2:70-74. Ref. Feb.1967. 448.3 Z4  
English summary.  
*Brucella suis*.
- 91090 BAILY, V. E., and VOZHDAEV, N. S. Brucellosis control in animals grazing on distant pastures. (Rus) Veterinariya 8:56-67. Aug. 1967. 41.8 V6426
- 91091 BARGAI, U. Veterinary radiography in Israel. Amer. Vet. Radio. Soc. J. 8:61-63. 1967. 41.9 Am37
- 91092 BATES, R. What price livestock health and efficient food production? Feed Farm Supplier 41(8):22. Aug.1967. 47.8 H28  
Summary of reports.  
Drugs in feed.
- 91093 BAUER, F. Treatment of babesiosis with Berenil. Blue Book Vet. Prof. 13:9-15. Ref. 1967. 41.9 B61Ae
- 91094 BAUMGARDT, E. Les sensations chez l'animal [The senses of animals]. Ed. 2, rev. Paris, Presses Universitaires de France, 1967. 126 p. (Que sais-je? Le point des Connaissances Actuelles, No.576) QP431.B3 1967
- 91095 BAYRAMOGLU, O., UNLUBLEBICI, N., and GIRARD, H. C. Experiments on the value of saponin used alone as an additive for the preparation of foot-and-mouth disease vaccine. (Fr) Acad. Vet. France. Bull. 40(6): 283-286. June 1967. 41.9 R24
- 91096 BERDYEV, A. A. Results of the reaction of complement fixation in toxoplasmosis of some domestic and wild animals in Turkmenistan. (Rus) Akad. Nauk Turkm. SSR Izv. Ser. Biol. Nauk 3:76-78. Ref. 1967. 442.9 Ak124
- 91097 BEZRUKOV, N. I. On the morphology of ovary in *Camelus bactrianus*. (Rus) Akad. Nauk SSSR. Dokl. 179(4):990-992. 1968. 511 P444A
- 91098 BRAND, A., WILLEMSE, A. H., and MUURLING, F. Biological backgrounds and artificial control of the normal oestrous cycle in farm animals. I-III. (Du) Tijdschr. Diergeneesk. 93(5):261-297. Ref. Mar.1, 1968. 41.8 T431  
English summaries.
- 91099 BREZA, M. On the control of gastrointestinal strongylosis in ruminants incurred on pastures. (Cz) Veterinarstvi 17(9):397-400. 1967. 41.8 V6439
- 91100 BRITO, B. G. P. The role of the veterinarian in the military supply services. (Por) Mozambique. Serv. Vet. An. 10:29-35. 1962, pub.1966. 41.9 M872  
Especially veterinary food inspection.
- 91101 BROOKBANKS, E. O., GALLAGHER, P., and DAVENPORT, P. G. New Zealand veterinarians study animal diseases in Thailand. New Zeal. J. Agr. 114(1):37,39,41,43. Jan.1967. 23 N48J
- 91102 BROWN, F., and others. Infective virus substructure from vesicular stomatitis virus. J. Virol. 1(2):368-373. Apr.1967. QR360.J6  
B. Cartwright, J. Crick, and C. J. Smale, joint authors.



- 91103 BRUMMER, H., and EIKMEIER, H. Psychosomatic disturbances and diseases in animals. 2. (Ge) Deut. Tierarztl. Wochenschr. 74(18):455-460. Ref. Sept.15,1967. 41.8 D482  
English summary.  
Includes digestive tract disturbances of domestic animals.
- 91104 BURCKHARDT, D. Rabies situation in Switzerland. (Ge) Schweiz. Naturschutz 34(1):10-11. Feb.1968. 279.8 Sch9
- 91105 BURGSTALLER, K., SOPH, A., and TREFNY, D. Evaluation of results of the inspection of animals for slaughter and meat. (Cz) Veterinarstvi 17(9):417-420. 1967. 41.8 V6439
- 91106 BUSH, J. A. Aujeszky's disease in northern Indiana. Pract. Vet. 5:141-144. Sept./Oct. 1967. 41.8 AL5
- 91107 CAMPEAN, C., and CAMPEAN, N. Determination of pH in situ by electrometric method using the electrodes of E. Makovsky and its significance. (Ge) Folia Vet. 10(1):143-148. 1966. 41.8 F712  
English summary.  
For the determination of the activities of the ovaries.
- 91108 CAPATINA, V., GIURGIU, T., and MOLDOVEANU, C. Study of the portal therapy with oxygen in experimental traumatic shocks. (Rum) Inst. Agron. Dr. Petru Groza. Lucrari Stiint. Ser. Med. Vet. Zootehnie 21:111-118. 1965, pub. 1966. SF604.15  
English summary.
- 91109 CASTELLA BERTRAN, E. Where is veterinary therapeutics heading? (Sp) Lerida Pecuar. (ser.4)10:24-28,30. Dec.1966. 41.8 L56
- 91110 CHISHOLM, E. Identifying stock for disease control. New Zeal. J. Agr. 114(3):28. Mar. 1967. 23 N48J
- 91111 CHRISTENSON, I. Veterinary medicine at Goteborg University, trade schools, and other institutions during 25 years. (Sw) Svensk Veterinaritidn. 19(23):681-687. Dec.1967. 41.9 Sv23
- 91112 CHROUST, K. Causes, diagnosis and treatment of gastrointestinal verminosis of ruminants. (Cz) Veterinarstvi 17(9):401-405. 1967. 41.8 V6439
- 91113 COMMANDEUR, N. A. The creation of the Veterinary College [Veeartsenijkundige Hogeschool]. (Du) Tijdschr. Diergeneesk. 93(6):339-341. Mar.15,1968. 41.8 T431
- 91114 COPENHAGEN, VETERINAEROG LANDBOHJSSKOKEN. Beretning [Report of the Veterinary and Agricultural College], 1965/66. Kobenhavn, 1967. 155 p. 104 D41B
- 91115 COPORDA, M. The origin of the technical term "veterinarian." (Se) Vet. Glas. 21(5):435-438. 1967. 41.8 J93
- 91116 CORSON, O. D. The Cooperative State-Federal Brucellosis Eradication Program—a progress report. Nat. Brucell. Comm. Proc., 1967:1-19, map. aSF809.B8N3  
Cattle, swine, and goats.
- 91117 COSTA, M. P. R. DA. Helminthiasis and meat production. (Por) Mozambique. Serv. Vet. An. 10:167-170. 1962, pub. 1966. 41.9 M872  
Importance of helminthology in prevention of losses in Mozambique.
- 91118 COUSINEAU, G. Considerations on the zoonoses of wildlife. (Fr) Saint-Hyacinthe. Ecole Med. Vet. 9(5):65-67. Sept./Oct.1967. 41.9 Sa2  
Canada; includes diseases of domestic animals.
- 91119 DAS, S. K., DOBERENZ, A. R., and WYCKOFF, R. W. G. The lipids in fossils. Compar. Biochem. Physiol. 23(2):519-525. Ref. Nov.1967. 444.8 C73  
Of animals.
- 91120 DI DOMIZIO, MINOCCHEREI, F., and TATARO, L. Isoenzymes of lactic dehydrogenases in some spontaneous neoplasms of animals. (It) Arch. Vet. Ital. 18(5):321-334. Ref. Oct. 31,1967. 41.8 Ar25  
English summary.
- 91121 DITTRICH, S. Regulatory processes in the European Common Market and their accomplishments shown in relation to drugs and veterinary activity. (Ge) Deut. Tierarztl. 15(6):248,250-252,254. June 15,1967. 41.8 D484
- 91122 DULSHEEV, A. D. Chlorochin-diophosphate application for haemosporidiasis treatment. (Rus) Veterinariya 8:72-74. Aug.1967. 41.8 V6426
- 91123 DUNAEV, G. V. A luminescent microscope study of the nuclear apparatus and mitochondria of Bacillus anthracis. (Rus) Veterinariya [Kiev] 12:88-91. 1967. SF604.V44
- 91124 DYK, V. Current state of studies of lung and gastro-intestinal helminths of ruminants in Czechoslovakia with regard to new forms of animal production and wildlife management. (Cz) Veterinarstvi 17(9):391-397. 1967. 41.8 V6439  
Includes control.
- 91125 DZEKOV, A. Control of livestock diseases in 1966. (Se) Sovremeno Zemjod. 13(1):17-18. Jan.1966. S13.S6
- 91126 DZEKOV, A. Who bears expenditures for the prevention and control of livestock diseases. (Se) Sovremeno Zemjod. 14(3):15. Mar.1967. S13.S6
- 91127 ERMAKOV, P. Veterinary services in the Saratov Region, in the past and present time. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 9:31. Sept.1967. 281.8 Se4
- 91128 ERMEKOV, M. A., and others. Veterinary education in Kazakh SSR. (Rus) Veterinariya 8:109-111. Aug.1967. 41.8 V6426  
Z. K. Kozhebekov, N. V. Bukreev, and A. I. Kshukina, joint authors.
- 91129 EVERED, D. F. Species differences in amino acid excretion by mammals. Compar. Biochem. Physiol. 23(1):163-171. Ref. Oct.1967. 444.8 C73
- 91130 FAIMAN, C., and others. Species specificity of FSH and LH as determined by radioimmunoassay. Soc. Exp. Biol. Med. Proc. 125(4):1232-1234. Ref. Aug./Sept.1967. 442.9 So1  
R. J. Ryan, J. G. Greslin, and L. E. Reichert, joint authors.  
Includes livestock.
- 91131 FILOTTI, A., DEREVICI, A., and TOACSEN, E. Action of bee venom on fixed rabies virus. (Fr) Arch. Roumaines Pathol. Exp. Microbiol. 26(4):741-746. Dec.1967. 448.3 AR22
- 91132 FINTER, N. B., ed. Interferons. Philadelphia, Saunders, 1966. 340 p. QR360.F5  
Chapter 8, Interferons in animals and man, by N. B. Finter.  
Includes domestic animals.
- 91133 FLUCKIGER, G. Reflections at the 25th-year anniversary of the Federal Vaccine Institute [Eidgenossisches Vakzine Institut] in Basel. (Ge) Schweiz. Arch. Tierheilk. 109(10):559-567. Oct.1967. 41.8 Sch9  
English summary.
- 91134 FOLKERS, C., and KUIL, H. Blood-parasites in cattle, sheep and goats in northern Nigeria. Bull. Epizoot. Dis. Afr. 15(2):121-123. June 1967. 41.8 B872
- 91135 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. Animal health yearbook 1966. Rome, 1967. 324 p., map. 41.9 F732A  
World Health Organization, and Office International des Epizooties, cooperating.
- 91136 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. EUROPEAN COMMISSION FOR THE CONTROL OF FOOT-AND-MOUTH DISEASE. Report of the thirteenth session, held in Rome, Italy, 22-24 March 1966. Rome, 1966. 85 p. (Its Meeting Report AN 1966/1) 41.9 D733
- 91137 FORENBACHER, S. The reactivity of the adrenal cortex in some domestic animal species under normal and pathological conditions (experimental and clinical observations). (Ge) Zentralbl. Veterinarmed. Reihe A, 14(4):285-301. June 1967. 41.8 Z5  
English summary.  
Cattle, horses and swine.

- 91138 FRANCIS, J. The future of the veterinary profession. *Australian Vet. J.* 43(6):226-230. Ref. June 1967. 41.8 Au72
- 91139 FRANCOIS, A. C. Study of the metabolism of foreign substances; proposals for standardization of experimental conditions. (Fr) *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:753-757. 1966, pub. 1967. TX345.153 1966  
Feed additives in animal physiology.
- 91140 FRAZER, A. C. Toxicity of additives to animal feeds. *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:757-759. 1966, pub. 1967. TX345.153 1966
- 91141 GASPARINI, U. Zoonoses or diseases transmittable from animals to man. (It) *Inform. Zootec.* 14(15/16):13-20. Aug. 15, 31, 1967. 49 In3
- 91142 GEARY, J. C. Veterinary tomography. *Amer. Vet. Radiol. Soc. J.* 8:32-38. Ref. 1967. 41.9 Am37
- 91143 GOTZ, H., and BALOGH, R. Serum proteins of animals; agar electrophoretic studies on the goat, dog, cat, duck and hen. (Ge) *Zentralbl. Veterinarmed. Reihe A*, 14(5):385-394. Ref. Aug. 1967. 41.8 Z5  
English summary.
- 91144 GRABER, M., TABO, R., and SERVICE, J. Survey on the helminths of dromedary in Chad, with special reference to gastro-intestinal strongylosis and haemonchosis (*Haemonchus longistipes*). (Fr) *Rev. Elevage Med. Vet. Pays Trop. (n.s.)* 20(2):227-254, map. Ref. 1967. 41.8 R3262  
English summary.
- 91145 GRADIL, J. C. N. M. Trypanosomiasis and meat production—can animal trypanosomiasis in Mozambique be considered the greatest factor impeding meat production? (Por) *Mozambique. Serv. Vet. An.* 10:189-206, map. Ref. 1962, pub. 1966. 41.9 M872  
Importance of control of the disease and its Glossina vectors.
- 91146 GRAU, H., and WALTER, P. Grundriss der Histologie und vergleichenden mikroskopischen Anatomie der Haussaugetiere [Outline of the histology and comparative microscopic anatomy of domestic mammals]. Berlin, Parey, 1967. 163 p. QM551.G7
- 91147 GRIGORIU, N., SIMON, M. DE, and PADURARU, V. Study concerning the adsorption of cultures in broth of *Mycoplasma agalactiae* by hydroxide of aluminium. (Rum) *Bucharest. Inst. Cercet. Vet. Bioprep. "Pasteur."* Lucrările 4(3/4):123-132. 1965, pub. 1966. 41.9 R863  
English summary.
- 91148 GUERREIRO, R. T. DA C. Notes on the study trip of the veterinary students to Angola and South Africa. (Por) *Lisbon. Escol. Super. Med. Vet. An.* 8:65, 67-90. 1966, pub. 1967. 41.9 L682  
English summary.
- 91149 GUSEV, A. A. The effect of carbohydrates on urea hydrolysis and biomass accumulation by rumen microflora. (Rus) *Veterinariya* 3:73-74. Mar. 1967. 41.8 V6426
- 91150 HALADEJ, S. The role of diagnosis in the eradication of lung and intestinal worms. (Cz) *Veterinarstvi* 17(9):405-406. 1967. 41.8 V6439  
Ruminants.
- 91151 HAN, T. W., and JEON, Y. Studies on ticks. III. Observation on the life cycle of *Haemaphysalis bispinosa*. (Ko) *Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep.* 10(5):35-42. Ref. Sept. 1967. 22.5 K843  
English summary.
- 91152 HAPKE, H. J. Drug effects on the eye; summary review. (Ge) *Deut. Tierarztl. Wochenschr.* 74(12):312-313. (Cont.) June 15, 1967. 41.8 D482
- 91153 HAPKE, H. J. The toxicity of aminotriazol for domestic animals. (Ge) *Zentralbl. Veterinarmed. Reihe A*, 14(5):469-486. Ref. Aug. 1967. 41.8 Z5  
English summary.
- 91154 HOLUS, A. Present state of physiological studies of livestock in USA, Great Britain and France. (Cz) *Prague. Vyzk. Ustav. Zemed. Vestn.* 13(2):51-55. 1966. 19.5 C333
- 91155 ILLINOIS. UNIVERSITY. COOPERATIVE EXTENSION SERV. IN AGRICULTURE AND HOME ECONOMICS. 1968 suggested insecticide guide; insect control for livestock and livestock barns. Ill. Univ. Ext. Circ. 898, 4 p. Dec. 1967. 275.29 IL62C  
Illinois Neutral History Survey, cooperating.
- 91156 INTERAFRICAN BUR. FOR ANIMAL HEALTH. Geographical distribution of animal diseases in 1967. *Bull. Epizoot. Dis. Afr.* 15(2):163-168, map. June 1967. 41.8 B872  
Text also in French.
- 91157 ITO, F., and others. A fern poisoning-like disease observed in an improved pasture. (Ja) *Jap. Vet. Med. Ass. J.* 20(9):389-394, map. Ref. Sept. 1967. 41.9 J275  
S. Oyama, K. Shioji, S. Tachika, K. Roda, and T. Ando, joint authors.
- 91158 JACOB, K. Nature and importance of determined inflammation. (Ge) *Berliner Monatsschr. Tierarztl. Wochenschr.* 80(18):354-358. Ref. Sept. 15, 1967. 41.8 B45  
English summary.
- 91159 JACQUET, J., and BOUTIBONNES, P. Research on the properties of the pathogenic *Aspergillus*; the major species: *Aspergillus fumigatus*, *A. clavatus*, *A. flavus*. (Fr) *Acad. Vet. France. Bull.* 40(4):169-180. Ref. Apr. 1967. 41.9 R24  
Includes discussion.
- 91160 JACQUET, J., and BOUTIBONNES, P. Research on the properties of pathogenic *Aspergillus*; the minor species. (Fr) *Acad. Vet. France Bull.* 40(10):489-500. Ref. Dec. 1967. 41.9 R24
- 91161 JAMES, C. K. Mycotoxicosis in animals—its causes and remedies. *Indian Farming* 18(1):30-31, 33-34. Apr. 1968. 22 In283  
Contamination of livestock feed in India.
- 91162 JORNADAS MEDICO-VETERINARIAS DE MOZAMBIQUE. I. LOURENCO MARQUES, 1962. Trabalhos apresentados dos [Papers presented at the first Veterinary Medicine Sessions of Mozambique]. *Mozambique. Serv. Vet. An.* 10, 493 p. 1962, pub. 1966. 41.9 M872  
General topic: The various aspects of meat production.
- 91163 JOURNEES D'INFORMATION DES DIRECTEURS DES SERV. VETERINAIRES, 1965. Tuberculose, fièvre aphteuse, brucellose, in semination [Tuberculosis, foot-and-mouth disease, brucellosis, insemination]. *Fr. Serv. Vet. Inform. Tech. Bull.* 12, 31 p., map. 1965. 41.9 F843I
- 91164 JURISSON, E. Veterinaarfarmakoloogia [Veterinary pharmacology]. Tallinn, Valgus, 1966. 366 p. SF915.J8
- 91165 KABELIK, V., KRASKA, K., and JERABEK, P. Aujeszky's disease of livestock in the central Bohemia. (Cz) *Veterinarstvi* 17(9):413-417. 1967. 41.8 V6439
- 91166 KADARIK, K., and others. Koduloomade fusiolooia [Physiology of domestic animals]. Tallinn, Valgus, 1966. 311 p. SF768.K58  
A. Mannik, E. Reintam, J. Tehver, and E. Valdmann, joint authors.
- 91167 KALASHNIK, N. M. Bacillus anthracis antigens for gel diffusion-precipitation reactions. (Rus) *Veterinariya [Kiev]* 12:96-99. 1967. SF604.V44
- 91168 KARAKULOV, I. K. Epidemiologiya, epizootologiya i laboratornaya diagnostika likhoradki Ku [Epizootiology, epidemiology and laboratory diagnosis of Q fever]. Alma-Ata, Nauka, 1966. 146 p. Ref. RC182.Q2K3
- 91169 KASHIWABARA, T. Effects of irradiation on reproductive functions of the domestic animals. (Ja) *Jap. J. Zootech. Sci.* 38(4):123-132. Ref. Apr. 1967. 49 N62
- 91170 KASYUK, I. G., and MAKSIMOV, B. A. Improvement of professional skill of veterinarians. (Rus) *Veterinariya* 3:103. Mar. 1967. 41.8 V6426
- 91171 KERVRAN, C. L. An accelerating effect of magnesium on the buildup of phosphorus and calcium in the animal. (Fr) *Paris. Acad. Agr. France. Compt. Rend. Hebd. Seances* 53(17):1368-1373. Dec. 6/13, 1967. 14 P215Bc  
English summary.



- 91172 KHALTOV, R. KH., and POKUDIN, A. Higher veterinary education in Uzbek SSR. (Rus) Veterinariya 8:112-113. Aug.1967. 41.8 V6426
- 91173 KHASHIMOV, M. M. Veterinary service on a collective farm market. (Rus) Veterinariya 8:108. Aug.1967. 41.8 V6426
- 91174 KHUDALBERDIYEV, N. Veterinary service of Uzbekistan—to the level of modern tasks. (Rus) Veterinariya 8:6-8. Aug.1967. 41.8 V6426
- 91175 KIM, S. K. Studies on the ovicidal effect of sodium nitrite and sodium-PCP to Ascaris eggs. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(5):67-72. Sept. 1967. 22.5 K843  
English summary.
- 91176 KOLMODIN, P. I. Only healthy animals should be brought into newly cleaned shelters. (Sw) Hallands Lans Hushallningssallsk. Tidskr. 5:6. Sept.1967. 11 H152
- 91177 KONYAKHIN, A. N. The effects of Grisein and Terramycin on the specific and cross resistance to antibiotics of the intestinal microorganisms of livestock. (Rus) Vses. Nauch.-Issled. Inst. Zhivotn. Tr. 30:190-196. 1967. 49.9 R92
- 91178 KOUDELA, K. On losses caused by fascioliasis in livestock for slaughter in Czechoslovakia. (Cz) Veterinarstvi 17(9):411-413. 1967. 41.8 V6439
- 91179 KRASNIKOV, G. A. Electron microscopy of foot-and-mouth virus purified by several techniques. (Rus) Veterinariya (Kiev) 12:9-15. Ref. 1967. SF604.V44
- 91180 KUBOTA, J., and others. The relationship of soils to molybdenum toxicity in grazing animals in Oregon. Soil Sci. Soc. Amer. Proc. 31(5):667-671, map. Ref. Sept./Oct.1967. 56.9 So3  
V. A. Lazar, G. H. Simonson, and W. W. Hill, joint authors.
- 91181 KUDLAC, E. Use of gonadotropic hormones in the stimulation of sexual activity and treatment of functional disorders in female livestock. (Cz) Veterinarstvi 17(9):421-425. 1967. 41.8 V6439
- 91182 KUVSHINOV, A. F. Veterinary service of Tadzhikistan. (Rus) Veterinariya 8:13-15. Aug. 1967. 41.8 V6426
- 91183 LAGNEAU, F. Pathology of mammary glands of the domestic animals. (Fr) Rev. Pathol. Comp. 67(790):375-380. Sept.1967. 448.8 R326
- 91184 LALLA, F. DE, BECHELLI, G., and SAMPIERI, L. C. Serological observations and parasitological examinations on the spreading of toxoplasmosis in foxes of the Siena area. (It) Clin. Vet. 90(8):393-400. Ref. Aug.1967. 41.8 C61  
English summary.  
Information on the transmission of the disease in domestic animals.
- 91185 LEAT, W. M. F. Plasma lipids of newborn and adult ruminants and of lambs from birth to weaning. J. Agr. Sci. [London] 69(2):241-246. Ref. Oct.1967. 10 J822
- 91186 LEBEDEVA, YE. P. Several characteristics of RNA of infectious foot-and-mouth virus isolated from baby rabbit muscle tissue. (Rus) Veterinariya (Kiev) 12:16-21. Ref. 1967. SF604.V44
- 91187 LELAND, S. E., KLING, J. M., and WALLACE, L. J. Tests for anthelmintic activity of 3-methyl-5-[(p-nitrophenyl)azo] rhodanine (CTR 6110, Nitrodan). J. Parasitol. 53(1):20. Feb.1967. 448.8 J824  
In horses, dogs and cats.
- 91188 LEROY, F., ZELTER, S. Z., and FRANCOIS, A. Protection of feed proteins against bacterial deamination in the rumen. (Fr) Int. Congr. Nutr. Proc., 7th Congr., v.5:113-117. Ref. 1966, pub.1967. TX345.I53 1966  
In ruminants.
- 91189 LOMAKA, V. A., and others. Spravochnik veterinarnykh preparatov [A handbook of veterinarian preparations]. Kiev, Urozhai, 1967. 250 p. SF915.S6  
V. I. Zabel'skii, M. I. Roitenberg, and V. A. Titok, joint authors.
- 91190 MADZHAROV, I. Hormones and productivity of domestic animals. (Bu) Zhivotnovodstvo 21(4):36-39. Apr.1967. 49 Z62
- 91191 MAGNUSSON, L. E. Orthopedic studies in England. (Sw) Svensk Veterinartidn. 19(23):667-668. Dec.1967. 41.9 Sv23
- 91192 MAJER, M. Production of virus vaccines. Process Biochem. 2(12):25-31. Ref. Dec.1967. TP1.P7  
For man and animals.
- 91193 MAKSUMOV, S. S., and ZAKHAROV, V. B. The use of Volman-Behar mixture. (Rus) Veterinariya 8:46-48. Aug.1967. 41.8 V6426
- 91194 MALIK, P. D., and others. Salmonella serotypes from camel in India. Punjab Agr. Univ. J. Res. 4(1):123-126. Ref. Mar.1967. S19.P8  
S. K. Datta, I. P. Singh, and D. S. Kalra, joint authors.
- 91195 MALVIYA, H. C. Morphological observations on Fasciola gigantica Cobbold, 1855, with remarks on the validity of Fasciola indica Varma, 1953. Indian J. Vet. Sci. Anim. Husb. 37(2):67-77. Ref. June 1967. 41.8 In22
- 91196 MANTHEI, C. A. Report of the Subcommittee on Research. Nat. Brucell. Comm. Proc. 1966:6-7. aSF809.B8N3  
National Brucellosis Committee.
- 91197 MARCIA, D. Study of culture media and variations in pneumobacillus friedlanderii. (Rum) Inst. Agron. Dr. Petru Groza. Lucrari Stiint. Ser. Med. Vet. Zootehnie 21:83-88. 1965, pub.1966. SF604.I5  
English summary.  
Klebsiella pneumoniae.
- 91198 MATYAS, E., KRAL, E., and HOLEC, J. Planning of the number of veterinary doctors and veterinary technicians required by highly mechanised slaughterhouses. (Ge) Monatsh. Veterinarmed. 22(12):525-528. July 1967. 41.8 M742  
English summary.  
Czechoslovakia.
- 91199 MAUFFETTE, J. Legislation on zoonoses—the need for collaboration among professionals in public health. (Fr) Saint-Hyacinthe. Ecole Med. Vet. 9(5):71-72. Sept./Oct.1967. 41.9 Sa2  
Canada.
- 91200 MAYR, A. Relationship between occurrence of infectious diseases and vaccine prophylaxis in livestock epidemy. (Ge) Zentralbl. Bakterirol. Parasitenk. Infektionskr. Hyg. Abt. I, Orig. 205(1/3):276-291. Dec.1967. 448.3 C33  
Includes discussion.
- 91201 MCLAUCHLAN, G. N.Z. strengthens defence against exotic diseases. New Zeal. J. Agr. 114(4):13-15. Apr.1967. 23 N48J  
Livestock.
- 91202 MEGALE, F. Endoscopic photography of ruminants. Vet. Med./Small Anim. Clin. 62(2):555-557. June 1967. 41.8 M69
- 91203 MELYUKOV, A. N. Effect of ultraviolet rays on physiological state and productivity of domestic animals and poultry. (Bu) Zhivotnovodstvo 21(5):35-40. May 1967. 49 Z62
- 91204 THE MERCK veterinary manual; a handbook of diagnosis and therapy for the veterinarian. Ed. 3. Rahway, Merck, 1967. 1686 p. SF745.M4 1967
- 91205 MILANKO, L. YA. A study of the nuclear apparatus of Salmonella with luminescent microscopy and the Feulgen and Pekar'skii-Robineau reaction. (Rus) Veterinariya [Kiev] 12:92-95. 1967. SF604.V44
- 91206 MORALES, P. Veterinary medicine, a necessary science. (Sp) Lerida Pecuar. (ser.4)10 34-35. Dec.1966. 41.8 L56
- 91207 MORGAN, H. C. The value of urine specific gravity determinations. 1. Vet. Med./Small Anim. Clin. 62(5):416,419-420,523. May 1967. 41.8 M69  
Useful in disease diagnosis.
- 91208 MORGAN, H. C. The value of urine specific gravity determinations. 2. Vet. Med./Small Anim. Clin. 62(6):585-586. June 1967. 41.8 M69  
Nephritis and diabetes.
- 91209 MORGAN, W. J. B., and GOWER, S. G. M. Techniques in the identification and classification of Brucella. Soc. Appl. Bacteriol. Tech. Ser. 1:35-50. Ref. 1966. QR41.S6

- 91210 MORROW, D. A. A credit program for veterinary practice. II. Collection policies & procedures. *Vet. Med./Small Anim. Clin.* 62(5):445-450. May 1967. 41.8 M69
- 91211 MORROW, D. A. Minimizing accounts receivable. *Vet. Med./Small Anim. Clin.* 62(6):573-575. June 1967. 41.8 M69  
For clients fees.
- 91212 MOSOLOV, D. J., and ESHANOV, Y. Training of veterinary, assistant surgeons in the republics of Central Asia. (Rus) *Veterinariya* 8:113-115. Aug. 1967. 41.8 V6426
- 91213 MOZAMBIQUE. SERV. DE VETERINARIA. Statistical elements relative to the year 1962. (Por) *Mozambique. Serv. Vet. An.* 10:459-483. 1962, pub. 1966. 41.9 M872
- 91214 MUDAROV, A. M. Veterinary service of Soviet Turkmenistan. (Rus) *Veterinariya* 8:16-18. Aug. 1967. 41.8 V6426
- 91215 NATIONAL BRUCELLOSIS COMMITTEE. Proceedings, 1966. Washington, U. S. Department of Agriculture, 1966. 44 p., map. aSF809.B8N3
- 91216 NAZAROV, G. S. Preduprezhdenie i pervaya pomoshch' pri otravleniyakh zhivotnykh khimicheskimi veshchestvami [Prevention and the first aid for livestock poisoned with chemicals]. Moskva, Kolos, 1966. 72 p. SF757.5.N3
- 91217 NICOLESCO, M. Diagnosis by complement fixation tests with antigen mixtures in the detection of animal leptospirosis. (Fr) *Arch. Roumaines Pathol. Exp. Microbiol.* 26(4):761-767. Dec. 1967. 448.3 AR22
- 91218 NURMATOV, R. SH. The effect of trichloro-metaphos-3 and lindane on animals. (Rus) *Veterinariya* 8:85-87. Aug. 1967. 41.8 V6426
- 91219 OLINIYK, M. K., BABKIN, A. F., and DOBROLYUBOVA, N. I. Typifying foot-and-mouth disease A-i virus by serological reaction. (Uk) *Visn. Sil's'kohospod. Nauk.* 1:103-110. Jan. 1967. 20 V82  
Russian summary.
- 91220 OLIVER, W. T. Commentary on the evaluation of drugs for use in veterinary medicine in Canada. *Can. J. Comp. Med. Vet. Sci.* 31(5):125-128. May 1967. 41.8 C162
- 91221 OSBALDISTON, G. W. Cytology of the blood of domestic animals - the numbers of blood elements in normal animals. *Veterinarian (Oxford)* 5(1):33-42. Ref. Jan. 1968. 41.8 V6467
- 91222 OSTERHOFF, D. R. Recent developments in blood-group studies in domestic animals. *S. Afr. Soc. Anim. Prod. Proc.* 5:174-185. Ref. 1966. 49.9 So822
- 91223 OTANI, H. Rabies control in Public Health Administration. (Ja) *Jap. Vet. Med. Ass. J.* 20(9):382-385. Ref. Sept. 1967. 41.9 J275
- 91224 PANOV, D. Insecticides and their toxicity to livestock. (Se) *Sovremeno Zemjod.* 13(3):15-17. Mar. 1966. S13.S6
- 91225 PARRAKOVA, E., SECKAROVA, A., and KRCMERY, V. The characteristics of Enterobacteriaceae of the environment of establishments of livestock production. I. (Cz) *Czech. Min. Zemedel. Lesniho Hospodar. Ustav Vedeckotech. Inform. Vet. Med.* 40(2):69-72. Feb. 1967. 41.9 C333  
English summary.  
Chiefly *Escherichia coli*.
- 91226 PEARSON, R. Staining brucella organisms. *New Zeal. Ass. Bacteriol. J.* 22(1):31. Mar. 1968. 448.49 N48
- 91227 PEREZ Y PEREZ, F. Prospects for veterinary medicine. (Sp) *Lerida Pecuar. (ser.4)* 6:4-7, 10-15, 17. Aug. 1966. 41.8 L56  
Especially in Spain.
- 91228 PETERS, H. Visits to foreign research institutes of medical zoology. VI. Toxoplasmosis research and the institutes of Prague. (Ge) *Prakt. Schadlingsbekämpfer* 19(1):1-3. Jan. 1967. 421 P882  
Toxoplasma gondii transmitted by wildlife and livestock.
- 91229 PHILIP, C. B., and others. Susceptibility of certain domestic animals to experimental infection with *Rickettsia prowazekii*. *Amer. J. Trop. Med. Hyg.* 16(6):758-761. Ref. Nov. 1967. 448.8 Am326  
L. E. Hughes, D. B. Lackman, and E. J. Bell, joint authors.  
Asses, goats and calves.
- 91230 PHILIPPINES. DEPT. OF AGRICULTURE AND NATURAL RESOURCES. AGRICULTURAL INFORMATION DIV. Hagod, a deadly animal disease. Philippines. Dep. Agr. Natur. Resour. Agr. Inform. Div. Leaflet. 199, 4 p. 1966. 25 P539L  
Hemorrhagic septicemia.
- 91231 PILET, C., MALLICK, B. B., and LE GARREC, Y. Immunization against brucellosis of the new-born offspring from a healthy mother but non immunized. (Fr) *Acad. Vet. France. Bull.* 40(6):287-290. June 1967. 41.9 R24
- 91232 PLEVA, J. Veterinary services and the supply of agricultural products. (Cz) *Veterinarstvi* 17(12):532-535. 1967. 41.8 V6439  
Inspection.
- 91233 PODDUBSKY, I. V. Achievements and prospects of science and practice in tuberculosis eradication. (Rus) *Veterinariya* 10:38-40. Oct. 1967. 41.8 V6426
- 91234 POLNILKOV, D. G. Clostridium septicum and Cl. oedematis detection by fluorescent antibody method. (Rus) *Veterinariya* 8:50-51. Aug. 1967. 41.8 V6426
- 91235 POPOVICI, M., and others. A study of two serological types of *Salmonella* recently isolated from humans in this country and their relationship with the animal reservoir. (Fr) *Arch. Roumaines Pathol. Exp. Microbiol.* 26(1):9-16. Mar. 1967. 448.3 Ar22  
L. Szegli, T. Dogaru, S. Lucinesco, L. Soare, V. Raicev, and C. Popesco, joint authors.  
English summary.  
*Salmonella* Rakemba and S. infantis.
- 91236 PRINGLE, C. R. Recombination between conditional lethal mutants within a strain of foot-and-mouth disease virus. *J. Gen. Virol.* 2, pt. 1: 199-202. Jan. 1968. QR360.A1J6
- 91237 RAKHMANOV, A. Y., and ZHUMABEKOV, KH. S. On diagnosis of salt poisoning in animals. (Rus) *Veterinariya* 8:83-84. Aug. 1967. 41.8 V6426
- 91238 RASULOV, SH. T., and others. Diagnostic value of the method of brucellosis challenge by brucellizate. (Rus) *Veterinariya* 8:58-59. Aug. 1967. 41.8 V6426  
A. B. Li, N. G. Myslikova, and E. M. Karimov, joint authors.
- 91239 REGO, A. A. On some parasitic helminths of *Rattus norvegicus* Berk. in Portugal. (Por) *Lisbon. Escol. Super. Med. Vet. An.* 8:151, 153-161. 1966, pub. 1967. 41.9 L682  
English summary.  
Includes species important in livestock.
- 91240 REID, J. The control of entry of animal diseases into the United Kingdom. *Advance. Sci.* 24(121):336-342. Mar. 1968. 501 B77A
- 91241 RESPALDIZA CARDENOSA, E. Economic evaluation of livestock parasitoses in Spain. (Sp) *Veterinaria [Madrid]* 32(4):225-247. (Concl.) Ref. Apr. 1967. 41.8 V6429  
Includes pests.
- 91242 RICHARD, J. L., RITCHIE, A. E., and PIER, A. C. Electron microscopic anatomy of motile-phase and germinating cells of *Dermaphila congolensis*. *J. Gen. Microbiol.* 49(1): 23-29. Ref. Oct. 1967. 448.3 J823
- 91243 RIEK, R. F. The economic importance of parasites and the significance of industry in their control. *Australian J. Sci.* 29(9):314-318. Mar. 1967. 475 Au72  
Internal and external parasites of livestock.
- 91244 ROBLINS, K. G. Veterinary aspects of civil defense. (Du) *Tijdschr. Diergeneesk.* 93(10): 615-622. May 15, 1968. 41.8 T431  
English summary.



- 91245 ROBINSON, V. B. Veterinary practitioner—pathologist teamwork. *Pract. Vet.* 5:140-141. Sept./Oct.1967. 41.8 AL5
- 91246 ROJAHN, J. Testmedia for differential diagnosis of rumen bacteria. (Ge) *Zentralbl. Bakteriolog. Parasitenk. Infektionskr. Hyg. Abt. II, Naturwiss.* 121(5):515-519. Aug.8,1967. 448.3 C33  
English summary.
- 91247 ROZIER, J., and ROSET, R. Muscle mechanisms of slaughtered animals. (Fr) *Rec. Med. Vet.* 143(6):573-582. Ref. June 1967. 41.8 R24  
English summary.  
Includes study of meat aging.
- 91248 SCHANG, P. J. The sanitary rifle. (Sp) *Gac. Vet.* 29(200):97-99. Mar.1967. 41.8 G112  
Control of foot-and-mouth disease in Argentina.
- 91249 SCHILF, E. A. The Cooperative State-Federal Brucellosis Eradication Program, a progress report. *Nat. Brucell. Comm. Proc.* 1966:20-31, map. aSF809.B8N3
- 91250 SCHLIESSER, T. The epidemiological situation of livestock tuberculosis after eradication of bovine tuberculosis. (Ge) *Zentralbl. Bakteriolog. Parasitenk. Infektionskr. Hyg. Abt. I, Orig.* 205(1/3):300-308. Ref. Dec.1967. 448.3 C33
- 91251 SCHOBESCH, O., CONTIU, I., and BARBURA, T. A study of the therapeutic effectiveness of 5,7-dichlor-6-oxyquinoline in veterinary medicine. (Rum) *Inst. Agron. Dr. Petru Groza. Lucrari Stiint. Ser. Med. Vet. Zootehnie* 21:181-193. Ref. 1965, pub.1966. SF604.15  
English summary.
- 91252 SEDI, M. H., and YAQUB, M. Vitamin B<sub>12</sub> in the various animal livers. *Pakistan J. Sci. Indus. Res.* 9(4):397. Oct.1966. 475 P174
- 91253 SENADHIRA, M. A. P. The parasites of Ceylon. II. Trematoda; a host check list. *Ceylon Vet. J.* 15(2):33-41. Ref. June 1967. 41.8 C33  
Includes domestic animals.
- 91254 SENADHIRA, M. A. P. The parasites of Ceylon. III. Cestoda; a host check list. *Ceylon Vet. J.* 15(2):42-57. Ref. June 1967. 41.8 C33  
Includes domestic animals.
- 91255 SENADHIRA, M. A. P. The parasites of Ceylon. IV. Nematoda, a host check list. *Ceylon Vet. J.* 15(3):88-99. Ref. Sept.1967. 41.8 C33  
Includes domestic animal hosts.
- 91256 SENEGAL, NATIONAL LABORATORY OF ANIMAL HUSBANDRY AND VETERINARY RESEARCH, (DAKAR-HANN). Working report for the year 1965. *Bull. Epizoot. Dis. Afr.* 15(2):155-157. June 1967. 41.8 B872
- 91257 SEREJO, J. DE G. The Library and Veterinary Services of Mozambique. (Por) *Mozambique. Serv. Vet. An.* 10:439-445. 1962, pub. 1966. 41.9 M872
- 91258 SEROV, V. M. Poisonous plants on pastures of Kirghizia. (Rus) *Veterinariya* 8:80-81. Aug. 1967. 41.8 V6426
- 91259 SERRANO TOME, V. Veterinary medicine and its masters. XXII. Bourgelat versus Lafosse. (Sp) *Veterinaria [Madrid]* 32(4):255-259. (Cont.) Apr.1967. 41.8 V6429
- 91260 SERRANO TOME, V. Veterinary medicine and its masters. XXV. An adventurer with luck, General Giuseppe Mirri. (Sp) *Veterinaria [Madrid]* 32(11):683-684. Nov.1967. 41.8 V6429
- 91261 SHATROV, A. P., and KIRPICHEV, A. F. Animal leptospirosis in some regions of Kazakhstan. (Rus) *Veterinariya* 8:60-61. Aug.1967. 41.8 V6426
- 91262 SHIROKOV, I. M. Achievements of veterinary service in the Kirghiz SSR. (Rus) *Veterinariya* 8:9-12. Aug.1967. 41.8 V6426
- 91263 SIEBEL, H. Veterinary medicine in the USA. *Blue Book Vet. Prof.* 13:1-8. 1967. 41.9 B61Ae
- 91264 SIEGERT, R. Toxicity and pyrogenicity of animal viruses. (Ge) *Zentralbl. Bakteriolog. Parasitenk. Infektionskr. Hyg. Abt. I, Orig.* 205(1/3):110-121. Ref. Dec.1967. 448.3 C33
- 91265 SILVA, J. M. DA. Trypanosomiasis; occupation [of disease-free areas] and livestock development. (Por) *Mozambique. Serv. Vet. An.* 10:183-187. 1962, pub.1966. 41.9 M872  
Glossina morsitans and G. pallidipes as vectors in Mozambique.
- 91267 SOMMAIN, G. DE. Italian participation in the International Veterinary Congresses. (It) *Nuovo Progr. Vet.* 22(1):14,16-18,20. (Cont.) Jan.15,1967. 41.8 P942  
This section on the second congress, held in Vienna in 1865.
- 91266 SMITH, J. V., and others. Proposals by the U.S. Livestock Sanitary Association on Brucellosis Eradication. *Nat. Brucell. Comm. Proc.* 1967:48-50. aSF809.B8N3  
J. R. Bishop, G. B. Estes, W. D. Know, A. E. Janawicz, C. A. Manthei, S. H. McNutt, E. A. Schilf, A. O. Wilson, C. E. Burch, J. B. Finley, D. E. Flagg, R. Larramore, R. J. McClenaghan, J. O. Pearce, W. C. Tobin, and H. G. Wixom, joint authors.  
Cattle, swine and bison.
- 91268 SPRAVOCHNIK vetfel'dshera-olenevoda [A manual for reindeer veterinary technician]. Krasnoyarsk, Krasnoyarskoe Knizhnoe Izdatel'stvo, 1966. 261 p. SF997.5.R35S6
- 91269 STEELE, J. H., and others. Human brucellosis in the United States. *Nat. Brucell. Comm. Proc.* 1967:34-42, map. aSF809.B8N3  
S. L. Hendricks, R. N. Barr, E. R. Price, S. P. Leinback, and E. F. Baker, joint authors.
- 91270 STEELE, J. H. Human brucellosis in the United States, 1965. *Nat. Brucell. Comm. Proc.* 1966:8-17, map. aSF809.B8N3
- 91271 STEIN, P. Animal experiments concerning the effectivity of *Staphylococcus vaccines*. (Ge) *Zentralbl. Bakteriolog. Parasitenk. Infektionskr. Hyg. Abt. I, Orig.* 205(1/3):319-328. Ref. Dec. 1967. 448.3 C33
- 91272 SUBBOTIN, V. YA. Veterinary science of Kazakhstan for the 50th anniversary of the October revolution. (Rus) *Veterinariya* 8:2-5. Aug. 1967. 41.8 V6426
- 91273 TACA, V., and ARAMBULO, P. V. Zoonoses control and other veterinary public health activities in the city of Manila. *Ceylon Vet. J.* 15(3):73-77. Sept.1967. 41.8 C33
- 91274 TIESLER, E., HEICKE, B., and DIENER, H. U. Comparison of growth promoting effect of sera of different species on cell functions and their DNase activities. (Ge) *Exp. Cell Res.* 48(3):529-539. Ref. Dec.1967. 442.8 Ex7  
English summary.  
Chicken, turkey, swine sera.
- 91275 TIKHONOV, P. T. Bile separating and secretory functions of liver and motor function of vitelline sac of ruminants. (Rus) *Bashkir. Sel'skokhoz. Inst. Tr.* 12(4):153-159. 1966. 20 B29
- 91276 TORRENT MOLLEVI, M. Bovine pathology in Urgellet. (Sp) *Lerida Pecuar. (ser.4)* 10:5-6,8, 10-15,17-21,23. Dec.1966. 41.8 L56
- 91277 TSIMOKH, P. F., SERDYUK, N. G., and SOLOV'YAN, N. A. Study of vectors of psittacellosis in fowl. (Rus) *Veterinariya [Kiev]* 12:81-83. 1967. SF604.V44
- 91278 TSUMURA, I. Histopathological study of abnormal corpus luteum: production of abnormal corpora lutea in sheep, goats and cows by administration of gonadotropic hormones. *Tottori Univ. Fac. Agr. J.* 5(1):55-65. Ref. Mar.1967. 107.6 T643
- 91279 TURK, K. L. Animal husbandry education and its relation to veterinary training. *World Rev. Anim. Prod.* 3(12):11-16. Apr./June 1967. 49 W89
- 91280 TUSZKIEWICZ, M. Brucella endotoxins. Biochemical investigations. *Acad. Polon. Sci. Bull. Ser. Sci. Biol.* 15(11):659-663. 1967. 512 W262  
Brucella abortus, Brucella melitensis, Brucella suis.
- 91281 U. S. AGRICULTURAL RESEARCH SERV. ANIMAL HEALTH DIV. Anthrax in livestock; how to fight it. U. S. D. A. PA-431,8 p. 1968. 1 Ag84Pro

- 91282 VALADAO, F. G. Some aspects of the problem of game in relation to domestic animal health. (Por) Mozambique. Serv. Vet. An. 10:209-211. 1962, pub. 1966. 41.9 M872
- 91283 VALADAO, F. G. Some notes on the role of virus diseases in relation to production and marketing of meat on Mozambique. (Por) Mozambique. Serv. Vet. An. 10:157-163. 1962, pub. 1966. 41.9 M872  
Especially foot-and-mouth disease in cattle and African swine fever.
- 91284 VANG, J. O. Metabolic studies in the anhepatic dog and in the isolated perfused calf and pig liver. Lund. Univ. Acta Univ. Lundensis Sect. II Med. Math. Sci. Rerum Natur. 26:1-22. 1967. 502 L97A
- 91285 VARTIC, N., and MICLEA, M. Study of anti-leptospirotic antibodies in livestock slaughtered under normal conditions in slaughterhouses. (Rum) Inst. Agron. Dr. Petru Groza. Lucrari Stiint. Ser. Med. Vet. Zootehnie 21:165-168. Ref. 1965, pub. 1966. SF604.15  
English summary.
- 91286 VASILLEVA, E. F., MOKROUSOVA, A. V., and TITLOVA, Z. J. The use of fluorescent antibodies for rabies diagnosis. (Rus) Veterinariya 8:45-46. Aug. 1967. 41.8 V6426
- 91287 THE VETERINARIAN as a productive force. (Ge) Berlin. Humboldt-Univ. Wiss. Z. Math. Naturwiss. Reihe 15(6):891-905. 1966. 509 B453  
Panel discussion; Moderator: Heider; members: Adam, Butozan, Guschtschin, Iwanow, Kalapow, Popow, Richter, Rosswow, Schulze, Strumpf, Svoboda, Tschenschew, Varanagy, Aa, Drazan, Watler, Paul, Altenkirch, Bar-nitzki, and Grossmann.
- 91288 VISEK, W. J., and others. Some immunologic properties of jackbean urease and its antibody. Arch Biochem. Biophys. 122(1):95-104. Ref. Oct. 1967. 381 Ar2  
M. E. Iwert, N. S. Nelson, and J. H. Rust, joint authors.  
Studied in horses.
- 91289 VOLCKART, W. Grundlagen und methoden der zuchtung von viren in Vogelembryonen [Principles and methods for virus cultivation in bird embryos]. Munich. Univ. Tierarztl. Fak. [Inaug.-Diss.] 43,123 p. 1966. 41.2 M9222  
Bibliography, p.107-122.  
Chick embryos.
- 91290 WARD, R. E. Beware of moldy feedstuffs. Agway Coop. 4(2):10-11. Mar. 1968. 280.28 Ag9
- 91291 WEBER, L. J. Student attrition at colleges of veterinary medicine. Amer. Vet. Med. Ass. J. 150(9):1012-1016. May 1, 1967. 41.8 Am3
- 91292 WILD, T. F., and BROWN, F. Nature of the inactivating action of trypsin on foot-and-mouth disease virus. J. Gen. Virol. 1(2):247-250. Apr. 1967. QR360.A1J6
- 91293 WOHL, W. Relations between measles, distemper and rinderpest virus. (Ge) (Condensed.) Blauen Hefte Tierarzt 35:18-24. Oct. 1967. 41.9 B61
- 91294 WYOMING. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Veterinary science. Wyo. Univ. Ext. [4-H Club Circ.] V-5a-67, 7 p. Feb. 1967. 275.29 W99Fc
- 91295 ZAHN, D., and LILOV, L. Effects of cations on the dehydrogenase activity of *Proteus vulgaris* OX 19. I-III. (Ge) Zentralbl. Bakteriologie. Parasitenk. Infektionskr. Hyg. Abt. II, Naturwiss. 121(5):465-478. Ref. Aug. 8, 1967. 448.3 C33  
English summary.
- 91296 ZARZUELO, E. Today's diseases: Q fever. (Sp) Veterinaria [Madrid] 32(11):663-681. Ref. Nov. 1967. 41.8 V6429
- MISCELLANEOUS**
- 91297 ABREU, E. F. DE. Africa, potential reservoir of proteins. (Por) Mozambique. Serv. Vet. An. 10:21-23. 1962, pub. 1966. 41.9 M872  
Its livestock as meat animals.
- 91298 AGLADZE, D. G. The animal kingdom in "The man in the tiger's skin" by Shota Rustaveli. (Geo) Gruz. Sel'skokhoz. Inst. Tr. 70:3-40. 1966. 106 T44  
English summary.  
Includes domestic animals.
- 91299 BUCKLER, P. The royal show. Vet. Annu. 8:4-10. 1966/67. 41.8 V6456  
Future of the Royal Agricultural Society of England.
- 91300 COZZI, P. Research on the physical and chemical properties of wool and fleece production of animals raised in tropical and subtropical environment. (It) Riv. Agr. Subtrop. Trop. 61(1/3):3-10. Jan./Mar. 1967. 26 Ag82  
Chiefly alpacas in Latin America.
- 91301 CRUZ E SILVA, J. A. Investigation on parasitology and economic development of the Portuguese Territories. (Por) Lisbon. Escol. Super. Med. Vet. An. 8:113,115,117,119-139. 1966, pub. 1967. 41.9 L682  
English summary.  
Includes livestock development.
- 91302 DAMINOVA, L. F. Survival of *Brucella* in soil, water, and animal houses. (Rus) Veterinariya 8:103-105. Aug. 1967. 41.8 V6426
- 91303 DANILENKO, J. The scientists of the Institute of Animal Husbandry [Vsesoyuznyi Nauchno-Issledovatel'skii Institut Zhivotnovodstva] on the 50th anniversary of the October Revolution. (Ge) Tierzucht 21(11):547-549. Nov. 1967. 49 T443
- 91304 DIAS, A. H. G. DE S. Subsidies for undertaking the raising of wild animals. (Por) Mozambique. Serv. Vet. An. 10:231-239. Ref. 1962, pub. 1966. 41.9 M872  
As meat producers in Mozambique.
- 91305 DIAS, J. A. T. S. The importance of wild ungulates as meat producers in the Province. (Por) Mozambique. Serv. Vet. An. 10:221-230. 1962, pub. 1966. 41.9 M872
- 91306 DRYGIN, A. S. Increasing livestock industry. (Rus) Zhivotnovodstvo 6:1-7. June 1967. 49 Z6  
Policies.
- 91307 GOLLBECK, E. With a livestock shipment to India. (Ge) Blauen Hefte Tierarzt 35:28-30. Oct. 1967. 41.9 B61  
Care of animals during the trip.
- 91308 GONCHIG, D. Progress in zootechnical science in the Mongolian People's Republic. Sci. World 11(3):18-20. 1967. 472 Sci25
- 91309 HAFEZ, E. S. E. Bioclimatological aspects of animals' productivity. World Rev. Anim. Prod. 3(14):22-37. Ref. July/Sept. 1967. 49 W89
- 91310 IOROV, I., and ZHELYAZKOV, S. Use of draft horses for transportation work in agriculture. (Bu) Zhivotnovodstvo 21(4):22-27. Ref. Apr. 1967. 49 Z62
- 91311 KELOV, D. N., GLUSHCHENKO, V. I. The effect of environment on animals in Turkmenistan. (Rus) Veterinariya 8:99-101. Aug. 1967. 41.8 V6426
- 91312 KING, J. W. B. The effective use of performance testing. Great Brit. Agr. Res. Council. Anim. Breeding Res. Organ. Rep. Jan. 1968:7-10. 49.9 G7926
- 91313 KLEIN-REBOUR, F. Short history of butchering. (Fr) Bull. Inform. Boucherie-Charcuterie Norm. 17(150):42-43. (Cont.) Oct. 1967. 50.8 B87
- 91314 KOCI, I., STOKLASEK, B., and ZELINKA, K. Standardization of equipment of slaughterhouses and slaughtering operations. (Cz) Zpravod. Masneho Prum., Jan. 1967:16-20. TS1950.Z6  
English summary.
- 91315 KOLMODIN, P. I. Barn microclimate—animal health. (Sw) Hallands Lans Hushallningssallsk. Tidskr. 2:14-16. Mar. 1967. 11 H152  
Deals with heating, ventilation and insulation animal sheds.
- 91316 KRATOCHVIL, J. The scientific names of domestic animals. (Cz) Brno. Vysoka Sk. Zemedel. Sb. Rada A, Spisy Fak. Agron. 3:417-429. Ref. 1966. 105.92 B833  
French and German summaries.



- 91317 MCLAUCHLAN, G. Production may not match targets. New Zeal. J. Agr. 114(4):55. Apr. 1967. 23 N48J  
Livestock.
- 91318 MOORE, E. N. Livestock shows and milk yield competitions - winners will show the way to breed improvement. Indian Farming 17(10):62-64. Jan. 1968. 22 In283
- 91319 NAKLADAK, J. Fifteen years of activity of the Livestock Research Institute [Vyzkumny Ustav pro Chov Skotu] at Rapotin near Sumperak. (Cz) Prague. Vyzk. Ustav Zemed. Vestn. 13(12):569-571. 1966. 19.5 C333
- 91320 OKLAHOMA. AGRICULTURAL EXPERIMENT STATION. Animal science research with sheep, swine and beef cattle; a progress report, 1967-68. Okla. Agr. Exp. Sta. Misc. Publ. 80, 113 p. Apr. 1968. 100 Ok4  
Oklahoma State University of Agriculture and Applied Science, and U. S. Department of Agriculture, cooperating.
- 91321 PATTERSON, J. T. Hygiene in meat processing plants. I. Importance of bacteria in meat processing plants. Northern Ireland Rec. Agr. Res. 16(1):13-18. Ref. Aug. 1967. 10 N81R
- 91322 ROMAO, J. M. Possibilities for livestock farms to develop meat animals. (Por) Mozambique. Serv. Vet. An. 10:277-286. 1962, pub. 1966. 41.9 M872  
Chiefly cattle, in Mozambique.
- 91323 ROSTOWZEW, N. The advancement of Soviet animal husbandry during the past 50 years. (Ge) Tierzucht 21(11):539-542. Nov. 1967. 49 T443
- 91324 SAUER, E. G. F. Interspecific animal behavior and the problem of behavior. (Ge) S. West Afr. Sci. Soc. J. 20:5-17, 137-140. 1965/66. 515 So85  
English summary.
- 91325 SOUTHWOOD, T. R. E., and WALOFF, N. The experimental approach to animal ecology. Brit. Ecol. Soc. Symp. 7:147-159. Ref. 1966. 451 B775
- 91326 STOCKHOLM SLAKTHUS- OCH SALUHALLS- STYRELSEN. Berattelse [Report of Stockholm Slaughter and Market-Hall Board], 1966. Stockholm, 1967. 19 p. 50.9 St6
- 91327 SWART, J. C. Education, research and extension in relation to animal production. S. Afr. Soc. Anim. Prod. Proc. 5:4-6. 1966. 49.9 So822
- 91328 TOSCANO, J. Possibilities for improvement and coordination of livestock activities in the region of Angonia. (Por) Mozambique. Serv. Vet. An. 10:361-366. 1962, pub. 1966. 41.9 M872
- 91329 WOZNIAK, Z. The problem of draft power at the Rajkowo Agricultural Experimental Station. (Pol) Stettin. Wyzsza Szkoła Roln. Zeszyty Nauk. 25:291-295. 1966, pub. 1967. 20.5 St4  
English summary.  
Animal and mechanical.
- CATTLE**
- Breeds and Breeding
- 91330 AKIMOV, G., and KLAUVINS, J. Prospective plan of breeding work with the herd of the cattle breeding farm "Berzaine." (La) Riga. Latv. Nauch.-Issled. Inst. Zhivotnovod. Vet. Sb. Tr. 19(3):3-9. 1966. 41.9 R43  
English summary.
- 91331 ALIM, K. A. The development of cattle breeding and milk production in Egypt. World Rev. Anim. Prod. 3(12):27-34. Apr./June 1967. 49 W89  
Includes buffaloes.
- 91332 AMARAL, G. Y. DO. Possibilities of artificial insemination for the increase of meat production in the northern region of Mozambique Province. (Por) Mozambique. Serv. Vet. An. 10:261-262. 1962, pub. 1966. 41.9 M872  
Cattle.
- 91333 AMARAL-PAIVA, J. DO. Artificial insemination on cattle farms of extensive system. (Por) Mozambique. Serv. Vet. An. 10:255-260. 1962, pub. 1966. 41.9 M872
- 91334 ANTIC, S., and LJUJIC, A. Current organization and economic problems in the artificial insemination of cattle. (Se) Vet. Glas. 22(4):283-289. 1968. 41.8 J93  
English summary.
- 91335 ANTIC, S. Economic aspects of the artificial insemination and of the control of sterility in cattle. (Se) Vet. Glas. 22(4):261-266. Apr. 1968. 41.8 J93  
English summary.
- 91336 ANTIC, S., BORJANOVIC, S., and TRBOJEVIC, G. Economic problems of high prices of the artificial insemination of cattle in Serbia. (Se) Vet. Glas. 22(4):355-361. 1968. 41.8 J93  
English summary.
- 91337 AUSTRALIAN ILLAWARRA SHORTHORN SOCIETY. The Australian Illawarra Shorthorn herd book, 1967. Vol. XXIII. Sydney, 1967. 417 p. 43.9 Au73
- 91338 BACVANSKI, S., and others. Study of the crossing of native Red Pied with Hereford cattle breed for the production of higher quality of beef. (Se) Novi Sad. Poljopr. Fak. Letop. Naucnih Rad. 10:137-146. 1966. 106.6 N85  
L. Koncar, S. Vucetic, and T. Cobic, joint authors.  
English summary.
- 91339 BAKER, A. A. The pattern of oestrous behaviour in Sahiwal-Shorthorn heifer in south eastern Queensland. Australian Vet. J. 43(4):140-144. Ref. Apr. 1967. 41.8 Au72
- 91340 BASTIDE, A., and others. Fattening of beef cattle and the meat production. (Fr) Potasse 41(350):220-224. Dec. 1967. 57.8 P84  
P. Bourqui, J. Bellanger, M. Dechelette, and J. Forget, joint authors.
- 91341 BASTIDE, A., and others. The production of young beef cattle destined for fattening regions. (Fr) Potasse 41(350):233-235. Dec. 1967. 57.8 P84  
P. Authier, J. Clauzet, and P. Roch, joint authors.  
Beef cattle cooperatives.
- 91342 BAWA, M. S., GEHLON, M. S., and SHARMA, R. D. Correlation (R) between milk yield (X) and post-partum oestrus (Y) in Haryana cows in different lactations. Punjab Agr. Univ. J. Res. 4(2):266-272. Ref. June 1967. S19.P8
- 91343 BERKE, P., and BEDO, S. A kulonbozo teljes lefolyozott tejadagok itatásának hatása a Magyartarka borjak novekedesére. Effect of different whole and skim milk rations on the growth of Hungarian Red Spotted calves. Keszthely. Agrartud. Foiskola. Kiadv. 9(10), 59 p. Ref. 1967. 19 K48  
English summary.
- 91344 BHALLA, R. C., SENGAR, D. P. S., and SONI, B. K. Study on the birth weight of Murrah buffalo and Sahiwal calves and factors affecting them. Indian J. Dairy Sci. 20(3):139-141. Sept. 1967. 44.8 In28
- 91345 BHOSREKAR, M. R., DANIEL, S. J., and MULLICK, D. N. A study on the rectal temperature, pulse rate, respiration rate and haemoglobin levels of calves of Tharparkar, Sahiwal and Red Sindhi breeds from birth to eighteen months of age. Indian J. Dairy Sci. 19(4):202-206. Dec. 1966. 44.8 In28
- 91346 BODISCO, V., and CARNEVALI, A. Estimation of the total yields per lactation on the basis of partial yields in Criollo dairy heifers. (Sp) Agron. Trop. [Maracay] 16(4):291-294. Ref. Oct./Dec. 1966. 26 Ag87  
English summary.
- 91347 BORA, L. C. Sterility in cows: causes and remedy. Gosamvardhana 15(11):9-11. Feb. 1968. 43.8 G69
- 91348 BOSMAN, D. J., and HARWIN, G. O. Genetic and environmental factors affecting pre-weaning traits in beef cattle under extensive ranching conditions. S. Afr. Soc. Anim. Prod. Proc. 5:153-159. Ref. 1966. 49.9 So822  
A linear model analysis.

- 91349 BOYAZOGLU, J. G., and others. Preliminary notes on some production characteristics of elite Friesland cows in South Africa. *S. Afr. Soc. Anim. Prod. Proc.* 5:186-202, map. Ref. 1966. 49.9 So822  
H. J. Steenberg, J. H. Hofmeyr, and G. P. Kuhn, joint authors.  
Includes records.
- 91350 BRATANOV, K. Current problems of the re-production of cattle and sheep. (Se) *Vet. Glas.* 22(4):267-273. 1968. 41.8 J93  
English summary.
- 91351 BROWN, C. J., and LUEKER, C. Performance of bulls on Arkansas cooperative beef bull performance test 6. *Ark. Agr. Exp. Sta. Rep. Ser.* 171, 16 p.-folder. June 1968. 100 Ar42R  
Selection for breeding.
- 91352 BUETTNER, W. Cattle insemination and cartel legislation forbidding discrimination. (Ge) *Tierzuchter* 20(5):216-218. Apr. 1968. 49 T445  
In Germany.
- 91353 CAIRNEY, I. M. What can you gain from beef cattle recording? Ruakura Farmers Conf. *Week Proc.* 1967:35-45. Apr. 9, 1968. 49.9 R82  
Cattle breeding in New Zealand.
- 91354 CAPRILES, M. E., and others. Feeding dairy cows: total ration and milk production in Holstein cows. (Sp) *Agron. Trop. [Maracay]* 16(3): 191-198. July-Sept. 1966. 26 Ag87  
M. H. Butterworth, E. Gonzalez J., and O. Verde, joint authors.  
English summary.  
Concentrates, in Venezuela.
- 91355 CARNEIRO, J. J. Artificial insemination and milk production. (Por) *Inst. Laticinios Candido Tostes. Rev.* 23(136):15. Jan./Feb. 1968. 44.8 F33
- 91356 CASON, J. L., and FAIRCHILD, T. P. Selecting dairy sires. *Md. Univ. Ext. Fact Sheet* 147, 4 p. Mar. 1968. 275.29 M36Fa
- 91357 CIAFFI, B. Outlook for animal husbandry in the Marche, Italy. (It) *Inform. Zootec.* 14(22): 708. Nov. 30, 1967. 49 In3  
Emphasis on Marche breed of cattle.
- 91358 COMBERG, G. New investigations on the mineral content of bovine milk. (Ge) *Deut. Tierarztl. Wochenschr.* 74(23):613-616. Dec. 1, 1967. 41.8 D482  
English summary.  
Especially importance of breeding.
- 91359 COP, W. A. G. Feeding of young AI-bulls in Netherlands. (Du) *Veeteelt Zuivelber.* 10(7): 302-318. July 1967. 49 V51
- 91360 CZAKO, J., and KECSKES, S. Valuation of lines in cattle breeding. (Ge) *Arch. Tierzucht* 10(6): 435-443. Ref. 1967. 49 Ar23  
English summary.  
Hungarian Red Spotted
- 91361 DIFFIDENTI, G. A. Reintroduction of the Mar-emma breed. (It) *Inform. Zootec.* 14(14):9. June 1967. 49 In3  
For veal production.
- 91362 DZURAEV, KH. Application of biostimulants in the case of cow sterility. (Rus) *Veterinariya* 8:95. Aug. 1967. 41.8 V6426
- 91363 ECKHARDT, T. Jersey cross-breeding in Hungary. (Ge) *Tierzucht* 21(11):570-571. Nov. 1967. 49 T443
- 91364 ELSTRAND, E. Which time is the most suitable for calving? (No) *Buskap Avdratt* 4:241-243, 254. 1967. 49 B96  
Norway.
- 91365 FELDHOFFER, S. Perspectives for the development of cattle breeding and artificial insemination in Djakovo area. (Se) *Stocarstvo* 22 (1/2):19-28. Jan./Feb. 1968. 43.8 St6
- 91366 FILSETH, O. Deepfreezing of bull semen to start in Iceland? (No) *Buskap Avdratt* 2:109. 1967. 49 B96
- 91367 GAHNE, B. Transferrin variation in Swedish cattle: segregation and influence on fertility. *Acta Agr. Scand.* 17(4):185-194. Ref. 1967. 11 Ac82  
Swedish Red-and-White breed.
- 91368 GAMCIK, P. The diagnosis of disturbances in the fertility of bulls for insemination. (Se) *Vet. Glas.* 22(4):321-326. 1968. 41.8 J93  
English summary.
- 91369 GRABISCH, W. A first trial of Yellow cattle on a farm in Argentina. (Ge) *Tierzuchter* 20(1):18-19. Jan. 5, 1968. 49 T445
- 91370 GRAVIR, K. Studies on different body measurements as estimators of live and carcass weight in young NRF [Norwegian Red-and-White] bulls. *Acta Agr. Scand.* 17(4):217-227. Ref. 1967. 11 Ac82
- 91371 GREKKE, E. N. Effectiveness of artificial cow insemination, as related to the date of calving. (Rus) *Zhivotnovodstvo* 6:75-76. June 1967. 49 Z6
- 91372 GRESELIN, A. More in connection with artificial insemination. (It) *Nuovo Progr. Vet.* 22 (1):8, 11. Jan. 15, 1967. 41.8 P942  
Cattle in Italy.
- 91373 GULRAJANI, T. S., and MISRA, R. P. Variations in blood constituents of buffalo bulls following hyperimmunization with bacterial antigens & bleedings. *Indian J. Exp. Biol.* 5(4):224-225. Oct. 1967. 44.8 In2
- 91374 HADI, M. A. Cattle development—prospects and programmes in Vidarbha region. *Gosamvardhana* 15(11):3-8. Feb. 1968. 43.8 G69
- 91375 HANZALOVA, D. Innervation of accessory genital glands in bulls. III. Innervation of the prostate. *Folia Vet.* 10(1):51-62. Ref. 1966. 41.8 F712
- 91376 HARWIN, G. O. Application of performance testing in beef cattle. *S. Afr. Soc. Anim. Prod. Proc.* 5:36-49. Ref. 1966. 49.9 So822  
Reproductive performance in the Republic of South Africa.
- 91377 HILDEMAN, S. E. Cattle breeding in the U. S. A. and Canada. (Sw) *Svensk Husdjurs-sktsel Ladugard.* 12:473-476. Dec. 1967. 44.8 L12  
Holstein-Friesian Association of America.
- 91378 HOLL, C. Investigation of the progeny test factors of bulls of the Slovak Spotted breed. (Cz) *Pol'nohospodarstvo* 14(2):122-130. Ref. 1968. 19.5 P752  
English summary.
- 91379 HORN, A. Possibilities of improving efficiency and evaluation of economic production in dual purpose cattle with special reference to the Hungarian Fleckvieh. *World Rev. Anim. Prod.* 3(12):35-45. Ref. Apr./June 1967. 49 W89
- 91380 HORN, A. Possibilities of improving efficiency and evaluation of the economic production in cattle raised for milk and meat, with special reference to the Hungarian Red Spotted cattle breed. (Se) *Savremena Poljoprivreda* 15(4): 301-316. Ref. Apr. 1967. 21 P75
- 91381 HRUDKA, F., and IVAN, J. Tolerance of bull ejaculates to hypotonic solution (0.10 M NaCl) reflected in the activity of endogenous dehydrogenases of spermatozoa. (Cz) *Folia Vet.* 10(1):43-50. 1966. 41.8 F712
- 91382 HULTNAS, C. A. Fertility—the situation of deep freezing - attempt to synchronize estrus. (Sw) *Svensk Husdjurs-sktsel* 6:243-245. June 1967. 44.8 L12  
Cattle
- 91383 ISAKSON, B., and HULTNAS, C. A. Critical viewpoints on the service of Svensk Husdjurs-sktsel [Swedish Society of Animal Husbandry]. (Sw) *Svensk Husdjurs-sktsel Ladugard.* 12:485-487. Dec. 1967. 44.8 L12  
Artificial insemination, cattle inspection.
- 91384 JACQUET, J., and STEEG, M. L. Preliminary note on the preservation of bacteria in liquid nitrogen. (Fr) *Acad. Vet. France. Bull.* 40 (6):275-280. June 1967. 41.9 R24  
Includes utilization in cattle semen storage.
- 91385 JAEHNE, M., and SCHWARK, H. J. Studies on the effect of non-hereditary and hereditary factors on the protein content of milk and investigation of the correlations between constituents and quantitative yield. (Ge) *Arch. Tierzucht* 10(6):465-485. Ref. 1967. 49 Ar23  
English summary.
- 91386 JENSEN, B., and HINKS, C. J. M. The structure of cattle breeding in England. (Da) *Landbonyt* 22(2):68-71. Feb. 1968. 11 L2322



- 91387 JERSEY CATTLE SOCIETY OF THE UNITED KINGDOM. Elite register; certificate of merit for milk and butterfat production. Vol. 2, 1966. London, 1966. 235 p. SF191.J4
- 91388 JOHNSON, K. G., and WEBSTER, M. E. Extremity skin temperature in British and Zebu cross cattle. *J. Agr. Sci. [London]* 69(1):1-7. Ref. Aug. 1967. 10 J822  
British crosses are Shorthorn and Hereford.
- 91389 JOURNET, M. Factors influencing milk composition. (Fr) *Potasse* 42(353):55-60. Mar. 1968. 57.8 P84  
Effects of breeding and feeding.
- 91390 KEESTRA, J. J. Importance of the cattle breeding associations. (Du) *Neth. Prov. Dir. Rijkslandbouwvoorlichting Friesland. Voorlichting Onderz. Grasland Veehouderij* 1965: 28-30. 1966. SF15.N4A3
- 91391 KEESTRA, J. J. Meat quality of cattle. (Du) *Neth. Prov. Dir. Rijkslandbouwvoorlichting Friesland. Voorlichting Onderz. Grasland Veehouderij* 1965:32-33. 1966. SF15.N4A3  
Effects of breeding.
- 91392 KHACATURYAN, YU. S. Main reasons of cow sterility. (Rus) *Veterinariya* 8:93-94. Aug. 1967. 41.8 V6426
- 91393 KOCH, J. Blood group determination in cattle with special consideration to the parenthood control. (Ge) *Tierzuchter* 19(23):794-796. Dec. 5, 1967. 49 T445
- 91394 KOUBEK, K. Utilization of some biological laws in adjusting the feed for young bulls from cross-breeds. (Ge) *Bayer. Landwirt. Jahrbuch* 44(4):473-477. Ref. 1967. 18 L24  
Mathematical equations to measure feed-weight relationships.
- 91395 KRAITR, J. Hybridization of cattle in Czechoslovakia. (Cz) *Prague. Vyzk. Ustav Zemed. Vestn.* 13(6):293-295. 1966. 19.5 C333
- 91396 KRAVCHENKO, N. A. The Charollais cattle breed. (Rus) *Zhivotnovodstvo* 6:86-94. June 1967. 49 Z6
- 91397 KUSEL, J. Shorthorns; for half a century - the great improver. *Okla. Cowman* 8(1):8-9. Jan. 1968. 43.8 Ok42  
Crossbreeding in Oklahoma.
- 91398 LEBEDJEW, M. M. Improvements of dairy cattle in the Soviet Union. (Ge) *Tierzucht* 21(11):534-538. Nov. 1967. 49 T443
- 91399 LEIDL, W. The diagnosis of fertility troubles in bulls. (Ge) *Fortpflanzung, Besamung, Aufzucht Haustiere* 2(4):179-185. 1966. QP251.F6  
English summary.
- 91400 LEWIS, W. Economic pressures hasten the trend to Polled Herefords. *Ark. Cattle Bus.* 4(3):9,24. Mar. 1968. 43.8 A743
- 91401 LINDHE, B. The Swedish Society of Animal Husbandry department of meat production. Annual report and future project report. (Sw) *Svensk Husdjursskotsel* 6:247-249. June 1967. 44.8 L12  
*Svensk Husdjursskotsel*; importance of cattle breeding for meat.
- 91402 LJUJIC, A. Recent development and some new trends in the insemination of cattle in Yugoslavia. (Se) *Vet. Glas.* 22(4):243-254. 1968. 41.8 J92  
English summary.
- 91403 MADAN, M. L., and RAZDAN, M. N. Studies on the reproductive behaviour of dairy cattle. I. Oestrus, functional activity of ovaries and ovulation. *Indian J. Vet. Sci. Anim. Husb.* 37(2):100-106. Ref. June 1967. 41.8 In22
- 91404 MADZIROV, Z., and others. The effect of microclimate on the production of semen in bulls. (Se) *Vet. Glas.* 22(4):307-312. Ref. 1968. 41.8 J93  
N. Naumov, L. Atanasov, G. Tanev, joint authors.  
English summary.
- 91405 MARDEN, W. G. R. Problems of the breeding bull. *Cattleman* 54(6):90,92,94,96,98. Nov. 1967. 49 C29
- 91406 MARIAN, P. Differences in beta-lactoglobulin in the milk of Rumanian Spotted cattle breed. (Rum) *Inst. Agron. Dr. Petru Groza. Lucrari Stiint. Ser. Med. Vet. Zootehnie* 21: 55-59. 1965, pub. 1966. SF604.I5  
English summary.
- 91407 MARKOVIC, B., and others. A contribution to the study of fertility and sterility of cattle at a farm infected with trichomoniasis and vibriosis. (Se) *Vet. Glas.* 22(4):373-378. 1968. 41.8 J93  
M. Olujic, R. Jovanovic, and M. Ilic, joint authors.  
English summary.
- 91408 MARTINHO, J. P. Crossbreeding as method of improvement for meat production. (Por) *Mozambique. Serv. Vet. An.* 10:287-302. 1962, pub. 1966. 41.9 M872  
Chiefly a plan for cattle in Mozambique.
- 91409 MASHKOVSKAYA, L. K. Changes of fat and protein contents in milk of Bestuzhev cows. (Rus) *Vestnik Sel'skokhoz. Nauk. [Moscow]* 5: 126-128. May 1967. 20 V633
- 91410 MELDAL-JOHNSEN, C. M. T. Sterility and abortion in cows. *New Zeal. J. Agr.* 114(5): 54-55, 57. May 1967. 23 N48J
- 91411 MILJKOVIC, V., and others. The conservation of cattle semen in liquid nitrogen as a modern method for the advancement in the artificial insemination of cattle. (Se) *Vet. Glas.* 22(4):343-347. Ref. 1968. 41.8 J93  
G. Mrvos, V. Jovanovic, M. Ilic, M. Olujic, and A. Davidovic, joint authors.  
English summary.
- 91412 MOHRI, H., and MASAKI, J. Glycerokinase and its possible role in glycerol metabolism of bull spermatozoa. *J. Reprod. Fertil.* 14(2):179-194. Ref. Oct. 1967. 44.8 J822
- 91413 MOVINKEL, H. Practical districts expansion. (No) *Buskap Avdratt* 3:150. 1967. 49 B96  
Artificial insemination in cattle in Norway.
- 91414 NAUFEL, F. Progeny tests for improvement of milk production. (Por) *Inst. Laticinios Candido Tostes. Rev.* 23(136):11-13. Jan./Feb. 1968. 44.8 F33
- 91415 NIKULENKO, V. V. A quick method for freezing bull semen. (Rus) *Zhivotnovodstvo* 6:72-74. June 1967. 49 Z6
- 91416 NORSK AVELOSFÖRENING FOR RODF OG HVITT FE. Annual report of 1966 of the NRF - the Norwegian Red and White Cattle Association. (No) *Buskap Avdratt* 3:153-159. 1967. 49 B96
- 91417 ODEGARD, A. K. A comparison of different schemes for performance test selection. *Acta Agr. Scand.* 17(4):167-173. Ref. 1967. 11 Ac82  
Genetic selection in regard to meat production in cattle and pigs.
- 91418 ODEGARD, A. K., and ROBERTSON, A. A comparison of progeny tests for milk production on fathers and sons. *Acta Agr. Scand.* 17(4):241-246. 1967. 11 Ac82  
Studies with the Friesian breed of cattle.
- 91419 ODEGARD, A. K., and JOAKIMSEN, O. Offspring study for beef product quality 1966-1967. (No) *Buskap Avdratt* 3:141-142. 1967. 49 B96  
In Norway.
- 91420 OGASA, A. Summer sterility in bulls. (Ja) *Jap. Vet. Med. Ass. J.* 20(8):321-325. Ref. Aug. 1967. 41.9 J275
- 91421 OSTERHOFF, D. R., and PRETORIUS, A. M. G. Inherited biochemical polymorphism in milk proteins. *S. Afr. Soc. Anim. Prod. Soc.* 5:166-173. Ref. 1966. 49.9 So822  
Various breeds of cattle in South Africa.
- 91422 PAVEL, J., and others. Study of some factors related to the synthesis of milk proteins in the Red Danish cattle breed in Czechoslovakia. III. Variations in the content and distribution of the principal specific proteins in blood serum. (Cz) *Brno. Vysoka Sk. Zemedel. Sb. Rada A. Spisy Fak. Agron.* 3:431-439. Ref. 1966. 105.92 B833  
A. Babak, B. Svozil, and S. Stanek, joint authors.  
English summary.

- 91423 PAVSIC, M. On some genetic and nutritional factors of cattle reproduction; a contribution to the discussion of the topic. (Se) Vet. Glas. 22 (4):275-281. 1968. 41.8 J93  
English summary.
- 91424 PINTO, F. DA S. The Zebu in the improvement of beef cattle in the Zambezia region. (Por) Mozambique. Serv. Vet. An. 10:423-431. 1962, pub. 1966. 41.9 M872  
Especially the Brahman breed.
- 91425 POLITIEK, R. D., and VOS, H. Genetic differences on different breeding farms. (Du) Vee-teelt Zuivelber. 10(7):289-294. Ref. July 1967. 49 V51  
Dairy cattle.
- 91426 POLITIEK, R. D., and VOS, H. Investigation of milkability of daughter groups of bulls. II. (Du) Vee-teelt Zuivelber. 10(5):190-199. May 1967. 49 V51
- 91427 POLITIEK, R. D., and VOS, H. Investigation of milkability of daughter groups of bulls. III. (Du) Vee-teelt Zuivelber. 10(6):242-244. June 1967. 49 V51
- 91428 POPE, L. S. Spotlight focuses on crossbreeding. Okla. Cowman 8(1):5,42,45. Jan. 1968. 43.8 Ok42
- 91429 POPESKO, P. Intra-organ lymphatic system of male gonad of bull. Folia Vet. 10(1):33-42. Ref. 1966. 41.8 F712
- 91430 POPOVIC, B., MARKOVIC, B., and JANICLJEVIC, A. A contribution to the study of sterility of cattle in the Plevlje area. (Se) Vet. Glas. 22(4):303-305. 1968. 41.8 J93  
English summary.
- 91431 PRABHU, S. S. Influence of factors affecting sex-drive on semen production in buffaloes. III. Indian J. Vet. Sci. Anim. Husb. 37(2):107-117. June 1967. 41.8 In22
- 91432 PURSEL, V. G., and GRAHAM, E. F. Phospholipids of bovine spermatozoa and seminal plasma. J. Reprod. Fertil. 14(2):203-211. Ref. Oct. 1967. 44.8 J8222
- 91433 QUICK, A. J. Cow management chart. Farm Buildings Ass. J. 11:106-107. Dec. 1967. 296.9 F22  
A breeding calendar.
- 91434 RADEV, G. Studies of some etiological factors in the lack of impregnation in artificially inseminated cattle. (Se) Vet. Glas. 22(4):349-353. 1968. 41.8 J93  
English summary.
- 91435 RAKO, A. Breeding possibilities in the improvement of uniformity of udder sections, flow of milk and persistency of milk production in cattle. (Se) Stoccarstvo 22(1/2):1-11. Ref. Jan./Feb. 1968. 43.8 St6
- 91436 RATTAN, P. J. S., SINGH, R., and ANANTA-KRISHNAN, C. P. Haematological constituents of Sindhi and cross-bred cows. Indian J. Dairy Sci. 19(4):191-194. Dec. 1966. 44.8 In28  
Crossbred with Ayrshire.
- 91437 REZENDE, R. T. DE. Dutch or American Friesian? (Por) Inst. Laticinios Candido Tostes. Rev. 23(136):2,9. Jan./Feb. 1968. 44.8 F33  
Milk production.
- 91438 RITTMANNSPERGER, F. The importance of individual production testing for fattening characteristics of cattle. (Ge) Forderungsdienst 15(2):49-52. Feb. 1967. 19 F75  
Breeding records in Austria.
- 91439 RIVEROS, G., and FRANSEN, J. Relation and influence of age and environment on the volume and quality of semen. (Sp) ICA (Inst. Colombiano Agropecuario) Rev. 2(2):101-111. Ref. June 1967. S15.1592  
English summary.  
Cattle.
- 91440 ROBERTS, R. Progressing with Polled Herefords. Ark. Cattle Bus. 4(3):14. Mar. 1968. 43.8 Ar43
- 91441 ROGNONI, G. Reproductive efficiency: an important problem in the raising of cattle in Italy. (It) Clin. Vet. 90(8):380-392. (Cont.) Aug. 1967. 41.8 C61
- 91442 RONNINGEN, K. Comparison between Norwegian Red-and-White cattle and South and West Norwegian cattle. (No) Buskap Avdratt 2:103-105. 1967. 49 B96  
Effects of breeding on milk production.
- 91443 ROOS, A. How is the breeding work handled in our artificial insemination associations? (Sw) Svensk Husdjursskotsel 6:237-241. June 1967. 44.8 L12  
Cattle.
- 91444 SALAJAN, G., and MARCU, T. Study of the effect of gamma radiation on the semen of bulls and rams. (Rum) Inst. Agron. Dr. Petru Groza. Lucrari Stiint. Ser. Med. Vet. Zootehnie 21:61-72. 1965, pub. 1966. SF604.15  
English summary.
- 91445 SANDVIK, J. O. Age of first parturition for NRF (Norwegian Red Cattle) and SV (South and West County Cattle). (No) Buskap Avdratt 3:195-196. 1967. 49 B96
- 91446 SCOTT, D. R. Effect of month of calving on production. Dairy Top. 12(6):8-15. Nov./Dec. 1967. 44.8 D1444
- 91447 SEGLIN, A. The most suitable date for first insemination of cows after calving. (Rus) Zhivotnovodstvo 6:76-78. June 1967. 49 Z6
- 91448 SELLE, K. O. VON. Research in the area of hereditary blood protein and milk protein substances in cattle. (Ge) Tierzuchter 19(23):800-802. Dec. 5, 1967. 49 T445  
Electrophoresis.
- 91449 SENEGACNIK, J. A contribution to the study of possibilities of preservation of cattle semen in liquid nitrogen. (Se) Vet. Glas. 22(4):331-336. Ref. 1968. 41.8 J93  
English summary.
- 91450 SHAPKORIN, V. Proper organization of artificial insemination. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 9:33. Sept. 1967. 281.8 Se4  
Cattle.
- 91451 SHAYADANOV, A. Organizing artificial insemination of cows. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 10:33. Oct. 1967. 281.8 Se4
- 91452 SIC, R., and VERGLES, V. Deep-frozen cattle semen in the form of pellets. (Se) Vet. Glas. 22(4):337-341. Ref. 1968. 41.8 J93  
English summary.
- 91453 SILLCOCK, K. M. Research, development, advice and farm practice; herd improvement. Dairyfarming Dig. 14(1):15-18. Feb. 1967. 44.8 D1443
- 91454 SILVA, J. M. P. DA. The role of selection in the increase of meat production. (Por) Mozambique. Serv. Vet. An. 10:247-252. 1962, pub. 1966. 41.9 M872  
Cattle.
- 91455 SILVA, J. M. P. DA. Subsidiary to the genetic and physiological study of milk production in Mozambique's Sul do Save area. (Por) Lisbon. Escol. Super. Med. Vet. An. 8:249,251-259. 1966, pub. 1967. 41.9 L682  
English summary.  
Breeding cattle, especially Mozambique Frieslands.
- 91456 SINGH, R. A., and SINGH, P. Relative efficiency of milk production in cross-breeds (Holstein-Red Sindhi). Indian J. Dairy Sci. 20(3):127-129. Ref. Sept. 1967. 44.8 In28
- 91457 SOVLJANSKI, B., and others. The effect of the length of successful conception on milk production of cows during lactation. (Se) Vet. Glas. 22(4):399-404. Ref. 1968. 41.8 J93  
B. Podgornik, D. Bresjanac, S. Milosavljevic, and S. Antic, joint authors.  
English summary.
- 91458 STAKHOVSKII, M. Which breed is more profitable? (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 9:32. Sept. 1967. 281.8 Se4  
Comparative study of Bestuzhev, Simmental and Jersey cattle lactation.
- 91459 STOJADINOVIC, V. Problems of increasing the volume of artificial insemination of cattle in mountain areas. (Se) Vet. Glas. 22(4):297-302. 1968. 41.8 J93  
English summary.



- 91460 STOLZENBURG, U., and SCHONMUTH, G. Spasmodic paresis of the hind-limbs in cattle. I. Increased occurrence of spasmodic paresis in insemination bulls. (Ge) Arch. Tierzucht 10(5):369-397. Ref. 1967. 49 Ar23  
English summary.
- 91461 STOYANOV, T., PAVLOV, D., and RAICHEV, D. Effect of mixed silage on semen production by bulls. (Bu) Zhivotnovudstvo 21(4):28-33. Ref. Apr.1967. 49 Z62
- 91462 STUMPF, A. The proper naming of Angus cattle. Va. Angus. Ass. Handbook 1968:37-41. SF199.A14V5
- 91463 SUBBA RAO, T., and PRASAD, M. R. A case of urethral calculus out side the urethra except at the tip in a he-buffalo. Andhra Agr. J. 14(3):96. 1967. 34.2 An4
- 91464 SUMPTION, L. J. Herd fertility and beef cattle profits. Can. Cattlemen 30(11):44. Nov. 1967. 49 C16
- 91465 SYRSTAD, O. Reasons for late maturation in cows. (No) Buskap Avdratt 4:246-247. 1967. 49 B96  
Includes nutrition as a factor in fertility.
- 91466 THOMKE, S. Studies on monozygous cattle twins. XX. Influence of plane of nutrition and of castration on thyroid hormone secretion rates in Swedish Red and White cattle. Acta Agr. Scand. 17(4):228-240. Ref. 1967. 11 Ac82
- 91467 THOMPSON, M. P. Genetic variations in milk proteins. Agr. Sci. Rev. 6(1):29-33. First Q.1968. A31.3 Ag893
- 91468 TODOROV, D., and ANGELOV, K. Evaluation of bulls by the quality of their offspring. (Bu) Zhivotnovudstvo 21(4):2-5. Apr.1967. 49 Z62
- 91469 TOMME, M. F., and MARTYNENKO, P. B. The use of leguminous plants in feeding bullsires. (Rus) Vses. Nauch.-Issled. Inst. Zhi-votn. Tr. 30:3-12. 1967. 49.9 R92  
Quality and quantity of sperm production.
- 91470 TRIPATHI, V. N., and PRABHU, S. S. Variation in semen quality, reaction time and conception rate due to age of the bull in Hariana cattle. Indian J. Dairy Sci. 19(4):207-213. Ref. Dec.1966. 44.8 In28
- 91471 TRODAHL, S. Comparison of cattle breeds and their production capacity 1966. (No) Buskap Avdratt 3:196-197. 1967. 49 B96  
Milk production.
- 91472 VANKOV, K., and ALEKSIEV, A. Effect of lactation period on productivity of Red Danish cattle and their first generation hybrids. (Bu) Zhivotnovudstvo 21(1):13-16. Jan.1967. 49 Z62
- 91473 VAN NIEKERK, W. L. The Afrikaner cattle breed. Ulimo Nemfuyo 2(2):18-19. June 1966. S17.U4
- 91474 VAN VLECK, D. Evaluating AI sires. Dairy Herd Manage. 3(12):44-45. Dec.1967. SF191.D3  
Bulls selection.
- 91475 VIK, K. Dairy cattle breeding in Nordland in 1960's. (No) Buskap Avdratt 2:76-77. 1967. 49 B96
- 91476 VLADIMIROV, I. Rhodope cattle breed. (Bu) Zhivotnovudstvo 21(1):7-12. Jan.1967. 49 Z62  
Milk production and growth.
- 91477 VOMER, I. Health control of bulls in centers for artificial insemination. (Se) Vet. Glas. 22(4):313-319. 1968. 41.8 J93  
English summary.
- 91478 VUJOVIC, R., and others. Problems of reproduction of cattle in mountain areas and areas of intensive breeding studied by means of feeding and some biochemical indicators of the blood. (Se) Vet. Glas. 22(4):291-296. 1968. 41.8 J93  
B. Vujic, A. Davidovic, and S. Starcevic, joint authors.  
English summary.
- 91479 VUJOVIC, R., SINDJETIC, V., and DAVIDOVIC, A. Reproduction pathology of bulls in centers for artificial insemination. (Se) Vet. Glas. 22(4):327-330. 1968. 41.8 J93  
English summary.
- 91480 VUJOVIC, R., and others. Variations in the content of calcium, phosphorus and vitamin C in the blood and semen plasma of bulls; preliminary report. (Se) Vet. Glas. 22(4):421-424. 1968. 41.8 J93  
A. Davidovic, S. Starcevic, and B. Kordic, joint authors.  
English summary.
- 91481 WALDEN, C. Arkansas Polled Herefords are on the move. Ark. Cattle Bus. 4(3):10. Mar.1968. 43.8 AR43
- 91482 WELSH BLACK CATTLE SOCIETY. Welsh Black cattle herd book. Vol. 55. n.p., 1966. 389 p. 43.9 W46
- 91483 WENIGER, J. H., and others. Observations and opinions on the use of Holstein-Friesian bulls for breeding German black-and-white cattle. II. (Ge) Tierzuchter 20(1):5-6. Jan.5,1968. 49 T445  
R. Riechers, W. Dietert, J. Zeddies, and F. Engleke, joint authors.
- 91484 WENIGER, J. H., and AUGUSTINI, C. Production characters of German cattle breeds. World Rev. Anim. Prod. 3(14):62-69. July/Sept.1967. 49 W89  
Milk and meat production.
- 91485 WESSELY, E. C. The effect of inbreeding on some economical important fertility traits of dairy cattle. (Ge) Tierzucht 21(6):302-303. June 1967. 49 T443
- 91486 WITT, M. Shape, size and milking capacity of the udder as important breeding characters in cattle husbandry. (Bu) Zhivotnovudni Nauk. 4(3):99-110. 1967. 49 Z65
- 91487 ZAAGE, W. Red-cattle in Rumania. (Ge) Tierzuchter 20(1):17-18. Jan.5,1968. 49 T445  
Production and fat content of milk.
- 91488 ZAGNOLI, M. Advanced animal husbandry techniques at the Zorlesco Center. (It) Esso Agr. 17(6):22-23. Dec.1,1967. 58.8 Es7  
Italian production center for artificial insemination of cattle.
- 91489 ZAVERYAEV, B. P. The variability and heritability of productivity characteristics and their significance for the elaboration of rapid methods of genotypic evaluation of sires. (Rus) Genetika 3:80-84. Ref. 1967. QH431.A1G4  
English summary.  
Dairy cattle; insemination, hereditability.

#### Feeds and Feeding

- 91490 ALDER, F. E., and COOPER, E. M. Comparative studies of perennial ryegrass and cocksfoot as food for the calf. J. Agr. Sci. [London] 68(3):331-346. Ref. June 1967. 10 J822
- 91491 AMARAL, G. Y. DO. Deficiency of pastures during the dry season and its repercussion on cattle raising. (Por) Mozambique. Serv. Vet. An. 10:305-313. 1962, pub. 1966. 41.9 M872
- 91492 ANSAARI, Z. A., and TALAPATRA, S. K. Fish meal as a protein supplement in young ruminants. Indian J. Dairy Sci. 19(4):183-186. Dec.1966. 44.8 In28  
Calves.
- 91493 AOKI, S., KATO, M., and HARUMOTO, T. Physiological and ecological studies of grazing cattle. 1-8. Seasonal changes in grazing behavior of Japanese Black breed cows grazed on the native grassland. (Ja) Shimane Agr. Coll. Bull. 15(A-1):69-75. Jan.1967. S539.J3S5  
English summary.
- 91494 ARMAND, M. The allotment center of Cantal. (Fr) Potasse 41(350):236-238. Dec.1967. 57.8 P84  
Beef cattle cooperative feedlot.
- 91495 ARMSTRONG, C. W. B. Some factors affecting milk and dry meal consumption in calves. S. Afr. Soc. Anim. Prod. Proc. 5: 93-96. Ref. 1966. 49.9 So822
- 91496 BAKHITOV, G. Preference of castrated bulls is demonstrated. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 8:31-32. Aug.1967. 281.8 Se4  
Fattening of Bestuzhev calves.

- 91497 BARTH, K. M., MCCONNELL, J. C., and WANG, H. C. Digestibility and nitrogen utilization of beef cattle rations with or without hay containing a urea supplement. *Tenn. Farm Home Sci. Progr. Rep.* 65:30-32. Ref. Jan./Mar.1968. 100 T25F
- 91498 BEESON, W. M., PERRY, T. W., and MOHLER, M. T. Supplementation of a full-feed of corn for steers on pasture with various levels of supplement A or Purdue 64. *Ind. Agr. Exp. Sta. Res. Progr. Rep.* 333,5 p. Apr.1968. 100 In2Res  
Protein supplements.
- 91499 BELEKHOV, G. P., and others. Substitute of whole milk for calves. (Rus) *Zhivotnovodstvo* 6:66-69. June 1967. 49 Z6  
A. A. Chubinskaya, N. A. Sheldibayev, and V. F. Matusevich, joint authors.
- 91500 BELL, T. D., ORME, L. E., and BAKER, J. P. Ammonium polyphosphate as a source of nitrogen and phosphorus in cattle rations. *Idaho Agr. Exp. Sta. Bull.* 497,15 p. Ref. Apr.1968. 100 Id14
- 91501 BERG, R. V. D. Feeding of calves. (Du) *Vee-telt Zuivelber.* 10(8):368-378. Ref. Aug.1967. 49 V51
- 91502 BONDARENKO, G. A., GUSEVA, N. I., and NIKONORENKOV, F. A. The influence of acetic and propionic acids in feed salts on the metabolic and fermentation processes in the rumen, and the qualitative composition of cow milk of varying butter fat contents. (Rus) *Vses. Nauch.-Issled. Inst. Zhivotn. Tr.* 30: 197-222. Ref. 1967. 49.9 R92
- 91503 BROOKS, O. L., and others. Pelleted Coastal bermudagrass; comprehensive investigations. *Ga. Agr. Exp. Sta. Res. Bull.* 27,43 p. Ref. Feb.1968. S51.E2  
W. J. Miller, E. R. Beaty, and C. M. Clifton, joint authors.  
A feed to increase dairy cattle milk production.
- 91504 BROSTER, W. H., and TUCK, V. J. Experiments on the nutrition of the dairy heifer. VI. The effect on milk production of the level of feeding during the last six months of pregnancy and the first eight weeks of lactation. *J. Agr. Sci. [London]* 69(3):465-477. Ref. Dec.1967. 10 J822
- 91505 BRZOZOWSKI, A. The effect of different silages on the milk productivity of cows in byre feeding. (Pol) *Stettin. Wyzsza Szkola Roln. Zeszyty Nauk.* 25:315-317. 1966,pub. 1967. 20.5 St4  
English summary.
- 91506 BRZOZOWSKI, A. The effect of feeding with the different quantity of silages and hay of lucerne on the milk productivity of cows. (Pol) *Stettin. Wyzsza Szkola Roln. Zeszyty Nauk.* 25: 312-314. 1966,pub.1967. 20.5 St4  
English summary.
- 91507 BRZOZOWSKI, A. The feeding effect of kale and different silages on the milk productivity of cows and on the contents of some ingredients in milk. (Pol) *Stettin. Wyzsza Szkola Roln. Zeszyty Nauk.* 25:309-312. 1966,pub. 1967. 20.5 St4  
English summary.
- 91508 BRZOZOWSKI, A. Research on pasture productivity for feeding the milch cows at the Agriculture Experiment Station-Lipki. (Pol) *Stettin. Wyzsza Szkola Roln. Zeszyty Nauk.* 25: 318-321. 1966,pub.1967. 20.5 St4  
English summary.
- 91509 CAPOTE, F. A., and HENTGES, J. F. Diet effect on ruminant forestomach structure. *Ceiba* 13(1):9-37. Mar.1967. 475 C32  
Bibliography, p.31-37.  
Cattle and sheep.
- 91510 CARNEVALI, A., and RODRIGUEZ C., S. Effect of the forage plants green elephantgrass [*Pennisetum purpureum*], Pangola [*Digitaria decumbens*] hay, and corn silage on the maintenance and fattening of steers. (Sp) *Agron. Trop. [Maracay]* 16(4):263-272. Ref. Oct./Dec.1966. 26 Ag87  
English summary.
- 91511 CASTLE, M. E., CAMPBELL, A. G., and CLAYTON, D. G. Rearing Jersey calves on concentrates. *Ruakura Farmers Conf. Week Proc.* 1967:181-185. Apr.9,1968. 49.9 R82  
In New Zealand.
- 91512 CHABERT, Y. Quality of milk and nourishment of milk cows. (Fr) *Potasse* 42(353):51-54. Ref. Mar.1968. 57.8 P84  
Effects of feed on milk and cheese quality.
- 91513 CHEN, Y. K. A study of the feeding value in the use of citrus fruit by-products for stock ration. II. A determination of an adequate amount as a feed for lactating cows and poultry. (Ch) *J. Agr. Forest.* 15:217-247. Oct. 1966. 22.5 J823  
English summary.
- 91514 CIAFFI, B. New feeds to rectify the cattle deficit. (It) *Inform. Zootec.* 14(23):9-10. Dec.15,1967. 49 In3  
In England.
- 91515 COOK, C. W. Increased capacity through better distribution on mountain ranges. *Utah. Sci.* 28(2):39-42. June 1967. 100 Ut1F  
Beef cattle feeding.
- 91516 COURTHEUX, S. The dairy cow. (Fr) *PRO-VIMI (Proteines, Vitamines, Mineraux) Inform.* 51:6-7. Nov.1967. 389.78 P942  
Feed relationship.
- 91517 DAHMEN, J. J., and BELL, D. T. Background feeding rations for steer calves prior to finishing on non-roughage rations. *Idaho Agr. Res. Progr. Rep.* 139:9-16. May 1968. S53.E2
- 91518 DAHMEN, J. J., BELL, D. T., and BULL, R. C. A comparison of various combinations of treated corn silage for steer calves. *Idaho Agr. Res. Progr. Rep.* 139:1-8. May 1968. S53.E2  
Nutritive value.
- 91519 DARDZHONOV, T., PETEVA, Z., and SANDEV, S. Intensive fattening of calves on concentrated feed. (Bu) *Zhivotnovodstvo* 21(4):14-16. Apr. 1967. 49 Z62
- 91520 DEMCHENKO, P. V., and PECHKUROVA, V. B. Feeding 18-month old heifers with corn silage in ammonia solutions. (Rus) *Vses. Nauch.-Issled. Inst. Zhivotn. Tr.* 30:13-18. 1967. 49.9 R92
- 91521 DENISOV, N. I., MEL'NIKOVA, T. S., and ILUKHINA, L. A. Effects of protein-vitamin-mineral additives in feed for milking cows. (Rus) *Vses. Nauch.-Issled. Inst. Zhivotn. Tr.* 30:172-184. 1967. 49.9 R92
- 91522 DEVYATKIN, A. I., and TKACHENKO, E. I. The intensive fattening of long-horned cattle on corn-silage and sugar beet. (Rus) *Vses. Nauch.-Issled. Inst. Zhivotn. Tr.* 30:27-34. 1967. 49.9 R92
- 91523 DIMOVSKI, M. Right feeding of dairy cattle leads to high amount of milk production. (Se) *Sovremeno Zemjod.* 14(3):12. Mar.1967. S13.S6
- 91524 DINESCU, S. Cattle fattening measures adopted by the cooperatives of agricultural production. (Rum) *Rev. Zooteh. Med. Vet.* 17(10):2-10. Oct.1967. 49 P943
- 91525 DZIEMBOWSKA, T., and TUPAJ, C. Influence of feeding beet leaves on the alkali reserve and calcium content of the circulating blood of cows. (Pol) *Stettin. Wyzsza Szkola Roln. Zeszyty Nauk.* 25:305-307. 1966,pub.1967. 20.5 St4  
German summary.
- 91526 EKERN, A. Fodder's importance for milk production. (No) *Buskap Avdratt* 4:205-207. 1967. 49 B96  
Nutritive value.
- 91527 EKERN, A., and SAUL, O. Memorandum; feeding of dairy cattle on pasture. (No) *Buskap Avdratt* 2:83-86. 1967. 49 B96  
Feed supplements.
- 91528 ELDER, W. C. Grazing dry beef cows on winter pastures without supplements. *Okla. Agr. Exp. Sta. Process. Ser.* P-584:2-9. May 1968. 100 Ok4M
- 91529 ELLIOT, R. C., and JOHNSON, P. D. Vitamin A requirements of fattening steers. *S. Afr. Soc. Anim. Prod. Proc.* 5:74-77. Ref. 1966. 49.9 So822



- 91530 ELLIOTT, R. C. Voluntary intake of low-protein diets by ruminants. I-II. J. Agr. Sci. [London] 69(3):375-381,383-390. Ref. Dec.1967. 10 J822  
.Cattle and sheep in Southern Rhodesia.
- 91531 ELLZEY, H. D. What is quality forage? La. Ass. Agron. Proc. 8:45-55. 1967. 4 L933  
For cattle.
- 91532 ELOFF, H. P. To save my animals: how and what to feed during droughts. Farming S. Afr. 42(5):51,53-54. Aug.1966. 24 So842  
Beef cattle.
- 91533 EPIFANOV, G. V. The use of sugar beet in feeding cattle. (Rus) Vses. Nauch.-Issled. Inst. Zhivotn. Tr. 30:35-37. 1967. 49.9 R92
- 91534 ES, A. J. H. VAN. Energy feed value and feed requirement. I. (Du) Veeteelt Zuivelber. 10 (6):256-260. June 1967. 49 V51  
Cattle.
- 91535 ES, A. J. H. VAN. Energy feed value and feed requirement. II. (Du) Veeteelt Zuivelber. 10 (7):295-301. July 1967. 49 V51  
Cattle.
- 91536 ES, A. J. H. VAN. Energy feed value and feed requirement. III. (Du) Veeteelt Zuivelber. 10 (8):357-360. Aug.1967. 49 V51  
Cattle.
- 91537 GARRETT, W. N., and MATKIN, G. Prediction of final feedlot gains from observations at 28 or 56 days. Calif. Agr. 21(4):4-5. Apr.1967. 100 C12Cag  
Steers.
- 91538 GLUKHOV, G., and DRALYUK, S. New valuable substitutes for milk. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 10:34-35. Oct.1967. 281.8 Se4  
Used in calf feeding.
- 91539 GREENHALGH, J. F. D., REID, G. W., and AITKEN, J. N. The effects of grazing intensity on herbage consumption and animal production. II. Longer-term effects in strip-grazed dairy cows. J. Agr. Sci. [London] 69(2):217-223. Oct.1967. 10 J822
- 91540 GREY, J. H., and others. High energy feeding systems for finishing weaner steers. S. Afr. Soc. Anim. Prod. Proc. 5:71-73. 1966. 49.9 So822  
F. N. Bonsma, G. O. Harwin, and R. T. Naude, joint authors.
- 91541 GUNNING, B. A., DIPROSE, R. J., and BOYER, M. G. Slow rotation wintering of dairy stock. New Zeal. J. Agr. 114(3):34-35,37,39. Mar. 1967. 23 N48J
- 91542 GUSHCHYAN, G. S. Economic effectiveness of discontinuing the long-distance driving of cattle and the inter-Republic use of pastures in Armenia. (Rus) Vop. Ekon. Sel. Khoz. Arm. 4/5:63-77. 1966. 281.8 V89  
Includes sheep.
- 91543 HAMM, G. G. H. Intake experiments with dairy cattle of different silages from grass fertilized with varying amounts of nitrogen. (Du) Veeteelt Zuivelber. 10(8):365-367. Aug. 1967. 49 V51
- 91544 HANSARD, S. L., ITOH, H., and GLENN, J. C. Maternal and fetal utilization of iron by beef cattle as a function of gestation age. Int. Congr. Nutr. Proc., 7th Congr., v.5:678-682. Ref. 1966, pub.1967. TX345.I53 1966
- 91545 HANSEN, H. E. Helarsforsog med kvaeg [A full year's trial with cattle]. VI. Denmark Statens Husdyrbrugsudvalg. Landokon. Forsogslab. Beretn. 353,56 p. 1966. 104 D41  
Chiefly feeding.
- 91546 HARUMOTO, T., KATO, M., and AOKI, S. Physiological and ecological studies of grazing cattle. II - 14. Seasonal change in relation to grass energy production and energy expenditure of cattle on native grassland. (Ja) Shimane Agr. Coll. Bull. 15(A-1):81-84. Jan.1967. S539.J3S5  
English summary.
- 91547 HENNIG, A. Fertile cow—an acute problem. (Ge) Tierzucht 21(6):298-301. June 1967. 49 T443  
Effects of phosphorus feeding, chiefly.
- 91548 HEYDENRYCH, H. J., VENTER, J. A., and COETZEE, J. E. Time for weaning. Farming S. Afr. 42(10):39-41. Jan.1967. 24 So842  
Calves.
- 91549 HIBBS, J. W., CONRAD, H. R., and JOHNSON, W. H. Macerated, dewatered vs. wilted alfalfa-grass silage for dairy cows. Ohio. Agr. Res. Develop. Center. Res. Bull. 1013,9 p. May 1968. 100 Oh3S
- 91550 HIGHT, W. B., and BATH, D. L. High-moisture grain for lactating dairy cattle. Calif. Agr. 21(6):2-3. June 1967. 100 C12Cag
- 91551 HLOTOVA, H. A. Feeding costs and returns, while producing milk with Lebedin cows from different lines. (Uk) Visn. Sil's'kohospod. Nauk. 1:90-95. Ref. Jan.1967. 20 V82  
Russian summary.
- 91552 HODGSON, J., and WILKINSON, J. M. The influence of the quantity of herbage offered and its digestibility on the amount eaten by grazing cattle. Brit. Grassland Soc. J. 23(1): 75-80. Ref. Mar.1968. 60.19 B773
- 91553 HUTTON, G. A., and BATH, D. L. A comparison of 1x3x3-inch wafers and baled alfalfa hay for milk production. Calif. Agr. 21(5):10-11. May 1967. 100 C12Cag
- 91554 HUTTON, G. A., and BATH, D. L. Corn silage and alfalfa hay for lactating dairy cows. Calif. Agr. 21(6):4-5. June 1967. 100 C12Cag
- 91555 HUTTON, J. B. Meal feeding. Massey Univ. Dairyfarming Annu. 1967:123-137. 44.9 M382
- 91556 HUTTON, J. B., and PARKER, O. F. Meal feeding for milk production. Ruakura Farmers Conf. Week Proc. 1967:194-205. Apr.9,1968. 49.9 R82  
Feed concentrates in New Zealand. Includes discussion.
- 91557 IRVINE, R. G., and COSTELLOE, J. Filling a depleted beef market. Dairy Top. 12(6):16-18. Nov./Dec.1967. 44.8 D1444  
Dairy calves finished for meat in Australia.
- 91558 IWEMA, S., and JONG, A. DE. Poultry litter as cattle feed. (Du) Veeteelt Zuivelber. 10(4): 156-160. Ref. Apr.1967. 49 V51
- 91559 JORGENSEN, N. A., KURTZ, E. V., and KLEEN, E. J. Urea for dairy cattle. S. Dak. State Univ. Ext. FS 406,4 p. Apr.1968. 285.29 So85Fs
- 91560 KAMINAGA, T., YOKOYAMA, C., and SHIBATA, Y. Palatability of wild weeds for cows. (Ja) Hokkaido. Forest Exp. Sta. Annu. Rep. 1965:136-143. Ref. Dec.1966. 99.9 J2724A  
English summary.  
Holstein-Friesian feeding on Sasa kurilensis.
- 91561 KATO, M., HARUMOTO, T., and AOKI, S. Physiological and ecological studies of grazing cattle. II - 13. Seasonal changes in energy expenditure of grazing Japanese Black breed cows measured by beatmeter method. (Ja) Shimane Agr. Coll. Bull. 15(A-1):76-80. Ref. Jan.1967. S539.J3S5  
English summary.
- 91562 KEMP, A., and GEURINK, J. H. Determination of sodium supply for dairy cows under practice circumstances. (Du) Veeteelt Zuivelber. 10 (6):245-255. June 1967. 49 V51
- 91563 KERR, J. A. M. The behaviour of beef cows housed in lying-in sheds with cubicles and self-fed silage. Northern Ireland Rec. Agr. Res. 16(1):7-12. Aug.1967. 10 N81R
- 91564 KHOURI, R. H., STRONACH, J., and STEELE, M. The early weaning of calves on to pasture by the feeding of a concentrate meal. Ruakura Farmers Conf. Week Proc. 1967:186-193. Apr.9,1968. 49.9 R82  
In New Zealand. Includes discussion.
- 91565 KLAUSEN, S. Feeding of dairy cattle in the fall. (Da) Landbonyt 21(10):395-399,435-436. Oct.1967. 11 L2322
- 91566 KLEIMENOV, H. I., and MIFTAKHOV, A. G. The effects of succulent feed on the growth of young long-horned steers. (Rus) Vses. Nauch. Issled. Inst. Zhivotn. Tr. 30:19-26. 1967. 49.9 R92

- 91567 KLEIMENOV, N. I., and GORODETSKII, A. A. The digestibility and usefulness of feed in calves feeding rations in different combinations of silage, beets and hay. (Rus) Vses. Nauch.-Issled. Inst. Zhivotn. Tr. 30:72-77. 1967. 49.9 R92
- 91568 KLEIMENOV, N. I., and AIRAPETOVA, R. T. Nutrient utilization during feeding with "Bioschrott" [fodder processed from biomass] and protein-vitamin concentrates in young cattle. (Rus) Vses. Nauch.-Issled. Inst. Zhivotn. Tr. 30:78-81. 1967. 49.9 R92  
In U.S.S.R.
- 91569 KLEMENC, N. and others. The winter feeding of dairy cattle and the supply of vitamins. (Sl) Soc. Kmetijstvo Gozdarstvo 18(1):14-17. Ref. Jan.20,1967. 21.5 So14  
V. Gregorovic, P. Vospernik and J. Zust, joint authors.
- 91570 KNIGA, M. I., and others. The quality of milk and butterfat in lactating cows fed with feeds rich in sugar. (Rus) Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina Dokl. 5:23-25. May 1967. 20 Ak1  
V. I. Grinenko, M. G. Nasonova, and V. G. Atramentova, joint authors.
- 91571 KOLJAJIC, V. The effect of different concentrations of feed rations and frequency of feeding on results of fattening of calves. (Se) Savremena Poljoprivreda 15(4):317-328. Ref. Apr.1967. 21 P75  
English summary.
- 91572 KORMOS, J. A study of ensiling wilted and un-wilted grass at two stages of maturity. 2. Effect on milk production. Northern Ireland Rec. Agr. Res. 16(1):57-62. Ref. Aug.1967. 10 N81R
- 91573 KREFT, H. W. Urea and biuret as nitrogen supplements for cattle. S. Afr. Soc. Anim. Prod. Proc. 5:66-70. Ref. 1966. 49.9 So822
- 91574 LAMB, R. C., and ANDERSON, M. J. Feed efficiency in dairy cattle. Utah Sci. 28(1):28-29. Mar.1967. 100 Ut1F
- 91575 LAMB, R. C., and ANDERSON, M. J. Influence of sire and ration on differences in gross feed efficiency in dairy cattle. Utah Sci. 28(2):50-52. June 1967. 100 Ut1F
- 91576 LANCASTER, R. J. Losses and feeding values of vacuum and conventional silage. Ruakura Farmers Conf. Week Proc. 1967:222-232. Apr.9, 1968. 49.9 R82  
In dairy cattle feeding.
- 91577 LARSEN, J. Cheaper feed mixes for dairy cattle. (Da) Landbonyt 22(2):52-56. Feb.1968. 11 L2322
- 91578 LARSEN, J. B. Winter-feed - prices of feed. (Da) Landbonyt 22(1):23-26. Jan.1968. 11 L2322  
For dairy cattle.
- 91579 LARSEN, J. T., and RIZEK, R. L. The costs of feeding to heavier weights. Ark. Cattle Bus. 4(3):42-43. Mar.1968. 43.8 Ar43
- 91580 LEEGSTRA, C. Store feeding of hay to heifers. (Du) Neth. Prov. Dir. Rijkslandbouwvoorlichting Friesland. Voorlichting Onderz. Grasland Veehouderij 1965:98-99. 1966. SF15.N4A3
- 91581 LEROY, A. M. How animal production can be improved in Turkey. (Fr) Mediterranea 16: 298-305. Oct./Dec.1967. 281.8 M462  
English summary.  
Feeding and breeding.
- 91582 LEVANTIN, D. L., and EPIFANOV, G. V. The effect of corn silage and sugar beet in various levels and qualities of protein feedings on growth and fattening of young long-horned cattle. (Rus) Vses. Nauch.-Issled. Inst. Zhivotn. Tr. 30:38-41. 1967. 49.9 R92
- 91583 LIEBENBERG, O., GOEHLER, H., and PROKOP, P. Fattening with farm produced feed and dry-feed of descendants of two insemination bulls of different types. (Ge) Arch. Tierzucht 10(6):445-464. Ref. 1967. 49 Ar23  
English summary.
- 91584 LISHMAN, A. W. Cane molasses as a substitute for maize in beef-finishing rations. S. Afr. J. Agr. Sci. 10(1):51-59. Ref. Mar.1967. 24 Su3
- 91585 LONG, M. I. E. Investigations on the in vitro digestibility techniques used under East African conditions. East. Afr. Agr. Forest. J. 33(2):166-169. Ref. Oct.1967. 24 Ea74  
Includes rumen fistula studies with steers.
- 91586 LUTHER, R. M. Effect of diet on ruminal ciliate protozoa populations in cattle and sheep. S. Dak. Acad. Sci. Proc. 46:107-114. Ref. 1967. 500 So82
- 91587 MADAMBA, J. C. Feeding beef cattle. Philippine Farms Gard. 4(5):22,28. May 1967. 25 P5323
- 91588 MANDOKHOT, V. M., and MUKHERJEE, R. Studies on the utilization of iron in paddy straw rations. II. Iron absorption in growing calves and adult bullocks fed supplemented and/or processed paddy straw rations. Punjab Agr. Univ. J. Res. 4(1):111-116. Ref. Mar.1967. S19.P8
- 91589 MANIN, F. Effect of feed on milk production. (Rus) Sel'skokhoz. Proizv. Urala 9:45-47. Sept.1966. 281.8 Se45
- 91590 MATSUSHIMA, J. K. Urea, a power packed cattle feed. Over Feed Bunk Annual Edition 1967:4,10,12,17,19. 389.79 Ov2
- 91591 MATZON, C. Excessive feeding with marrow-stem kale can cause disturbances. (Sw) Lantmannen 78(20):11-12. Sept.1967. 11 L234  
Dairy cattle, milk production.
- 91592 MCCOY, J. H. [Beef] cattle feeding economics; know your costs. Kans. State Univ. Ext. Ext. Econ. Kans. Farm Bus. Inform., Aug.1,1967,2 p. HD9004.A1K3
- 91593 MEENAKSHISUNDARAM, V., and SUBRAMANIAN, S. R. Resource efficiency in milk enterprise. Madras Agr. J. 54(4):175-180. Ref. Apr.1967. 22 M262  
Milk production influenced by feeding, breeding.
- 91594 MICHNA, A., and others. Mineral levels of calves at different ways of feeding. II. Calves fed on whole, dehydrated, sweet equalized and sour milk curdled by cream acid culture with and without adding Galacide. (Cz) Folia Vet. 10(2):79-85. 1966. 41.8 F712  
T. Gdovin, L. Vrzgula, and P. Bartko, joint authors.  
English summary.
- 91595 MORGADO, F. DE P. Possibilities of some supplementary feeds for the increase of meat production in Mozambique. I-II. (Por) Mozambique. Serv. Vet. An. 10:333-349. Ref. 1962, pub.1966. 41.9 M872  
Effect on growth during dry and rainy seasons, and on slaughter age and cost, of beef cattle.
- 91596 MORRIS, J. G., GARTNER, R. J. W., and PEPPER, P. M. Finishing steers on high grain rations; the effects of three roughages, and of urea, vitamin A, cobalt and sodium chloride supplements. Australian J. Exp. Agr. Anim. Husb. 7(25):144-151. Ref. Apr.1967. 23 Au792
- 91597 MUDGAL, V. D. How to feed your cow economically. Indian Farming 18(1):43-44,52. Apr.1968. 22 In283
- 91598 MUSANGI, R. S., and SONEJI, S. V. Feeding groundnut (Arachis hypogaea L.) haulms to dairy cows in Uganda. East. Afr. Agr. Forest. J. 33(2):170-174. Oct.1967. 24 Ea74
- 91599 NIEMANN, P. J., SWART, J. A., and CAMPBELL, Q. P. The voluntary intake of chopped forages by cattle and sheep. S. Afr. Soc. Anim. Prod. Proc. 5:55-57. 1966. 49.9 So822
- 91600 NEIMANN SORENSSEN, A. Dried forage for milk cows. (Da) Buskap Avdratt 4:236-241. 1967. 49 B96  
Denmark.
- 91601 NORRMAN, E. Beefcattle out in the field. (Sw) Svensk Husdjursskotsel 6:260-262. June 1967. 44.8 L12
- 91602 NORRMAN, E. Urea to beef cattle—it is worth a try. (Sw) Lantmannen 78(24):16-17. Nov.25,1967. 11 L234
- 91603 NOVIKOV, S. S., and KOCHETOV, I. S. Effect of beet pulp silage on milk composition of cows. (Rus) Zhivotnovodstvo 6:64-65. June 1967. 49 Z6



- 91601 O'NEILL, D. G. 1,000 gallons of milk from tetraploid perennial! Agr. Northern Ireland 42(9):291-293. Jan.1968. 256.13 Ag82M Rye grasses.
- 91602 OWEN, E., and DAVIES, G. M. Effect of breed, sex, type of cereal and supplementary hay upon the performance of beef cattle given high-concentrate diets. J. Agr. Sci. [London] 69(1):79-94. Ref. Aug.1967. 10 J822 Barley and corn.
- 91606 PANAIOTOV, P. Replacement of part of the hay with succulent feeds in dairy cow rations. (Bu) Zhivotnovudni Nauk. 4(3):65-71. Ref. 1967. 49 Z65 English summary. Red Sadovo.
- 91607 PATEL, B. M., VADYA, M. B., and PATEL, P. M. Digestibility coefficient and nutritive value of cauliflower leaves and stems. Indian J. Dairy Sci. 20(3):150-152. Ref. Sept.1967. 44.8 In28 Trials with cattle.
- 91608 PENZHORN, E. J., and VON LA CHEVALERIE, M. K. S. L. The feeding of maize and sorghum grain to weaners. S. Afr. Soc. Anim. Prod. Proc. 5:100-103. Ref. 1966. 49.9 So822 Calves; trials in the Republic of South Africa.
- 91609 PENZHORN, E. J., and LESCH, S. F. Sorghum grain ears as stock-feed. (Af) S. Afr. Anim. Prod. Proc. 5:97-99. 1966. 49.9 So822 English summary. For cattle fattening.
- 91610 PERRY, T. W., and MUDD, C. A. Gelatinized vs. raw corn and cochina shells vs. oyster shells for finishing beef cattle. Ind. Agr. Exp. Sta. Res. Progr. Rep. 332,4 p. Apr.1968. 100 In2Res
- 91611 PERRY, T. W. The potential of corn stover for beef production. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:139-142. 64.9 On83
- 91612 PETER, O. Effective application of sugar beet leaves and dry feed in cattle sheds. (Ge) Zuckerrube 16(6):10-13. Dec.1967. 66.8 Z82
- 91613 PETERSEN, W. Sugar beets as the most valuable feed for highest animal performance. (Ge) Zuckerrube 16(6):7-10. Dec.1967. 66.8 Z82 Dairy cattle.
- 91614 PONTAILLER, S. Nutrition of young beef cattle. (Fr) Potasse 41(350):239-242. Dec.1967. 57.8 P84
- 91615 QUINN, L., and others. The response of male Zebu calves to creep feeding, castration, diethylstilbestrol and supplemental feeding on pasture. (Por) Pesquisa Agropecuar. Brasil. 1:303-317. 1966. S15,P42 G. O. Mott, W. V. A. Bisschoff, and G. L. da Rocha, joint authors. English summary.
- 91616 RAETSKAYA, YU. I., KLEIMENOV, N. I., and KIVKUTSAN, F. R. The rate of nitrogen exchange in the blood of young horned steers, due to various types of feeding. (Rus) Vses. Nauch.-Issled. Inst. Zhivotn. Tr. 30:234-237. 1967. 49.9 R92
- 91617 RANJHAN, S. K., TALAPATRA, S. K., and KALLA, A. C. Yield and nutritive value of dual purpose crop cowpea (*Vigna catjang*)—cowpea hay as a growth production ration. Indian J. Dairy Sci. 20(3):146-149. Sept.1967. 44.8 In28 Trials with calves.
- 91618 RAY, M. L., and SPOONER, A. E. Pro-lix compared to cottonseed meal for wintering beef steer calves. Ark. Farm Res. 17(2):8. Mar./Apr.1968. 100 Ar42F A commercial liquid protein supplement.
- 91619 RIEMANN, A. T. Unpolluted water is necessary for life. The importance of drinking water for cattle and swine. (Da) Landbonyt 21(9):347-354. Sept.1967. 11 L2322
- 91620 RUNCIE, K. V. Feeding beef cattle at grass. Scot. Agr. 46(2):95-97. Spring 1967. 10 Sco82So
- 91621 SALERNO, A., PILLA, A. M., and ROMITA, A. Growth rates and efficiency of feed conversion in Charollais, Marchigiana and Maremmana steers. (It) Aliment. Anim. 12(3):83-99. Ref. Mar.1968. 389.78 AL4 English summary.
- 91622 SANNE, S. Do not underfeed dairy cattle and heifers during the summer! (Sw) Svensk Husdjursskotsel Ladugard. 9:338-339. Sept. 1967. 44.8 L12 Hay addition to pasture feeding and effect on milk production.
- 91623 SATAPATHY, N., AMLA, B. L., and VENKATESH, K. V. L. Comparative laboratory study of ensilation of pineapple tops and leaves. Indian Food Packer 21(6):5-9. Ref. Nov./Dec. 1967. 389.8 In25 For possible use as cattle feed supplement.
- 91624 SAUE, O., and EKERN, A. A new in-door period ahead. (No) Buskap Avdratt 3:174-175. 1967. 49 B96 Feed formulas and feed arrangement for the winter period in-house for dairy cattle.
- 91625 SCHALLER, F., and GEORGE, R. With corn & sorghum; use those stalks. Better Crops Plant Food 52(2):7,13,21. 1968. 6 B46 For beef cattle feed.
- 91626 SCHELNER, G., and ANKE, M. Sodium acetate a possibility for increasing milk and milk fat production of cattle? (Ge) Tierzucht 22(2):90-92. Feb.1968. 49 T443
- 91627 SCHMUNTZSCH, S., and WEISSENSTEIN, E. Mathematical basis for optimizing milk-dependent feed rations and analysis of model variants. (Ge) Z. Agrarokon. 10(3):160-167. 1967. 281.8 Z3 East Germany.
- 91628 SEIDLER, S., and TOBOLSKA, H. The food value of maize and its mixtures, soilage in milch cow feeding. (Pol) Stettin. Wyzsza Szkola Roln. Zeszty Nauk. 25:330-332. 1966, pub.1967. 20.5 St4 English summary.
- 91629 SIDHU, G. S., KOCHAR, A. S., and MAKAR, G. S. Effect of supplementing bajra stalks with lucerne and concentrates and their part replacement by urea on the production of volatile fatty acids in the rumen of cows and buffaloes. Punjab Agr. Univ. J. Res. 4(1):104-110. Ref. Mar.1967. S19,P8
- 91630 SINGH, B. K., and MUDGAL, V. D. The comparative utilisation of feed nutrients from lucerne hay in buffalo and cross-bred Zebu heifers. Indian J. Dairy Sci. 20(3):142-145. Ref. Sept.1967. 44.8 In28
- 91631 SKYRME, H. P. Winter ill-thrift in weaner beef cattle. New Zeal. J. Agr. 114(5):62-63. May 1967. 23 N48J Weaning and feeding.
- 91632 SPRAGUE, J. I. Practical aspects of cold and winter climates on feeding of cattle. Over Feed Bunk Annual Edition 1967:6,8,20,30. 389.79 Ov2
- 91633 SPRATLING, F. R., and BRIDGE, P. S. Vitamin A deficiency in young cattle. Great Brit. Min. Agr. Fish Food Agr. 73(12):558-561. Dec.1966. 10 G79J
- 91634 STOLKOWSKI, J. The possible effect of mineral nutrition on the distribution of sexes in cow; a retrospective inquiry. (Fr) Acad. Sci. Compt. Rend. Ser. D, 265(15):1059-1062. Oct.9,1967. 505 P21
- 91635 TOENJES, D. A., BATH, D. L., and BORGES, M. Effects of hay quality on milk production and hay intake by dairy cows. Calif. Agr. 21(6):3-4. June 1967. 100 C12Cag
- 91636 TOMME, M. F., and IKRAMOV, K. Hydrolyzed yeast feeds for milking cows. (Rus) Vses. Nauch.-Issled. Inst. Zhivotn. Tr. 30:91-98. Ref. 1967. 49.9 R92
- 91637 TOMME, M. F., and IBADOV, N. The influence of large quantities of succulent feeds for calves on their development, and physiological condition. (Rus) Vses. Nauch.-Issled. Inst. Zhivotn. Tr. 30:42-52. 1967. 49.9 R92 In U.S.S.R.

- 91638 URBANOVICH, E. M. Fattening calves of Simmental breed on the state farm "Bozoiiskii." (Rus) *Zhivotnovodstvo* 6:39-40. June 1967. 49 Z6
- 91639 VAN SCHALKWYK, A., DU TOIT, D. S., and ENGELS, E. A. N. The digestibility of veld grass hay as measured by three different techniques. *S. Afr. Soc. Anim. Prod. Proc.* 5:78-81. Ref. 1966. 49.9 So822  
Trials with cattle and sheep.
- 91640 VOLANTI, U. "Made to measure" fodder for cattle. (It) *Inform. Zootec.* 14(14):11. June 1967. 49 In4  
Ration formulation.
- 91641 WAGNON, K. A. Use of different classes of range land by cattle. *Calif. Agr. Exp. Sta. Bull.* 838, 16 p., map. Mar. 1968. 100 C12S  
Grazing behavior.
- 91642 WEILAND, G. Rational energy-feed for pasture milk cows. (Ge) *Tierzucht* 22(2):64-67. Feb. 1968. 49 T443
- 91643 WIKTORSSON, H. What feed scale to use for dairy cattle? (Sw) *Lantmannen* 78(18):11-12. Sept. 1967. 11 L234  
In Sweden.
- 91644 WILSON, G. F. Milk production from ryegrass varieties. *New Zeal. Grassland Ass. Proc.* 29(7):102-111. 1967. 60.19 N48
- 91645 YOUNG, P. W. Methods of supplementing dairy cows with magnesium. *Ruakura Farmers Conf. Week Proc.* 1967:70-78. Apr. 9, 1968. 49.9 R82  
In New Zealand.
- Veterinary Medicine**
- 91646 ABREU, E. F. DE. Bovine brucellosis in Mozambique. (Por) *Mozambique. Serv. Vet. An.* 10:153-155. 1962, pub. 1966. 41.9 M872
- 91647 ACKER, D. Selenium research ends at Reed Ranch Field Laboratory. *S. Dak. Farm Home Res.* 18(2):2-3, 19. Spring 1967. 100 So82S  
Selenium poisoning in cattle.
- 91648 ADAMESTEANU, I., SALANTIU, V., and GHERGARIU, S. The effect of tissue therapy on the blood protein fractions in calves. (Rum) *Inst. Agron. Dr. Petru Groza. Lucrari Stiint. Ser. Med. Vet. Zootehnie* 21:49-53. Ref. 1965, pub. 1966. SF604.15  
English summary.
- 91649 AHLERS, D., and ANDRESEN, U. Experiences with the uterus replaxant - WdT in cases of difficult labor in cows. (Ge) *Deut. Tierarztl. Wochenschr.* 74(23):608-610. Ref. Dec. 1, 1967. 41.8 D482  
English summary.  
Isoxsuprine.
- 91650 ALFIMOVA, A. V., SKULIN, I. M., and ORLOVA, V. A. Tests in serological diagnosis of vibriosis in cattle. (Rus) *Veterinariya [Kiev]* 12:103-106. 1967. SF604.V44
- 91651 ANENDARCIK, J., and LEHOCKY, J. A. J. Follicle-stimulating hormone (FSH) in cow urine during the oestrous cycle. (Cz) *Folia Vet.* 10(1):15-21. Ref. 1966. 41.8 F712  
English summary.
- 91652 BAALSRUD, N. I. About acute milk-fever. Can it be avoided? (No) *Buskap Avdratt* 3:143-147, 200. 1967. 49 B96  
Prevention by vitamin D<sub>3</sub> injections.
- 91653 BABUR, M. A. The serum of convalescent for the treatment and prevention of dyspepsia of calves. (Rus) *Veterinariya (Kiev)* 12:100-102. 1967. SF604.V44
- 91654 BAIER, W. Erhebungen über die akute Mastitis des Rindes in einem unterfränkischen Praxisbereich [Surveys of acute mastitis of cattle in a Lower Franconia practice area]. *Munich. Univ. Tierarztl. Fak. [Inaug.-Diss.]* 50, 48 p. Ref. 1967. 41.2 M9222  
English summary.  
Includes treatment.
- 91655 BALAZS, K. Large-scale ventral hernia operation of cattle. (Ge) *Schweiz. Arch. Tierheilk.* 109(10):546-553. Oct. 1967. 41.8 Sch9  
English summary.
- 91656 BARTHA, A., and others. Isolation and properties of bovine herpesvirus from a calf with respiratory disease and keratoconjunctivitis. (Ge) *Arch. Exp. Veterinarmed.* 21(2):615-623. Ref. May 1967. 41.8 Ex7  
M. Juhasz, J. Liebermann, H. Hantschel, and P. Schulze, joint authors.
- 91657 BASHKIROV, B. A. Treatment of udder lesion in cows infected with foot-and-mouth disease. (Rus) *Veterinariya* 3:78-79. Mar. 1967. 41.8 V6426
- 91658 BEESON, W. M., and others. The value of chlortetracycline and sulfamethazine for conditioning newly arrived cattle. *Ind. Agr. Exp. Sta. Res. Progr. Rep.* 334, 4 p. Apr. 1968. 100 In2Res  
T. W. Perry, P. N. Boehm, C. J. Callahan, and M. T. Mohler, joint authors.  
Beef cattle meat production.
- 91659 BELCHENKO, V. B., and BZHEVSKAYA, A. N. Practice of cattle health improvement in the case of brucellosis. (Rus) *Veterinariya* 8:55-56. Aug. 1967. 41.8 V6426
- 91660 BERSON, J. P. Research on biology of Trypanosoma congolense, Broden 1904; isolation and maintenance of wild strains in monophasic solid culture medium with whole blood of Zebu. (Fr) *Rev. Elevage Med. Vet. Pays Trop.* (n.s.) 20(2):307-310. 1967. 41.8 R3262  
English summary.
- 91661 BHATIA, H. M. India's battle against rinderpest. *Indian Farming* 17(12):29-31. Mar. 1968. 22 In283  
Diagnosis and vaccines for cattle and buffalo.
- 91662 BONDARENKO, G., and others. Intermediate metabolism and fermentation in calf rumen during intensive rearing. (Rus) *Vestnik Sel'skokhoz. Nauk. [Moscow]* 5:59-66. Ref. May 1967. 20 V633  
A. I. Devyatkin, L. S. Obukhova, and E. I. Tkachenko, joint authors.  
English summary.
- 91663 BONDARENKO, G. A., OBUKHOVA, L. S., and NIKONORENKOV, F. A. Metabolic peculiarities in fattening young steers. (Rus) *Vses. Nauch.-Issled. Inst. Zhivotn. Tr.* 30:223-233. Ref. 1967. 49.9 R92
- 91664 BONIN, W., and BLOBEL, H. Types of bovine staphylococci. (Ge) *Zentralbl. Bakteriell. Parasitenk. Infektionskr. Hyg. Abt. I, Orig.* 205(1/3):309-318. Ref. Dec. 1967. 448.3 C33
- 91665 BOWEN, J. P. Break-through against mastitis. *Farming S. Afr.* 43(3):26, 32. June 1967. 24 So842  
Dairy cattle.
- 91666 BOUCTON, E. New feed to increase the meat production in the Marne area. (Fr) *Potasse* 41(350):225-228. Dec. 1967. 57.8 P84  
Chiefly dried alfalfa for beef cattle.
- 91667 BOWDEN, R. A. Bloat. *S. Australia J. Agr.* 71(4):111-114. Nov. 1967. 23 So84  
Control in dairy cattle.
- 91668 BRAUER, P. Die Listeriose des Rindes; Schriftumsübersicht [Literature survey]. *Hanover. Tierarztl. Hochschule. Inaug. Diss.* 23, 95 p. 1966. 41.2 H198
- 91669 BRGLEZ, J. The effect of pasture on the occurrence of infectious diseases in cattle. (Sl) *Soc. Kmetijstvo Gozdarstvo* 18(2):45-46. Feb. 22, 1967. 21.5 So14
- 91670 BRITZMAN, D. G. Watch out for grass tetany. *GTA (Grains Terminal Ass.) Dig.* 27(4):35-36. Apr. 1967. 280.28 G11  
Cattle and sheep; includes prevention in cattle.
- 91671 BROWN, J. Quantitative studies of mycobacterial sensitins in cattle. *Diss. Abstr., Sect. B*, 28(3):1029B. Sept. 1967. Z5055.U49D53  
Mycobacteria causing tuberculosis.
- 91672 BRUCKNER-KORTSSON, K. H. Experiences with Gammatonin in cattle virus enteritis. (Ge) *Blauen Heft Tierarzt* 35:25. Oct. 1967. 41.9 B61



- 91673 BUJARD, H. Studies on circular deoxyribonucleic acid. I. Isolation of bovine papilloma virus and characterization of its deoxyribonucleic acid. *J. Virol.* 1(6):1135-1138. Dec.1967. QR360.J6
- 91674 BUTLER, G. W., and METSON, A. J. Hypomagnesaemic tetany in relation to New Zealand dairyfarming. *Massey Univ. Dairyfarming Annu.* 1967:142-153. Ref. 44.9 M382
- 91675 CANELLA, C. F. C., TOKARNIA, C. H., and DOBEREINER, J. Experiments with plants said to be toxic to cattle in northeastern Brazil, which resulted negative. (Por) *Pesquisa Agropecuar.* Brasil. 1:345-352. Ref. 1966. S15.P42 English summary.
- 91676 CAPATINA, V., and others. Considerations on the utilization of Moldamin in veterinary therapeutics. (Rum) *Inst. Agron. Dr. Petru Groza. Lucrari Stiint. Ser. Med. Vet. Zootehnie* 21:175-180. 1965, pub. 1966. SF604.I5  
I. Adamesteanu, A. Baies, V. Salantiu, D. Marica, R. Magda, and I. Ivascu, joint authors.  
English summary.  
Cattle and swine.
- 91677 CARR, S. B., and JACOBSON, D. R. Method for measurement of gastrointestinal absorption in normal animals, combining portal-carotid differences and telemetered portal flow by Doppler shift. *J. Dairy Sci.* 51(5):721-729. Ref. May 1968. 44.8 J822
- 91678 CHASTAIN, E. F., and VANDERWAGEN, L. C. Victory over brucellosis near in California. *Calif. Dep. Agr. Bull.* 55(3):135. 1966. 2 C12M Cattle.
- 91679 CHICHIBABIN, E. S. Antigen for plate agglutination test for cattle brucellosis diagnosis. (Rus) *Veterinariya* 8:53-54. Aug.1967. 41.8 V6426
- 91680 CHIKAKI, H. Field studies on the control of ticks with insecticide. (Ja) *Shimane Agr. Coll. Bull.* 15(A-1):85-89. Jan.1967. S539.J3S5  
English summary.  
On cattle.
- 91681 CHUNG, U. I., and LEE, K. W. Studies on the ovarian disorder of sterile Korean cow. (Ko) *Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep.* 10(5):61-66. Ref. Sept.1967. 22.5 K843  
English summary.
- 91682 CLAUSEN, C. Kontrollierte Behandlungsversuche bei fremdkörperkranken Rindern mit dem Käfig-Magneten; Modell Rinderklinik Hannover [Controlled-treatment experiments with permanent magnets of foreign body diseased cattle (Hanover Cattle clinic model)]. *Hanover. Tierarztl. Hochsch. Inaug.-Diss.* 26,24 p. Ref. 1966. 41.2 H198  
Reticuloperitonitis traumatica.
- 91683 COCKRILL, W. R. Observations on skin colour and markings of the water buffalo (*Bubalus bubalis*). *Veterinarian (Oxford)* 5(1):29-32. Jan.1968. 41.8 V6467
- 91684 CORNETTE, M., and MOINE, G. Results of the control of grass tetany occurring in spring; its completion in 1965 in the north region of Pas-de-Calais. (Fr) *Acad. Vet. France. Bull.* 40(5):241-247. May 1967. 41.9 R24  
Cattle.
- 91685 CRAIG, J. Growth of twin cattle. *Great Brit. Agr. Res. Council. Anim. Breeding Res. Organ. Rep.*, Jan.1968:17-23. 49.9 G7926
- 91686 CRANE, C. S. The first 30 days in the feedlot. *Cattleman* 54(6):80,84. Nov.1967. 49 C29  
Chiefly about worming cattle.
- 91687 CRAWFORD, R. Grass staggers prevention. *Ruakura Farmers Conf. Week Proc.* 1967:79-81. Apr.9,1968. 49.9 R82  
Dietary prevention, magnesium supplement; in New Zealand.
- 91688 CUNNINGHAM, L., and others. Studies on lymphocytes. VIII. Short in vivo mitotic time of basophilic lymphoid cells in the thoracic duct of calves after simulated or effective extracorporeal irradiation of circulating blood. *Exp. Cell Res.* 47(3):479-488. Sept.1967. 442.8 Ex7  
H. Cottier, E. P. Cronkite, C. R. Jansen, K. R. Rai, S. Safier, and H. P. Wagner, joint authors.
- 91689 DAHLGREN, C. H. Water pollution and animal health. (Sw) *Grundforbättring* 2(20):77-80. 1967. 54.8 G92  
English summary.  
Cattle and swine.
- 91690 DALEEL, E. E., and FROST, A. J. The isolation of *Salmonella* from cattle at Brisbane abattoirs. *Australian Vet. J.* 43(6):203-206. Ref. June 1967. 41.8 Au72
- 91691 DE LANGEN, H. Determination of DNA in milk. *Australian J. Dairy Technol.* 22(1):36-40. Ref. Mar.1967. 44.8 Au74  
For mastitis diagnosis based on milk leucocyte content.
- 91692 DEORANI, V. P. S. Studies on the pathogenicity in stephanofilial "humpsore" among cattle in India. *Indian J. Vet. Sci. Anim. Husband.* 37(2):87-95. Ref. June 1967. 41.8 In22  
Caused by *Stephanofilaria assamensis*.
- 91693 DIRKSEN, G. Present state of diagnosis, treatment and prophylaxis of left displacement of the bovine abomasum. (Ge) *Deut. Tierarztl. Wochenschr.* 74(24):625-633. Ref. Dec.15,1967. 41.8 D482  
English summary.
- 91694 DOBINSON, J. Leptospirosis and the dairyfarmer. *Massey Univ. Dairyfarming Annu.* 1967:169-174. 44.9 M382
- 91695 DOHERTY, P. C. Bovine *Leptospira pomona* infection: environmental contamination and the spread of the disease in a susceptible herd. *Queensland J. Agr. Anim. Sci.* 24(3/4):329-341. Ref. Sept./Dec.1967. 23 Q37
- 91696 DOHERTY, P. C. Bovine *Leptospira pomona* infection: the disease in cattle infected during an experimental outbreak. *Queensland J. Agr. Anim. Sci.* 24(3/4):351-364. Ref. Sept./Dec. 1967. 23 Q37
- 91697 DOHERTY, P. C. Streptomycin treatment of bovine carriers of *Leptospira pomona*. *Australian Vet. J.* 43(4):138-139. Apr.1967. 41.8 Au72
- 91698 DORSMAN, W. Hexachlorophene resistance in liver fluke. (Du) *Tijdschr. Diergeneesk.* 92(3):1452-1453. Feb.1,1967. 41.8 T431  
English summary.  
Of cattle.
- 91699 DOUTRE, M. P. Acute haemorrhagic enteritis associated with *Welchia perfringens* in Zebu cattle in Senegal. (Fr) *Rev. Elevage Med. Vet. Pays Trop.* (n.s.)20(2):345-347. 1967. 41.8 R3262  
English summary.
- 91700 DZEKOV, A. Eradication of tuberculosis of cattle. (Se) *Sovremeno Zemjod.* 13(3):13. Mar.1966. S13.S6
- 91701 EKESBO, I. Health and sickness in traditional and modern sheds. (No) *Buskap Avdratt* 2:78-82. 1967. 49 B96  
Designs of cattle sheds giving optimal conditions for animals.
- 91702 ELECKO, J., and KACMARIK, J. Reductase sugar in the blood of calves delivered normally and by conservative cesarian section. (Cz) *Folia Vet.* 10(2):87-94. Ref. 1966. 41.8 F712  
English summary.
- 91703 ERWIN, E. S. Making the ruminant run better. *Cattleman* 54(6):42,46. Nov.1967. 49 C29  
Digestion in cattle and physiology of the rumen.
- 91704 EVPILOV, N. N. Complex therapy of cattle theileriosis. (Rus) *Veterinariya* 8:70-71. Aug. 1967. 41.8 V6426

- 91705 FALLER, K. Untersuchungen der Schilddrüse von Schwein und Rind aus dem Hegau. 45. Beitrag zur geographischen Pathologie der Schilddrüse [Investigations of thyroid gland of cattle and swine from Hegau. 45. Contribution to geographic pathology of thyroid gland]. Hanover. Tierarztl. Hochschule. Inaug.-Diss. 28,37 p. Ref. 1966. 41.2 H198
- 91706 FAYE, P., and others. Preliminary study of a strain of herpesvirus of cattle isolated from a lesion of bovine pneumonia. (Fr) Acad. Vet. France. Bull. 40(5):227-233. May 1967. 41.9 R24  
A. Berkaloof, A. Charton, and C. Le Layec, joint authors.
- 91707 FELLE, J. Magyartarka uszok kitogyeles alatti togymeret változásainak és első laktációs termelésének összefüggése. Correlation between the changes of udder dimensions during udder development and the production of first lactation with Hungarian Red spotted heifers. Keszthely. Agrártud. Foiskola. Kiadv. 8(6),88 p. 1966. 19 K48  
English summary.  
Bibliography, p.75-80.
- 91708 FIOCRE, B. Treatment and chemical control of the brucella abortion of cattle with 4,4'-diamidinodiazaminobenzene. (Fr) Acad. Vet. France. Bull. 40(4):159-167. Apr.1967. 41.9 R24  
Includes discussion.
- 91709 FISCHER, W. Contribution to the treatment of pasture tetany. Preliminary communication on the application of magnesium gluconicum. (Ge) Deut. Tierarztl. Wochenschr. 75(1):8-11. Ref. Jan.1,1968. 41.8 D482  
English summary.  
Cattle.
- 91710 FITZGEORGE, R. B., SOLOTOROVSKY, M., and SMITH, H. The behaviour of Brucella abortus within macrophages separated from the blood of normal and immune cattle by adherence to glass. Brit. J. Exp. Pathol. 48(5): 522-528. Ref. Oct.1967. 44.8 B772
- 91711 FLACK, D. E., and others. Thiabendazole treatment—effect upon weight gains, feed efficiency and cost of gain—commercial feedlot cattle. Vet. Med./Small Anim. Clin. 67(6): 565-568. June 1967. 41.8 M69  
B. N. Frank, H. L. Easterbrooks, and G. E. Brown, joint authors.
- 91712 FRANK, F. W. A brief explanation of the fluorescent antibody test of Vibrio fetus. Idaho Agr. Res. Progr. Rep. 139:32-34. May 1968. S53.E2  
Diagnosis of cattle vibriosis.
- 91713 FRANK, F. W. Progress of bovine vibriosis research. Idaho Agr. Res. Progr. Rep. 139:28-31. May 1968. S53.E2
- 91714 FRERKING, H., ANDRESEN, P., and GEYER, K. Caesarian section in cows with suture and clamping of the skin wound. (Ge) Deut. Tierarztl. Wochenschr. 74(24):636-638. Ref. Dec.15,1967. 41.8 D482  
English summary.
- 91715 FRITZSCH, W., and ABADJIEFF, W. Mycologic investigations of samples of germinated brewer's grain. (Ge) Arch. Tierernähr. 17(6): 463-474. Ref. Sept.1967. 389.78 Ar22  
English summary.  
Toxicity to cattle of fungus-infested brewer's grain.
- 91716 FUHRER, G., FECHNER, G., and ACKERMANN, H. A simple method for trichlorophen determination in milk. (Ge) Monatsh. Veterinarmed. 22(22):908-910. Ref. Nov.15,1967. 41.8 M742  
English summary.  
Residues following Hypoderma bovis and H. lineatum control.
- 91717 GALLAN, M. V. D. Magnesium deficiency of dairy cattle. (Du) Neth. Prov. Dir. Rijkslandbouwoorlichting Friesland. Voorlichting Onderz. Grasland Veehouderij 1965:76-78. 1966. SF15.N4A3  
Cause of grass tetany.
- 91718 GAUMONT, R. Concerning the lack of significance of weak-titer agglutination reactions in the problem of bovine brucellosis. (Fr) Soc. Vet. Prat. France. Bull. Mens. 51(6):280-284. Ref. June 1967. 41.9 So12
- 91719 GAUSTAD, M. Memorandum - as an after-thought. (No) Buskap Avdratt 4:256-257. 1967. 49 B96  
Deals with problems of lactation, milk fever, and estrus in cows.
- 91720 GDOVIN, T., BARTKO, P., and MICHNA, A. Effect of different tissue preparations on cattle. (Cz) Folia Vet. 10(2):43-51. Ref. 1966. 41.8 F712  
English summary.
- 91721 GINTHER, O. J., and others. Effect of oxytocin administration on the oestrous cycle of unilaterally hysterectomized heifers. J. Reprod. Fertil. 14(2):225-229. Ref. Oct.1967. 44.2.8 J8222  
C. O. Woody, S. Mahajan, K. Janakiraman, and L. E. Casida, joint authors.
- 91722 GOLUBEV, I. A., and BANINA, A. M. The sources of trichophytosis infection in calves. (Rus) Veterinariya (Kiev) 12:110-113. 1967. SF604.V44
- 91723 GRAY, J. D. L. Abomasal impaction in a calf. Vet. Rec. 82(19):538-539. May 11,1968. 41.8 V641
- 91724 GREY, J. H., and BONSMAN, F. N. Influence of climate on growth and physiological responses of monozygotic twin heifers. S. Afr. Soc. Anim. Prod. Proc. 5:144-146. Ref. 1966. 49.9 So822
- 91725 GRIFFITHS, T. W. The evaluation of an improved artificial rumen technique for the study of rumen fermentation. J. Agr. Sci. [London] 69(3):355-366. Ref. Dec.1967. 10 J822  
Cattle.
- 91726 GRIFT, J. VAN DER. Histological examination of the teat canal as a method for the detection of the use of oestrogens in veal calves. (Du) Tijdschr. Diergeneesk. 92(12):812-818. June 15,1967. 41.8 T431  
English summary.
- 91727 GROMMERS, F. J. Dairy cattle housing and health. (Du) Tijdschr. Diergeneesk. 93(6):342-347. Mar.15,1968. 41.8 T431  
English summary.
- 91728 GRUNDER, H. D., and REDLICH, G. Compatibility and efficacy of Bilevon M - Bayer in liver fluke infestation (Fasciola hepatica) of cattle. (Ge) Deut. Tierarztl. Wochenschr. 74(24):641-644. Ref. Dec.15,1967. 41.8 D482  
English summary.
- 91729 GRUNDER, H. D., and others. Treatment of bovine trichophytosis with Thiadiazinen. (Ge) Deut. Tierarztl. Wochenschr. 74(23):605-608. Dec.1,1967. 41.8 D482  
W. Fischer, D. Zarnack, and E. Plambeck, joint authors.  
English summary.
- 91730 GRUNERT, E., MARX, F., and WOELKE, G. Follicle-theca cysts of cattle and their therapy with gestafortin. (Ge) Deut. Tierarztl. Wochenschr. 75(1):11-13. Ref. Jan.1,1968. 41.8 D482  
English summary.
- 91731 GULATI, R. L., SWARUP, S., and TYAGI, R. P. S. Theileriasis in a Hariana calf. Punjab Agr. Univ. J. Res. 4(1):121-122. Mar.1967. S19.P8
- 91732 GUPTA, N. K., and DUTTA, T. On Fischioederius cobboldi—a pouched amphistome from cattle in India. Panjab. Univ. Res. Bull. 18(1/2): 41-52. June 1967. 513 Ea72
- 91733 HALL, R. A. Identification of cattle for disease control purposes. Australian Vet. J. 43(6):220. June 1967. 41.8 Au72  
Tuberculosis.
- 91734 HAN, T. W., and KIM, S. K. Studies on piroplasmosis, therapeutic studies on piroplasmosis. (Ko) Korea. Min. Agr. Forest. Office. Rural Develop. Res. Rep. 10(5):53-60. Ref. Sept.1967. 22.5 K843  
English summary.  
Cattle.



- 91735 HAN, T. W., JEON, Y., and KIM, S. K. Studies on ticks. II. The monthly life flow of ticks in Korean cattle. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(5):25-33. Ref. Sept. 1967. 22.5 K843  
English summary.
- 91736 HANSEL, W. Luteotropic and luteolytic mechanisms in bovine corpora lutea. J. Reprod. Fert. Suppl. 1:33-48. Ref. 1966. 442.8 J8222 Suppl.  
Includes discussion.
- 91737 HANSTROM, B. The distribution of the wulzen's cone in the mammalian system. Lund. Univ. Acta Univ. Lundensis. Sect. II, Med. Math. Sci. Rerum Natur. 6,8 p. Ref. 1967. 502 L97A  
Includes pituitary body of cattle and sheep.
- 91738 HAPKE, H. J., BUDDEN, R., and KONERMANN, H. Cardiac and circulatory effects of calcium infusions in ruminants. (Ge) Deut. Tierarztl. Wochenschr. 75(1):2-7. Jan. 1, 1968. 41.8 D482  
English summary.  
Cattle, sheep.
- 91739 HAROVIUC, S., and HRAPCIUC, A. Observations on serologic diagnosis of brucellosis in cattle. (Rum) Rev. Zooteh. Med. Vet. 17(10):36-41. Ref. Oct. 1967. 49 P943  
English summary.
- 91740 HAYAKAWA, M., KATADA, A., and KUDO, Y. Hematophysiological studies of growing dairy calves. 2. Influence of feeding milk replacer added animal fat on blood, urine constituents and carcass organs of dairy male calves. (Ja) Hokkaido Nat. Agr. Exp. Sta. Res. Bull. 91:59-68. Ref. Mar. 1967. 107.6 H68  
English summary.
- 91741 HEIDLER, W. Correlations between serum protein fractions and serum protein content, on the one hand, and fattening performance as well as carcass dressing percentage, on the other, for young bulls. (Ge) Arch. Tierzucht 10(5):347-354. 1967. 49 Ar23  
English summary.
- 91742 HENDRIKS, H. J. The influence of aldosterone and its antagonists on mineral metabolism. II. The influence of aldosterone; experiments with cattle. Tijdschr. Diergeneesk. 92(13):868-877. Ref. July 1, 1967. 41.8 T431
- 91743 HENRIKSEN, S. A. Lungworm in cattle. A survey of two years diagnostic examination. (Da) Nord. Veterinaarmed. 19(10):478-483. Oct. 1967. 41.8 N813  
English summary.
- 91744 HERASYMCHUK, A. V., PROTSENKO, M. YU., and PAVLYTCHENKO, M. F. Analysis of iron in blood, as factor of evaluating physiological condition of animal. (Uk) Visn. Sil's'kohospod. Nauk. 1:95-98. Jan. 1967. 20 V82  
Russian summary.  
Cattle.
- 91745 HILL, W. K. W., and CREMERS, F. X. M. M. Further investigation on the value of the Abortus Bang-Ring test in milk samples from milk tanks. (Du) Tijdschr. Diergeneesk. 92(3):1467-1473. Feb. 1, 1967. 41.8 T431  
English summary.
- 91746 HODGSON, A. J. Ketosis and what can be done about it. Massey Univ. Dairyfarming Annu. 1967:160-165. 44.9 M382
- 91747 HOJOVCOVA, M., and PRAVDA, D. On the study of the blood proteins and of the red blood component in undernourished cattle in the course of pregnancy and shortly after parturition. (Cz) Czech. Min. Zemedel. Lesniho Hospodar. Ustav Vedeckotech. Inform. Vet. Med. 40(2):93-99. Ref. Feb. 1967. 41.9 C333  
English summary.
- 91748 HRUSOVSKY, F. The disinfecting effect of phenol and its homologues on Mycobacterium bovis. (Cz) Folia Vet. 10(2):129-142. Ref. 1966. 41.8 F712  
English summary.
- 91749 HUCKLE, J. Herd health - a veterinarian's point of view. Va. Angus Ass. Handbook 1968:43-45. SF199.A14V5
- 91750 ISHITANI, R. Lesions and pathological differential diagnosis of blue tongue-like diseases in cattle. (Ja) Jap. Vet. Med. Ass. J. 20(5):35-44. Ref. May 1967. 41.9 J275  
Ephemeral fever.
- 91751 IVANENKO, M. S. Sex cycle regulation in heifers. (Rus) Veterinariya 8:96-97. Aug. 1967. 41.8 V6426
- 91752 IVANOV, N. Treatment of cattle against Hypoderma in spring. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 4:30. Apr. 1967. 281.8 Se4  
Trichlorfon used.
- 91753 JAMIESON, S. Brucellosis vaccination is now compulsory. New Zeal. J. Agr. 114(1):11-13. Jan. 1967. 23 N48J  
Cattle.
- 91754 JAPAN. MINISTRY OF AGRICULTURE AND FORESTRY. BUR. OF ANIMAL INDUSTRY. ANIMAL HYGIENE SECT. Outbreaks and control of ephemeral fever in cattle. (Ja) Jap. Vet. Med. Ass. J. 20(5):3-10. May 1967. 41.9 J275
- 91755 JAZBEC, I. Frequency, etiology and therapy of subclinical acetonemia in a cattle herd. (Ge) Deut. Tierarztl. Wochenschr. 74(23):597-603. Ref. Dec. 1, 1967. 41.8 D482  
English summary.
- 91756 JIVOIN, P., and others. Investigations on the efficiency of the concentrated antiaphthous vaccine with saponin adjuvant employed in foci of aphthous fever in bovines. (Rum) Bucharest. Inst. Cercet. Vet. Bioprep. "Pasteur." Lucrare 4(3/4):11-24. 1965, pub. 1966. 41.9 R863  
O. Mihaescu, O. Eustafievici, Gh. Niculescu, V. Lazenta, P. Balasiu, T. Ripas, and Gh. Vascan, joint authors.  
English summary.
- 91757 JOVANOVIC, R. Results of the production of calves during the first fifteen days of their lives. (Se) Vet. Glas. 22(4):413-417. Ref. 1968. 41.8 J93  
English summary.  
Losses caused by diseases.
- 91758 KABNOV, F. N., IGNATOV, S. I., and MASLOV, I. YA. Prophylaxis and treatment of gastro-intestinal diseases in calves. (Rus) Veterinariya 3:68-71. Mar. 1967. 41.8 V6426
- 91759 KALRA, D. S. Observations on the incidence of mastitis in relation to predisposing factors. Punjab Agr. Univ. J. Res. 4(2):249-256. Ref. June 1967. S19.P8  
In cattle and buffaloes in India.
- 91760 KEBER, J. Results of tests with the use of uterine spasmolytic Monzal in difficult parturition cases of cattle. (Se) Vet. Glas. 22(4):395-397. Ref. 1968. 41.8 J93  
English summary.
- 91761 KEESTRA, J. J. Measurement of height of cattle. (Du) Neth. Prov. Dir. Rijkslandbouwvoorlichting Friesland. Voorlichting Onderz. Grasland Veehouderij 1965:24-27. 1966. SF15.N4A3
- 91762 KIETSTEIN, P. New treatment possibilities of Trichophyton infections of cattle. (Ge) Tierzucht 21(6):304-306. June 1967. 49 T443  
With griseofulvin.
- 91763 KINNAIRD, P. J., CHAN, P., and LEAVER, D. D. Heliotrope poisoning in cattle. Australian Vet. J. 44(1):39. Ref. Jan. 1968. 41.8 Au72  
Heliotropium europaeum.
- 91764 KODAGALI, S. B. Nymphomania in Gir cattle. Gosamvardhana 15(11):13-14. Feb. 1968. 43.8 G69
- 91765 KONDRAT'EV, M. E., and KONDRAT'EVA, V. P. Effects of gamma globulins and minor elements on some indicators of calf blood, affected with hypovitaminosis A. (Rus) Khim. Sel'skom Khoz. 7:67-70. Ref. July 1967. 385 K524
- 91766 KONRAD, V., and SLANINA, L. Saponites in diagnosis of mastitis and their relation to other methods of diagnosis. (Cz) Folia Vet. 10(1):167-175. Ref. 1966. 41.8 F712  
English summary.  
In cattle; milk tests.

- 91767 KORIATH, G. Studies on udder form and milkability of cattle twins. 1. Udder form. (Ge) Arch. Tierzucht 10(5):355-367. Ref. 1967. 49 Ar23  
English summary.
- 91768 KOSMINKOV, N. E., and FILIPPOV, V. V. The use of polystyrene latex in the diagnosis of finnosis in live cattle. (Rus) Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina Dokl. 5:37-38. May 1967. 20 Ak1
- 91769 KOTOKU, T., YOSIZAWA, Z., and YAMAUCHI, F. Comparison of heparin specimens isolated from bovine, porcine, and whale organs. Arch. Biochem. Biophys. 120(3):553-562. Ref. June 1967. 381 Ar2
- 91770 KRAFT, W., and HOFMANN, W. Hypophosphoremia in paretic cattle. (Ge) Deut. Tierarztl. Wochenschr. 74(24):638-641. Ref. Dec.15,1967. 41.8 D482  
English summary.
- 91771 KUWABARA, S. Clinical aspects of ephemeral fever in cattle. (Ja) Jap. Vet. Med. Ass. J. 20(5):13-19. May 1967. 41.9 J275
- 91772 LAGERWELJ, E., and NUMANS, S. R. The "Utrecht method" of surgical treatment of the bovine abomasal displacement. (Du) Tijdschr. Diergeneesk. 93(6):366-376. Mar.15,1968. 41.8 T431  
English summary.
- 91773 LANGE, W. High-voltage capacitor discharge for compatibility tests in cattle. (Ge) Monatsh. Veterinarmed. 22(22):896-898. Ref. Nov.15,1967. 41.8 M742  
English summary.
- 91774 LEBEDA, M., and BUS, A. The acid-base state of differentially fed calves determined by the method of Astrup. (Cz) Czech. Min. Zemedel. Lesniho Hospodar. Ustav Vedeckotech. Inform. Vet. Med. 40(10):573-576. Oct.1967. 41.9 C333  
English summary.  
Includes carbon dioxide, carbonates and hydrogen-ion concentration in blood.
- 91775 LECLERC, J. Study on obtaining antiviral antibodies in milk by hyperimmunisation of the udder. (Fr) Rev. Pathol. Comp. 67(790):381-382. Sept.1967. 448.8 R326
- 91776 LENSCHOW, J., BOLDUAN, G., and WALTER, S. Parturition time and milk production of cows in the pasture farms of the northern regions of the German Democratic Republic. (Ge) Tierzucht 22(2):73-76. Feb.1968. 49 T443
- 91777 LE PENNEC, J. Contribution to the study of abortion in cattle. (Fr) Soc. Vet. Prat. France. Bull. Mens. 51(6):270-279. Ref. June 1967. 41.9 S012  
Bacterial and mycotic abortion.  
Includes discussion.
- 91778 LIN, C. S. Studies on serum protein in dairy cattle. (Ch) J. Agr. Forest. 15:197-216. Ref. Oct.1966. 22.5 J823  
English summary.
- 91779 LINCOLN, G. J., and TROUT, K. J. Evaluation of a new trivalent bovine vibriosis bacterin using fluorescent antibody technic. Vet. Med./Small Anim. Clin. 62(6):561-564. June 1967. 41.8 M69
- 91780 LOGAN, S. H. Economic structure of cattle slaughtering in the Western United States. Calif. Agr. Exp. Sta. Bull. 836,28 p.,map. Ref. Jan.1968. 100 C125  
Management.
- 91781 LOKTEVA, F. P. Agglutination test with whey from cows vaccinated against brucellosis. (Rus) Veterinariya 3:36-38. Mar.1967. 41.8 V6426
- 91782 LUSSIER, G. Notes on bovine leukemia. (Fr) Saint-Hyacinthe. Ecole Med. Vet. 9(5):68-70. Sept./Oct.1967. 41.9 Sa2
- 91783 MAJEED, M. A., PASHA, M. A., and CHAUDHARY, M. N. On the etiology of parturient haemoglobinuria in Lyallpur buffaloes. West Pakistan J. Agr. Res. 5(4):93-106. Dec.1967. 22 W52
- 91784 MAKHKAMOV, T. Subclinical form of osteodystrophy of dairy cattle and its therapy. (Rus) Veterinariya 8:92. Aug.1967. 41.8 V6426
- 91785 MANTHEI, C. A., and others. Report of the Subcommittee on Research. Nat. Brucell. Comm. Proc., 1967:43-45. aSF809.B8N3  
R. K. Anderson, I. H. Borts, N. B. McCullough, and S. H. McNutt, joint authors.  
Cattle and swine brucellosis.
- 91786 MANTOVANI, G. Modern views on infectious enteritis of calves. (It) Nuovo Progr. Vet. 22(1):44-46. Jan.15,1967. 41.8 P942
- 91787 MARKOVIC, B., and others. The application of berenil in the treatment of endometritis of cattle and genital trichomoniasis of bulls. (Se) Vet. Glas. 22(4):393-394. 1968. 41.8 J93  
M. Ilic, M. Olujic, G. Mrvos, I. Grus, R. Jovanovic, Lj. Brusin, D. Vig, and D. Bresljanac, joint authors.  
English summary.
- 91788 MARSH, J. M., and others. Studies on the mode of action of luteinizing hormone on steroidogenesis in the corpus luteum in vitro. J. Reprod. Fert. Suppl. 1:113-126. Ref. 1966. 442.8 J8222 Suppl.  
K. Savard, N. R. Mason, R. W. Butcher, and E. W. Sutherland, joint authors.  
Cows.  
Includes discussion.
- 91789 MARTIN MARTIN, E. Ketosis. (Sp) Veterinaria [Madrid] 32(4):221-224. (Cont.) Apr.1967. 41.8 V6429  
Of cattle.
- 91790 MASTRONARDI, M., and POTENA, A. The novocain infiltration of the sympathetic cervical superior ganglion in nymphomaniac cattle; first clinical results. (It) Acta Med. Vet. 13(1/2):57-73. Ref. Jan./Apr.1967. 41.8 Ac84  
English summary.
- 91791 MASTRONARDI, M., and POTENA, A. On the bovine hypophysis having undergone novocain infiltration of the sympathetic cervical superior ganglion. (It) Acta Med. Vet. 13(1/2):3-31. Ref. Jan./Apr.1967. 41.8 Ac84  
English summary.
- 91792 MASTRONARDI, M., and POTENA, A. On the novocain infiltration of the sympathetic cervical superior ganglion and the suprarenal cortex. (It) Acta Med. Vet. 13(1/2):43-55. Ref. Jan./Apr.1967. 41.8 Ac84  
English summary.
- 91793 MAYR, A., and others. Control of bovine septicemia by artificial colonization of bacteria. (Fr) Acad. Vet. France. Bull. 40(5):235-240. May 1967. 41.9 R24  
T. Schliesser, P. Plank, and G. Herkner, joint authors.  
A mixture of suspensions of Micrococcus, Streptococcus, and Corynebacterium.
- 91794 MCDOWELL, D. N. We require that market cattle be identified, a four State report. Nat. Brucell. Comm. Proc., 1967:20-27. aSF809.B8N3  
Remarks by J. G. Milligan, F. G. Buzzell, J. E. DeWeese, and A. A. Erdmann.  
Brucellosis eradication.
- 91795 MCGAVIN, M. D., and LEIS, T. J. Multiple cutaneous mastocytomas in a bull. Australian Vet. J. 44(1):20-28. Ref. Jan.1968. 41.8 Au72
- 91796 MCKAY, K. A., NEIL, D. H., and CORNER, A. H. The demonstration of a single species of an unclassified bacterium in five cases of bovine lymphosarcoma. Growth 31(4):357-368. Ref. Dec.1967. 442.8 G91
- 91797 MEHLE, J. Study of vibriosis of cattle in Western Slovenia with special regard to its laboratory diagnosis. (Se) Vet. Glas. 22(4):367-371. Ref. 1968. 41.8 J93  
English summary.
- 91798 MEYER, H., and BECKER, H. A hereditary anomaly of the jaw in cattle. (Ge) Deut. Tierarztl. Wochenschr. 74(12):309-310. June 15, 1967. 41.8 D482  
English summary.
- 91799 MEYER, H. Studies on transferrin polymorphism in cattle. (Ge) Zentralbl. Veterinarmed. Reihe A, 14(4):335-347. Ref. June 1967. 41.8 Z5  
English summary.



- 91800 MEYLING, A. Bovine virus diarrhea. (Da) Danske Dyrægefor. Medlemsbl. 51(7):251-263. Ref. Apr.1,1968. 41.9 D23
- 91801 MINOR, R. Observations on the use of T<sub>1</sub> broth culture vaccine in the control of contagious bovine pleuropneumonia. Bull. Epizoot. Dis. Afr. 15(2):115-119. June 1967. 41.8 B872  
In Uganda.
- 91802 MITCHELL, D., and GREIG, A. S. The incidence and significance of bovine herpesvirus (infectious bovine rhinotracheitis) antibodies in the sera of aborting cattle. Can. J. Comp. Med. Vet. Sci. 31(9):234-238. Ref. Sept.1967. 41.8 C162
- 91803 MOHANTY, B. N., and CASE, A. Possible influence of toxic plant substances on ruminant reproduction. Vet. Med./Small Anim. Clin. 62(6):558-560. Ref. June 1967. 41.8 M69  
Effects of Trifolium pratense, Veratrum californicum and lucerne fed to cattle and sheep.
- 91804 MOINE, G. A half century of successful control of the bovine tuberculosis in Cambrai. (Fr) Acad. Vet. France. Bull. 40(4):181-185. Apr.1967. 41.9 R24
- 91805 MURESAN, E., and others. Anatomical study of a rare case of polydactylism in cattle combined with syndactylism. (Rum) Inst. Agron. Dr. Petru Groza. Lucrari Stiint. Ser. Med. Vet. Zootehnie. 21:11-21. Ref. 1965, pub. 1966. SF604.15  
P. Georocanu, M. Micla, I. Boitor, I. Popovici, C. Duca, and H. Pop, joint authors. English summary.
- 91806 MURRAY, D. M., and YEATES, N. T. M. Walking trials with cattle. II. A comparison of bulls, steers, and heifers. J. Agr. Sci. [London] 69 (1):71-78. Aug.1967. 10 J822
- 91807 NAKANISHI, T., and SUYAMA, K. Studies on phospholipids of meat. IV. Fatty aldehyde composition of plasmalogens in cattle muscle tissues. (Ja) Jap. J. Zootech. Sci. 38(6):262-268. Ref. June 1967. 49 N62  
English summary.
- 91808 NAROZHNY, P. A. Treatment of calves infected with paratyphoid by a complex method. (Rus) Veterinariya 3:41-42. Mar.1967. 41.8 V6426
- 91809 NAYMAN, J., DATTA, S. P., and BOER, W. G. R. M. DE. Renal transplantation in cattle twins. Nature 215(5102):741-742. Ref. Aug.12,1967. 472 N21
- 91810 NEMOTO, H. Diagnosis of bovine tuberculosis with tuberculin reaction. (Ja) Jap. Vet. Med. Ass. J. 20(8):350-354. Ref. Aug.1967. 41.9 J275
- 91811 NENE, R. P., and KULKARNI, M. V. Surra: a problem in dairy herd. Gosamvardhana 15(11):31-32. Feb.1968. 43.8 G69
- 91812 NERKARARYAN, M. E. Furazolidone application for cow metritis treatment. (Rus) Veterinariya 3:80-81. Mar.1967. 41.8 V6426
- 91813 NIELSEN, S. M., and MADSEN, P. S. Influence of lactation figure on milking ability and the relation between milking ability and mastitis. (Da) Denmark. Statens Husdyrbrugsudvalg. Landokon. Forsogslab. Beretn. 353:23-28. 1966. 104 D41
- 91814 NIHONYANAGI, Y., and others. Changes in blood components of dairy cows before and after parturition. (Ja) Jap. Vet. Med. Ass. J. 20 (10):425-429. Ref. Oct.1967. 41.9 J275  
M. Iidzuka, J. Yonemura, and H. Nishimura, joint authors.
- 91815 OGAWA, S. SATOH, K., and KURITA, T. Estrogenic activity in the milk obtained from normal and mastitis udders of the cows injected with diethylstilbestrol and estradiol-17b. Tokyo Nihon Univ. Coll. Agr. Vet. Med. Bull. 24:13-21. Mar.1967. 41.9 T5762
- 91816 OLEKSYUK, I. I. A study of the microflora of tuberculous foci and the interaction of microbes commonly associated with Mycobacterium tuberculosis in vitro. (Rus) Veterinariya [Kiev] 12:40-44. 1967. SF604.V44  
in cattle.
- 91817 OLSEN, P. M. Ketosis and feeding. (Da) Danske Dyrægefor. Medlemsbl. 50(12):502-507. Ref. June 15,1967. 41.9 D23  
Dairy cows.
- 91818 OLUJIC, M., and others. Vibrionic abortion in cattle. (Se) Vet. Glas. 22(4):363-366. Ref. 1968. 41.8 J93  
B. Trbic, B. Markovic, and M. Ilic, joint authors. English summary.
- 91819 OMORI, T. Etiology, diagnosis, and prophylaxis of ephemeral fever and similar disease in cattle. (Ja) Jap. Vet. Med. Ass. J. 20(5):20-31. May 1967. 41.9 J275
- 91820 ONDERSCHEKA, K., and others. Occurrence of chronic hypomagnesemia in cattle in Austria. (Ge) Forderungsdienst 15(2):47-49. Feb.1967. 19 F75  
B. Laber, H. Szekeley, and K. Binder, joint authors.
- 91821 PANIN, A. M. Active electrodes for ionogalvanotherapy of cow Mastitis. (Rus) Veterinariya 8:97-98. Aug.1967. 41.8 V6426
- 91822 PANNWITZ, S. Use of an improved pipette device in serological examination of blood samples for brucellosis. (Ge) Monatsh. Veterinarmed. 22(22):910-914. Ref. Nov.15,1967. 41.8 M742  
English summary.
- 91823 PAVUNA, H., and SIMUNIC, B. Study of the occurrence and role of the retention of placenta in cattle on farms. (Se) Vet. Glas. 22(4):379-388. Ref. 1968. 41.8 J93  
English summary.
- 91824 PERKUCIN, R., and ZIVKOVIC, V. A contribution to the treatment of ovarian cysts in cattle with the intrauterine application of high amounts of stilbestrol. (Se) Vet. Glas. 22(4):389-392. Ref. 1968. 41.8 J93  
English summary.
- 91825 PETELA, L. The mandibular ganglion, tympanic chord and lingual nerve in the cow. Folia Morphol. 26(1):95-103. 1967. 444.8 F71Ae
- 91826 PETRAITIS, I. P., and others. Correlation between viability of cows and their weight at birth. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 6:66-68. Ref. June 1967. 20 V633  
V. A. Zhal'nieryus, E. V. Sargautiene, A. Yu. Savukinas, A. K. Naginionite, Yu. Yu. Grumishlis, and A. Yu. Norkus, joint authors.
- 91827 PICART, P., and CALVET, H. Measure of body fluids spaces in west-African cattle; methods and results. (Fr) Rev. Elevage Med. Vet. Pays Trop. (n.s.)20(2):311-327. Ref. 1967. 41.8 R3262  
English summary.
- 91828 PLASIL, S., VACEK, F., and ZHRUBSKY, V. Plisnova onemocneni kuze u hoveziho dobytku [Dermatitis in cattle]. (Cz) Zajmova Aktual. Listovka MZLH 12,30 p. 1966. S16.C95Z3
- 91829 PONOMAREVA, G. V. The contents of cholesterol in the body of the cow and its fetus. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 10(4):59-60. 1967. 442.8 N22
- 91830 POP, M. Observations on the mass poisoning of cattle with sugar beet tops. (Rum) Inst. Agron. Dr. Petru Groza. Lucrari Stiint. Ser. Med. Vet. Zootehnie 21:105-110. Ref. 1965, pub.1966. SF604.15
- 91831 POPA, V. V. Correlation between the value of serum calcium, inorganic phosphorus and magnesium levels and cattle fertility, gestation and parturition. (Rum) Rev. Zootech. Med. Vet. 17 (10):48-59. Oct.1967. 49 P943
- 91832 POPE, L. S. What's the future for pre-conditioned calves? Cattleman 54(6):40,60. Nov. 1967. 49 C29  
Protection against diseases.
- 91833 POPLUHAR, L. Clinical and laboratory observation of cattle at immunization with M. vaccine. (Cz) Folia Vet. 10(1):83-92. Ref. 1966. 41.8 F712  
English summary.  
Against tuberculosis.

- 91834 POPLUHAR, L., SULA, L., and VRTIAK, O. J. The effect of different tuberculo-protein concentrations on the size of allergic thickenings. (Cz) *Folia Vet.* 10(2):197-202. 1966. 41.8 F712  
English summary.  
Studies with cattle and guinea pigs.
- 91835 POPLUHAR, L., and others. Statistical evaluation of the results of simultaneous tuberculin tests performed on cattle. (Cz) *Folia Vet.* 10(2):185-195. Ref. 1966. 41.8 F712  
L. Sula, E. Svandova, and O. J. Vrtiak, joint authors.  
English summary.
- 91836 POPLUHAR, L., and KAPITANCIK, B. Tuberculin testing of cattle simultaneously with avian and mammal tuberculin. (Cz) *Folia Vet.* 10(1):93-101. Ref. 1966. 41.8 F712  
English summary.
- 91837 PRYOR, W. J., and BUTTERFIELD, R. M. Gross energetic efficiency of the edible carcass tissue growth of calves. *Australian Vet. J.* 43(4):145-146. Ref. Apr. 1967. 41.8 Au72  
Studied by dissection.
- 91838 RAVE VALENCIA, G. Bovine trypanosomiasis. II. Preliminary study of hematological response to *Trypanosoma vivax* infection. (Sp) *ICA (Inst. Colombiano Agropecuar.) Rev.* 2(2):93-100. Ref. June 1967. S15.I592  
English summary.
- 91839 REMENNYK, I. A. Using bile in treatment of trichomoniasis in cattle. (Uk) *Visn. Sil's'hopod. Nauk.* 1:115-118. Jan. 1967. 20 V82  
Russian summary.
- 91840 RHOADES, K. R., HEDDLESTON, K. L., and REBERS, P. A. Experimental hemorrhagic septicemia: gross and microscopic lesions resulting from acute infections and from endotoxin administration. *Can. J. Comp. Med. Vet. Sci.* 31(9):226-233. Ref. Sept. 1967. 41.8 C162  
In calves.
- 91841 RICE, C. E., ALEXANDER, D. C., and BARRETT, B. B. Chromatographic studies of sera from calves vaccinated with *Brucella abortus*, strain 19. *Can. J. Comp. Med. Vet. Sci.* 31(5):114-121. Ref. May 1967. 41.8 C162
- 91842 ROSENBERGER, G. New realization in the control of grass tetany. (Ge) *Tierzuchter* 20(5):213-216. Apr. 1968. 49 T445  
In cattle.
- 91843 ROSENBERGER, G. Paretic and paralytic states resulting in the "downer-syndrome" in cattle after use of systemic preparations for warble fly eradication. (Ge) *Deut. Tierarztl. Wochenschr.* 74(23):603-605. Ref. Dec. 1, 1967. 41.8 D482  
English summary.
- 91844 ROTH, H. H. A survey of brucellosis in game animals in Rhodesia. *Bull. Epizoot. Dis. Afr.* 15(2):133-142. Ref. June 1967. 41.8 B872  
Possible transmission of the disease to cattle in Africa.
- 91845 RUITENBERG, E. J., KROES, R., and BERKENS, J. Histological studies of the prostate in checking the administration of oestrogens in the veal calf. (Du) *Tijdschr. Diergeneesk.* 92(12):819-827. June 15, 1967. 41.8 T431  
English summary.
- 91846 ST- LAURENT, G. J., and BRISSON, G. J. Changes in color and pigment content of skeletal muscles of veal calves due to age, and to iron and desferrioxamine supplementation when measured by biopsy technique. *J. Anim. Sci.* 26(6):1283-1287. Nov. 1967. 49 J82
- 91847 SAITO, Y. Pathological findings of cattle infected with "Hokken" virus. (Ja) *Jap. Vet. Med. Ass. J.* 20(5):33-34. May 1967. 41.9 J275  
Ephemeral fever.
- 91848 SANCHEZ GARCIA. Disturbances of the abomasum. (Sp) *Lerida Pecuar. (ser. 4)* 7:4-7, 10-15, 17-19. Sept. 1966. 41.8 L56  
Of cattle.
- 91849 SCHMIDT, H. P. Untersuchungen über das Vorkommen von Augenwürmern Thelazien beim Rind im Einzugsbereich des Schlachthofes Hannover [Investigations on the occurrences of eyeworms (*Thelazia* spp) in cattle in the catchment area of Hannover slaughterhouse]. Hannover. Tierarztl. Hochschule. Inaug.-Diss. 48, 32 p. 1966. 41.2 H198  
Bibliography, p. 26-32.
- 91850 SCHOMBERG, D. W., COUDERT, S. P., and SHORT, R. V. Effects of bovine luteinizing hormone and human chorionic gonadotrophin on the bovine corpus luteum in vivo. *J. Reprod. Fertil.* 14(2):277-285. Ref. Oct. 1967. 442.8 J8222
- 91851 SCHVARG, F. Water, sodium and potassium in myometrium of cows during gravidity, parturition and puerperium. (Cz) *Folia Vet.* 10(2):95-102. Ref. 1966. 41.8 F712  
English summary.
- 91852 SHUMAKOVICH, E. E., and SOSIPATROV, G. V. Effect of cattle housing conditions on infection by helminths. (Rus) *Zhivotnovodstvo* 6:83-85. June 1967. 49 Z6
- 91853 SILOVE, E. D., INOUE, T., and GROVER, R. F. Comparison of hypoxia, pH, and sympathomimetic drugs on bovine pulmonary vasculature. *J. Appl. Physiol.* 24(3):355-365. Ref. Mar. 1968. 447.8 J825
- 91854 SILVA, R. A. DA, and GIOVINE, N. New outbreaks of Aujeszky's disease in the State of Minas Gerais. III. The passage of Aujeszky's virus by blood in the spontaneous disease of a bovine. (Por) *Pesquisa Agropecuar. Brasil.* 1:71-72. 1966. S15.P42  
English summary.
- 91855 SILVA, R. A. DA, and GIOVINE, N. New outbreaks of Aujeszky's disease in the State of Minas Gerais. IV. The transmission of the Aujeszky's virus by placental route in the spontaneous disease of a bovine. (Por) *Pesquisa Agropecuar. Brasil.* 1:73-74. 1966. S15.P42  
English summary.
- 91856 SIRBU, Z., and others. Epizootologic study of enzootic leucosis in cattle. (Rum) *Rev. Zooteh. Med. Vet.* 17(10):29-35. Ref. Oct. 1967. 49 P943  
T. Negrutiu, G. Paunescu, G. Moldovan, D. Barbu, E. Voinov, S. Sirbulescu, I. Ciprian, and I. Turculeu, joint authors.
- 91857 SKVARUK, V. S., and GZHYTS'KYI, S. Z. Biosynthesis of hexosamines in the mucosa of cattle rumen. (Uk) *Ukr. Biokhim. Zhur.* 40(1):72-75. Ref. 1968. 385 Uk72  
English summary.
- 91858 SKYRME, H. P. Learning to live with metabolic diseases in beef cattle. *New Zeal. J. Agr.* 114(1):23, 25. Jan. 1967. 23 N48J
- 91859 SLESINGER, L. The influence of pregnancy on the activity of some enzymes (GOT, GPT, LAP, ALD, LDH, MDH) and on bilirubin in cows and newborn calves. (Cz) *Czech. Min. Zemedel. Lesniho Hospodar. Ustav Vedeckotech. Inform. Vet. Med.* 40(2):101-106. Ref. Feb. 1967. 41.9 C333  
English summary.
- 91860 SMILEVSKI, S. The role of water in cattle raising. (Se) *Sovremeno Zemjod.* 13(8):16-18. Aug. 1966. S13.S6  
Water in cattle physiology and sanitation.
- 91861 SMITH, A., WHEELOCK, J. V., and DODD, F. H. The effect of milking throughout pregnancy on milk secretion in the succeeding lactation. *J. Dairy Res.* 34(2):145-150. Ref. June 1967. 44.8 J823
- 91862 SMITH, B. Farmers can help testing scheme to run smoothly. *New Zeal. J. Agr.* 114(3):29. Mar. 1967. 23 N48J  
Identifying tuberculin tested cattle.
- 91863 SOBKÓ, A. I., and others. Studies of the detection and typing of foot-and-mouth disease virus by means of the fluorescent antibody technique. (Rus) *Vop. Virusol.* 3:333-336. 1967. 448.8 P942  
V. N. Prokhorov, R. V. Shvetsova, and Kh. Kravets, joint authors.  
English summary.



- 91864 SOKOL, J. Experiences at using Bubulin for treatment of pulmonary helminthiasis in ruminants. (Cz) *Folia Vet.* 10(1):159-165. Ref. 1966. 41.8 F712  
English summary.  
Cattle.
- 91865 SPOONER, R. L. The cattle blood typing service. *Great Brit. Agr. Res. Counc. Anim. Breeding Res. Organ. Rep.* Jan. 1968:40-45. 49.9 G7962
- 91866 STEINER, H., and AUER. Experiences in the detection of udder infected cows by means of different investigation methods. (Ge) *Osterr. Milchwirt.* 22(10):165-167, 170-172. May 21, 1968. 44.8 Os72  
English summary.
- 91867 STILES, M. E. The isolation of two strains of *Staphylococcus aureus* bacteriophage. *S. Afr. J. Agr. Sci.* 10(3):861. Sept. 1967. 24 Su3  
From cattle.
- 91868 STONE, B. F. Brain cholinesterase activity and its inheritance in cattle tick (*Boophilus microplus*) strains resistant and susceptible to organophosphorus acaricides. *Australian J. Biol. Sci.* 21(2):321-330. Ref. Apr. 1968. 44.8 Au72
- 91869 STONE, B. F. Inheritance of resistance to organophosphorus acaricides in the cattle tick, *Boophilus microplus*. *Australian J. Biol. Sci.* 21(2):304-319. Ref. Apr. 1968. 44.8 Au72  
Dioxathion, carbophenothion, and formothion.
- 91870 SUBBA RAO, T., and PRASAD, M. R. Studies on transmission and treatment of *Aspergillus* affections in bovines. *Andhra Agr. J.* 14(4):127-130. 1967. 34.2 AN4
- 91871 SURYNEK, J., and JANCIK, J. Postnatal development of esterized fatty acids in the blood of calves. (Cz) *Czech. Min. Zemedel. Lesního Hospodar. Ustav Vedeckotech. Inform. Vet. Med.* 40(10):581-585. Oct. 1967. 41.9 C333  
English summary.
- 91872 SUTTA, J., and ORSAG, A. The effect of thiopentobarbital anaesthesia on sodium and calcium level in the blood serum of cattle. (Cz) *Folia Vet.* 10(1):133-142. 1966. 41.8 F712  
English summary.
- 91873 SWARBRICK, O. Milk fever in cows calving for the second time: a report of seven cases. *Veterinarian (Oxford)* 5(1):43-50. Ref. Jan. 1968. 41.8 V6467
- 91874 SWART, J. A., NIEMANN, P. J., and OLIVER, E. J. The rate of passage of three hays through the alimentary tract of cattle and sheep. *S. Afr. Soc. Anim. Prod. Proc.* 5:58-60. 1966. 49.9 So822  
Lucerne, *Themeda triandra*, and *Eragrostis curvula* hays.
- 91875 SZENT-IVANYI, T. Eradication of brucellosis in cattle and swine herds. (Hu) *Magyar Mezőgazdaság* 22(13):16-17. Mar. 29, 1967. 19 M27
- 91876 TAMATE, H., and others. Occurrence of rumen parakeratosis in the cattle fed high-concentrate ration. (Ja) *Jap. J. Zotech. Sci.* 38(4):148-153. Ref. Apr. 1967. 49 N62  
S. Yoneya, O. Itakawa, I. Nishimatsu, and F. Kumeno, joint authors.  
English summary.  
In Japan.
- 91877 TANDON, H. S., and SEHGAL, D. V. Spotlight on some animal health factors. *Gosamvardhana* 15(11):16-20. Feb. 1968. 43.8 G69  
Chiefly cattle, in India.
- 91878 TENSCHERT, H. Experiences in tetanus treatment of cattle with known and unknown infection points. (Ge) *Blauen Hefte Tierarzt* 35-26-27. Oct. 1967. 41.9 B61
- 91879 THOMAS, D., and KLATTE, F. Digestive disturbances in cattle. *Ark. Cattle Bus.* 5(1):18. Jan. 1968. 43.8 Ar43  
Resulting from feeding concentrates.
- 91880 THOMPSON, L. E. From idea to reality. *Ext. Serv. Rev.* 39(5):6-7. May 1968. 1 Ex892Ex  
Extension program chiefly for disease prevention of Iowa cattle.
- 91881 THOMPSON, W. H., and HOUSTON, B. A. Variations in isolations of pathogenic bacteria from the udders of cows during a six-month period. *Australian Vet. J.* 44(2):68-71. Feb. 1968. 41.8 Au72
- 91882 THORNTON, R. H., SHIRLEY, G., and SALISBURY, R. M. A nephrotoxin from *Aspergillus fumigatus* and its possible relationship with New Zealand mucosal disease-like syndrome in cattle. *New Zeal. J. Agr. Res.* 11(1):1-14. Ref. Feb. 1968. 23 N4892  
Kidney disease; tests with mice and sheep.
- 91883 TOP, W., VERDONCK, M., and PAREDIS, F. A comparison of two treatments for parasitic bronchitis in cattle. (Fl) *Vlaams Diergeneesk. Tijdschr.* 36(5):257-261. May 1967. 41.8 V84  
English summary.  
Tetramisole and a combination of diethylcarbamazine and cyanacethydrizide.
- 91884 TRBOJEVIC, G., and others. The effect of the age of heifers at first conception on fertility, milk production and weight of calves. (Se) *Vet. Glas.* 22(4):405-411. Ref. 1968. 41.8 J93  
M. Gligorovic, S. Milosavljevic, S. Antic, D. Labudovic, and B. Radovic, joint authors.  
English summary.
- 91885 TUTUSHIN, M. I. Antibody detection in blood and milk serum recovered from cows after theileriosis. (Rus) *Veterinariya* 3:60. Mar. 1967. 41.8 V6426
- 91886 TUTUSHIN, M. I. Specific therapy of cattle theileriosis. (Rus) *Veterinariya* 8:71-72. Aug. 1967. 41.8 V6426
- 91887 ULBRICH, F. Etiology of leukosis of cattle. (Ge) *Wien Tierarztl. Monatsschr.* 54(11):728-737. 1967. 41.8 T345  
Review of the literature.
- 91888 USHLJIMA, J., and YUASA, R. Administration of glycuronic acid and its excretion in dairy cows. (Ja) *Jap. Vet. Med. Ass. J.* 21(2):79-81. Feb. 1968. 41.9 J275  
English summary.
- 91889 VECHERKIN, S. S. From the practice of cattle hadmosporidiasis control. (Rus) *Veterinariya* 8:69-70. Aug. 1967. 41.8 V6426
- 91890 VODRAZKA, J., GAMCIK, P., and SEVCIK, A. Informatory observation of the cervix-relaxing effect of Honvan and Efodin in cows. (Cz) *Folia Vet.* 10(2):143-149. 1966. 41.8 F712  
English summary.
- 91891 VOL'NOV, V. Methods of supplying calves with vitamins, under dry climatic conditions along the Volga River. (Rus) *Sel'skokhoz. Proizvodstvo Povolzh'ya* 9:29. Sept. 1967. 281.8 Se4  
Physiological study.
- 91892 WADSWORTH, J. A. Planned herd health. *Agway Coop.* 3(5):13-14. July 1967. 280.28 Ag9  
Vermont.
- 91893 WALDHALM, D. G. Calf scours research at the Caldwell Veterinary Laboratory. *Idaho Agr. Res. Progr. Rep.* 139:17-27. May 1968. S53.E2
- 91894 WEIGT, U. The diagnosis of chronic mycotic mastitis. (Ge) *Deut. Tierarztl. Wochenschr.* 74(24):622-635. Ref. Dec. 15, 1967. 41.8 D482  
English summary.  
Cattle.
- 91895 WEIGT, U., and FRERKING, H. Distribution of peracute mastitis due to insufficiently cleaned milking machines. (Ge) *Deut. Tierarztl. Wochenschr.* 74(23):610-612. Dec. 1, 1967. 41.8 D482  
English summary.
- 91896 WENIGER, J. P., EHRHARDT, J. D., and FRITIG, B. Testosterone and androstenedione secretion by fetal testes of calf cultivated in vitro. (Fr) *Acad. Sci. Compt. Rend. Ser. D.* 264(15):1911-1912. Apr. 10, 1967. 505 P21
- 91897 WHELOCK, J. V., SMITH, A., and DODD, F. H. The effect of a temporary suspension of milking in mid-lactation on milk secretion after the resumption of milking and in the following lactation. *J. Dairy Res.* 34(2):151-161. June 1967. 44.8 J823

- 91898 WIESENHUTTER, E. Control of trypanosomiasis on Dar es Salaam dairy farms. III. The effect of 0.5 and 1.0 mg/kg bodyweight dosages Samorin in a field trial comparison. (Ge) Berliner Munchener Tierarztl. Wochenschr. 81(6): 109-111. Mar.15,1968. 41.8 B45  
English summary.
- 91899 WILSON, A. O. Proposals by the U.S. Livestock Sanitary Association on brucellosis eradication. Nat. Brucell. Comm. Proc. 1966: 38-41. aSF809.B8N3  
Cattle and swine.
- 91900 WILTBANK, J. N. Modification of ovarian activity in the bovine following injection of oestrogen and gonadotrophin. J. Reprod. Fert. Suppl. 1:1-8. 1966. 442.8 J8222 Suppl.  
Includes discussion.
- 91901 WITT, M. No health damage to dairy cattle through proper N fertilizing! (Ge) Mitt. Deut. Landwirt.-Ges. 83(21):818,820,822,824. May 23,1968. 18 N39
- 91902 WITT, J. M., WHITING, F. M., and BROWN, W. H. Respiratory exposure of dairy animals to pesticides. Advances Chem. Ser. 60:99-109. Ref. 1966. 381 Ad93  
DDT.
- 91903 YAMAMOTO, M., and others. A survey on sub-clinical infection with bovine epizootic fever. (Ja) Jap. Vet. Med. Ass. J. 20(8):338-342. Aug.1967. 41.9 J275  
S. Fukabori, S. Komiya, H. Mitsuda, K. Kogaya, Y. Koda, Y. Abe, K. Matsumoto, and T. Omori, joint authors.
- 91904 YUSEN, T., ISHIGURO, S., and INAGUCHI, T. Kasugamycin for treatment of bacillary diseases in cattle. (Ja) Jap. Vet. Med. Ass. J. 20(10):430-432. Oct.1967. 41.9 J275
- 91905 YUSEN, T., ISHIGURO, S., and INAGUCHI, T. Outbreaks of parainfluenza-3 among native cattle on pasture. (Ja) Jap. Vet. Med. Ass. J. 20(4):23-29. Apr.1967. 41.9 J275  
English summary.
- 91906 ZARAZA OROZCO, H. First verification of *Meistocirrus digitatus* in Colombia. (Sp) ICA (Inst. Colombiano Agropecuario.) Rev. 2(2):113-118. June 1967. S15.1592  
English summary.  
Nematode in cattle.
- 91907 ZIELINSKI, H. Zur Bedeutung der regelmassigen Untersuchung der sogenannten Fleischlymphknoten bei Rind und Schwein unter besonderer Berücksichtigung der Not- und Krankschlachtungen [The importance of regular investigation of the so-called meat lymph nodes of cattle and swine with special emphasis on emergency and disease slaughtering]. Hanover. Tierarztl. Hochschule. Inaug.-Diss. 58,139 p. 1966. 41.2 H198  
Bibliography, p.133-138.
- 91908 ZIMBELMAN, R. G. Effects of progestagens on ovarian and pituitary activities in the bovine. J. Reprod. Fert. Suppl. 1:9-19. Ref. 1966. 442.8 J8222 Suppl.  
Progesterone, medroxyprogesterone acetate, and melengestrol acetate.  
Includes discussion.
- Miscellaneous
- 91909 ADMIN, E. I., MIGACHEVA, N. A. Selecting cows for mechanical milking. (Rus) Zhivotnovodstvo 6:80-83. June 1967. 49 Z6
- 91910 ALEKSIEV, A. I., and VANKOV, K. Correlation between live weight and milk production in cows. (Bu) Zhivotnovudni Nauk. 4(3):19-26. Ref. 1967. 49 Z65  
English summary.  
Red Danish.
- 91911 ALIM, K. A. Repeatability of milk yield and length of lactation of the milking buffalo in Egypt. Trop. Agr. [St. Augustine] 44(2):159-163. Ref. Apr.1967. 26 T754
- 91912 AMARAL-PAIVA, J. DO. Aspects of beef cattle raising in the Limpopo colonization area. (Por) Mozambique. Serv. Vet. An. 10:353-360. 1962, pub. 1966. 41.9 M872
- 91913 ANDERSEN, P. E., and HANSEN, H. E. He-larsforsog med kvaeg [Full year trials with cattle]. VII. Denmark. Statens Husdyrbrugsudvalg Landokon. Forsogslab Beretn. 358,63 p. 1967. 104 D41  
Milk yields.
- 91914 APPLEMAN, R. D., and CARTLIDGE, C. DHIA [Dairy Herd Improvement Association] record analysis shows little variation in daily milk and total lactation yield. Calif. Agr. 21(6):12. June 1967. 100 C12Cag
- 91915 ARMSTRONG, D. L. Freeze branding. Agr. Northern Ireland 42(9):305-307. Jan.1968. 256.13 Ag82M  
For dairy cattle.
- 91916 ARNOLD, H. The influence of some environmental factors on the milk production of a dairy cattle herd. (Ge) Tierzucht 22(2):71-72. Feb.1968. 49 T443  
In East Germany.
- 91917 BAKER, S. Introduction and expansion of cattle in the United States of America. (Ge) Z. Agrargesch. Agrarsoziol. 15(2):176-193. Ref. Oct.1967. 30.98 Z3
- 91918 BARANOWSKA, A. Influence of biometeorological factors on yields of cow's milk. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25: 297-298. 1966, pub. 1967. 20.5 St4  
English summary.
- 91919 BATALIN, M. The problem of cowsheds without bedding. (Pol) Nowe Holn. 16(1):12-13. 1967. 20.5 N86
- 91920 BAYOUMI, M. S., and KHALIFA, H. A. Yield and composition of milk of the Sudanese cow as affected by the age of the cow. Indian J. Dairy Sci. 19(4):167-171. Ref. Dec.1966. 44.8 In28
- 91921 BLAINE, H. Production testing - dairy cattle. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:216-218. 64.9 On83
- 91922 BOCKENHOFF, E. Investigation on the economic importance and the selection value of various production characters in cattle. 1. Aspects of market economy concerning the production of milk protein and milk fat. (Ge) Zuchtungskunde 40(1):6-17. Jan./Feb.1968. 49 Z8  
English summary.
- 91923 BOLDUAN, G. Influencing the P<sub>3:1</sub>-value in quantitative milk results. (Ge) Arch. Tierzucht 10(5):333-345. Ref. 1967. 49 Ar23  
English summary.
- 91924 BRADBURY, C. J., and MACLEAN, T. N. Association test report; increased output from larger herds. Dairyfarming Dig. 14(1):23-24. Feb.1967. 44.8 D1443
- 91925 CERSOVSKY, H., and SONNTAG, S. Hygienic milk production in the pasture. (Ge) Tierzucht 22(2):68-70. Feb.1968. 49 T443  
In East Germany.
- 91926 CHAUHAN, M. C. How to dairy-farm in five acres. Intensive Agr. 4(11):17-19, 23. Jan. 1967. 22 In8  
India.
- 91927 COBB, E. H. Beef cattle research in the Department of Animal Sciences. Hawaii. Univ. Ext. Misc. Publ. 45:34-36. Aug.26,1967. S544.3.H3H3
- 91928 CRAWFORD, R. Culling for future fertility. New Zeal. Meat Prod. 11(12):40. Sept.1,1967. 50.8 N48  
Beef cattle and sheep.
- 91929 DIMOVSKI, M. The milking of cattle. (Se) Sovremeno Zemjod. 14(5):14-15. May 1967. S13.S6  
Effect of milking on milk production.
- 91930 DOMINIONE, C. The Common Market is already in effect at the Ceppeda dairy farm. (It) Esso Agr. 17(6):12-13. Dec.1,1967. 58.8 Es7  
Modernization by mechanization in Italy.
- 91931 DYREND AHL, I. Setting prices of calves for phenotype testing. (Sw) Svensk Husdjurskotsfel Ladugard. 12:457-458. Dec.1967. 44.8 L12



- 91932 ELLER, A. L. Using production records in a breeding program. Va. Angus Ass. Handbook 1968:33-35. SF199.A14V5
- 91933 ENGERBRETSEN, O. Mastitis without microbes. (No) Buskap Avdratt 3:187-189. 1967. 49 B96  
In milk.
- 91934 GALLAGHER, P. N.Z. gift heifers and animal husbandry in Ceylon. New Zeal. J. Agr. 114 (5):64-65,67,69. May 1967. 23 N48J  
To improve the dairy industry.
- 91935 GRAVIR, K., and HICKMAN, C. G. Control of seasonal effect in the regression of first-lactation yield on age of dairy cattle. Acta Agr. Scand. 17(4):174-184. 1967. 11 Ac82
- 91936 GUYER, P. Q., and HOWE, C. Should you precondition feeder cattle? Nebr. Univ. Coll. Agr. Home Econ. Quart. Serving Farm Ranch Home 14(4):11-13. Winter 1968. 100 N27N
- 91937 HAUGE, I. A gigantic experimental lay-out. (No) Norsk Landbruk 3:12-13. Feb.9,1968. 11 N8122  
Dairy farm in the Netherlands.
- 91938 HECK, H. Der bison (Bison bison L.) [The bison (Bison bison L.)]. Neue Brehm-Bucherei 378,63 p. Ref. 1968. 409 N392
- 91939 HENSEL, H. Farms management aspects in keeping and raising young cattle and steps toward production rise. (Ge) Monatsh. Veterinarmed. 22(22):881-886. Ref. Nov.15,1967. 41.8 M742  
English summary.
- 91940 HORSTA, A. Milk records of the southern part of the county, 1965-1966. (Sw) Kalmar Lans Hushallingssallsk. Tidskr. 2:16-17. Apr.1967. 11 K123
- 91941 IDAHO. AGRICULTURAL EXPERIMENT STATION. CALDWELL BR. 41st annual Beef Cattle Research Field Day. Idaho Agr. Res. Progr. Rep. 139,34 p. May 1968. S53.E2
- 91942 IDVALL, S. Milk records of the northern part of the county, 1965-1966. (Sw) Kalmar Lans Hushallingssallsk. Tidskr. 2:15-16. Apr.1967. 11 K123
- 91943 JAMES, C. K. Calf-rearing - how to make it profitable. Gosamvardhana 15(11):21-25,27-28. Feb.1968. 43.8 G69
- 91944 JAMES, M. Performance testing - beef cattle. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:219-221. 64.9 On83
- 91945 JORGENSEN, N. A., and KLEEN, E. J. Milk production. S. Dak. State Univ. Ext. FS 403, 6 p.-folder. Mar.1968. 275.29 So85Fs
- 91946 JOVANOVIC, R., MARKOVIC, B., and MILJKOVIC, V. The causes for culling the cattle on a cattle farm; preliminary report. (Se) Vet. Glas. 22(4):419-420. 1968. 41.8 J93  
English summary.
- 91947 KHALIFA, H. A. Yield and composition of milk of the Sudanese cow as affected by the stage of lactation and season of calving. Indian J. Dairy Sci. 19(4):172-177. Ref. Dec.1966. 44.8 In28
- 91948 KOCH, C. R. The preconditioning picture. Farm Quart. 23(3):82-85,92,94. Summer 1968. 6 F22995  
Beef calf management and disease control.
- 91949 KOOPMANS, T., and SPOELSTRA, S. Machine milking. (Du) Neth. Prov. Dir. Rijkslandbouwvoorlichting Friesland. Voorlichting Onderz. Grasland Veehouderij 1965:34-37. 1966. SF15.N4A3
- 91950 LINN, A. Raising calves on the Honour system. Farm Quart. 23(3):70-73. Summer 1968. 6 F22995
- 91951 MARTINS, J. N. DE O. Possibilities for beef cattle raising in the agrarian improvement of the Mossurize region. (Por) Mozambique. Serv. Vet. An. 10:367-376. 1962, pub.1966. 41.9 M872
- 91952 MICHELS, H. Possibilities and problems of animal production in the Tropics. Int. Congr. Nutr. Proc., 7th Congr., v.4:906-912. Ref. 1966, pub.1967. TX345.I53 1966  
Beef and milk productivity of cattle and possibilities of expanding beef and sheep production in the Congo.
- 91953 MOELDER, A. Development of cattle husbandry in the Estonian Republic, U. S. S. R. (Ge) Tierzucht 21(11):550-552. Nov.1967. 49 T443
- 91954 NEIMANN-SORENSEN, A., and others. Experiments with machine milking with or without stripping in relation to yield, udder health and time used. (Da) Denmark. Statens Husdyrbrugsudvalg. Landokon. Forsogslab. Beretn. 353:19-23. 1966. 104 D41  
S. M. Nielsen, H. E. Hansen, N. O. Kjastrup, and P. S. Madsen, joint authors.
- 91955 NEW SOUTH WALES. DEPT. OF AGRICULTURE. DIV. OF DAIRYING. Official production records of pure bred registered dairy cows in New South Wales for the year ended 30th June, 1967-volume No. 32-and register of merit results from July 1, 1966 to June 30, 1967. Sydney, 1968? 389 p. 43.9 N47R
- 91956 NIELSEN, E., and HINKS, C. J. M. Malkbarhed af ydelse; undersogelse fra afkomsprovestationerne [Milkability and yields; investigations from progeny testing stations]. Denmark. Statens Husdyrbrugsudvalg Landokon. Forsogslab. Beretn. 357,48 p. Ref. 1967. 104 D41  
English summary.
- 91957 ODEGARD, A. K. Varying milking intervals does not significantly reduce yield. (No) Buskap Avdratt 2:94-95. 1967. 49 B96
- 91958 OLSON, R. A. Changes in Kansas livestock production. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Apr.18,1967,2 p. HD9004.A1K3  
Cattle and swine farm size.
- 91959 OREGON. AGRICULTURAL EXPERIMENT STATION. Summary of reports; tenth annual Beef Cattle Day. Oreg. Agr. Exp. Sta. Spec. Rep. 253,23 p. May 1968. 100 Or3M
- 91960 OSCARSSON, G. Increase yield per dairy; cow can be explained in many ways. (Sw)<sup>2</sup> Svensk Husdjurskotsel Ladugard. 9:342-344. Sept.1967. 44.8 L12
- 91961 PAISANA, F. C. Possibilities for meat production in the hot and humid regions of Mozambique. (Por) Mozambique. Serv. Vet. An. 10:393-404. Ref. 1962, pub.1966. 41.9 M872  
Value of the triple-purpose water buffalo in this climate.
- 91962 PATON, W. S. Breeding, feeding, production, a good start to a good lactation. Milk Board J. 19(3):17,19. Mar.1968. 44.8 M5934  
Dairy cattle in Australia.
- 91963 PENNER, E., and WALTER. Cooperation relations in young cattle rearing in Niederschona, Freiberg district. (Ge) Tierzucht 21 (6):284-287. June 1967. 49 T443
- 91964 PITMAN, R. F. Backyard calf rearing. Dairy-farming Dig. 15(1):30-32. Jan./Feb.1968. 44.8 D1443
- 91965 RANCK, W. A. Beef cattle production vs. inflation. Tex. Livestock J. 26(11):6,25-26. Nov.15,1967. 49 T29  
Costs of production.
- 91966 RIBEIRO, J. A. Possibilities for encouraging the production of beef cattle among the less-developed producers, through production co-operatives. (Por) Mozambique. Serv. Vet. An. 10:385-391. 1962, pub.1966. 41.9 M872  
In Mozambique.
- 91967 ROLLINS, W. C. Developing a meat index for beef cattle. Calif. Agr. 21(5):15-16. May 1967. 100 C12Cag
- 91968 ROOS, A. Reorganization of the supervisonal aspect of milk recording. (Sw) Svensk Husdjurskotsel Ladugard. 9:313-315. Sept. 1967. 44.8 L12
- 91969 ROSINHA, A. J. Possibilities for raising beef cattle in the arid regions of Sul do Save. (Por) Mozambique. Serv. Vet. An. 10:377-393. 1962, pub.1966. 41.9 M872  
Problems of water supply and of trypanosomiasis control.
- 91970 SALKELD, J. N. Irrigation dairying in the South Western Riverina. Dairy Top. 12(6):3-7. Nov./Dec.1967. 44.8 D1444

- 91971 SANNE, S. Proper milking is more economical. 1. (Sw) Var Naring 44(8):8-9. 1967. 44.8 M692  
Milking machines, operation and sanitation, and prevention of mastitis.
- 91972 SHALICHEV, YA. Dairy husbandry in Germany. (Bu) Zhivotnovudni Nauk. 4(3):119-120. 1967. 49 Z65
- 91973 SHAMANOVA, G. P. Characteristics of staphylococcus strains isolated from various origins. (Rus) Veterinariya 3:27-29. Mar. 1967. 41.8 V6426  
Lack of sanitation in milking.
- 91974 SILVA-COSTA, A. C. DA. Beef cattle production in the region of Manica (Chimoio). (Por) Mozambique. Serv. Vet. An. 10:405-411. 1962, pub. 1966. 41.9 M872
- 91975 SMILEVSKI, S. Machine milking of cows. (Se) Sovremeno Zemjod. 13(1):14-16. Jan. 1966. S13.S6
- 91976 SMILEVSKI, S. The production of quality and sanitary milk. (Se) Sovremeno Zemjod. 13(11):13-15. Nov. 1966. S13.S6
- 91977 SMITH, A. M. Making a profit on growing dairy calves. Vt. Farm Home Sci. 10(2):8-9. Winter 1968. 100 V593  
Meat production.
- 91978 SMITH, W. R. Beef production in the north. Great Brit. Min. Agr. Fish. Food. Agr. 73(12):571-575. Dec. 1966. 10 G79J
- 91979 STACHURKA, R. Intensification of cattle raising. (Pol) Nowe Roln. 16(3):4-5. 1967. 20.5 N86
- 91980 TELES-CUNHA, J. DA C. Aspects of meat supply in the area of Angonia for the City of Beira and other northern centers. (Por) Mozambique. Serv. Vet. An. 10:59-63. 1962, pub. 1966. 41.9 M872  
Beef cattle.
- 91981 THOMAS, W. B., MCREYNOLDS, K. L., and OVERLEY, F. L. Beef production on a business basis. I. Kans. State Univ. Ext. C-386, 20 p., map. Jan. 1968. 275.29 K13Ex
- 91982 THOMAS, W. B., and TREAT, J. L. Beef production on a business basis. II. Kans. State Univ. Ext. C-387, 15 p., map. Dec. 1967. 275.29 K13Ex
- 91983 VANTCHEVA, Z. Raising and fattening of bovines in Bulgaria during the last twenty years. (Fr) Mediterranea 16:282-288. Oct./Dec. 1967. 281.8 M462  
English summary.
- 91984 WALSH, W. A. Dairy beef—budgeting for live-weight gain. Milk Board J. 19(3):21. Mar. 1968. 44.8 M5934  
Rearing system in Australia.
- 91985 WEST OF SCOTLAND AGRICULTURAL COLLEGE. Calf rearing. West Scot. Agr. Coll. County Adv. Leaflet. 31, rev. 4 p. May 1967. 103 W52Ad

## DOGS AND CATS

### Breeds and Breeding

- 91986 BERKSON, G. Producing and hand-rearing kittens. Lab. Anim. Care 17(4):365-378. Aug. 1967. 410.9 P94
- 91987 MCKELVIE, D. H., POWELL, T. J., and LEE, S. Programming for computer storage, retrieval, and analyses of clinical chemistry data in a life-span study on Beagles. Lab. Anim. Care 17(5):494-500. Oct. 1967. 410.9 P94
- 91988 VELDEN, N. A. VAN DER. Fits in Tervuren Shepherd dogs: a presumed hereditary trait. J. Small Anim. Pract. 9(2):63-70. Ref. Feb. 1968. 41.8 J8292

### Feeds and Feeding

- 91989 GRANDE, F. Effect of dietary fats on the serum lipids of the dog. Int. Congr. Nutr. Proc., 7th Congr., v. 5:356-360. Ref. 1966, pub. 1967. TX345.I53 1966

- 91990 LANTEAUME, M. T., and others. Physiological effects on the dog of a highly unsaturated oil degraded by heat. (Fr) Rev. Franc. Corps Gras 15(2):71-79. Ref. Feb. 1968. 307.8 R32  
P. Ramel, P. Acker, A. M. Le Clerc, and C. Wirth, joint authors.  
English summary, p.105.

### Veterinary Medicine

- 91991 ABERNATHY, R. E., WITTE, M. H., and COLE, W. R. Visualization of the thoracic duct by inguinal lymphangiography in the dog - a new technique. Lab. Anim. Care 17(3):297-301. June 1967. 410.9 P94
- 91992 WADDELL, A. H. Further observations on Capillaria feliscati infections in the cat. Australian Vet. J. 44(1):33-34. Ref. Jan. 1968. 41.8 AU72
- 91993 AGRESTI, A., and GALATI, P. Contribution to the study of involutinal myelopathy: A case of agranulocytosis with thrombocytopenia in the dog. (It) Acta Med. Vet. 13(1/2):89-108. Jan./Apr. 1967. 41.8 Ac84  
English summary.
- 91994 AUSTRALIAN VETERINARY ASSOCIATION. Inherited defects in dogs and cats in Australia. Australian Vet. J. 43(6):221-224. Ref. June 1967. 41.8 Au72
- 91995 BANTIN, G. C., and MABER, D. F. Some parasites of the Beagle. Inst. Anim. Tech. J. 18(2):49-59. Ref. June 1967. QL55.15  
Includes pests.
- 91996 BERMAN, E., DAVIS, J., and STARA, J. F. A dental chart of the domestic cat (Felis catus L.). Lab. Anim. Care 17(5):511-513. Oct. 1967. 410.9 P94
- 91997 BRADNEY, I. W. Non-union of the anconeal process in the dog. Australian Vet. J. 43(6):215-216. June 1967. 41.8 Au72
- 91998 BUCHANAN, J. W. Kinked catheter: a complication in pneumocystography. Amer. Vet. Radiol. Soc. J. 8:54-56. 1967. 41.9 Am37  
Case of a dog.
- 91999 BURGISSER, H., and HINTERMANN, J. Cerebral lesion in a dog caused by foreign body from the nasal cavity. (Fr) Schweiz. Arch. Tierheilk. 109(10):537-538. Oct. 1967. 41.8 Sch9  
English summary.
- 92000 CALVARI, A. R., and LEONARDI, L. Hepatography with the use of the fluid medium Lipiodol through the spleen of the dog. (It) Clin. Vet. 90(8):375-379. Ref. Aug. 1967. 41.8 C61  
English summary.
- 92001 CHIBA, T., KATO, K., and NONO, K. A feline case of cryptococcosis taken for peritoneal neoplasm. (Ja) Jap. Vet. Med. Ass. J. 20(7):287-288, 280. July 1967. 41.9 J275
- 92002 CLINTON, J. M. A case of congenital pericardio-peritoneal communication in a dog. Amer. Vet. Radiol. Soc. J. 8:57-60. Ref. 1967. 41.9 Am37  
Diaphragmatic hernia.
- 92003 COLE, B. C., GOLIGHTLY, L., and WARD, J. R. Characterization of mycoplasma strains from cats. J. Bacteriol. 94(5):1451-1458. Ref. Nov. 1967. 448.3 J82
- 92004 CROFT, P. G. Neocortical astrocytoma in a dog. J. Small Anim. Pract. 9(2):83. Feb. 1968. 41.8 J8292
- 92005 DE LAHUNTA, A., and CUMMINGS, J. F. Neuro-ophthalmologic lesions as a cause of visual deficit in dogs and horses. Amer. Vet. Med. Ass. J. 150(9):994-1011. Ref. May 1, 1967. 41.8 Am3  
Total blindness.
- 92006 DRIEUX, H., VERETENNIKOFF, S., and CESAR, R. J. Observations on the comparison of radiology and pathology. V. Comparative study of the chondrosarcomatosis of the long bones of man and dog; histology and radiology. (Fr) Rec. Med. Vet. 143(6):523-546. June 1967. 41.8 R24  
English summary.



- 92007 DURAO, J. F. DA C., BRACO FORTE JUNIOR, M. D. C., and OLIVEIRA E SILVA, R. D. DE. Tuberculosis of domestic carnivores—a histopathological study. (Por) Lisbon. Escol. Super. Med. Vet. An. 8:93,95-112. 1966, pub. 1967. 41.9 L682  
English summary.  
Dogs and cats.
- 92008 EMERY, J. B., ELLIOTT, A. Y., and BORDT, D. E. A live modified rabies virus vaccine of tissue culture origin for dogs. Pract. Vet. 5: 155-158. Ref. Sept./Oct. 1967. 41.8 AL5
- 92009 ERHARDT, W. D. Versuche zur Übertragung von Mastzellentumoren des Hundes [Experiments for transmission of mast cell tumors of dog]. Munich. Univ. Tierarztl. Fak. [Inaug.-Diss.] 31,33 p. Ref. 1967. 41.2 M9222
- 92010 ERMOLOV, V. I. Experimental infection in puppies, caused by *Escherichia coli*. (Rus) Zh. Mikrobiol. Epidemiol. Immunobiol. 8:102-105. Aug. 1967. 448.3 Z4  
English summary.
- 92011 EVANS, P. J. Shoulder dysplasia in a Labrador. J. Small Anim. Pract. 9(2):55-58. Feb. 1968. 41.8 J8292
- 92012 FEDRIGO, M., and ORLANDINI, I. Hemorrhage in the hydronephrotic kidney of the dog. (It) Acta Med. Vet. 13(1/2):131-146. Jan./Apr. 1967. 41.8 Ac84  
English summary.
- 92013 FRY, P. D. Cervical spondylosis in the cat. J. Small Anim. Pract. 9(2):59-61. Feb. 1968. 41.8 J8292
- 92014 FURNEAUX, R. W. Successful recovery in a dog from a common brown snake (*Demansia textalis*) bite. Australian Vet. J. 43(4):147-148. Apr. 1967. 41.8 Au72
- 92015 GRIER, R. L. Quaternary ammonium compound toxicosis in the dog. Amer. Vet. Med. Ass. J. 150(9):984-987. Ref. May 1, 1967. 41.8 Am3
- 92016 GROULADE, J., and GROULADE, P. Electrophoresis in the diagnosis of nephritis in the dog. (Fr) Acad. Vet. France Bull. 40(10):479-487. Dec. 1967. 41.9 R24
- 92017 GROULADE, P., and GUILLON, J. C. Toxoplasmosis of the biliary and pancreatic area of the dog. (Fr) Acad. Vet. France Bull. 40(5): 221-225. May 1967. 41.9 R24
- 92018 HARDY, W. D., BRODEY, R. S., and RISER, W. H. Osteosarcoma of the canine skull. Amer. Vet. Radiol. Soc. J. 8:5-16. Ref. 1967. 41.9 AM37
- 92019 HARTING, J. Die Propanidid, Epontol WZ, Narkose beim Hund [Propanidid (Epontol WZ) narcosis of dog]. Hanover. Tierarztl. Hochsch. Inaug.-Diss. 32,46 p. Ref. 1966. 41.2 H198
- 92020 HARWOOD, M. L. Surgical correction of tibial epiphyseal aplasia in a kitten. Vet. Med./Small Anim. Clin. 62(6):529-532. June 1967. 41.8 M69
- 92021 HAYWARD, A. H. S. Thoracic effusions in the cat. J. Small Anim. Pract. 9(2):75-82. Ref. Feb. 1968. 41.8 J8292  
Especially suppurative pleurisy.
- 92022 HEARST, B. R. Low incidence of staphylococcal dermatitides in animals with high incidence of *Staphylococcus aureus*. 1. Preliminary study of cats. Vet. Med./Small Anim. Clin. 62(5): 475-477. May 1967. 41.8 M69
- 92023 HEARST, B. R. Low incidence of staphylococcal dermatitides in animals with high incidence of *Staphylococcus aureus*. 2. Preliminary study of dogs. Vet. Med./Small Anim. Clin. 62(6): 541-542. June 1967. 41.8 M69
- 92024 HONGO, K., and others. *Dirofilaria immitis* parasitic in the spinal cavity of a dog. (Ja) Jap. Vet. Med. Ass. J. 20(9):381,401. Ref. Sept. 1967. 41.9 J275  
K. Komatsu, S. Noda, and K. Kurokawa, joint authors.
- 92025 HUITEMA, H., and JAARTSVELD, F. H. J. *Mycobacterium microti* infection in a cat and some pigs. Antonie van Leeuwenhoek J. Microbiol. Serol. 33(2):209-212. 1967. 448.8 N28A
- 92026 IBADULLAEV, F. Changes induced by experimental trichodesmotoxicosis in puppies. (Rus) Veterinariya 8:87-88. Aug. 1967. 41.8 V6426
- 92027 JIRAN, E., JURACKA, B., and TOKAR, M. Checking of the immunization properties of inactivated vaccine against infectious hepatitis of dogs. (Cz) Czech. Min. Zemedel. Lesniho Hospodar. Ustav Vedeckotech. Inform. Vet. Med. 40(2):73-82. Ref. Feb. 1967. 41.9 C333  
English summary.
- 92028 KARSENTI, G., GROULADE, P., and GUILLON, J. C. Diffused interstitial calcinosis in the dog. (Fr) Acad. Vet. France Bull. 40(6):269-274. June 1967. 41.9 R24
- 92029 KLIDE, A. M., STEINBERG, S. A., and POND, M. J. Epiduralograms in the dog: the uses and advantages of the diagnostic procedure. Amer. Vet. Radiol. Soc. J. 8:39-44. 1967. 41.9 Am37
- 92030 LAGERWELJ, E., and POLL, P. H. A. Remarks on anaesthetic measures in torsio ventriculi of the dog. (Du) Tijdschr. Diergeneesk. 93(6): 377-379. Mar. 15, 1968. 41.8 T431  
English summary.
- 92031 LEITAO, J. L. DA S. Arecoline hydrobromide as a teniafuge for cats. (Por) Lisbon. Escol. Super. Med. Vet. An. 8:53,55-63. 1966, pub. 1967. 41.9 L682  
English summary.
- 92032 LEITAO, J. L. DA S. The meaning of the simultaneous presence of *Demodex canis* (Leydig, 1859) *Ctenocephalus canis* (Curtis, 1826) and *Rhipicephalus sanguineus* Latreille, 1806) in dogs with demodectic mange. Lisbon Escol. Super. Med. Vet. An. 8:47,49-51. 1966, pub. 1967. 41.9 L682  
Text also in Portuguese, p. 41-44.
- 92033 LEVINE, B. G., and DIAMOND, S. S. Clinical experience with medical treatment for canine heart worms. Pract. Vet. 5:136-140. Sept./Oct. 1967. 41.8 AL5
- 92034 LEVINE, B. G., and DIAMOND, S. S. Clinical experience with surgical treatment for canine heart worms. Pract. Vet. 5:147-155. Ref. Sept./Oct. 1967. 41.8 AL5
- 92035 MAGRANE, W. G. Cryosurgical lens extraction: uses and limitations. J. Small Anim. Pract. 9(2):71-73. Feb. 1968. 41.8 J8292  
Dogs.
- 92036 MALLO, G. L., and HARRIS, A. L. 1-131-triiodothyronine resin uptake, serum protein-bound iodine and serum cholesterol tests in normal dogs. Vet. Med./Small Anim. Clin. 62(6):533-540. Ref. June 1967. 41.8 M69  
For the evaluation of the thyroid gland function.
- 92037 MASTRANGELO, P., and NOBILE, M. The behavior of the antistreptolysin titer of serum in otitis externa and eczematous dermatosis in the dog. (It) Acta Med. Vet. 13(1/2):109-119. Ref. Jan./Apr. 1967. 41.8 Ac84  
English summary.
- 92038 MASTRONARDI, M., and POTENA, A. On the formation of an abnormality in the lumbar vertebral column of a dog. (It) Acta Med. Vet. 13(1/2):33-42. Ref. Jan./Apr. 1967. 41.8 Ac84  
English summary.
- 92039 MISSEL, W. Untersuchungen zur Anwendung von Organ-Dilutionen nach der Pyometraoperation bei der Hundin [Investigations on the application of organ-dilutions following pyometra operation of the bitch]. Munich. Univ. Tierarztl. Fak. [Inaug.-Diss.] 32,50 p. 1966. 41.2 M9222  
Bibliography, p. 43-48.
- 92040 MODERN VETERINARY PRACTICE. What are your routine recommendations concerning age of the dog, amount of earflap to be removed, and type of aftercare when cropping the ears of a Boxer? Are these recommendations varied for other breeds, such as Great Danes, Dobermans, Boston Terriers, Schnauzers, or Briards? Mod. Vet. Pract. 48(11):59-62. Oct. 1967. 41.8 N812
- 92041 MORGAN, J. P. Spondylosis deformans in the dog: its radiographic appearance. Amer. Vet. Radiol. Soc. J. 8:17-22. Ref. 1967. 41.9 Am37

- 92042 NODA, R., and others. Anthelmintic effect of methyridine preparation on canine whipworm. (Ja) Jap. Vet. Med. Ass. J. 20(4):7-10. Apr. 1967. 41.9 J275  
S. Noda, M. Horie, M. Nomura, D. Onishi, S. Yamamori, and T. Akiyama, joint authors. English summary.
- 92043 PACHALY, L., VIVALDI, E., and BELMAR, M. Spontaneous pyelonephritis in dogs. (Ge) Zentralbl. Veterinarmed. Reihe A, 14(4):371-382. Ref. June 1967. 41.8 Z5  
English summary.
- 92044 PARK, M. H., KIM, Y. H., and LEE, H. S. Studies on the combined vaccine of rabies and canine distemper. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(5):43-48. Sept. 1967. 22.5 K843  
English summary.
- 92045 PREUSS, F., and BUDRAS, K. D. Rectus sheath and linea alba in the cat and its importance in laparotomy. (Ge) Berliner Munchener Tierarztl. Wochenschr. 81(6):113-115. Ref. Mar. 15, 1968. 41.8 B45  
English summary.
- 92046 PRICE, R. A., and POWERS, R. D.. Cryptococcosis in a dog. Amer. Vet. Med. Ass. J. 150(9):988-993. May 1, 1967. 41.8 Am3  
Includes description of *Cryptococcus neoformans*.
- 92047 RAMY, C. T., and SEGRETO, V. A. Apicoectomy and root canal therapy for exposed pulp canal in the dog. Amer. Vet. Med. Ass. J. 150(9):977-983. May 1, 1967. 41.8 Am3
- 92048 REGULARD, P., and GUILLON, J. C. Isolation of a strain of the canine distemper virus with particular biological quality. (Fr) Acad. Vet. France Bull. 40(10):507-511. Dec. 1967. 41.9 R24
- 92049 RHODES, W. H., and BIERY, D. N. Pneumocystography in the dog. Amer. Vet. Radiol. Soc. J. 8:45-53. Ref. 1967. 41.9 Am37
- 92050 RIFAAT, M. A., and HASSAN, Z. A. Canine leishmaniasis in the U. A. R. J. Trop. Med. Hyg. 70(9):209-214. Ref. Sept. 1967. 448.8 J827
- 92051 RISER, W. H., PARKES, L. J., and SHIRER, J. F. Canine craniomandibular osteopathy. Amer. Vet. Radiol. Soc. J. 8:23-31. Ref. 1967. 41.9 Am37
- 92052 SAAR, C. The morphology of malignant tumours in films; cytodiagnostic studies in dogs. (Ge) Zentralbl. Veterinarmed. Reihe A, 14(4):302-314. Ref. June 1967. 41.8 Z5  
English summary.
- 92053 SAKO, S. Skin diseases of small animals and their treatment. (Ja) Jap. Vet. Med. Ass. J. 20(7):275-280. July 1967. 41.9 J275  
Review of the literature.  
Includes dogs and cats.
- 92054 SCHALM, O. W. Notes and comments on feline hematology. Calif. Vet. 22(1):24-27. Jan./Feb. 1967. 41.8 C12  
Blood tests for diagnosing related diseases.
- 92055 SCHOLZ, B. F. Experimentelle untersuchungen uber die gezielte therapie der bakteriurie des hundes mit Furadantin, Nitrofurantoin [Experimental studies on active therapy of bacteriuria of dogs with Furadantin (Nitrofurantoin)]. Munich. Univ. Tierarztl. Fak. [Inaug.-Diss.] 37, 49 p. 1966. 41.2 M9222  
Bibliography, p. 43-48.
- 92056 SEMAN, G., and others. The particle viral aspects in the cells of the lymphosarcoma of the dog. (Fr) Acad. Vet. France. Bull. 40(4):211-214. Apr. 1967. 41.9 R24  
G. Proenca, J. C. Guillon, and R. Moraillon, joint authors.
- 92057 SIMPSON, C. F., and KLING, J. M. The mechanism of denucleation in circulating erythroblasts. J. Cell Biol. 35(1):237-245. Ref. Oct. 1967. 442.8 J828  
In dogs.
- 92058 STONE, O. J., and LEVY, A. Creeping eruption in an animal caretaker. Lab. Anim. Care 17(5):479-482. Oct. 1967. 410.9 P94  
Infection acquired from a cat and treated with thiabendazole.
- 92059 SVRCEK, S., and others. Avian tuberculosis of dogs. (Cz) Folia Vet. 10(2):169-183. Ref. 1966. 41.8 F712  
O. J. Vrtiak, L. Hlavaty, R. Skarda, and J. Jantosovic, joint authors.  
English summary.  
Infected with the *Mycobacterium avium*.
- 92060 TAUL, L. K., POWELL, H. S., and BAKER, O. E. Canine abortion due to an unclassified gram-negative bacterium. Vet. Med./Small Anim. Clin. 62(6):543-544. June 1967. 41.8 M69  
Related to both genera of *Brucella* and *Bordetella*.
- 92061 TONGSON, M. S., and DE VERA, L. Absence of *Dipylidium* *Cysticercoids* in fleas of Philippine native dogs. J. Parasitol. 53(1):9. Feb. 1967. 448.8 J824  
*Ctenocephalides felis*.
- 92062 ULLRICH, W. Laboratory diagnosis of skin diseases of dog. (Ge) Wien Tierarztl. Monatsschr. 54(11):738-753. Ref. 1967. 41.8 T345  
English summary.
- 92063 UPDEGRAFF, B. P. A device for simplifying intravenous injections in the cat. Lab. Anim. Care 17(3):349-350. June 1967. 410.9 P94
- 92064 VAUGIEN, P. The canine leishmaniasis. (Fr) Patre 145:35. July 1967. 45.8 P272
- 92065 YAMAMOTO, T., and MARUSYK, R. G. Morphological studies of a canine adenovirus. J. Gen. Virol. 2, pt. 1:191-194. Ref. Jan. 1968. QR360.A1J6
- 92066 ZYSERMAN, S. A specialized treatment for eczema of the dog. (Sp) Gac. Vet. 29(200):116-117. Mar. 1967. 41.8 G112  
Tramcinolone used.

#### Miscellaneous

- 92067 MACKEY, W. J., VAUGHAN, E. E., and BEARMAN, J. E. Summary of canine weight vs length and height measurement. Lab. Anim. Care 17(6):581-584. Dec. 1967. 410.9 P94
- 92068 NEDELCHEV, D. Training of sheep dogs—shepherd's helpers. (Bu) Zhivotnovudstvo 21(1):27-28. Jan. 1967. 49 Z62
- 92069 TSUCHIYA, K., and KOZAWA, K. Survey of conditions regarding the raising of dogs as pets. (Ja) Jap. Vet. Med. Ass. J. 20(10):435-437. Oct. 1967. 41.9 J275  
Includes incidence of diseases.

#### FUR ANIMALS—PEN RAISED

##### Breeds and Breeding

- 92070 BELYAEV, D. K., and EVSIKOV, V. I. Genetics of fertility of animals. I. The effect of the fur colour genes on the fertility of mink (*Lutreola vison* Brisson). (Rus) Genetika 2:21-33. Ref. 1967. QH431.A1G4
- 92071 BIGNAMI, G., and BEACH, F. A. Mating behaviour in the chinchilla. Anim. Behav. 16(1):45-53. Ref. Feb. 1968. 410 B77
- 92072 EGOROV, YU. E. The effect of Hedlund mutation on the craniological characters in mink (*Mustela vison* Brisson). (Rus) Genetika 3:85-91. Ref. 1967. QH431.A1G4  
English summary.
- 92073 MOLKS, M. Effects of various mating methods on the breeding results of coypus. (Ga) Arch. Geflugelzucht Kleintierkunde 16(5):269-286. Ref. 1967. 47.8 Ar22  
English summary.
- 92074 QVIST, A. A Finnish Jet-Black (Sw) Vara Palsdjur 39(2):66, 69. Feb. 15, 1968. 410 V42
- 92075 STAROSTZIK, G. Fur animal breeding in Poland. (Ge) Deut. Pelztierzuchter 42(3):47-48. Mar. 1968. 412.628 D48  
Mink, chinchilla.



Veterinary MedicineMiscellaneous

- 92076 BISPING, W. Present rabies control and its problematic nature. (Ge) Gesundheitswesen Desinfekt. 60(2):18-20. Feb. 1968. 449.8 Z36P In foxes and dogs in Germany.
- 92077 BOWNESS, E. R. A survey of the gestation period and litter size in ranch mink. Can. Vet. J. 9(5):103-106. May 1968. 41.8 R3224
- 92078 BROWN, R. H. Determining pregnancy in chinchillas. Fur Trade J. Can. 45(11):24-25. Nov. 1967. 410 F965
- 92079 DE VOS, A. J., and VAN DER WESTHUIZEN, I. B. The occurrence of *Eimeria chinchillae* n. sp. (Eimeriidae) in *Chinchilla laniger* (Molina, 1782) in South Africa. S. Afr. Vet. Med. Ass. J. 39(1):81-82. Mar. 1968. 41.8 So8
- 92080 DU PLESSIS, J. L., and COLLINS, M. Hymenolepid cysticercoid from the liver of chinchilla. S. Afr. Vet. Med. Ass. J. 39(1):69-72. Ref. Mar. 1968. 41.8 So8  
Hymenolepis nana fraterna.
- 92081 KINDIG, D., SPARGO, B., and KIRSTEN, W. H. Glomerular response in Aleutian disease of mink. Lab. Invest. 16(3):436-443. Ref. Mar. 1967. 448.8 L11
- 92082 KNOX, B. Health conditions of fur animals in 1967. (Da) Dansk Pelsdyravls 31(1):7-9. Jan. 20, 1968. 412.628 D23  
Mink.
- 92083 KULL, K. E. Reporting of infectious diseases. (Sw) Vara Palsdjur 39(2):59-60. Feb. 15, 1968. 410 V42  
Mink.
- 92084 PFEIFFER, C. J. Gastric hypochlorhydria in ferret distemper. Can. J. Comp. Med. Vet. Sci. 31(5):135-138. Ref. May 1967. 41.8 C162
- 92085 REICH, K. Prophylactic immunisation of chinchillas. Blue Book Vet. Prof. 13:20-22. 1967. 41.9 B61Ae
- 92086 STEFFEN, J., and SANDER-WACHOWICZ, R. The Aleutian disease of minks - plasmocytosis. II. The iodine test. (Pol) Med. Weter. 24(4):199-202. Apr. 1968. 41.8 M463  
English summary.
- 92087 WINANS, R. E., and MARTY, E. W. New developments in mink enteritis vaccine production. Nat. Fur News 40(4):28-30, 37. May 1968. 412.628 R59
- 92088 AYALA MARTIN, E. The marten. (Sp) Cultiv. Mod. 51(2):48-50. Feb. 1968. 15 C89  
Raising for fur.
- 92089 CAPEL-EDWARDS, M. Management of the coypu. Inst. Anim. Tech. J. 18(2):60-65. Ref. June 1967. QL55.15  
As a laboratory animal.
- 92090 GILLIES, R. W. Rancher is rapped despite top job he is doing today. U. S. Fur Rancher 47(3):10, 19. Apr. 1968. 412.629 Am3M  
Quality of minks fur production.
- 92091 LINDSTROM, J. R. Fur farming in Norway as a branch of agriculture. (No) Landbrukets Sentralforbund. Arbok Landbrukets Okon. Organ. 13:243-270. 1967. 280.29 L235
- 92092 NORGES PELSDYRALSLAG. Annual report and accounts of the Norwegian Fur Animal Association, 1967. (No) Norsk Pelsdyrbl. 42(9):293-318. May 5, 1968. 412.628 N812
- 92093 PADGETT, G. A., GORHAM, J. R., and HENSON, J. B. Mink as a biomedical model. Lab. Anim. Care 18(2,pt.2):258-266. Ref. Apr. 1968. 410.9 P94
- 92094 RAAB, H. The chinchilla as furgoods and its care. (Ge) Deut. Pelztierzuechter 42(3):49-52. (Concl.) Mar. 1968. 412.628 D48
- 92095 RICE, R. P. The mink. Inst. Anim. Tech. J. 18(2):66-79. Ref. June 1967. QL55.15  
Management as a laboratory animal; includes breeding and disease control.
- 92096 RIETVELD, A. A. M. Rancher associations in Europe active in field counsel, study. U. S. Fur Rancher 47(3):12, 19. Apr. 1968. 412.629 Am3M  
Mink associations.

- 92097 STEWART, A. Quality control of chinchillas is vital to industry's success. Fur Trade J. Can. 45(12):23. Dec. 1967. 410 F965
- 92098 SWEENEY, S. Chinchilla reflections. IV. Em-press Chinchilla 24(5):13. May 1968. 412.628 N21  
Farm management.
- 92099 WINTERS, A. C. Stop guesswork in chinchilla raising. Fur Trade J. Can. 45(12):24-25. Dec. 1967. 410 F965

HORSES AND MULESBreeds and Breeding

- 92100 BENČEVIC, Z. Science in the service of horse breeding. (Se) Stocarstvo 22(1/2):29-32. Jan./Feb. 1968. 43.8 St6
- 92101 BOURKE, J. M. Feeding of Thoroughbred horses. Australian Vet. J. 44(5):241-245. May 1968. 41.8 Au72
- 92102 THE GENERAL stud book. Third supplement to vol. XXXV; return of mares for 1967, with index. London, 1967. 228 p. 42.9 G28  
British Thoroughbreds.
- 92103 GOOLD, G. J. Breeding and rearing of blood-stock in New Zealand. New Zeal. J. Agr. 116(5):68-69, 71. May 1968. 23 N48J
- 92104 HORSEBREEDING 1966—number of racing horses is increasing. (Sw) Skand. Kreatursforskringsbolaget Manadsbl. 45(7/8):100-101. 1967. 49.9 Sk1
- 92105 HUCKO, V. Enlargement of the Hucul horse at Muran. (Cz) Pol'nohospodarstvo 14(1):31-41. Ref. 1968. 19.5 P752  
English summary.  
Breeding.
- 92106 LACHMANN. New regulations for carrying out the animal breeding law in North Rhine Westphalia. (Ge) Tierzuechter 19(23):804, 807. Dec. 5, 1967. 49 T445  
Horse and cattle breeding in Germany.
- 92107 MEY, G. J. W. VAN DER. Extent of breeding trends in warm-blood horse breeding. (Du) Veeteelt Zuivelber. 10(6):261-268. June 1967. 49 V51
- 92108 SCHMEHLIK, O. The stud of white dream horses. (Ge) Blauen Hefte Tierarzt 35:1-6. Oct. 1967. 41.9 B61  
Lipitsa breeding in the Osterreichisches Bundesgestut, Piber.
- 92109 SIMONSEN, H. B. Ova enclosed in sterile, gelatinous substances isolated from fallopian tube of mare. (Da) Danske Dyrlegefor. Medlemsbl. 51(8):291-293. Apr. 15, 1968. 41.9 D23  
Problem of fertility.
- 92110 STECHER, R. M. The Przewalski horse: numerical variation of the vertebrae and chromosome counts compared to other Equidae. Soc. Roy. Zool. Anvers. Bull. 43:45-62. Aug. 1967. 410.9 So193
- 92111 VENKOV, V. State horse farms and their importance for improvement of horse breeding in Bulgaria. (Bu) Zhivotnovudstvo 21(5):22-27. May 1967. 49 Z62
- 92112 WIERZBOWSKI, S., KUPFERSCHMIED, H., and LEUENBERGER, H. Artificial insemination experiments with horses. (Ge) Schweiz. Arch. Tierheilk. 109(10):517-524. Ref. Oct. 1967. 41.8 Sch9  
English summary.
- 92113 WIERZBOWSKI, S. Artificial insemination in the horse and related problems. World Rev. Anim. Prod. 3(14):93-97. Ref. July/Sept. 1967. 49 W89

Feeds and Feeding

- 92114 WOLTER, R. The feeding of the racing horse. (Fr) Rev. Fr. Prod. Anim., Mar. 1968:6, 8-14. 47.8 C64

Veterinary Medicine

- 92115 ACKERMANN, O., and TIEFENBACH, B. Experiences with Prevacun in vaccination against equine influenza. (Ge) *Blauen H. Tierarzt* 36: 30-38. Ref. Feb.1968. 41.9 B61
- 92116 ANDERSEN, O. W. A visit to the Horse Clinic [Klinik für die Pferde] in Hanover. (Da) *Danske Dyrlægefor. Medlemsbl.* 50(21):972-974. Nov.1,1967. 41.9 D23  
Surgery.
- 92117 ANIMAL HEALTH TRUST (GREAT BRITAIN). EQUINE RESEARCH STATION (NEWMARKET). A report for the year 1966/67; research and investigation. *Anim. Health* 7:2-5. Mar.1968. 41.8 An52
- 92118 COMPAGNUCCI, M., MARTONE, F., and PALMA, G. Serological investigations on equine influenza in the region of Naples. *Vet. Ital.* 18 (11/12):723-739. Ref., p.721-722. Ref. Nov./Dec.1967. 41.8 C87  
Italian text, p.705-722.
- 92119 CORNWELL, R. L., and JONES, R. M. Field trials in horses with pyrantel tartrate. *Vet. Rec.* 82(21):586-587. May 25,1968. 41.8 V641  
For the treatment of strongylosis.
- 92120 CROOK, I. G. Partial obstruction of the small colon of a Shetland Pony foal. *Australian Vet. J.* 43(6):217-218. June 1967. 41.8 Au72
- 92121 DE MOOR, A. Carbohydrate metabolism and hypoxia in the horse; influence of clinical fluothane anaesthesia. *Vet. Rec.* 82(20):568-570. Ref. May 18,1968. 41.8 V641
- 92122 DJUROFF, A., and BEYER, J. Metaplastic ossification in the wall of an aortic aneurysm in the horse. (Ge) *Monatsh. Veterinarmed.* 22(22):906-908. Ref. Nov.15,1967. 41.8 M742  
English summary.
- 92123 DUXBURY, A. E., and OXER, D. T. Isolation of equine rhinopneumonitis virus from an epidemic of acute respiratory disease in horses. *Australian Vet. J.* 44(2):58-63. Ref. Feb.1968. 41.8 Au72
- 92124 EISENMENGER, E. Occurrences, type and course of inflammable synovial reactions following articular puncture respectively injections and their importance for synovial diagnosis. (Ge) *Zentralbl. Veterinarmed. Reihe A*, 15(3):255-258. (Cont.) May 1968. 41.8 Z5  
Horses.
- 92125 EK, N., and NORDSTOGA, K. Corynebacterium equi infection in foals. (No) *Nord. Veterinarmed.* 19(10):466-473. Ref. Oct.1967. 41.8 N813  
English summary.  
A form of pneumonia.
- 92126 FUNK, K. A., and ERICKSON, E. D. A case of atlanto-axial sub-luxation in a horse. *Can. Vet. J.* 9(5):120-123. May 1968. 41.8 R4224
- 92127 GARUFFI, R. Vocal cords removal in the equines. (It) *Nuova Vet.* 44(1):39-43. Ref. Jan./Feb.1968. 41.8 N922  
English summary.
- 92128 GORET, P., MICHEL, C., and TOMA, B. Diagnosis of the equine infectious anemia. (Fr) *Cah. Med. Vet.* 36(5):139-153. Ref. Sept./Oct. 1967. 41.8 C11
- 92129 GUILLON, J. C., and others. Histological lesions in the nervous system of horse infected by West Nile type virus. (Fr) *Inst. Pasteur. Ann.* 114(4):539-550. Apr.1968. 44.3 An75  
J. Oudar, L. Joubert, and C. Hannoun, joint authors.  
English summary.
- 92130 GUNTHER, M., KRAHMER, R., and SCHNEIDER, J. A contribution on trepanation site determination in the surgical removal of molars in horses. (Ge) *Monatsh. Veterinarmed.* 22(22):891-895. Ref. Nov.15,1967. 41.8 M742  
English summary.
- 92131 HAHON, N., and COOKE, K. O. Primary virus-cell interactions in the immunofluorescence assay of Venezuelan equine encephalomyelitis virus. *J. Virol.* 1(2):317-326. Ref. Apr.1967. QR360.J6
- 92132 HOLMES, J. R., and ALPS, B. J. Studies into equine electrocardiography and vectorcardiography. III. Vector distribution in some cardiovascular disorders. *Can. J. Comp. Med. Vet. Sci.* 31(8):207-212. Aug.1967. 41.8 C162
- 92133 HOLMES, J. R., and ALPS, B. J. Studies into equine electrocardiography and vectorcardiography. IV. Vector distributions in some arrhythmias. *Can. J. Comp. Med. Vet. Sci.* 31(9): 219-225. Ref. Sept.1967. 41.8 C162
- 92134 HOOPER, P. T. Epizootic cystitis in horses. *Australian Vet. J.* 44(1):11-14. Ref. Jan.1968. 41.8 AU72
- 92135 HUDSON, R. S. Acute equine colitis. *Auburn Vet.* 24(3):92-96,115. Ref. Spring 1968. 41.8 Aul
- 92136 ISHIZAKI, R. Rhinopneumonitis (Equine viral abortion). (Ja) *Jap. Vet. Med. Ass. J.* 20(10): 420-424,441. Ref. Oct.1967. 41.9 J275
- 92137 KHENG, C. S., and others. Japanese B encephalitis in a horse. *Australian Vet. J.* 44(1):23-25. Ref. Jan.1968. 41.8 Au72  
T. K. Chee, N. J. Marchette, R. Garcia, A. Rudnick, R. F. Coughlan, joint authors.
- 92138 KNAPKA, J. J., BARTH, K. M., BROWN, D. G. Late effects of whole-body irradiation on nutrient digestibility by the burro. *J. Anim. Sci.* 27(3):656-659. Ref. May 1968. 49 J82
- 92139 KOBAYASHI, K., and KATAGIRI, S. Normal picture of equine serum protein determined by cellulose acetate membrane electrophoresis. (Ja) *Jap. Vet. Med. Ass. J.* 20(10):438-441. Ref. Oct.1967. 41.9 J275
- 92140 KOIKE, T. Roentgenological studies on foot of horse. I. Examination on exposure conditions. (Ja) *Jap. Vet. Med. Ass. J.* 20(7):281-286. Ref. July 1967. 41.9 J275
- 92141 KONRAD, J. The initial stages and pathogenesis of Zdrar disease (Cirrhosis hepatitis diffusa). (Ge) *Deut. Tierarztl. Wochenschr.* 75(2): 40-45. Ref. Jan.1968. 41.8 D482  
English summary.  
As material livers from horses were used.
- 92142 KONRAD, J., and VOSTA, J. Studies in the occurrences of antibodies against *Leptospira* in horses and cattle in Czechoslovakia. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 80(18):348-350. Ref. Sept.15,1967. 41.8 B45  
English summary.
- 92143 LINDEMANN, L., PETZOLDT, K., and MERKT, H. The importance of complement fixing antibodies in natural rhinopneumonitis infection in gravid mares. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 80(22):425-427. Nov.15,1967. 41.8 B45  
English summary.
- 92144 MALANOWSKI, D., and RYBACZYK, L. Restricted use of antibiotics during the operation of large animals. (Pol) *Med. Weter.* 24(4): 240-241. Apr.1968. 41.8 M463  
Horses.
- 92145 MARBACH, W. Skin diseases of horses. *Agr. Gaz. New S. Wales* 78(12):738-741. Dec.1967. 23 N472
- 92146 MAROLT, J., and PAJTIL, M. Contribution to the clinical picture and occurrence of rare tumors and exuberant granulation in horse and dog. (Ge) *Deut. Tierarztl. Wochenschr.* 74 (12):305-309. Ref. June 15,1967. 41.8 D482  
English summary.  
Includes sarcoma of muscles.
- 92147 MAROLT, J., and FRANK, A. A contribution to the microphthalmia in horses and cattle. (Ge) *Veterinarski Arhiv* 37(9/10):287-291. 1967. 41.8 V6416  
English summary.
- 92148 MILLER, W. C., and BARNETT, G. Twenty years of equine research; a review of the work of the Animal Health Trust's Equine Research Station. *Veterinarian (Oxford)* 5(1):51-64. Jan. 1968. 41.8 V6467
- 92149 NAYAK, D. P., and BALUDA, M. A. Isolation and partial characterization of nucleic acid of influenza virus. *J. Virol.* 1(6):1217-1223. Ref. Dec.1967. QR360.J6  
Equine influenza virus.



- 92150 NELSON, D. L., and others. Margin of safety of succinylcholine chloride in horses treated with anticholinesterase pesticides. *Vet. Med./Small Anim. Clin.* 62(5):436-437. May 1967. 41.8 M69  
R. G. White, J. O. Mozier, and A. D. Allen, joint authors.  
Used as muscle relaxant.
- 92151 NOBILE, M. Antistreptokinase in the horse's blood. (It) *Acta Med. Vet.* 13(1/2):121-129. Ref. Jan./Apr. 1967. 41.8 Ac84  
English summary.
- 92152 PERSSON, S. Tetanus prophylaxis of horses. (Sw) *Svensk Veterinartidn.* 20(3):76-78. Feb. 1968. 41.9 Sv23  
Immunization.
- 92153 POGO, B. G. T., ALLFREY, V. G., and MIRSKY, A. E. The effect of phytohemagglutinin on ribonucleic acid synthesis and histone acetylation in equine leukocytes. *J. Cell Biol.* 35(2, Part 1 of 2):477-482. Ref. Nov. 1967. 442.8 J828
- 92154 RANKIN, M. C. The veterinarian looks at the new colt. *Kans. Stockman* 53(7):48-50. May 1968. 49 K134
- 92155 RITA, A. J. R. G. A note on malignant tumors in horses—the place of the spleen. (Por) *Lisbon. Escol. Super. Med. Vet. An.* 8:141, 143-148. Ref. 1966, pub. 1967. 41.9 L682  
English summary.
- 92156 SOBIESZEWSKI, K. Parasitic nematodes of the alimentary tract of horses in the Lublin Palatinate. *Acta Parasitol. Polon.* 15(1/21):103-108. 1967. 436.8 Ac8
- 92157 SOVA, Z., JICHA, J., and RICHTER, L. Problem of bilirubin anemia of horses in starvation condition. (Ge) *Prakt. Tierarzt* 48(11):497-499. Nov. 1, 1967. 41.8 P882
- 92158 STECK, W. The development of petechial haemorrhages on the under-surface of the tongue of the horse and its relation to infection with the virus of equine infectious anaemia. (Ge) *Zentralbl. Veterinarmed. Reihe A*, 14(4):348-365. Ref. June 1967. 41.8 Z5  
English summary.
- 92159 VANDER NOOT, G. W., and others. Rate of passage of various feedstuffs through the digestive tract of horses. *J. Anim. Sci.* 26(6):1309-1311. Nov. 1967. 49 J82  
L. D. Symons, R. K. Lydman, and P. V. Fannesbeck, joint authors.
- 92160 WOLOSZYN, S. The investigation on the nature and antigenic structure of *Histoplasma farciminosum*. III-IV. (Pol) *Med. Weter.* 24(4):207-214. Ref. Apr. 1968. 41.8 M463  
English summary.  
Application of antibiotics in the treatment of epizootic lymphangitis of horses.
- 92161 YAMAOKA, S., and KAMETANI, T. Studies on serum colloid reaction in race horses. (Ja) *Jap. Vet. Med. Ass. J.* 20(8):326-330. Ref. Aug. 1967. 41.9 J275
- 92162 ZOBUNDZIJA, M. A contribution to the study of relations between the femoral and caudal nerves in horse. (Se) *Veterinarski Arhiv* 37(9/10):299-306. Ref. 1967. 41.8 V6416  
English summary.

#### Miscellaneous

- 92163 WASHINGTON STATE UNIVERSITY. EXTENSION SERV. Horse magazines. *Wash. State Univ. Ext. E. M.* 2016, rev., 3 p. Feb. 1968. 275.29 W27Mi

#### LABORATORY ANIMALS, SMALL

##### Breeds and Breeding

- 92164 COOPER, K. J., and HAYNES, N. B. Modification of the oestrous cycle of the under-fed rat associated with the presence of the male. *J. Reprod. Fertil.* 14(2):317-320. Ref. Oct. 1967. 442.8 J8222
- 92165 FERM, V. H. The use of the golden hamster in experimental teratology. *Lab. Anim. Care* 17(5):452-461. Ref. Oct. 1967. 410.9 P94
- 92166 SERRANO, L. J., and AMSBURY, C. Semiautomatic recording and computer processing of mouse breeding data. *Lab. Anim. Care* 17(3):330-341. June 1967. 410.9 P94
- 92167 SOFTLY, A. Production of specific-mite-free rats and mice by two methods. *Ins. Anim. Tech. J.* 19(1):17-21. Ref. Mar. 1968. QL55.15
- 92168 WAAIJ, D. VAN DER, and BERKKUM, D. W. VAN. Isolation facilities for rat breeding: the efficiency of an isolation suit. *Lab. Anim. Care* 17(6):532-541. Dec. 1967. 410.9 P94
- 92169 WHITTEN, W. K. Pheromones and mammalian reproduction. *Advan. Reprod. Physiol.* 1:155-177. 1966. QP251.A3  
Review of the literature.  
Chiefly mice.

##### Feeds and Feeding

- 92170 ASCHKENASY, A. Comparative effects of various amino acids and casein on the gastrointestinal absorption of  $^{59}\text{Fe}$  by protein-deficient rats. (Fr) *Int. Congr. Nutr. Proc.*, 7th Congr., v.5:688. 1966, pub. 1967. TX345.I53
- 92171 BEARE, J. L., and BEATON, J. R. Effect of rapeseed oil on food intake in the rat. *Can. J. Physiol. Pharmacol.* 45(6):1093-1094. Nov. 1967. 444.8 C16
- 92172 BRAR, B. S., and EVANS, J. L. Morphological changes in the spleen and other body organs of growing rats as affected by different dietary levels of copper, iron and pantothenic acid. *Int. Congr. Nutr. Proc.*, 7th Congr., v.5:683-687. Ref. 1966, pub. 1967. TX345.I53 1966
- 92173 FOSTER, C. H. L., TREXLER, P. C., and RUMSEY, G. A canned sterile shipping diet for small laboratory rodents. *Lab. Anim. Care* 17(4):400-405. Aug. 1967. 410.9 P94
- 92174 FRIEDMAN, L., and OLSZYNA-MARZYS, A. E. Effects of dietary fat level on the B-vitamin requirements of the rat. *Int. Congr. Nutr. Proc.*, 7th Congr., v.1:146-150. 1966, pub. 1967. TX345.I53 1966
- 92175 HARTSOOK, E. W. The effect of high dietary protein levels on the heat production of rats. *Int. Congr. Nutr. Proc.*, 7th Congr., v.5:199-205. Ref. 1966, pub. 1967. TX345.I53 1966
- 92176 HENRY, Y. Development of energy requirements in relation to care. (Fr) *Int. Congr. Nutr. Proc.*, 7th Congr., v.5:17-20. 1966, pub. 1967. TX345.I53 1966  
In rats.
- 92177 KING, C. G. Ascorbic acid intake and viable young of guinea pigs. *Int. Congr. Nutr. Proc.*, 7th Congr., v.5:595. 1966, pub. 1967. TX345.I53 1966
- 92178 KONIG, K. G. Apparatus for continuous recording of spontaneous eating patterns of the rat, and for controlled feeding with variable frequency and intervals. *Int. Congr. Nutr. Proc.*, 7th Congr., v.2:209-213. 1966, pub. 1967. TX345.I53 1966
- 92179 LARVOR, P. Influence of antibiotics on the mineral balance of the rat. (Fr) *Int. Congr. Nutr. Proc.*, 7th Congr., v.5:853-854. 1966, pub. 1967. TX345.I53 1966
- 92180 LIND, H. E. Effect of a nutritional supplement (grain concentrate) in human cooked and raw diets on animal breeding. *Int. Congr. Nutr. Proc.*, 7th Congr., v.5:795-801. 1966, pub. 1967. TX345.I53 1966  
Tests with rats.
- 92181 MOKADY, S., and ZIMMERMANN, G. The effect of different lipid extractants used with impulse-rendered lucerne paste on the nutritional and calorogenic properties of its proteins. *Int. Congr. Nutr. Proc.*, 7th Congr., v.5:279-284. Ref. 1966, pub. 1967. TX345.I53 1966  
Used as feed; tests with rats.
- 92182 RERAT, A., and HENRY, Y. Relation between energy consumption and the nature of the regimen. (Fr) *Int. Congr. Nutr. Proc.*, 7th Congr., v.5:20-23. 1966, pub. 1967. TX345.I53 1966  
Rats.
- 92183 SABRY, Z. I., VEEN, M. J., and BEATON, G. H. Studies on the eating patterns of the rat. *Int. Congr. Nutr. Proc.*, 7th Congr., v.2:205-209. 1966, pub. 1967. TX345.I53 1966

- 92184 SHORLAND, F. B., and MATTHEWS, J. R. A preliminary investigation of the food value of wool. *New Zeal. J. Sci.* 11(1):131-136. Ref. Mar.1968. 414 N482  
Tested on rats.
- 92185 STOEWSAND, G. S., and DYMSZA, H. A. Synthetic sources of calories in the diets of rats and dogs. *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:1082-1087. 1966, pub.1967. TX345.I53 1966
- 92186 WOSTMANN, B. S., and KELLOGG, T. F. Purified starch-casein diet for nutritional research with germfree rats. *Lab. Anim. Care* 17(6): 589-593. Dec.1967. 410.9 P94  
Veterinary Medicine
- 92187 AUERBACH, R., and RUGOWSKI, J. A. Lysergic acid diethylamide; effect on embryos. *Science* 157(3794):1325-1326. Sept.15,1967. 470 Sci2  
Mice.
- 92188 BAER, H. *Diplococcus pneumoniae* type 16 in laboratory rats. *Can. J. Comp. Med. Vet. Sci.* 31(9):216-218. Ref. Sept.1967. 41.8 C162
- 92189 BECKER, B. A., and PLAA, G. L. Assessment of liver function in mice. *Lab. Anim. Care* 17(3):267-272. Ref. June 1967. 410.9 P94
- 92190 BILLINGS, T. A. A holder to facilitate the intravenous injection of mice. *Lab. Anim. Care* 17(5): 521-523. Oct.1967. 410.9 P94
- 92191 BONCIU, C., BONCIU, O., and PETROVICI, M. Interstitial pneumonia [proliferative alveolitis] of laboratory animals. (Fr) *Arch. Roumaines Pathol. Exp. Microbiol.* 26(4):893-912. Dec.1967. 448.3 AR22  
Guinea pigs.
- 92192 BONE, J. F., and HARR, J. R. *Trichosomoides crassicauda* infection in laboratory rats. *Lab. Anim. Care* 17(3):321-326. June 1967. 410.9 P94  
Bladder worms.
- 92193 BRINSTER, R. L. Carbon dioxide production from lactate and pyruvate by the preimplantation mouse embryo. *Exp. Cell Res.* 47(3):634-637. Ref. Sept.1967. 442.8 Ex7
- 92194 BRINSTER, R. L. Lactic dehydrogenase activity in preimplantation rat embryo. *Nature* 214(5094):1246-1247. Ref. June 17,1967. 472 N21
- 92195 BRODEUR, J. Studies on the mechanism of phenobarbital-induced protection against malathion and EPN. *Can. J. Physiol. Pharmacol.* 45(6):1061-1069. Ref. Nov.1967. 444.8 C16  
Studies of poisoning of rats.
- 92196 BRUCKNER-KARDOSS, E., and WOSTMANN, B. S. Cecectomy of germfree rats. *Lab. Anim. Care* 17(6):542-546. Ref. Dec.1967. 410.9 P94
- 92197 CHAMPLIN, A. K., and MCGILL, T. E. A simple restraining device for injecting mice. *Lab. Anim. Care* 17(6):600-601. Dec.1967. 410.9 P94
- 92198 CHO, H. J., and LIM, Y. M. Studies on the pathogenicity and immunogenicity of canine distemper virus to hamster. (Ko) Korea. *Min. Agr. Forest. Offic. Rural Develop. Res. Rep.* 10(5):73-78. Ref. 1967. 22.5 K843  
English summary.
- 92199 CHUNG, U. I. Experimental studies on the effects of the bovine liver fluke extracts to the gonadal organs of female rats. (Ko) Korea. *Min. Agr. Forest. Offic. Rural Develop. Res. Rep.* 10(5):1-24. Ref. Sept.1967. 22.5 K843  
English summary.
- 92200 CHUNG, U. I., and LEE, K. W. Studies on the Hohlweg effect of the ovary. (Ko) Korea. *Min. Agr. Forest. Offic. Rural Develop. Res. Rep.* 10(5):95-102. Ref. Sept.1967. 22.5 K843  
English summary.  
Rats.
- 92201 DEANESLY, R. The role of the fertilized egg: reactions in the guinea-pig uterus at ova-implantation and after thread traumatization. *J. Reprod. Fertil.* 14(2):243-248. Oct.1967. 442.8 J8222
- 92202 DREOSTI, I. E. Cytochrome oxidase activity in copper deficient adult rats. *S. Afr. J. Agr. Sci.* 10(1):95-99. Ref. Mar.1967. 24 Su3
- 92203 DREOSTI, I. E. Plasma progesterone in control and copper deficient pregnant rats. *S. Afr. J. Agr. Sci.* 10(2):365-371. Ref. June 1967. 24 Su3
- 92204 EINHEBER, A., and others. A simple collar device for the protection of skin grafts in mice. *Lab. Anim. Care* 17(3):345-348. June 1967. 410.9 P94  
R. E. Wren, D. Carter, and L. R. Rose, joint authors.
- 92205 EVELEIGH, J. R. A study of murine pregnancies. *Inst. Anim. Tech. J.* 18(1):2-27. Mar.1967. QL55.15
- 92206 FANKHAUSER, R., HORNING, B., and WAELECHLI, P. *Cysticercus longicollis* in the brain of a field vole (*Microtus arvalis*). (Ge) Schweiz. Arch. Tierheilk. 109(10):525-532. Ref. Oct.1967. 41.8 Sch9  
English summary.  
Larval stage of *Taenia crassiceps*.
- 92207 FUGNER, A. Untersuchungen über die Verträglichkeit der Coccidiostatica Amprolium und Zoalen [Investigations on the tolerance of coccidiostatics amprolium and zoalene]. Hanover. Tierarztl. Hochschule. Inaug.-Diss. 29, 89 p. 1966. 41.2 H198  
Bibliography, p.80-88.  
Experiment on laboratory animals.
- 92208 GIBSON, J. E., and BECKER, B. A. The administration of drugs to one day old animals. *Lab. Anim. Care* 17(5):525-527. Oct.1967. 410.9 P94  
Laboratory animals.
- 92209 GREENE, F. E., and WADE, A. E. A technique to facilitate sublingual vein injection in the rat. *Lab. Anim. Care* 17(6):604-606. Dec.1967. 410.9 P94
- 92210 GUNTER, A. Vergleichende Untersuchungen experimentell erzeugter unspezifischer Schleimhautentzündungen bei Laboratoriumstieren [Comparative studies of experimentally induced non-specific mucous membrane inflammations in laboratory animals]. Hanover. Tierarztl. Hochschule. Inaug.-Diss. 20, 47 p. 1966. 41.2 H198  
Bibliography, p.37-42.
- 92211 HAMILTON, P. B., RUTLEDGE, J. H., and BOEGLI, G. An artifact associated with intraperitoneal injections of a nonaqueous vehicle in mice. *Lab. Anim. Care* 17(4):362-364. Aug.1967. 410.9 P94
- 92212 HEALEY, P. A simple method for anaesthetizing and handling small carnivores. *Inst. Anim. Tech. J.* 18(1):37-38. Mar.1967. QL55.15
- 92213 HEAP, R. B., and DEANESLY, R. The increase in plasma progesterone levels in the pregnant guinea-pig and its possible significance. *J. Reprod. Fertil.* 14(2):339-341. Oct.1967. 442.8 J8222
- 92214 HILL, B. F. Laboratory rodents and experimental gerontology. *Charles River Dig.* 7(1), 6 p.-folder. Ref. Jan.1968. 442.8 C38
- 92215 HYSSELL, D. K., and ABRAMS, G. D. Complications in the use of indwelling vascular catheters in laboratory animals. *Lab. Anim. Care* 17(3):273-280. Ref. June 1967. 410.9 P94
- 92216 ITO, S., TSUNODA, K., and SUZUKI, K. Distribution of *Toxoplasma gondii*, Rh strain, in infected mice as determined by the fluorescent antibody technique and the histopathology of toxoplasmosis. *Tokyo Nat. Inst. Anim. Health Quart.* 7(4):208-220. Ref. Winter 1967. 41.9 T575Q
- 92217 KAMYSZEK, F. From the investigation on the role of flies in the passive transmission of experimental mycosis to guinea pigs. (Pol) *Med. Weter.* 24(3):146-148. Ref. Mar.1968. 41.8 M463  
English summary.  
Ringworm.
- 92218 KEAST, D. A simple and effective method of skin grafting on the laboratory mouse. *Inst. Anim. Tech. J.* 19(1):6-10. Ref. Mar.1968. QL55.15
- 92219 KIMBERLIN, R. H., and HUNTER, G. D. DNA synthesis in scrapie-affected mouse brain. *J. Gen. Virol.* 1(1):115-124. Ref. Jan.1967. QR360.A1J6



- 92220 KITSELMAN, C. H., and MITAL, A. K. Pathogenesis of rabies in the rat. *Can. J. Comp. Med. Vet. Sci.* 31(5):122-124. Ref. May 1967. 41.8 C162  
Study of the virus.
- 92221 MARINCOWITZ, G. Differences in the luteotropic effects of the pituitary body in situ of under the kidney capsule transplanted in rats with an ovarian transplant under the spleen capsule. (Af) *S. Afr. J. Agr. Sci.* 10(3):859-860. Sept. 1967. 24 Su3
- 92222 MELENDEZ, L. V., and others. A herpes virus from sand rats (*Psammomys obesus*). *Lab. Anim. Care* 17(3):302-309. June 1967. 410.9 P94  
R. D. Hunt, N. W. King, F. G. Garcia, A. A. Like, and E. Miki, joint authors.
- 92223 MYLREA, K. C., and ABBRECHT, P. H. An apparatus for tail vein injection in mice. *Lab. Anim. Care* 17(6):602-603. Dec. 1967. 410.9 P94
- 92224 PANTIC, V., PAVLOVIC-HOURNAC, M. R., and RADIVOJEVIC, D. V. Ultrastructural changes on thyroid intraocular grafts X-irradiated in vitro before transplantation. *Int. J. Radiat. Biol.* 12(4):305-316. 1967. 444.8 In8  
In rats.
- 92225 PARBROOK, G. D. A halothane vaporiser for small animal anaesthesia. *Inst. Anim. Tech. J.* 18(2):93-95. Ref. June 1967. QL55.15
- 92226 PATRICK, G., CARR, T. E. F., and HUMPHREYS, E. R. Inhibition by alginates of strontium absorption studied in vivo and in vitro. *Int. J. Radiat. Biol.* 12(5):427-434. Ref. 1967. 444.8 In8  
Rats.
- 92227 PERMAN, V., and BERGELAND, M. E. A tularemia enzootic in a closed hamster breeding colony. *Lab. Anim. Care* 17(6):563-568. Dec. 1967. 410.9 P94
- 92228 POILEY, S. M. The development of an effective method for control of epizootic diarrhea in infant mice. *Lab. Anim. Care* 17(5):501-510. Ref. Oct. 1967. 410.9 P94
- 92229 POLATVICK, J., and ARLINGHAUS, R. B. Effect of actinomycin D on virus-induced ribonucleic acid polymerase formation in foot-and-mouth disease virus-infected baby hamster kidney cells. *J. Virol.* 1(6):1130-1134. Ref. Dec. 1967. QR360.J6
- 92230 ROBINSON, F. R., HARPER, D. T., and KAPLAN, H. P. Comparison of strains of rats exposed to oxygen at various pressures. *Lab. Anim. Care* 17(5):433-441. Ref. Oct. 1967. 410.9 P94
- 92231 ROJAS, M. A., DYER, I. A., and CASSATT, W. A. Effect of stage of pregnancy on manganese transfer. *Int. Congr. Nutr. Proc.*, 7th Congr., v. 5:723-729. Ref. 1966, pub. 1967. TX345.153 1966  
Tests with rats.
- 92232 ROUBICEK, C. B., and THEURER, C. B. The effect of high environmental temperature on growth and body composition of rats. *Growth* 31(4):369-374. Ref. Dec. 1967. 442.8 G91
- 92233 RUBIN, M. Chelation and iron metabolism. *Amer. Feed Manufacturers Ass. Nutr. Council. Proc.*, 27th Semi-Annu. Meeting:27-31. Ref. 1967. 389.79 AM32  
Laboratory animal metabolism.
- 92234 SALIM, A. R. Conditions for plaque formation with a Phlebotomus (sandfly) fever virus. *J. Gen. Virol.* 2, pt. 1:81-87. Jan. 1968. QR360.A1J6  
Naples virus in hamster embryos.
- 92235 SEGRE, M., and SEGRE, D. Hemolytic plaque formation by mouse spleen cells producing antibodies against rabbit immunoglobulin G. *J. Immunol.* 99(5):867-875. Ref. Nov. 1967. 448.8 J8232
- 92236 SHARMAN, D. F. A discussion of the modes of action of drugs which increase the concentration of 4-hydroxy-3-methoxyphenylacetic acid (homovanillic acid) in the striatum of the mouse. *Brit. J. Pharmacol. Chemotherap.* 30(3):620-626. Aug. 1967. 396.8 B77
- 92237 SHECHMEISTER, I. L. Multiplication of *Salmonella enteritidis* in X-irradiated and normal mice. *Lab. Anim. Care* 17(6):585-588. Dec. 1967. 410.9 P94
- 92238 SHORT, R. V., and YOSHINAGA, K. Hormonal influences on tumour growth in the uterus of the rat. *J. Reprod. Fertil.* 14(2):287-293. Ref. Oct. 1967. 442.8 J8222
- 92239 SIMEK, V. Influence of Intermittent fasting on morphological changes of the digestive system and on the activity of some enzymes in the golden hamster (*Mesocricetus auratus*). *Cesk. Společnost Zool. Vestník* 32(1):89-94. Ref. 1968. 410.9 C33
- 92240 SOFTLY, A., and KENNETT, D. Incidence of imperforate vagina in a mouse colony. *Inst. Anim. Tech. J.* 18(2):80-82. Ref. June 1967. QL55.15
- 92241 TERTYSHNIK, V. I. Phosphorus metabolism in guinea pigs in the generalized form of foot-and-mouth disease. (Rus) *Veterinariya (Kiev)* 12:33-36. 1967. SF604.V44
- 92242 TOLSTYAK, I. YU., and BAKUMENKO, M. D. Interference between strains of foot-and-mouth disease viruses, adapted to laboratory animals. (Uk) *Visn. Sil's'kohospod. Nauk.* 1:110-115. Jan. 1967. 20 V82  
Russian summary.
- 92243 VOSS, G., and SCHULER, J. A fast and simple procedure for routine determinations of plasma cholinesterase activities. *Bull. Environ. Contaminating Toxicol.* 2(6):357-363. Nov./Dec. 1967. RA1270.P35A1  
For laboratory animals and humans involved in pesticides manufacture.
- 92244 WAHL, D. V., and CHAPMAN, W. H. The application of data on the survival of eggs of *Trichosomoides crassicauda* (Bellingham) to the control of this bladder parasite in laboratory rat colonies. *Lab. Anim. Care* 17(4):386-390. Aug. 1967. 410.9 P94
- 92245 WARREN, K. S., and PETERS, P. A. Comparison of penetration and maturation of *Schistosoma mansoni* in the hamster, mouse, guinea pig, rabbit, and rat. *Amer. J. Trop. Med. Hyg.* 16(6):718-722. Ref. Nov. 1967. 448.8 Am326
- 92246 WORMS, M. J. Parasites in newly imported animals. *Inst. Anim. Tech. J.* 18(1):39-47. Mar. 1967. QL55.15
- 92247 WYAND, D. S., and JONAS, A. M. *Pseudomonas aeruginosa* infection in rats following implantation of an indwelling jugular catheter. *Lab. Anim. Care* 17(3):261-266. June 1967. 410.9 P94
- 92248 YOSHINAGA, K., and ADAMS, C. E. Reciprocal transfer of blastocysts between the rat and rabbit. *J. Reprod. Fertil.* 14(2):325-328. Oct. 1967. 442.8 J8222
- 92249 ZICHA, B., and BENES, J. Disturbances of the pyridine nucleotides in irradiated organism. (Cz) *Czech. Min. Zemedel. Lesního Hospodar. Ustav Vedeckotech. Inform. Vet. Med.* 40(2):107-118. Ref. Feb. 1967. 41.9 C333  
English summary.  
In the liver of the rat.
- 92250 ZURLO F., and PIZZI D. Research on the therapeutic effects of a new antibiotic, rifochromomycin and a new chemotherapeutic, Ambilhar, on experimental toxoplasmosis in white mice. (It) *Acta Med. Vet.* 13(1/2):147-154. Ref. Jan./Apr. 1967. 41.8 Ac84  
English summary.  
R.P. 5278 and nitro-2-thiazolyl-2-imidazolidinone, 1-(5- , or Niridazole.
- 92251 ARRINGTON, L. R. Raising laboratory animals and other small stock. *Fla. Univ. Ext. Circ.* 326, 10 p. June 1968. 275.29 F66C
- 92252 FINDLAY, G. H. Factors considered in designing an animal house. *Inst. Anim. Tech. J.* 18(1):29-36. Mar. 1967. QL55.15
- 92253 GAERTNER, K. On the sociology of laboratory rats; physiologic psychology of group caging and individual caging. (Ge) *Deut. Tierärztl. Wochenschr.* 75(2):45-48. Jan. 1968. 41.8 D482

- 92254 HARVEY, J. W. Air conditioning of animal houses. *Inst. Anim. Tech. J.* 19(1):1-5. Mar. 1968. QL55.15  
Laboratory animals.
- 92255 JONES, R. J., and DYSTER, R. E. A rat restrainer. *Inst. Anim. Tech. J.* 18(2):96-98. Ref. June 1967. QL55.15
- 92256 LAMBOOY, J. P. An inexpensive and efficient small animal metabolism cage. *Lab. Anim. Care* 17(3):351-352. June 1967. 410.9 P94
- 92257 PERKINS, F. T., DARLOW, H. M., and SHORT, D. J. Further experience with Tego as a disinfectant in the animal house. *Inst. Anim. Tech. J.* 18(2):83-88. Ref. June 1967. QL55.15
- Miscellaneous
- 92258 BIELINSKA, K. White Italian geese are the best for production of fat livers. (Pol) *Drobiarstwo* 15(6):9-10. Feb. 1967. 47.8 P953  
Comparison with other breeds and remarks on feeding.
- 92259 BIELINSKA, K. White Italian goslings. (Pol) *Drobiarstwo* 15(3):6. Mar. 1967. 47.8 P953  
Care and feeding.
- 92260 BIGGS, P. M., THORPE, R. J., and PAYNE, L. N. Studies on genetic resistance to Marek's disease in the domestic chicken. *Brit. Poultry Sci.* 9(1):37-52. Ref. Jan. 1968. 47.8 B77
- 92261 BRIQUET, R. Autosexing breeds. (Por) *Pesquisa Agropecuar. Brasil.* 1:333-343. Ref. 1966. S15.P42  
English summary.  
Poultry.
- 92262 BRIQUET, R. Feathering, weight and sex in the Rhode Island Red breed. (Por) *Pesquisa Agropecuar. Brasil.* 1:201-206. Ref. 1966. S15.P42  
English summary.
- 92263 BUVANENDRAN, V. Studies on hatchability of duck eggs. *Ceylon Vet. J.* 15(2):26-32. June 1967. 41.8 C33  
Of the Khaki Campbell breed.
- 92264 CHICHIBABA, V. Organization of poultry breeding work in Czechoslovakia. (Bu) *Zhivotnovodstvo* 21(1):32-36. Jan. 1967. 49 Z62
- 92265 DAVIDSON, J., and others. Comparisons of heat loss from young cockerels by direct measurement and by indirect assessment involving body analysis. *Brit. Poultry Sci.* 9(1):93-109. Ref. Jan. 1968. 47.8 B77  
W. R. Hepburn, J. Mathieson, and J. D. Pullar, joint authors.  
Discusses experiments with protein in the diets of cocks.
- 92266 DESAI, R. N. Poultry breeding is yet in its infancy. *Indian Farming* 18(1):45-47. Apr. 1968. 22 In283
- 92267 EWING, L. L., and others. Effect of chronic reserpine on metabolism and chemical constituents of turkey testis. *Nature* 214(5094):1267-1268. Ref. June 17, 1967. 472 N21  
R. D. Montgomery, D. M. Baldwin, R. F. Clegg, J. F. Tierce, M. A. Maloney, and J. C. Gilbreath, joint authors.
- 92268 GAVORA, J. Random mated control populations and their application in poultry research and in practice. (Cz) *Pol'nohospodarstvo* 14(2):154-157. Ref. 1968. 19.5 P752
- 92269 GOETTINCK, P. F. Genetic aspects of skin and limb development. *Curr. Top. Develop. Biol.* 1:253-283. 1966. QL951.C8  
Review of the literature.  
Chick embryo.
- 92270 GRABER, J. W., FRANKEL, A. I., and NALBANDOV, A. V. Hypothalamic center influencing the release of LH in the cockerel. *Gen. Compar. Endocrinol.* 9(2):187-192. Ref. Oct. 1967. 444.8 G28
- 92271 GRACIKOVA, A. Light, an important factor in the breeding of laying hens. (Cz) *Chovatel* 5(10):147. Oct. 1966. SF1.C45
- 92272 GYLES, N. R., and THOMPSON, F. N. How to select broiler breeder cockerels. *Poultry Internat.* 7(1):22-30. Jan. 1968. 47.8 P8698
- 92273 JONSSON, E. Structure and localization of broiler breeding. (Sw) *Lantmannen* 78(24):22-23. Nov. 25, 1967. 11 L234
- 92274 JOUBERT, J. J. Selection efficiency in the breeding of a dominant White [Leghorn] broiler fowl. *S. Afr. Soc. Anim. Prod. Proc.* 5:160-162. Ref. 1966. 49.9 So822
- 92275 LAKE, P. E. Physiology and biochemistry of poultry semen. *Advan. Reprod. Physiol.* 1:93-123. Ref. 1966. QP251.A3
- 92276 LONG, P. L. The effect of breed of chickens on resistance to Eimeria infections. *Brit. Poultry Sci.* 9(1):71-78. Ref. Jan. 1968. 47.8 B77
- 92277 MALIK, D. D., and SINGH, R. Heritability estimates of certain economic egg traits of a White Leghorn population. *Punjab Agr. Univ. J. Res.* 4(1):117-120. Ref. Mar. 1967. S19.P8
- 92278 MANNEL, K. A hematological study of the Black Australorp in relation to certain economic characteristics. III. Number of erythrocytes. *S. Afr. J. Agr. Sci.* 10(1):19-30. Ref. Mar. 1967. 24 Su3
- 92279 MANNEL, K. A haematological study of the Black Australorp and New Hampshire in relation to certain economic characteristics. IV. Packed cell volume and combined values. *S. Afr. J. Agr. Sci.* 10(2):311-322. Ref. June 1967. 24 Su3
- 92280 MARTINA, C., VIZITIU, V., and FEREDean, T. A study on the technique of artificial insemination of turkey hens. (Rum) *Rev. Zooteh. Med. Vet.* 17(10):24-28. Oct. 1967. 49 P943  
English summary.
- 92281 MCINTOSH, J. R., and PORTER, K. R. Microtubules in the spermatids of the domestic fowl. *J. Cell Biol.* 35(1):153-173. Ref. Oct. 1967. 442.8 J828
- 92282 RANGANATHAN, M., ARUMUGAM, M. P., and NATARAJAN, R. A study on the dressing of Rhode Island Red, White Leghorn and Desi cockerels. *Indian Vet. J.* 44(11):956-961. Nov. 1967. 41.8 In2  
Weight shrinkage and meat yield.
- 92283 SINGSEN, E. P. Poultry production potentials and limitations to the year 2000. *Int. Congr. Nutr. Proc.*, 7th Congr., v. 4:902-905. Ref. 1966, pub. 1967. TX345.I53 1966  
Egg and poultry meat increases through improved breeding and feeding.
- 92284 SON, C. K. The possibility of hybridizing to produce meat poultry. (Por) *Mozambique. Serv. Vet. An.* 10:137-142. 1962, pub. 1966. 41.9 M872
- 92285 STEFANESCU, M., and MARANDICI, A. Problems of organization in fowl selection. (Rum) *Rev. Zooteh. Med. Vet.* 17(10):15-23. Oct. 1967. 49 P943
- 92286 STRYDOM, G. S., and ERASMUS, J. E. Genetic analysis of a closed flock of White Leghorns. I. Effect of date of hatching on production properties. (Af) *S. Afr. J. Agr. Sci.* 10(1):155-160. Mar. 1967. 24 Su3  
English summary.
- 92287 STRYDOM, G. S., and ERASMUS, J. E. Genetic analysis of a closed flock of White Leghorns. II. Selection for increased egg production and livability. (Af) *S. Afr. J. Agr. Sci.* 10(2):387-394. Ref. June 1967. 24 Su3  
English summary.
- 92288 STRYDOM, G. S., and ERASMUS, J. E. Genetic analysis of a closed flock of White Leghorns. III. Correlated responses as a result of selection for egg production and livability. (Af) *S. Afr. J. Agr. Sci.* 10(3):617-621. Ref. Sept. 1967. 24 Su3  
English summary.
- 92289 TAKKAR, G. L. The morphology and histochemistry of the chromatoid body in the spermatogenesis of duck. *Punjab Univ. Res. Bull.* 18(1/2):183-189. Ref. June 1967. 513 Ea72
- 92290 VERMA, O. P., and SHARMA, M. L. Climatic stress on the productivity of White Leghorns and remedy through feed additives. *Punjab Agr. Univ. J. Res.* 4(2):279-284. Ref. June 1967. S19.P8



## POULTRY

## Breeds and Breeding

- 92291 WOOD-GUSH, D. G. M., and GOWER, D. M. Studies on motivation in the feeding behaviour of the domestic cock. *Anim. Behav.* 16(1):101-107. Feb.1968. 410 B77
- 92292 ZANONI, G. Artificial insemination in poultry breeding. (It) *Inform. Zootec.* 14(15/16):10. Aug.15,31,1967. 49 In3
- 92293 ZIEBA, J. Care of cockerels. (Pol) *Drobiarstwo* 15(5):5-6. May 1967. 47.8 P953
- 92294 ZIEBA, J. Characteristics of a cock well suited for breeding. (Pol) *Drobiarstwo* 15(1):6-7. Jan.1967. 47.8 P953
- 92295 ZMLJEWSKA, Z. Increased importance of amateur type poultry breeds. (Pol) *Drobiarstwo* 15(2):12-13. Feb.1967. 47.8 P953

## Feeds and Feeding

- 92296 ALKIEWICZ, J. Feeding chicks from the first day from hatching through the age of three months. (Pol) *Drobiarstwo* 15(2):5-6. Feb.1967. 47.8 P953
- 92297 BALLOUN, S. L. Improvement of diets for chicks and turkeys by amino acid supplementation and additives. *World Rev. Anim. Prod.* 3(12):87-98. Apr./June 1967. 49 W89
- 92298 BLETNER, J. K., and GOAN, H. C. TVA lakes fish meal as a feedstuff for chickens. *Tenn. Farm Home Sci. Progr. Rep.* 65:15-18. Jan./Mar.1968. 100 T25F
- 92299 BOLTON, W. Poultry nutrition. Ed. 3. Great Brit. Min. Agr. Fish. Food. Bull. 174,102 p. 1967. 10 G794B
- 92300 BOSTICCO, A. Anthocyanin pigments of grapes as factors in growth of chicken (experimental contribution). (It) *Turin. Univ. Fac. Sci. Agr. Ann.* 1:41-51. Ref. 1961-62, pub.1966. S9, T8  
English summary.
- 92301 BOYAVAL, P. Perspectives of poultry production. (Fr) *PROVIMI* (Proteines, Vitamines, Mineraux) *Inform.* 51:2-3. Nov.1967. 389.78 P942  
Improved feed, higher egg production.
- 92302 BOYD, F. M., and EDWARDS, H. M. Influence of dietary fats on infections in chicks. *Int. Congr. Nutr. Proc.*, 7th Congr., v.1:209-211. 1966, pub.1967. TX345.153 1966
- 92303 BRAMBILA, S., and HILL, F. W. Further observations on the nutritional properties of re-constituted triglycerides. *Int. Congr. Nutr. Proc.*, 7th Congr., v.5:429. 1966, pub.1967. TX345.153 1966  
Chick tests.
- 92304 BROWN, W. O., JACKSON, N., and FOSTER, W. H. Barley as the main energy source for caged layers. *Northern Ireland Rec. Agr. Res.* 16(1):63-67. Ref. Aug.1967. 10 N81R
- 92305 CAREW, L. B., and CARDONA A., G. Study on the use of molasses and other byproducts of sugar in the nutrition of chickens. (Sp) *ICA* (Inst. Colombiano Agropecuar.) *Rev.* 2(2):79-91. June 1967. S15.1592  
English summary.
- 92306 COUCH, J. R., and others. The hypocholesterolemic activity of guar gum in chicks. *Int. Congr. Nutr. Proc.*, 7th Congr., v.5:445-446. 1966, pub.1967. TX345.153 1966  
Y. K. Bakshi, F. M. Farr, and C. R. Creger, joint authors.
- 92307 DAN, I. Problems of nutrition of poultry in industrial complexes. II. Stimulation of digestion and metabolism. (Rum) *Rev. Gosp. Agr. Stat* 18(12):30-33; 19(1):23-26. Dec.1966-Jan.1967. 21 R32
- 92308 DAVIS, P. N., NORRIS, L. C., and KATZER, F. H. Metabolism and utilization of iron by the chick. *Int. Congr. Nutr. Proc.*, 7th Congr., v.5:675-678. 1966, pub.1967. TX345.153 1966
- 92309 DEMERS, J. M., and ALARY, J. G. Effect of different dietary carbohydrates on the lipid metabolism in the duckling. *Int. Congr. Nutr. Proc.*, 7th Congr., v.5:381-385. 1966, pub.1967. TX345.153 1966
- 92310 ELZES, E. Fattening of turkeys. (Du) *Neth. Prov. Dir. Rijkslandbouwvoorlichting Friesland. Voorlichting Onderz.* *Grasland Veehouderij* 1965:126-129. 1966. SF15.N4A3
- 92311 FARUGA, A. How to decrease seasonal variations in egg production. (Pol) *Drobiarstwo* 15(1):8. Jan.1967. 47.8 P953  
Through proper feeding and farm management.
- 92312 FULLER, H. L., POTTER, D. K., and CHANG, S. I. An investigation of the mechanism for detoxication of dietary tannins in aves. *Int. Congr. Nutr. Proc.*, 7th Congr., v.5:853. 1966, pub.1967. TX345.153 1966  
Poultry.
- 92313 GERENCSE, V. Protein-saving rearing of layer-hybrid young hens. (Hu) *Baromfitenyesztes* 10(3):8-9. Oct.1967. 47.8 B262
- 92314 GILL, R., PAYNE, C. G., and LEWIS, D. Dietary protein and voluntary intake. *Int. Congr. Nutr. Proc.*, 7th Congr., v.5:193-195. 1966, pub.1967. TX345.153 1966  
In poultry.
- 92315 GRIGOR'EV, I. G. Requirements of amino acids by chicks. (Rus) *Vestnik Sel'skokhoz. Nauk.* [Moscow] 5:70-74. Ref. May 1967. 20 V633
- 92316 GRIGOR'EV, N. G. The amino acid requirements for broilers at the starter stage. (Rus) *Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina Dokl.* 5:32-34. May 1967. 20 Akl
- 92317 GRIGOR'EV, N. G. Studying chick requirements in amino acids. (Rus) *Khim. Sel'skom Khoz.* 5(5):52-55. May 1967. 385 K524
- 92318 GUENTHNER, E., and others. Pelleted feed for range turkeys. *S. Dak. Farm Home Res.* 18(2):6-7. Spring 1967. 100 So828  
C. W. Carlson, W. Kohlmeier, and A. W. Dittman, joint authors.
- 92319 GUILLAUME, J. Influence of separated distribution of nitrogen and non-nitrogenous nutrients on appetite, growth and glucide metabolism of the chick. (Fr) *Int. Congr. Nutr. Proc.*, 7th Congr., v.2:229-233. 1966, pub.1967. TX345.153 1966
- 92320 GUNTER, K. Utilization of minerals, especially calcium and phosphorus, in the nutrition of poultry and pigs. (Ge) *World Rev. Anim. Prod.* 3(14):38-47. Ref. July/Sept.1967. 49 W89
- 92321 HARMS, R. H. Delaying sexual maturity of broiler-type pullets. *Feeds Illus.* 18(9):15-18. Sept.1967. 389.78 F326  
By applying various feeding programs.
- 92322 HARMS, R. H., DAMRON, B. L., and WALDROUP, P. W. Influence of energy level upon performance and methionine requirement of the laying hen. *Int. Congr. Nutr. Proc.*, 7th Congr., v.5:160-163. 1966, pub.1967. TX345.153 1966
- 92323 HATIEGANU, V., and MOSOLOVA, L. Production effect and nutritive value of peas, soybeans, horsebeans with and without heat treated clover meals in the feeding rations of chicks. (Rum) *Inst. Agron. Dr. Petru Groza. Lucrari Stiint. Ser. Med. Vet. Zootehnie* 21:231-244. Ref. 1965, pub.1966. SF604.15  
English summary.
- 92324 HATIEGANU, V. Substitution of some leguminous meals with and without heat treated clover meals in the feed rations of chicks. (Rum) *Inst. Agron. Dr. Petru Groza. Lucrari Stiint. Ser. Med. Vet. Zootehnie* 21:255-267. 1965, pub.1966. SF604.15  
English summary.
- 92325 HATTENHAUER, H., and WORMANN, A. Studies on the effects of different vitamin "E" supplements on the reproduction performance of fowl. (Ge) *Arch. Geflugelzucht Kleintierkunde* 16(5):251-264. 1967. 47.8 Ar22  
English summary.
- 92326 HILL, F. W., and BRAMBILA, S. Deficiencies of fatty acid-based diets for chicks. *Int. Congr. Nutr. Proc.*, 7th Congr., v.5:801-805. 1966, pub.1967. TX345.153 1966

- 92327 HOLDER, D. P., and others. The effect of rations on vitelline membrane strength. *Poultry Sci.* 47(1):326-329. Jan.1968. 47.8 Am33P  
G. W. Newell, J. G. Berry, and R. D. Morrison, joint authors.
- 92328 IL'IN, N. M. Using synthetic lysine and methionine in feeding chicks. (Rus) *Khim. Sel'skom Khoz.* 5(6):49-53. Ref. June 1967. 385 K524
- 92329 IVANOV, K., and BACHEV, N. Raising of young poults. (Bu) *Zhivotnovudstvo* 21(4):17-21. Apr.1967. 40 Z62  
Chiefly feeding.
- 92330 KIRKPATRICK, H. R., and FULTON, R. B. Methionine and choline supplementation of diets for laying hens. *Northern Ireland Rec. Agr. Res.* 16(1):69-74. Ref. Aug.1967. 10 N81R
- 92331 KRATZER, F. H. Chelates in poultry nutrition. *Amer. Feed Manufacturers Ass. Nutr. Counc. Proc.*, 27th Semi-Ann. Meeting:22-24. Ref. 1967. 389.79 Am32
- 92332 LOCNISKAR, F. Hydrolized feather meal as feed. (Sl) *Soc. Kmetijstvo Gozdarstvo* 18(6):135-136. Ref. Apr.22,1967. 21.5 So14  
In poultry nutrition.
- 92333 LUCAS, J. M. S., OWERS, A. C., and SCOTT, J. F. Dimetridazole. VI. Turkey growth studies. *Brit. Poultry Sci.* 9(1):1-11. Ref. Jan.1968. 47.8 B77  
Administered in food.
- 92334 MAJCHRZAK, H. Preparing dried greens for the fall-winter season. (Pol) *Drobiarstwo* 15(4):8-9. Apr.1967. 47.8 P953  
Poultry.
- 92335 MARAN, C. Mushrooms as supplements to the feed rations for poultry. (Cz) *Chovatel* 5(10):148-149. Oct.1966. SF1.C45
- 92336 MARION, J. E., BOGGESS, T. S., and WOODROOF, J. G. Effect of dietary fat and protein on lipid composition and oxidation in chicken muscle. *J. Food Sci.* 32(4):426-429. Ref. July/Aug.1967. 389.8 F7322
- 92337 MATHERS, J. W., and HILL, R. The influences of stage of maturity and level of dietary manganese on the total body manganese content of pullets. *Int. Congr. Nutr. Proc.*, 7th Congr., v.5:729-731. 1966, pub.1967. TX345.I53 1966
- 92338 MAZANOWSKA, A., and CHOLOCINSKA, T. The influence of rape-oil added to feed of different crude protein content upon the performance of broiler chickens. (Pol) *Poznan Cent. Lab. Przemyslu Jajczarsko-Drobiarskiego. Biul. Inform.* 9(2):79-88. Ref. June 1967. 47.9 P87  
English summary.
- 92339 MORIMOTO, H., and others. Studies on the feeding standard for broiler chicks. 3-7. *Chiba-City Nat. Anim. Indus. Spec. Rep.* 8, 146 p. Mar.1967. 49.9 C436  
Includes breeds.
- 92340 MRAZ, F. R. Development of embryos and chicks administered high levels of  $^{90}\text{Sr}$ - $^{90}\text{Y}$ . *Int. Congr. Nutr. Proc.*, 7th Congr., v.5:841-845. 1966, pub.1967. TX345.I53 1966
- 92341 MUCHA, E. The quality of feed concentrates for poultry. (Pol) *Drobiarstwo* 15(4):11. Apr. 1967. 47.8 P953
- 92342 NEGRUTIU, E., and others. Observations on the nutritive value of some types of mixed feeding stuffs for chicks and hybrid ducks. (Rum) *Inst. Agron. Dr. Petru Groza. Lucrari Stiint. Ser. Med. Vet. Zootehnie* 21:245-253. 1965, pub.1966. SF604.I5  
G. Baltan, O. Popa, V. Hatieganu, I. Suci, C. C. Velea, and I. Sauteanu, joint authors.  
English summary.
- 92343 PAWSON, E. W. The effect of calcium sulphate and different protein levels on albumen quality and other production characteristics. (Af) *S. Afr. J. Agr. Sci.* 10(3):735-739. Sept.1967. 24 Su3  
English summary.
- 92344 PAWSON, E. W. Methionine and methylating agents in laying rations. (Af) *S. Afr. J. Agr. Sci.* 10(1):175-186. Ref. Mar.1967. 24 Su3  
English summary.
- 92345 PETERSON, D. W., LILYBLADE, A. L., and HAMILTON, W. H. Retardation of fatty infiltration of muscle in hereditary muscular dystrophy of chicken by diet or exercise. *Int. Congr. Nutr. Proc.*, 7th Congr., v.5:239-240. 1966, pub.1967. TX345.I53 1966
- 92346 SAMBETH, W., and NESHEIM, M. C. Separation of soybean proteins into fractions with different biological activity. *Int. Congr. Nutr. Proc.*, 7th Congr., v.5:259-261. 1966, pub.1967. TX345.I53 1966  
Chick trial.
- 92347 SATHE, B. S., and MCCLYMONT, G. L. Nutritional evaluation of meat meals for poultry. VI. Association of growth promotion, protein digestibility, and hot-water-soluble protein content, and effect of amino acid supplementation. *Australian J. Agr. Res.* 19(1):171-179. Ref. Jan.1968. 23 Au783
- 92348 SAUNDERS, C. F., and others. Egg yolk pigmentation as influenced by B.H.T., Vitamin E and sunflower oil. *S. Afr. J. Agr. Sci.* 10(2):373-386. Ref. June 1967. 24 Su3  
J. P. Hayes, J. Erasmus, J. P. Jooste, P. H. C. Du Plessis and E. L. Venter, joint authors.
- 92349 SCOTT, M. L. Metabolic role of selenium in nutritional myopathies of chicks and poults. *Int. Congr. Nutr. Proc.*, 7th Congr., v.5:776. 1966, pub.1967. TX345.I53 1966
- 92350 SCOTTI, G. G. Feeding trials with *Posidonia oceanica* (It) *Avicoltura* 37(3):85-93. Mar. 1968. 47.8 R523  
English summary, p.61.  
Seaweed meal; used for layers.
- 92351 SELL, J. L., COX, A. C., and HAJI, R. Magnesium deficiency and reproduction in the chicken. *Int. Congr. Nutr. Proc.*, 7th Congr., v.5:671. 1966, pub.1967. TX345.I53 1966
- 92352 SEVEN HILLS POULTRY RESEARCH STATION. Feed additives in poultry nutrition. *New S. Wales. Dep. Agr. Poultry Notes*, Apr.1967:5-9. 47.9 N472
- 92353 SUSO, F. A., and EDWARDS, H. M. Whole body counter studies of  $\text{Zn}^{65}$  absorption. *Int. Congr. Nutr. Proc.*, 7th Congr., v.5:739-744. 1966, pub. 1967. TX345.I53 1966  
In poultry.
- 92354 SWART, L. G. Energy and protein levels in broiler starting rations. (Af) *S. Afr. J. Agr. Sci.* 10(1):187-195. Ref. Mar.1967. 24 Su3  
English summary.
- 92355 SWART, L. G. Energy in poultry feeding. *Farming S. Afr.* 43(3):21,24-25. June 1967. 24 So842  
Energy content of feed.
- 92356 UZIEBLO, L. How to feed poults. (Pol) *Drobiarstwo* 15(5):6-7. (Cont.) May 1967. 47.8 P953
- 92357 UZIEBLO, L. How to feed poults. (Pol) *Drobiarstwo* 15(6):10-11. (Concl.) June 1967. 47.8 P953
- 92358 VARMA, K. A. Utilization of poor vegetable proteins at high levels of feeding. *J. Food Sci. Technol. [Mysore]* 4(4):177. Dec.1967. -389.8 J823  
Chicks, rats.
- 92359 VERMEERSCH, G., and VANSCHOUBROEK, F. The quantification of the effect of increasing levels of various fats on body weight gain, efficiency of food conversion and food intake of growing chicks. *Brit. Poultry Sci.* 9(1):13-30. Ref. Jan.1968. 47.8 B77
- 92360 VOHRA, P., and KRATZER, F. H. Effect of various phosphates on zinc and vitamin D3 requirements of turkey poults. *Int. Congr. Nutr. Proc.*, 7th Congr., v.5:745-748. Ref. 1966, pub. 1967. TX345.I53 1966
- 92361 WARING, J. J., ADDISON, R. F., and BROWN, W. O. A comparative study of energy utilisation by the laying hen from diets containing a high proportion of fat and diets made up mainly from carbohydrate sources. *Brit. Poultry Sci.* 9(1):79-86. Ref. Jan.1968. 47.8 B77
- 92362 WESSELS, J. P. H. The amino acid supplementation of sunflower meal for the feeding of chickens. *S. Afr. J. Agr. Sci.* 10(2):411-417. June 1967. 24 Su3



- 92363 WESSELS, J. P. H. A comparison of the response of different peanut meals to amino acid supplementation. *S. Afr. J. Agr. Sci.* 10(1): 113-121. Ref. Mar.1967. 24 Su3  
For poultry feeding.
- 92364 WIESE, A. C., SAUTER, E. A., and PETERSEN, C. F. Dietary influence on blood spotting in eggs. *Int. Congr. Nutr. Brocc.*, 7th Congr., v.5: 663-666. 1966, pub.1967. TX345.153 1966
- 92365 WOODHAM, A. A., and MCDONALD, I. A chick growth test for the evaluation of protein quality in cereal-based diets. *Brit. Poultry Sci.* 9(1):53-63, 65-69. Jan.1968. 47.8 B77  
1, Development of the method, by A. A. Woodham; 2, Comparison of the Total Protein Value method, by A. A. Woodham and I. McDonald.
- 92366 WOODHAM, A. A. The evaluation of protein supplements with chicks at near-practical levels of protein feeding. *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:341-343. 1966, pub.1967. TX345.153 1966
- 92367 ZIEBA, J. Spring nutritional requirements of laying hens. (Pol) *Dobriarstwo* 15(4):4-5. Apr.1967. 47.8 P953
- Veterinary Medicine
- 92368 ABRAMOVICI, A. Refractometric study of physico-chemical constants of chick embryo plasma during normal development. (Fr) *Acad. Sci. Compt. Rend. Ser. D*, 264(15):1875-1878. Ref. Apr.10,1967. 505 P21
- 92369 ADAMEC, O., and others. Contribution to the study of the effect of various hormone preparations as inhibitors of egg laying in hens—Antigest. (Cz) *Pol'nohospodarstvo* 14(2):139-144. 1968. 19.5 P752  
M. Ledec, A. Grom, and J. Kosutzky, joint authors.  
English summary.  
A progesterone-estradiol compound.
- 92370 AGGARWAL, C. K., MALIK, D. D., and SAXENA, V. P. Effects of synthetic sex hormones injections on pullets. *Punjab Agr. Univ. J. Res.* 4(2):273-278. Ref. June 1967. S19.P8  
Testosterone propionate and stilbestrol dipropionate.
- 92371 ALLEN, E., and others. Inhibition by cyclopropene fatty acids of the desaturation of stearic acid in hen liver. *Lipids* 2(5):419-423. Ref. Sept.1967. QP751.L5  
A. R. Johnson, A. C. Fogerty, J. A. Pearson, and F. S. Shenstone, joint authors.
- 92372 ANANTHARAMAN, K. Growth depressing factors in groundnut. *J. Food. Sci. Technol.* 4(4): 176. Dec.1967. 389.8 J823  
Poultry and rats studied.
- 92373 ANDRE, V. Psychic and somatic injury of the laying hen due to caging. (Ge) *Deut. Tierarztl. Wochenschr.* 74(18):460-462. Sept.15, 1967. 41.8 D482
- 92374 ARBOR ACRES FARM INDIA LTD. General sanitation programme for big and small poultry farms. *Indian Poultry Gaz.* 51(4):33-36. Jan. 1968. 47.8 In22
- 92375 ARNASON, B. G., and JANKOVIC, B. D. Immunoglobulins after surgical bursectomy in chickens. *J. Immunol.* 99(5):917-924. Ref. Nov.1967. 448.8 J8232
- 92376 AYCARDI B., E. Comparative study of the resistance to Newcastle disease infection of birds inoculated with different vaccines. (Sp) *ICA (Inst. Colombiano Agropecuario.) Rev.* 2(2):119-122. June 1967. S15.1592  
English summary.  
In Leghorn chickens.
- 92377 BAKER, J. R., HOWELL, J. M., and THOMPSON, J. N. Hypervitaminosis A in the chick. *Brit. J. Exp. Pathol.* 48(5):507-512. Ref. Oct. 1967. 448.8 B772
- 92378 BARON, S., and others. Some factors affecting the interferon-induced antiviral state. *Soc. Exp. Biol. Med. Proc.* 125(4):1320-1326. Ref. Aug./Sept.1967. 442.9 S01  
C. E. Buckler, H. B. Levy, and R. M. Friedman, joint authors.  
Newcastle disease virus.
- 92379 BARRY, R. D., and BUKRINSKAYA, A. G. The nucleic acid of Sendai virus and ribonucleic acid synthesis in cells infected by Sendai virus. *J. Gen. Virol.* 2, pt.1:71-79. Ref. Jan. 1968. QR360.A1J6  
In chick embryos.
- 92380 BARRY, R. D., and DAVIES, P. The sedimentation of influenza virus and its RNA in sucrose density gradients. *J. Gen. Virol.* 2, pt.1:59-69. Ref. Jan.1968. QR360.A1J6  
Includes fowl plague.
- 92381 BAUER, H., and JANDA, H. G. Group-specific antigen of avian leukosis viruses, virus specificity and relation to an antigen contained in Rous mammalian tumor cells. *Virology* 33(3): 483-490. Ref. Nov.1967. 448.8 V81
- 92382 BAUMEL, J. J. The characteristic asymmetrical distribution of the posterior cerebral artery of birds. *Acta Anat.* 67(4):523-549. Ref. 1967. 444.8 Ac82  
Includes poultry.
- 92383 BENGELSDORFF, H. J. Infectious bronchitis of fowls — its importance and its control with Resprovac. *Blue Book Vet. Prof.* 13:16-17. Ref. 1967. 41.9 B61Ae
- 92384 BERGQUIST, H., and HORSTMANN, E. Polyribosomes with spiral structure in the central nervous system of young chick embryo. (Ge) *Naturwissenschaften* 54(20):544-545. Oct.15, 1967. 474 N213
- 92385 BETZ, T. W. The effects of embryonic pars distalis grafts on the development of hypophysectomized chick embryos. *Gen. Compar. Endocrinol.* 9(2):172-186. Ref. Oct.1967. 444.8 G28
- 92386 BLAW, M. E., COOPER, M. D., and GOOD, R. A. Experimental allergic encephalomyelitis in agammaglobulinemic chickens. *Science* 158 (3805):1198-1200. Ref. Dec.1,1967. 470 Sci2
- 92387 BLUM, J. C. Transfer of riboflavin to the egg by the hen. (Fr) *Int. Congr. Nutr. Proc.*, 7th Congr., v.5:550-553. 1966, pub.1967. TX345.153 1966
- 92388 BORTOLAMI, R., and VEGGETTI, A. Function of the trigeminal mesencephalic nucleus in duck. *Riv. Biol.* 60(2):325-334. Ref. Apr./June 1967. 442.8 R52  
Text also in Italian, p.307-324.
- 92389 BRADA, W. Studies on eimeriosis in birds; observations regarding the etiology. (Por) *Pesquisa Agropecuar. Brasil.* 1:321-328. Ref. 1966. S15.P42  
English summary.
- 92390 BUENO, R. C. Newcastle disease. (Por) *Aves Ovos* 2(8):6-8, 10. May/June 1967. SF481.A8
- 92391 BULOW, V. VON. Studies on the neutralisation test in infectious bronchitis in poultry. (Ge) *Zentralbl. Veterinarmed. Reihe B*, 14 (4):321-342. Ref. June 1967. 41.8 Z52  
English summary.
- 92392 BUS, A. Measurement of acid-base conditions and blood gases in the blood of Czechoslovak poultry with the Astrup's method. (Cz) *Czech. Min. Zemedel. Lesniho Hospodar. Ustav Vedeckotech. Inform. Vet. Med.* 40(10):577-580. Ref. Oct.1967. 41.9 C333  
English summary.
- 92393 CERNIK, K., and CERNIKOVA, E. The influence of temperature on the hemagglutination activities and infectivity of some strains of the Newcastle disease virus. II. (Cz) *Czech. Min. Zemedel. Lesniho Hospodar. Ustav Vedeckotech. Inform. Vet. Med.* 40(2):83-92. Ref. Feb.1967. 41.9 C333  
English summary.  
During storage.
- 92394 CHAND, K. Studies on the incidence of common helminths in the domestic fowl. *Punjab Agr. Univ. J. Res.* 4(1):127-135. Ref. Mar. 1967. S19.P8
- 92395 CHI, P. Y. The effects of progesterone upon the production of laying pullets. (Ch) *Agr. Ass. China J. (n.s.)* 57:79-82. Ref. Mar.1967. 22.5 Ag862  
English summary.

- 92396 CHO, K. S., LEE, C. K., and LIM, I. C. Studies on avian vibronic hepatitis. I. Isolation of caustive agents. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(5):49-52. Ref. Sept.1967. 22.5 K843  
English summary.
- 92397 CLAWSON, C. C., COOPER, M. D., and GOOD, R. A. Lymphocyte fine structure in the bursa of Fabricius, the thymus, and the germinal centers. Lab. Invest. 16(3):407-421. Ref. Mar. 1967. 448.8 L11  
Poultry.
- 92398 CLAYTON, R. M., and TRUMAN, D. E. S. Molecular structure and antigenicity of lens proteins. Nature 214(5094):1201-1204. Ref. June 17,1967. 472 N21
- 92399 COPP, D. H., COCKCROFT, D. W., and KUEH, Y. Ultimobranchial origin of calcitonin, hypocalcemic effect of extracts from chicken glands. Can. J. Physiol. Pharmacol. 45(6):1095-1099. Ref. Nov.1967. 444.8 C16
- 92400 COURINGTON, D., and VOGT, P. K. Electron microscopy of chick fibroblasts infected by defective Rous sarcoma virus and its helper. J. Virol. 1(2):400-414. Ref. Apr.1967. QR360.J6
- 92401 CROMACK, A. S. An electron microscope study of virus-like particles in chick embryo and L cell cultures. J. Gen. Virol. 2,pt.1:195-198. Ref. Jan.1968. QR360.A1J6
- 92402 CUMMING, R. B. Control of poultry respiratory diseases. Meggitt Feed Leadership 11:2-4. Feb./Apr. 1967. SF95.A1M4
- 92403 CUMMING, R. B. Dietary sodium and potassium in infectious bronchitis of chickens. Australian Vet. J. 43(4):156. Apr.1967. 41.8 Au72
- 92404 DEVOS, A. CRD, prevention and treatment with consideration of air contamination. (Fl) Vlaams Diergeneesk. Tijdschr. 36(5):262-271. Ref. May 1967. 41.8 V84  
English summary.  
Poultry.
- 92405 DEVOS, A., and VIAENE, N. Survey of poultry diseases, 1966. (Fl) Vlaams Diergeneesk. Tijdschr. 36(5):272-274. May 1967. 41.8 V84
- 92406 DI GIUSEPPE, F. Teniasis of galliformes according to Euzeby. (It) Vet. Ital. 18(9/10):584-589. Sept./Oct.1967. 41.8 C87  
Including domestic species.
- 92407 DOROSHO, I. N., BAIDEVLYATOV, A. B., and GAPLEVSKII, I. N. Disease of geese of unknown etiology. (Rus) Veterinariya [Kiev] 12:84-87. 1967. SF604.V44
- 92408 ECKES, P. Therapieversuch mit Chloromycetin bei mit Salmonella pullorum kunstlich infizierten Kuhen [Therapy experiments with chloromycetin in Salmonella pullorum artificially infected chicks]. Munich. Univ. Tierarztl. Fak. [Inaug.-Diss.] 14,53 p. 1966. 41.2 M9222  
Bibliography, p.47-53.
- 92409 EICHBERG, J. Untersuchungen zur funktionellen Dynamik der Nebennieren beim Kuhen [Investigations on functional dynamics of adrenal glands of chicks]. Munich. Univ. Tierarztl. Fak. [Inaug.-Diss.] 30,57 p. 1967. 41.2 M9222  
English summary.  
Bibliography, p.47-57.
- 92410 ENGBAEK, H. C., and others. Mycobacterium avium. A bacteriological and epidemiological study of M. avium isolated from animals and man in Denmark. 2. Strains isolated from man. Acta Pathol. Microbiol. Scand. 72(2):295-312. Ref. 1968. 448.3 Ac8  
B. Vergmann, I. Baess, and M. W. Bentzon, joint authors.
- 92411 EROKHINA, S. G., VASILIEVA, E. F., and RYAGIN, S. T. Ornithosis of poultry and wild fowl. (Rus) Veterinariya 8:51-53. Aug.1967. 41.8 V6426
- 92412 FILION, R., and others. Respiratory infection of the turkey caused by a bacteria belonging to Bordetella bronchiseptica. (Fr) Can. J. Comp. Med. Vet. Sci. 31(5):129-134. May 1967. 41.8 C162  
S. Cloutier, E. R. Vrancken, and G. Bernier, joint authors.  
English summary.  
Poult; chiefly bronchopneumonia.
- 92413 FINKBEINER, H. Untersuchungen über die Thermoresistenz von Mycobacterium Avium [Studies on thermoresistance of Mycobacterium avium]. Munich. Univ. Tierarztl. Fak. [Inaug.-Diss.] 16,45 p. 1966. 41.2 M9222  
Bibliography, p.40-45.
- 92414 FRANCO, J., DIANOVSKA, M., and CHRENKO, J. Contribution to the study of fowl plague virus, strain Rostock. (Cz) Folia Vet. 10(1):77-82. Ref. 1966. 41.8 F712  
English summary.
- 92415 FREEMAN, B. M. Effect of stress on the ascorbic acid content of the adrenal gland of Gallus domesticus. Compar. Biochem. Physiol. 23(1):303-305. Ref. Oct.1967. 444.8 C73
- 92416 FRITZ, J. C., and ROBERTS, T. Use of toe ash as a measure of calcification in the chick. Ass. Offic. Anal. Chem. J. 51(3):591-594. May 1968. 381 As7
- 92417 GALLARDO, A. E. Treatment of chronic respiratory disease in hybrid chickens with a combination of benzathine penicillin G, benzylpenicillin sodium antihistamine, and dihydrostreptomycin. (Sp) Gac. Vet. 29(200):103-115. Mar.1967. 41.8 G112  
English summary.
- 92418 GERLACH, R. Stufenkontrollen auf Salmonellen in einer Geflügelschlachtere. [Gradual control of Salmonellae in a poultry slaughterhouse]. Munich. Univ. Tierarztl. Fak. [Inaug.-Diss.] 19,39 p. Ref. 1966. 41.2 M9222
- 92419 GERMAN, V. V. The characteristics of a histological picture in the combined course of mycoplasmosis and smallpox in turkeys. (Rus) Veterinariya [Kiev] 12:7-75. 1967. SF604.V44
- 92420 GLIHA, B., and LAZAR, B. Health problems in the raising of broiler parent stock. (Sl) Soc. Kmetijstvo Gozdarstvo 18(6):123-125. Apr.22, 1967. 21.5 So14  
English summary.  
Mortality, diseases.
- 92421 HERGOUTH, S. Lymphomatosis of broilers. (Sl) Soc. Kmetijstvo Gpzdarstvo 18(6):117-123. Apr.22,1967. 21.5 So14  
German summary.
- 92422 HILBRING, E. E. Kritische Auswertung von 18,000 geflügelsektionen [Critical evaluation of 18,000 poultry dissections]. Munich. Univ. Tierarztl. Fak. [Inaug.-Diss.] 21,69 p. 1966. 41.2 M9222  
Bibliography, p.53-69.  
Mortality causes and disease diagnosis.
- 92423 HORTON-SMITH, C., TANELIAN, Z., and ISKANDARANI, A. The chemotherapy of avian coccidiosis in Lebanon. I. The effect of a mixture of sulphaquinoxaline and pyrimethamine upon experimentally induced infections with Eimeria acervulina-type coccidia in the domestic fowl. Magon. Publ. Ser. Sci. 14,17 p. Ref. Aug.1967. S19.M3
- 92424 HORTON-SMITH, C., TANELIAN, Z., and ISKANDARANI, A. The chemotherapy of avian coccidiosis in Lebanon. II. Magon. Publ. Ser. Sci. 15,15 p. Aug.1967. S19.M3  
Treatment with sulfamethazine.
- 92425 HUNGERSFORD, T. G. A clinical note on avian cholera. The effect of age on the susceptibility of fowls. Australian Vet. J. 44(1):31-32. Ref. Jan.1968. 41.8 Au72  
Pasteurella multocida.
- 92426 IMRIE, M. H., and others. Metabolism of vitamin D<sub>2</sub> and vitamin D<sub>3</sub> in the rachitic chick. Arch. Biochem. Biophys. 120(3):525-532. Ref. June 1967. 381 Ar2  
P. F. Neville, A. W. Snellgrove, and H. F. DeLuca, joint authors.
- 92427 INOUE, I., and others. Prevention of avian coccidiosis with curothiamine hydrochloride and curothiamine-naphthalin-1,5-disulfonate. (Ja) Jap. Vet. Med. Ass. J. 20(7):293-296,311. July 1967. 41.9 J275  
S. Nomoto, F. Watanabe, and G. Suzuki, joint authors.
- 92428 ISLAM, A. W. M. S., and SHAIKH, H. A survey of helminth infections in the gastro-intestinal tract of domestic fowls in Mymensingh District, East Pakistan. Ceylon Vet. J. 15(3):107-109. Sept.1967. 41.8 C33



- 92429 ISMAIL, A. S. N. A. Virus isolation aus den caecalen Tonsillen des Huhnes [Virus isolation from the cecal tonsils of hen]. Hanover. Tierarztl. Hochsch. Inaug.-Diss. 19, 92 p. 1966. 41.2 H198  
Bibliography, p.71-90.
- 92430 IVCHENKO, V. M. Growth of Mycobacterium tuberculosis in tissue culture of spleen and lungs from allergic chickens. (Rus) Veterinariya [Kiev] 12:37-39. 1967. SF604.V44
- 92431 JANSEN, J., and KUNST, H. A comparative research between Dutch and American duck plague. (Du) Tijdschr. Diergeneesk. 92(3): 1454-1458. Feb.1, 1967. 41.8 T431  
English summary.
- 92432 JANSEN, J. Duck plague. (It) Zooprofilassi 23(1):11-23. Jan.1968. 41.8 Z72  
English summary, p.82.  
Isolation of the virus and immunization.
- 92433 JAPAN, MINISTRY OF AGRICULTURE AND FORESTRY. NATIONAL INSTITUTE OF ANIMAL HEALTH. Poultry sanitation. (Ja) Jap. Vet. Med. Ass. J. 20(7):304-309. (Cont.) July 1967. 41.9 J275
- 92434 JAPAN, MINISTRY OF AGRICULTURE AND FORESTRY. NATIONAL INSTITUTE OF ANIMAL HEALTH. Poultry sanitation. (Ja) Jap. Vet. Med. Ass. J. 20(8):355-358. (Cont.) Aug. 1967. 41.9 J275
- 92435 JAPANESE SOCIETY OF VETERINARY SCIENCE. RESEARCH COMMITTEE ON LIVE VACCINE FOR LIVESTOCK AND POULTRY, SUBCOMMITTEE ON CHICKENS. Pathogenicity, safety, and immunogenicity of strain B1 of Newcastle disease virus. (Ja) Jap. Vet. Med. Ass. J. 20(7):299-303. Ref. July 1967. 41.9 J275
- 92436 JELOWICKA, J. Muscular dystrophy in poultry. (Pol) Drobniarstwo 15(1):10-11. Jan.1967. 47.8 P953
- 92437 JOSIPOVIC, D. Etiology and transmission of Marek's disease. (Sl) Soc. Kmetijstvo Gozdarstvo 18(6):127-128. Ref. Apr.22, 1967. 21.5 S014
- 92438 KACHAKHIDZE, A. V. On the sensitivity and post-vaccination immunity of chicks to infectious laryngotracheitis of chickens. (Rus) Veterinariya (Kiev) 12:76-80. 1967. SF604.V44
- 92439 KARTEN, H. J., and HODOS, W. A stereotaxic atlas of the brain of the pigeon, Columba livia. Baltimore, Hopkins, 1967. 193 p. Ref. QL937.K3 Folio
- 92440 KNEZIK, J. Recurrence of ascariasis heterakidiasis after dehelminthization of hens under field conditions. (Ge) Folia Vet. 10(1):149-158. Ref. 1966. 41.8 F712  
English summary.
- 92441 KNUDSON, A. G., BRODETSKY, A. M., and BALUDA, M. A. Transient inhibition of avian myeloblastosis virus reproduction by amethopterin and fluorodeoxyuridine. J. Virol. 1(6): 1150-1157. Ref. Dec.1967. QR360.J6
- 92442 KOHLER, H., and SCHUMACHER, A. Histological and electron-microscope studies on experimental liver cirrhosis in ducklings produced by aflatoxin. (Ge) Zentrabl. Veterinarmed. Reihe A, 14(5):395-415. Ref. Aug. 1967. 41.8 Z5  
English summary.
- 92443 KRAINTZ, L., and PUIL, E. A. Absence of hypocalcemic activity in chicken thyroid. Can. J. Physiol. Pharmacol. 45(6):1099-1103. Nov. 1967. 444.8 C16
- 92444 KRAVCHENKO, A. T., and RYAZANOVA, G. L. The effect of magnesium salts upon thermal inactivation of myxoviruses. (Rus) Vop. Virusol. 3:342-347. 1967. 448.8 P942  
English summary.  
Includes effects of magnesium chloride on Newcastle disease virus.
- 92445 KUNIYASU, C., and others. Serological and bacteriological observation of chickens intranasally inoculated with Mycoplasma gallisepticum. Tokyo. Nat. Inst. Anim. Health Quart. 7 (4):202-207. Ref. Winter 1967. 41.9 T575Q  
K. Matusi, S. Sato, and K. Ando, joint authors.
- 92446 LANTHIER, A., and SANDOR, T. Control of the salt-secreting gland of the duck. I. Osmotic regulation. Can. J. Physiol. Pharmacol. 45(6): 925-936. Ref. Nov.1967. 444.8 C16
- 92447 LEATHEM, W. D., and BURNS, W. C. Effects of the immune chicken on the endogenous stages of Eimeria tenella. J. Parasitol. 53(1): 180-185. Ref. Feb.1967. 448.8 J824
- 92448 LEDEC, M., and others. Contribution to the study of the effect of different hormonal preparations as inhibitors of egg laying hens—I. C. I. 33828. (Cz) Pol'nohospodarstvo 14(3): 195-201. 1968. 19.5 P752  
O. Adamec, A. Grom, and J. Kosutzky, joint authors.  
English summary.
- 92449 LEE, J. C., and INGRAM, V. M. Erythrocyte transfer RNA; change during chick development. Science 158(3806):1330-1332. Ref. Dec.8, 1967. 470 Sci2
- 92450 LEVINSON, W. Fragmentation of the nucleus in Rous sarcoma virus-infected chick embryo cells. Virology 32(1):74-83. Ref. May 1967. 448.8 V81
- 92451 LINDER, R. L., and LAMB, D. W. Relationship of dieldrin and penned pheasants. S. Dak. Farm Home Res. 18(2):10-12. Spring 1967. 100 So82S
- 92452 LUTHGEN, W., and BERNAU, U. Metronidazol in the control of trichomoniasis of pigeons. (Ge) Deut. Tierarztl. Wochenschr. 74(12):301-305. Ref. June 15, 1967. 41.8 D482  
English summary.
- 92453 MAEDA, M. Toxic liver dystrophy with severe bile duct proliferation in ducklings. Tokyo Nat. Inst. Anim. Health Quart. 7(4):221-229. Ref. Winter, 1967. 41.9 T575Q
- 92454 MAJHI, S., MEDDA, J., and BOSE, A. A study on the surface charge on the differentiating central nervous system in chick. Naturwissenschaften 54(8):208. Apr.15, 1967. 474 N213
- 92455 MANWELL, C. Molecular palaeogenetics: amino acid sequence homology in ribonuclease and lysozyme. Compar. Biochem. Physiol. 23(2):383-406. Ref. Nov.1967. 444.8 C73  
Poultry and cattle.
- 92456 MARQUERING, B., and MENKE, K. H. Cobalt and the vitamin B12 metabolism. VII. Absorption, retention and intestinal degradation of 60 Co-2-methyladenin-cobamide (Factor A) in hen. (Ge) Z. Ernahrungswiss. 8(4):267-271. Oct. 1967. 389.8 Z35
- 92457 MARTHEDAL, H. E. Duck raising regard to prevention of diseases. (Da) Danske Dyrlegefor. Medlemsbl. 50(12):508-521. June 15, 1967. 41.9 D23
- 92458 MASIC, B., and others. The amputation of one or two distal segments of wings in chicks for meat production. (Se) Stocarstvo 22(1/2):41-46. Jan./Feb.1968. 43.8 St6  
L. Zigic, D. Petrovic, and L. Srajber, L., joint authors.  
English summary.  
Effect on weight.
- 92459 MCDUGALL, H. L. Examination of Queensland isolates of Salmonella pullorum for variation of antigen 12. Australian Vet. J. 43(6):207-210. Ref. June 1967. 41.8 Au72  
From chicken.
- 92460 MICHALOV, J., and VRTIAK, O. J. Survival of mesogen pseudo-pest aviar virus in broiler meat preserved by refrigeration. (Cz) Folia Vet. 10(1):123-129. 1966. 41.8 F712  
English summary.
- 92461 MICHALOV, J., and VRTIAK, O. J. Survival of mesogen pseudopest aviar virus on wrappers. (Cz) Folia Vet. 10(1):115-121. Ref. 1966. 41.8 F712  
English summary.
- 92462 MILLOTT, N. Dermal photosensitivity and the "hen and egg" problem. Nature 215(5102):768-769. Ref. Aug.12, 1967. 472 N21
- 92463 MITCHELL, M. E. The effects of avian gonadotrophin precipitate on pituitary-deficient hens. J. Reprod. Fertil. 14(2):257-263. Ref. Oct.1967. 442.8 J8222

- 92464 MITCHELL, M. E. Stimulation of the ovary in hypophysectomized hens by an avian pituitary preparation. *J. Reprod. Fertil.* 14(2):249-256. Ref. Oct.1967. 442.8 J8222
- 92465 MOSCONA, A. A., and PIDDINGTON, R. Enzyme induction by corticosteroids in embryonic cells: steroid structure and inductive effect. *Science* 158(3800):496-497. Oct.27,1967. 470 Sci2
- 92466 MOSCOVICI, C. A quantitative assay for avian myeloblastosis virus. *Soc. Exp. Biol. Med.* Proc. 125(4):1213-1215. Ref. Aug./Sept.1967. 442.9 S01
- 92467 MUGERA, G. M. Respiratory diseases of poultry and their control. *East. Afr. Agr. Forest. J.* 33(2):145-158. Ref. Oct.1967. 24 Ea74
- 92468 MUSIELAK, B. Prevention of diseases in chicks. (Pol) *Drobiarstwo* 15(2):10-11. Feb. 1967. 47.8 P953
- 92469 MUSIELAK, B. Stomach worms in ducks. (Pol) *Drobiarstwo* 15(6):13. June 1967. 47.8 P953
- 92470 NATANSON, A. O., SOLOV'eva, E. I., and STEPANOVA, E. N. The effect of orotic acid on the biological and biochemical characteristics of layers and chickens. (Rus) *Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina. Dokl.* 3:32-35. Mar.1967. 20 Ak1
- 92471 NEVOLE, M. A contribution to the diagnosis of new formations in sex organs of poultry and the determination of nucleic acids in new formations. (Cz) *Czech. Min. Zemedel. Lesního Hospodar. Ustav Vedeckotech. Inform. Vet. Med.* 40(10):561-564. Ref. Oct.1967. 41.9 C333  
English summary.
- 92472 NIEMCZAK, H. Prevention of coccidiosis in poultry. (Pol) *Drobiarstwo* 15(4):12-13. Apr. 1967. 47.8 P953
- 92473 NORTHEASTERN CONFERENCE ON AVIAN DISEASES. COMMITTEE ON NOMENCLATURE AND REPORTING OF DISEASES. Report, June 1967. *Avian Dis.* 11(4):727-733. Nov.1967. 41.8 Av5
- 92474 ONET, E., and others. Epizootiological studies of a focus of pseudo fowl pest and fowl cholera. (Rum) *Inst. Agron. Dr. Petru Groza. Lucrari Stiint. Ser. Med. Vet. Zootehnie* 21:155-163. 1965, pub.1966. SF604.I5  
M. Salcudeanu, I. Baba, M. Pop, and O. Salomir, joint authors.  
English summary.
- 92475 PANNER, B. J., and HONIG, C. R. Filament ultrastructure and organization in vertebrate smooth muscle. *J. Cell Biol.* 35(2, Part 1 of 2):303-321. Ref. Nov.1967. 442.8 J828  
Actin and Myosin in turkey gizzard.
- 92476 PASTEA, E., and others. Contribution to the comparative study of the dynamics of the first portion of the digestive canal and stomach of the duck. (Fr) *Rec. Med. Vet.* 143(6):547-559. Ref. June 1967. 41.8 R24  
A. Nicolau, V. Popa, I. Rosca, and A. Capra-rin.  
English summary.
- 92477 PENNYCUICK, C. J. The strength of the pigeon's wing bones in relation to their function. *J. Exp. Biol.* 46(2):219-233. Apr.1967. 442.8 B77
- 92478 PETRIK, P., and RIEDEL, B. A continuous osmiophilic noncellular membrane at the respiratory surface of the lungs of fetal chickens and of young chicks. *Lab. Invest.* 18(1):54-62. Ref. Jan.1968. 448.8 L11
- 92479 PHELPS, A. Do longer lives for layers pay? *Poultry Internat.* 7(1):40-44. Jan.1968. 47.8 P8698
- 92480 PILIPENKO, M. E. On the thymus gland in geese, ducks, turkeys and its functional role. (Rus) *Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina Dokl.* 5:34-36. May 1967. 20 Ak1
- 92481 PROKOF'eva, M. T., and KIPRICH, V. V. A serological study of various strains of chicken mycoplasmosis pathogens. (Rus) *Veterinariya [Kiev]* 12:61-79. Ref. 1967. SF604.V44
- 92482 RABIE, C. J., and TERBLANCHE, M. Influence of temperature on the toxicity of different isolates of *Aspergillus wentii* Wehm. *S. Afr. J. Agr. Sci.* 10(1):263-266. Mar.1967. 24 Su3  
Toxic to ducklings.
- 92483 RADKE, E. Untersuchungen über das Vorkommen und die wirtschaftliche Bedeutung der verschiedenen Coccidienspezies beim Jungmastgeflügel unter besonderer Berücksichtigung der hygienischen Verhältnisse [Studies on the occurrences and economic importance of various coccidia species in young broilers with special emphasis on hygienic conditions]. Hanover. Tierarztl. Hochsch. Inaug.-Diss. 16, 92 p. 1967. 41.2 H198  
Bibliography, p.78-92.
- 92484 RAKOCZI, I. Problems of fowl typhoid control. (Hu) *Baromfitenyesztes* 10(3):4-5. Oct. 1967. 47.8 B262
- 92485 RAMAPPA, B. S. Management of deep litter system in relation to disease control. *Indian Poultry Gaz.* 51(4):30-32. Jan.1968. 47.8 In22
- 92486 RAMAPPA, B. S., and RAO, B. V. Some observations on Yomesan (Bayer 2353) as a taenicide in poultry. *Indian Poultry Gaz.* 51(4):36-40. Jan.1968. 47.8 In22
- 92487 RAMISSE, J., and RAKOTONDRAMARY, E. Post-mortem serological diagnosis of Newcastle disease. (Fr) *Rev. Elevage Med. Vet. Pays Trop.* (n.s.)20(2):205-212. 1967. 41.8 R3262  
English summary.
- 92488 RAO, S. B. V. Prophylactic chemotherapy against *Escherichia coli* infection on poultry farms. *Indian Poultry Gaz.* 51(4):8-10. Jan. 1968. 47.8 In22
- 92489 REBOLLO, M. A., and ANDA, G. DE. The neuromuscular spindles in the adult chicken. II. Histochemistry. *Acta Anat.* 67(4):595-608. Ref. 1967. 444.8 Ac82
- 92490 REIN, A., and RUBIN, H. Effects of local cell concentrations upon the growth of chick embryo cells in tissue culture. *Exp. Cell Res.* 49(3):666-678. Ref. Mar.1968. 442.8 Ex7
- 92491 RUDOLPH, W. Anomalies of the bill in ducks (preliminary communication). (Ge) *Arch. Geflügelzucht Kleintierkunde* 16(5):265-268. 1967. 47.8 Ar22  
English summary.
- 92492 SASAKI, S., OHSUGA, T., and FUJII, T. Effect of sulfamethoxine upon chickens. (Ja) *Jap. Vet. Med. Ass. J.* 20(4):19-22. Apr.1967. 41.9 J275  
English summary.  
Poultry sanitation.
- 92493 SAXENA, H. C. Inter-relationship between nutrition and disease in the chicken. *Indian Poultry Gaz.* 51(4):3-8. Jan.1968. 47.8 In22
- 92494 SAXOD, R. Histogenesis of the cutaneous sensory corpuscles of the chicken and the duck. (Fr) *Arch. Anat. Microscop. Morphol. Exp.* 56(2):153-166. Ref. Apr./June 1967. 444.8 Ar21  
English summary.
- 92495 SCHOLTISSEK, C., BECHT, H., and DRZENIEK, R. Biochemical studies on the cytopathic effect of influenza viruses. *J. Gen. Virol.* 1(2):219-225. Ref. Apr.1967. QR360.A1J6  
Fowl plague virus.
- 92496 SETTNES, O. P., and GULDAL, J. A. Enteritis in Danish pigeons caused by trematodes. *Nord. Veterinaarmed.* 19(10):484-487. Oct. 1967. 41.8 N813
- 92497 SHERMAN, I. W., VIRKAR, R. A., and RUBLE, J. A. The accumulation of amino acids by *Plasmodium lophurae* (avian malaria). *Compar. Biochem. Physiol.* 23(1):43-57. Ref. Oct.1967. 444.8 C73  
Ducks studied.
- 92498 SHERMAN, M., and others. Comparative toxicity of Imidan and homologs containing asymmetric esters to the chick, rat and house fly. *J. Med. Ent.* 4(4):451-455. Ref. Nov.1967. 421 J828  
R. B. Herrick, M. T. Y. Chang, and J. J. Menn, joint authors.



- 92499 SHIH, L., and GIBSON, M. A. A histological and histochemical study of the development of salivary glands in the chick (*Gallus domesticus*). *Can. J. Zool.* 45(5):607-622. Ref. Sept. 1967. 470 C16D
- 92500 SIMON, K. Untersuchungen zur Vertraglichkeit von organischen und anorganischen Arsenverbindungen bei Mastgeflügel unter besonderer Berücksichtigung von Arsenrückständen im Tiergewebe [Investigations on susceptibility of organic and inorganic arsenic compounds in fattening hen with special emphasis on arsenic residues in animal organs]. Munich. Univ. Tierarztl. Fak. [Inaug.-Diss.] 40,73 p. Ref. 1966. 41.2 M9222
- 92501 SINKOVIC, B., and HUNT, S. Vaccination of day-old chickens against infectious laryngotracheitis by conjunctival instillation. *Australian Vet. J.* 44(2):55-57. Ref. Feb.1968. 41.8 Au72
- 92502 SKADHAUGE, E. In vivo perfusion studies of the cloacal water and electrolyte resorption in the fowl (*Gallus domesticus*). *Compar. Biochem. Physiol.* 23(2):483-501. Ref. Nov. 1967. 444.8 C73
- 92503 SMITH, A. H., and BURTON, R. R. Influence of the ambient accelerative force upon mature body size. *Growth* 31(4):317-329. Ref. Dec.1967. 442.8 G91
- 92504 SMITH, L., and MCDONALD, M. W. The effect of triphenyl ethylene bromide on egg production and feed efficiency of fowls. *Australian Vet. J.* 43(6):211-212. June 1967. 41.8 Au72
- 92505 SOUTHERN CONFERENCE ON AVIAN DISEASES. Disease reports, 1966. *Avian Dis.* 11(4):708-726. Nov.1966. 41.8 Av5
- 92506 SPILER, E. Some problems of the poultry health. (Sl) *Soc. Kmetijstvo Gozdarstvo* 18(6):115-117. Apr.22,1967. 21.5 So14
- 92507 SRIVASTAVA, H. K. A morphological study of the exogenous stages of *Eimeria labbeana*, a parasite of the common pigeon, *Columba livia*. *Indian J. Vet. Sci. Anim. Husb.* 37(2):78-86. Ref. June 1967. 41.8 In22
- 92508 STEPHENS, J. F., KOWALSKI, L. M., and BORST, W. J. Some physiological effects of coccidiosis caused by *Eimeria maxima* in young chickens. *J. Parasitol.* 53(1):176-179. Ref. Feb.1967. 448.8 J824
- 92509 STEPHENS, P., and SIMMONS, G. C. Neutralising antibodies for avian infectious bronchitis virus in Queensland poultry flocks. *Australian Vet. J.* 44(1):29-30. Ref. Jan.1968. 41.8 AU72
- 92510 STOLL, R., and MARAUD, R. Teratological activity of thyroidal hormones in chick embryos. (Fr) *Rev. Pathol. Comp.* 67(790):359-362. Sept.1967. 448.8 R326
- 92511 SUGIMURA, K., and others. Influence of excessive single amino acid intake to free amino acid potencies of chick organs. II. Excessive glycine and free amino acid patterns of chick liver, whole blood, muscle and epidermis. *Jap. J. Zootech. Sci.* 38(4):154-162. Apr.1967. 49 N62
- 92512 SUGIMURA, K., and others. Influence of excessive single amino acid intake to free amino acid potencies of chick organs. II. Excessive glycine and free amino acid patterns of chick liver, whole blood, muscle and epidermis. *Jap. J. Zootech. Sci.* 38(4):154-162. Apr.1967. 49 N62
- 92513 S. C. Ito, K. Kawabata, and S. Miura, joint authors. Meat production.
- 92512 SUNAGAWA, Y., and YOSHIMURA, Y. The status quo and the economical marginal efficiency of the application of veterinary drugs. Case of poultry management. (Ja) *J. Agr. Sci. (Setagaya)* 12(2):43-58. Mar.1967. 22.5 J824
- 92513 TANDON, H. P. Those troublesome tapeworms. *Intensive Agr.* 4(11):8-9,16. Jan. 1967. 22 In8
- 92514 TIXIER-VIDAL, A., and PICART, R. Quantitative study by high resolution radioautography of the utilization of DL-leucine by duck hypophyseal cells in organ culture. (Fr) *J. Cell. Biol.* 35(3):501-519. Ref. Dec.1967. 442.8 J828
- 92515 VARADY, B. Problems with featherless poultry. (Hu) *Baromfitenyesztes* 10(3):12. Oct.1967. 47.8 B262
- 92516 VENDRELY, R., and PICAUD, M. Comparative study of histones of erythrocytes of different species of animals. (Fr) *Exp. Cell Res.* 49(1):13-24. Ref. Jan.1968. 442.8 Ex7
- 92517 VERMA, M. P., BAHGA, H. S., and SONI, B. K. Toxic effects of insecticide Telodrin in poultry. *Indian J. Exp. Biol.* 5(4):245-248. Oct.1967. 442.8 In2
- 92518 VRTIAK, O. J., and others. Distribution of fowl plague virus in the organism of chickens. (Cz) *Folia Vet.* 10(1):109-114. 1966. 41.8 F712
- 92519 WALDROUP, P. W., IVEY, R. A., and MAXEY, J. F. Effect on turkey growth and performance of feeding a blackhead preventative. *Ark. Farm Res.* 17(2):12. Mar./Apr.1968. 100 Ar42F
- 92520 WANNTORP, H., and others. Mercury residues in wood-pigeons (*Columba p. palumbus* L.) in 1964 and 1966. *Nord. Veterinærmed.* 19(10):474-477. Oct.1967. 41.8 N813
- 92521 WATSON, R. C. Hatchery hygiene essential to combat poultry diseases. *New Zeal. J. Agr.* 114(1):32. Jan.1967. 23 N48J
- 92522 WENIGER, J. P., EHRHARDT, J. D., and FRITIG, B. Estrone and estradiol formation by the gonads of female chick embryo cultivated in vitro. (Fr) *Acad. Sci. Compt. Rend. Ser. D*, 264(6):838-841. Ref. Feb.6,1967. 505 P21
- 92523 WESSLING, P. Studien über Aufnahme, Ablagerung und Ausscheidung von Cesium-137 bei Hennen und bei Hähnen [Studies on the uptake, deposition and excretion of cesium-137 in hens and cocks]. Munich. Univ. Tierarztl. Fak. [Inaug.-Diss.] 48,72 p. 1967. 41.2 M9222
- 92524 WHITEHOUSE, B. J., and VINSON, G. P. Pathways of corticosteroid biosynthesis in duck adrenal glands. *Gen. Compar. Endocrinol.* 9(2):161-171. Ref. Oct.1967. 444.8 G28
- 92525 WIESE, I. H., and BASSON, N. C. J. The oral toxicity of dieldrin to the crowned guinea-fowl, *Numida meleagris* (L.). *S. Afr. J. Agr. Sci.* 10(3):697-705. Ref. Sept.1967. 24 Su3
- 92526 WODZINOWSKI, J. Wing amputation in chicks. (Pol) *Drobiarstwo* 15(3):22. Mar.1967. 47.8 P953
- 92527 WOERNLE, H. Problems of immunization against infectious bronchitis of hen. (Ge) *Tierarztl. Umsch.* 23(2):58-60,63. Ref. Feb.1,1968. 41.8 T445
- 92528 YUHARA, M., and WADA, H. Comparison of effects of Hexestrol Dicaprylate, Diethylstilbestrol and Hexestrol on the growth of broiler. (Ja) *Jap. J. Zootech. Sci.* 38(6):257-261. Ref. June 1967. 49 N62
- 92529 ZEEUW, F. A. DE. Efficacy of a new polyvalent anthelmintic for poultry. (Du) *Tijdschr. Diergeneesk.* 93(6):380-382. Mar.15,1968. 41.8 T431

#### Miscellaneous

- 92530 BAEUM, J. Egg laying starts. (Da) *Landbonyt* 21(9):338-340. Sept.1967. 11 L2322
- 92531 BECART, P. Purchasing pullets. (Fr) *PROVIMI* (Proteines, Vitamines, Mineraux) Inform. 51:10-12. Nov.1967. 389.78 P942
- 92532 BROGGI, A. A little light — On the programs of light for layers. (It) *G. Pollicoltori* 17(4):20,24-25. Apr.1967. 47.8 G43
- 92533 CLAYBAUGH, J. Expanding your facilities? consider cages for pullets. *World Farming* 9(10):24,42. Oct.1967. 30.08 W89

- 92534 DESTEFANIS, R. What sex are your birds? (Sp) *Indus. Avicola* 14(5):20-21,26. May 1967. 47.8 In23
- 92535 ECHTERLING, C. J. Egg production calls for good management. *New Zeal. J. Agr.* 114(5):76-77,79,81. May 1967. 23 N48J
- 92536 EVANS, A. R. Raising geese for meat production. *J. Agr. [Melbourne]* 65(6):243-246. June 1967. 23 V66J
- 92537 EVANS, R. M. Early aggressive responses in domestic chicks. *Anim. Behav.* 16(1):24-28. Feb.1968. 410 B77
- 92538 FEKETE, L. How long is it economical to keep layer hens? (Hu) *Baromfitenyesztes* 10(3):6-7. Oct.1967. 47.8 B262  
Cost and return aspects.
- 92539 FREUNDLICH, A. Care and feeding of chicks from 3 to 6 month of age. (Pol) *Drobiarstwo* 15(3):4-5. Mar.1967. 47.8 P953
- 92540 FREUNDLICH, A. Differences in care of breeder and fattening chicks. (Pol) *Drobiarstwo* 15(6):7-8,11. June 1967. 47.8 P953
- 92541 FREUNDLICH, A. How to obtain and raise chicks from a hatchery. (Pol) *Drobiarstwo* 15(2):7-8. Feb.1967. 47.8 P953
- 92542 GAREWAL, N. S. Poultry shows show-up the best birds. *Indian Farming* 18(1):50-51. Apr. 1968. 22 In283
- 92543 GILBERT, A. B., and WOOD-GUSH, D. G. M. Control of the nesting behaviour of the domestic hen. IV. Studies on the pre-ovulatory follicle. *Anim. Behav.* 16(1):168-170. Feb.1968. 410 B77
- 92544 GRAVES, H. B., and SIEGEL, P. B. Prior experience and the approach response in domestic chicks. *Anim. Behav.* 16(1):18-23. Ref. Feb. 1968. 410 B77
- 92545 GROM, A., and RYDLOVA, F. International cooperation in the research of broiler production in the frame work of the states of the Council for Mutual Economic Assistance. (Cz) *Pol'nohospodarstvo* 14(2):81-85. 1968. 19.5 P752
- 92546 GROM, A. Need for cooperation in research problems on raising poultry. (Cz) *Prague. Vyzk. Ustav Zemed. Vestn.* 13(7):301-303. 1966. 19.5 C333
- 92547 GUENTHER, F., and BURCKHART, O. A quick method for determining total alkaline phosphatase in egg yolk of chicken. (Ge) *Deut. Lebensm-Rundsch.* 63(10):305-309. Ref. Oct.1967. 389.8 D482
- 92548 JAHRBUCH fur die Geflugelwirtschaft, [Year-book of the poultry industry] 1968. Ulmer, Stuttgart, 1968. 304 p. 47.8 J19
- 92549 JAPAN. MINISTRY OF AGRICULTURE AND FORESTRY. NATIONAL INSTITUTE OF ANIMAL HEALTH. Poultry sanitation. (Ja) *Jap. Vet. Med. Ass. J.* 20(9):396-401; (10):447-449. (Cont.) Sept./Oct.1967. 41.9 J275
- 92550 JENSEN, J. F. New advances in the production of poultry for slaughter. (Da) *Landbonyt* 22(1):18-19,32. Jan.1968. 11 L2322  
In Denmark.
- 92551 JONSSON, E. Production technique and quality problems in broiler production. (Sw) *Lantmannen* 78(25):25-26. Dec.9,1967. 11 L234  
Housing and feed influence on chicken meat.
- 92552 KALUZHNOV, V. T., and VEITSMAN, L. N. Growing guinea fowl broilers. (Rus) *Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina. Dokl.* 6:28-30. June 1967. 20 Ak1
- 92553 KENNEDY, J. P. Broiler farming in Natal. *Farming S. Afr.* 42(10):33. Jan.1967. 24 So842
- 92554 KOESLING, L. Analysis of broiler fattening results recorded in three agricultural co-operative farms of Magdeburg County. (Ge) *Arch. Geflugelzucht Kleintierkunde* 16(5):231-250. Ref. 1967. 47.8 Ar22  
English summary.
- 92555 KRAKOWIAK, S. State Technical School of Poultry Raising [Panstwowa Szkoła Techniczna Hodowli Drobiu] in Rawa Mazowiecka. (Pol) *Drobiarstwo* 15(4):14. Apr.1967. 47.8 P953
- 92556 LACHIEWICZ, W. Vices in poultry. (Pol) *Drobiarstwo* 15(6):9-10. June 1967. 47.8 P953  
Cannibalism.
- 92557 LEEUWEN, A. V. Tests with laying hens. (Du) *Neth. Provinc. Dir. Rijkslandbouwvoorlichting Friesland/Voorlichting Onderz.* 1966:76-77. SB183.N4A3  
At the Friesland-Groningen Poultry Testing Center [Friesch-Groningsche Pluimveepröefbedrijf].
- 92558 LINDSEY, C. C., and MOODIE, G. E. E. The effect of incubation temperature on vertebral count in the chicken. *Can. J. Zool.* 45(5):891-892. Sept.1967. 470 C16D
- 92559 LUTI, J. C. Poultry management. *Ulimo Nemfuyo* 11(3):3,5. Sept.1966. S17.U4  
Text also in Xhosa.
- 92560 MAHADEVAN, T. D., and BOSE, S. Investigation on carcass yield of table poultry meat. *Indian J. Vet. Sci. Anim. Husb.* 37(2):122-130. June 1967. 41.8 In22
- 92561 MANNEL, K. Incubation time is here. 1. *Farming S. Afr.* 42(5):9,11. Aug.1966. 24 So842
- 92562 MARAIS, C. L. Broiler potential of fowl, duck, turkey and guinea-fowl. *S. Afr. J. Agr. Sci.* 10(1):229-234. Mar.1967. 24 Su3
- 92563 MCFARLAND, D. J., and BAHER, E. Factors affecting feather posture in the Barbary dove. *Anim. Behav.* 16(1):171-177. Feb.1968. 410 B77
- 92564 MICHENER, M. C., and WALCOTT, C. Homing of single pigeons—analysis of tracks. *J. Exp. Biol.* 47(1):99-131, map. Ref. Aug.1967. 442.8 B77
- 92565 MILNE, F. N. J. Wanted - a security management programme. *EMB (Egg Marketing Board) Bull.* 7(5):35,37,41. May 1967. 280.38 Eg3  
For sanitary disposal of carcasses in Australian poultry industry.
- 92566 MOKOTELLI, G. N. P. Preparing poultry for exhibition. *Ulimo Nemfuyo* 2(2):14-15. June 1966. S17.U4
- 92567 MORENG, R. E. Can EMP solve the "Tough Tom" problem? *Poultry Meat* 5(2):A16-A17. Feb.1968. 47.8 P8656  
Implants of estradiol-17-monopalmitate to improve meat quality of tom turkeys.
- 92568 MORGAN, W. Poultry adaptation for space travel. *Int. Congr. Nutr. Proc., 7th Congr., v.4:* 1075-1079. 1966, pub.1967. TX345.I53 1966  
Mortality of embryos and chicks in flight, in relation to providing food for man in space.
- 92569 MUSZKIEWICZ, H. Some remarks on raising broilers. (Pol) *Drobiarstwo* 15(1):12. Jan. 1967. 47.8 P953
- 92570 ORTMAN, L. L., and CRAIG, J. V. Social dominance in chickens modified by genetic selection, physiological mechanisms. *Anim. Behav.* 16(1):33-37. Ref. Feb.1968. 410 B77
- 92571 RAMAPPA, B. S. Sources of information to poultryman on poultry; stock, equipment, pharmaceuticals (drugs) feeds and publications. *Indian Poultry Gaz.* 51(4):11-25. Jan.1968. 47.8 In22
- 92572 SERRA, J. J. DE B. L. Negative values in the production of meat from domestic fowl. (Por) *Mozambique. Serv. Vet. An.* 10:143-149. 1962, pub.1966. 41.9 M872  
In Mozambique; economic and disease factors.
- 92573 SERRA FABREGAS, J. P. Our vocabulary. (Sp) *Avicult. Tec.* 18(5):235; (6):281. May-June 1967. 47.8 Av57
- 92574 SHUTZE, J. V., and others. Research serves Colorado's \$33.4 million turkey business. *Colo. Farm Home Res.* 17(3/4):6-10. Spring/Summer 1967. 100 C712Co  
Turkey growers boost Colorado's economy, by J. V. Shutze; Carcass studies lead to improved products, by B. F. Miller; Breast blisters lower turkey quality and cost the grower about 5 cents a pound, by H. D. Muller; EMP [estradiol-17-monopalmitate] enhances quality, by R. E. Moreng; Effects from salts in drinking water vary, by E. W. Kienholz.
- 92575 SIMONS, P. C. M. Influence of climate and feeding on shell quality. (Du) *Veeteelt Zuivelber.* 10(7):335-344. July 1967. 49 V51  
Barn climate.



- 92576 SOARES, P. R. Improvement of home production of poultry and eggs. (Por) Aves Ovov 1(4):17-18. Sept./Oct.1966. SF481.A8
- 92577 SOLOMON, G. A., and others. Economic implications of decisions in fryer production. (Sp) Ceiba 13(1):1-8. Mar.1967. 475 C32  
F. A. Capote, J. Pineda R., and G. Torres Y., joint authors.
- 92578 TAYLOR, A., and others. The formation of attachments by domestic chicks to two textures. Anim. Behav. 15(4):514-519. Oct.1967. 410 B77  
W. Sluckin, R. Hewitt, and P. Guiton, joint authors.
- 92579 VAN DIJKMAN, E. H., and others. Social order and egg production of hens. Commissie Artis-Bibl. Bijl. Dierkunde 37:81-93. Ref. 1968. 410.9 Am82B  
J. Groeneveld, L. C. Brat, L. J. K. Kleijn, and P. M. Schenk, joint authors.
- 92580 VAN ZANDT, J. What is a single-flock source? Poultry Meat 5(2):52. Feb.1968. 47.8 P8656  
Chicks.
- 92581 VINCE, M. A. Effect of rate of stimulation on hatching time in Japanese quail. Brit. Poultry Sci. 9(1):87-91. Jan.1968. 47.8 B77  
Stimulation by clicking sounds.
- 92582 WASILEWSKI, J. Young guinea fowl. (Pol) Drobiarstwo 15(4):5-6. (Concl.) Apr.1967. 47.8 P953  
Care and feeding.
- 92583 WEZYK, S. Kurthna--Estonian Poultry Experiment Station. (Pol) Drobiarstwo 15(2):20-21. Feb.1967. 47.8 P953
- 92584 WHITEHEAD, E., and MORGAN, W. Effect of pre-irradiation storage on hatchability of eggs subjected to gamma radiation. S. Dak. Acad. Sci. Proc. 46:89-94. 1967. 500 So82
- 92585 WINN, P. N., and GODFREY, E. F. The effect of humidity on growth and feed conversion of broiler chickens. Int. J. Biometeorol. 11(1):39-50. Ref. Mar.1967. 340.8 In8
- 92586 WISNIEWSKA, L. Basic principles of raising ducklings. (Pol) Drobiarstwo 15(5):7-8. May 1967. 47.8 P953
- 92587 ZMLJEWSKA, Z. The tenth anniversary of the Association of Poultry Breeders and Producers [Zwiazek Hodowcow i Producentow Drobiu]. (Pol) Drobiarstwo 15(5):3-4. May 1967. 47.8 P953
- 92594 MACMILLAN, K. L., and HAFS, H. D. Semen output of rabbits ejaculated after varying sexual preparation. Soc. Exp. Biol. Med. Proc. 125(4):1278-1281. Aug./Sept.1967. 442.9 So1
- 92595 MURDOCH, R. N., and WHITE, I. G. The metabolism of labelled glucose by rabbit spermatozoa after incubation in utero. J. Reprod. Fertil. 14(2):213-223. Ref. Oct.1967. 442.8 J8222
- 92596 ZAMPARO, G. History of the creation of a new meat hybrid by the crossing of Beveren and Silver: general methodology of selection. (It) G. Pollicoltori 17(4):116-119. Apr.1967. 47.8 G43

#### Veterinary Medicine

- 92597 BALDWIN, D. M., and EWING, L. L. An enzymatic comparison of glucose metabolism in the rabbit and chicken testis and kidney cortex. Compar. Biochem. Physiol. 73(2):569-582. Ref. Nov.1967. 444.8 C73
- 92598 BENNEDSEN, J. The specificity of circulating antibodies in experimental infection with Mycobacterium avium demonstrated by immunofluorescence. Acta Pathol. Microbiol. Scand. 72(2):330-336. Ref. 1968. 448.3 Ac8  
Rabbits.
- 92599 BHATTACHARYYA, N. K., DUTT, B., and MULLICK, D. N. Effect of magnesium sulphate injection on histopathological changes in aorta & coronary artery in experimental hypercholesteremia in rabbits. Indian J. Exp. Biol. 5(4):248-250. Oct.1967. 442.8 In2
- 92600 BORKOWSKI, T., and others. Characteristics of nucleic acids from rabbit liver mitochondria. Acad. Polon. Sci. Bull. Ser. Sci. Biol. 15(9):511-516. Ref. 1967. 512 W262  
I. Borkowska, K. Sikorska, and S. Kulesza, joint authors.
- 92601 CASLEY-SMITH, J. R., ARDLIE, N. G., and SCHWARTZ, C. J. Electron microscopical observations on the organization of artificial thrombi in the rabbit pulmonary artery. Brit. J. Exp. Pathol. 48(5):501-506. Ref. Oct.1967. 448.8 B772
- 92602 CHRISTENSEN, L. R., BOND, E., and MATANIC, B. "Pock-less" rabbit pox. Lab. Anim. Care 17(3):281-296. Ref. June 1967. 410.9 P94
- 92603 FLEEGER, J. L., VANDEMARK, N. L., and JOHNSON, A. D. The effect of carbon dioxide level and temperature on the in vitro metabolism of testis tissue. Compar. Biochem. Physiol. 23(2):475-482. Ref. Nov.1967. 444.8 C73  
Rabbits.
- 92604 IRESON, H. A preliminary report on an abnormal dental condition in rabbits. Inst. Anim. Tech. J. 19(1):36-39. Ref. Mar.1968. QL55.15
- 92605 ISHIJIMA, Y., HIRABAYASHI, T., and SAKUMA, Y. Studies on the induction of superovulation in the immature rabbit. (Ja) J. Agr. Sci. [Setagaya] 12(2):63-68. Ref. Mar.1967. 22.5 J824
- 92606 JACOTOT, H., and others. On a strain of the Sanarelli virus attenuated through passage in cell cultures. (Fr) Acad. Vet. France. Bull. 40(5):255-260. May 1967. 41.9 R24  
B. Virat, P. Reculard, and A. Vallee, joint authors.  
Myxomatosis virus; vaccination trials with rabbits.
- 92607 KRASNIKOV, G. A. Submicroscopic changes from experimental foot-and-mouth disease in newborn rabbits. (Rus) Veterinariya (Kiev) 12:22-32. Ref. 1967. SF604.V44
- 92608 KRISHNAN, R. S., and DANIEL, J. C. "Blastokinin": inducer and regulator of blastocyst development in the rabbit uterus. Science 158 (3800):490-492. Oct.27,1967. 470 Sci2
- 92609 NOVLOSKI, G. Embryonic nephroma in a rabbit (a case report). (Por) Pesquisa Agropecuar. Brasil. 1:151-154. 1966. S15.P42  
English summary.

#### RABBITS

##### Breeds and Breeding

- 92588 AMANN, R. P., and LAMBIASE, J. T. The male rabbit. I. Changes in semen characteristics and sperm output between puberty and one year of age. J. Reprod. Fertil. 14(2):329-332. Oct.1967. 331.8 J8222  
Rabbits.
- 92589 ANGELOVSKI, T., and GEORGIEVSKI, A. Breeding of rabbits in Macedonia. (Se) Sots. Zemjod. 18(7/8):45-52. Ref. 1966. 280.28 So7
- 92590 CHEN, C. C. Feeding young Angora rabbits on milk to observe the growth rate and wool production. (Ch) J. Agr. Forest. 15:283-288. Oct.1966. 22.5 J823  
English summary.
- 92591 HUNT, W. L., and FOOTE, R. H. Efficiency of liquid scintillation counting and autoradiography for detecting Tritium in Spermatozoa. Radiat. Res. 31(1):63-73. Ref. May 1967. 334.8 R11  
Rabbits.
- 92592 KIRTON, K. T., DESJARDINS, C., and HAFS, H. D. Distribution of sperm in male rabbits after various ejaculation frequencies. Anat. Rec. 158(3):287-292. Ref. July 1967. 447.8 An1
- 92593 KOETTER, U. Wool yield, wool quality and fleece formation in Angora rabbits. (Ge) Zuchtungskunde 39(1):56-66. Jan./Feb.1967. 49 Z8  
English summary.

- 92610 SAMADDAR, J. Immunologische Untersuchungen an experimentell mit Trypanosoma evansi infizierten Kaninchen im Hinblick auf Prophylaxe und Therapie mit Naganol (Bayer, 205) [Immunological studies on Trypanosoma evansi experimentally infected rabbits in view on prophylaxis and therapy with Naganol (Bayer 205)]. Munich. Univ. Tierarztl. Fak. [Inaug.-Diss.] 36,75 p. 1966. 41.2 M9222 Bibliography, p.38-49.
- 92611 SANTOS, J. A. DOS. Enzootic hepatoma in rabbits. (Por) Pesquisa Agropecuar. Brasil. 1: 97-100. 1966. S15.P42 English summary.
- 92612 SEBRYAKOV, E. V. The virulence of fungi of the genus Candida and their cytomorphological characteristics on various artificial culture media. (Rus) Veterinariya [Kiev] 12:107-109. 1967. SF604.V44 Rabbits.
- 92613 SHAVER, E. L. Two cases of intersex in rabbits. Anat. Rec. 159(2):127-130. Ref. Oct. 1967. 447.8 An1
- 92614 SOD-MORIAH, U. A., and SCHMIDT, G. H. Deoxyribonucleic acid content and proliferative activity of rabbit mammary gland epithelial cells. Exp. Cell Res. 49(3):584-597. Ref. Mar.1968. 442.8 Ex7
- 92615 SUGAWARA, S., and HAFEZ, E. S. E. Effect of steroid hormones on biochemical characteristics of blastocysts in ovariectomized rabbits. Anat. Rec. 158(3):281-286. Ref. July 1967. 447.8 An1
- 92616 SVRCEK, S. VRTIAK, O. J., and PAUER, T. Method of intradermal infection of laboratory animals for typifying TBC bacilli. (Cz) Folia Vet. 10(2):159-167. Ref. 1966. 41.8 F712 English summary. Rabbits and guinea pigs.
- 92617 WILLIAMSON, M., and VAUGHAN, J. Histochemistry of the mucosaccharides in the epiphyseal plate of young rabbits. Nature 215 (5102):711-714. Ref. Aug.12,1967. 472 N21
- 92618 YARDIN, M. Development of facial parts of the domestic rabbit (*Oryctolagus cuniculus*). (Fr) Soc. Sci. Bretagne. Bull. (Sci. Math. Phys. Natur.) 41(1/2):91-96. Mar.1967. 505 R292
- Miscellaneous
- 92619 OLSEN, H. M. Rabbits. (Da) Landbonyt 22(2): 64-67. Feb.1968. 11 L2322 Chiefly housing.
- 92620 VILLEGAS, V. Rabbit raising. Philippine Farms Gard. 4(5):10-11,17,21,32. May 1967. 25 P5323
- SHEEP AND GOATS
- Breeds and Breeding
- 92621 ANDREASSON, E. The National flockbook 50 years. (Sw) Farskotsel 48(1):19-22. Feb.1968. 45.9 Sv2 Sheep in Sweden.
- 92622 ATKINSON, W. A Saanen herd in New Zealand. Brit. Goat Soc. Year Book. 1968:57-63. 40.19 B77 Breeding and care.
- 92623 AUSTIN, J. W., and others. Normal values for semen collected from Spanish goats by two methods. J. Appl. Physiol. 24(3):369-372. Ref. Mar.1968. 447.8 J825 R. B. Leidy, G. M. Krise, and E. W. Hupp, joint authors.
- 92624 BAUMGAERTEL, H. Paddock sheep keeping with Blackheaded Mutton. (Ge) Mitt. Deut. Landwirt.-Ges. 83(15):528-530. Apr.11,1968. 18 N39 German Blackheaded Mutton.
- 92625 BELIC, J., MITIC, N., and VIDANOVIC, M. Meat production of the crosses of first generation between the Piro and Arles Mirino sheep breeds. (Se) Arh. Poljoprivredne Nauk. 20 (69):113-129. 1967. 21.5 Y9 German summary.
- 92626 BORREGO, J. D. The Bordaleiro sheep of the Serra da Estrela. (Por) Port. Dir. Geral Serv. Pecuarios. Bol. Pecuário 35(1):95-110. 1967. 41.8 P83 English summary.
- 92627 BRUERE, A. N., and MACNAB, J. A cytogenetical investigation of six intersex sheep, shown to be freemartins. Rev. Vet. Sci. 9(2):170-180. Ref. Mar.1968. 41.8 R312
- 92628 CALHEIRAS, F. C., RAMALHO, M. P. B., and MORAIS, M. J. G. DE. The introduction into Portugal of some meat breeds of sheep. I-II. (Por) Port. Dir. Geral Serv. Pecuarios. Bol. Pecuário 35(1):39-63. 1967. 41.8 P83 English summary. Pure breeding and crossbreeding.
- 92629 CHERIKOV, V., and TSATSULIN, V. Rational breeding. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 9:27-28. Sept.1967. 281.8 S34 On the sheep farms.
- 92630 CLARKE, E. A. Performance recording of sheep. Ruakura Farmers Conf. Week Proc. 1967:19-34. Apr.9,1968. 49.9 R82 Sheep breeding in New Zealand.
- 92631 CLAXTON, P. D. Brucella ovis vaccination of rams—a comparison of two commercial vaccines and two methods of vaccination. Australian Vet. J. 44(2):48-54. Ref. Feb.1968. 41.8 Au72
- 92632 COSTA, E. A. S. R. DA. The fertility of the ewe and meat production. (Por) Port. Dir. Geral Serv. Pecuarios. Bol. Pecuário 35(1):65-79. Ref. 1967. 41.8 P83 English summary.
- 92633 CRAN, C. G. The halfbred in New Zealand. Christchurch. Tussock Grassland Mountain Lands Inst. Rev. 13:30-34. Sept.1967. 60.9 C46
- 92634 DOTT, H. M., and SKINNER, J. D. A reassessment of extra gonadal sperm reserves in Suffolk rams. J. Agr. Sci. [London] 69(2):293-295. Ref. Oct.1967. 10 J822
- 92635 DREYER, J. H., and MARINCOWITZ, G. Some observations on the skin histology and fibre characteristics of the Angora goat (*Capra hircus Angoraensis*). S. Afr. J. Agr. Sci. 10 (2):477-491,493-500. Ref. June 1967. 24 Su3
- 92636 GJEDREM, T. Phenotypic and genetic parameters for weight of lambs at five ages. Acta Agr. Scand. 17(4):199-216. Ref. 1967. 11 Ac82
- 92637 GOOT, H. Observations on a Border Leicester-Awassi cross in Israel. Israel J. Agr. Res. 17(3):161-166. Ref. July 1967. 107 J552 In Israel.
- 92638 GOOT, H. Some data on out-of-season lambing in Mutton Merino ewes. Israel J. Agr. Res. 17(4):219-224. Ref. Oct.1967. 107 J552
- 92639 GUNN, R. G. Levels of first winter feeding in relation to performance of Cheviot hill ewes. IV-V. J. Agr. Sci. [London] 69(3):341-348. Ref. Dec.1967. 10 J822 Growth.
- 92640 HOFMEYER, H. S., and others. On the sex activity of female Boer goats. S. Afr. Soc. Anim. Prod. Proc. 5:134-136. 1966. 49.9 So822 D. M. Joubert, J. F. G. Badenhorst, and G. J. Van D. Steyn, joint authors.
- 92641 HONMODE, J. Artificial insemination of sheep. Indian Farming 18(1):48-49,52. Apr. 1968. 22 In283
- 92642 HUGHES, K. L., and CLAXTON, P. D. Brucella ovis infection. 1. An evaluation of microbiological, serological and clinical methods of diagnosis in the ram. Australian Vet. J. 44(2):41-47. Ref. Feb.1968. 41.8 Au72
- 92643 IDVALL, S. Texel in the 1966 lamb inspection in northern Kalmar County. (Sw) Kalmar Lans Hushallningssallsk. Tidskr. 2: 18-19. Apr.1967. 11 K123 Breed statistics.
- 92644 JURUKOVSKI, M. Selection of sheep for breeding in the autumn. (Se) Sovremeno Zemjod. 13(9):18-20. Sept.1966. S13.S6



- 92645 KALSBEEK, K. Wool inheritance since 1930. (Du) Neth. Prov. Dir. Rijkslandbouwvoorlichting Friesland. Voorlichting Onderz. Grasland Veehouderij 1965:118-121. 1966. SF15.N4A3 Includes wool quality and prices.
- 92646 KOSTIC, V. The effect of the crossing of the Svrlijg and Corriedale sheep breeds on the important production properties of hybrids. (Se) Arh. Poljoprivredne Nauk. 20(69):142-154. Ref. 1967. 21.5 Y9 English summary.
- 92647 LABUSCAGNE, F. J. Prize list survey for Merino sheep. (Af) Wolboer 20(3):28-29,31. Oct.1966. 45.8 W83 Judging.
- 92648 LALL, H. K. Cross-breeding for Indian-type Angora goat. Indian Farming 17(12):45-47. Mar.1968. 22 In283
- 92649 LISHMAN, A. W., and HUNTER, G. L. Effect of progesterone treatment prior to joining breeding rams, on the incidence of oestrus and rate of lambing in a Merino flock. S. Afr. Soc. Anim. Prod. Prod. 5:137-139. Ref. 1966. 49.9 So822
- 92650 LISHMAN, A. W., and HUNTER, G. L. Oestrous activity in the ewe following isolation from the ram during anoestrus. S. Afr. J. Agr. Sci. 10(3):747-752. Sept.1967. 24 Su3
- 92651 LUSK, H. R. Fleece weighing for profit. New Zeal. J. Agr. 114(1):28-29. Jan.1967. 23 N48J To compile breeding data.
- 92652 LYLE, A. D., and HUNTER, G. L. Teasing groups of ewes at staggered intervals as a means of levelling the ram mating load and flock lambing rate. S. Afr. J. Agr. Sci. 10(3):597-607. Ref. Sept.1967. 24 Su3
- 92653 MANGLESDORF, N. W. How important are close hocks in Merino breeding? Agr. Gaz. New S. Wales 79(3):147-149. Mar.1968. 23 N472
- 92654 MARINCOWITZ, G. The occurrence and significance of "ferning" in the seminal plasma of vasectomised Merino rams. S. Afr. Soc. Anim. Prod. Proc. 5:140-143. Ref. 1966. 49.9 So822
- 92655 MARTIN, C. A. Increasing your flock production. New Zeal. Meat Prod. 12(1):40. Oct.2, 1967. 50.8 N48 Selection of sheep for breeding.
- 92656 MCGUIRK, B. J., and SHORT, B. F. The "Lustre" mutation in Merino sheep. Australian J. Exp. Agr. Anim. Husb. 7(27):296-303. Ref. Aug.1967. 23 Au792. Comparative longevity and wool production.
- 92657 MICHAU, N. T. Descendants of original Merino flock. Wolboer 20(4):15. Nov.1966. 45.8 W83 History in Australia.
- 92658 MITIC, N., and others. The induction of estrus and the conception of sheep during lactation in order to increase their reproductive capacity. (Se) Arh. Poljoprivredne Nauk. 20(69):130-141. Ref. 1967. 21.5 Y9 V. Kostic, R. Beslin, and D. Zeremski, joint authors. English summary.
- 92659 MITIC, N. Stimulation of sex activity of sheep in order to improve their reproduction. (Se) Stocarstvo 22(1/2):13-17. Jan./Feb.1968. 43.8 St6
- 92660 O'SHEA, T., and WALES, R. G. Fixation of carbon dioxide by ram spermatozoa. J. Reprod. Fertil. 14(2):333-334. Oct.1967. 44.2.8 J8222
- 92661 PEART, J. N. The effect of different levels of nutrition during late pregnancy on the subsequent milk production of Blackface ewes and on the growth of their lambs. J. Agr. Sci. [London] 68(3):365-371. Ref. June 1967. 10 J822
- 92662 PEREIRA, M. T. Churro sheep of Algarve. (Por) Port. Dir. Geral Serv. Pecuários. Bol. Pecuário 35(1):81-94. 1967. 41.8 P83
- 92663 PRIESTLEY, G. C. Seasonal changes in the inner root sheath of the primary follicles in Herdwick sheep. J. Agr. Sci. [London] 69(1):9-12. Ref. Aug.1967. 10 J822 Wool production.
- 92664 QUINN, J. Recording scheme marks big advance in national sheep industry. New Zeal. J. Agr. 114(5):30-32. May 1967. 23 N48J
- 92665 QUINN, P. J. and WHITE, I. G. The effect of pH, cations and protective agents on the susceptibility of ram spermatozoa to cold shock. Exp. Cell Res. 49(1):31-39. Ref. Jan.1968. 44.2.8 Ex7
- 92666 RAMOS, A. A., and others. Epididymitis in rams, a clinical survey in Rio Grande do Sul State, Brasil. (Por) Pesquisa Agropecuar. Brasil. 1:211-213. 1966. S15.P42 A. Mies, J. A. P. Schenck, L. D. Vasconcellos, O. T. C. Prado, J. C. T. Fernandes, and H. Blobel, joint authors. English summary.
- 92667 REYNEKE, J., and COLYN, P. C. Single versus twin lambs. S. Afr. Soc. Anim. Prod. Proc. 5:122-126. Ref. 1966. 49.9 So822 Weight studies with Dohne Merino.
- 92668 SCHEEPERS, G. E. The influence of age and sex of sheep on the cortical segmentation of Merino wool. S. Afr. J. Agr. Sci. 10(2):551-554. June 1967. 24 Su3
- 92669 SETCHELL, B. P., and others. Amino acids in ram testicular fluid and semen and their metabolism by spermatozoa. Biochem. J. 105(3):1061-1065. Ref. Dec.1967. 382 B52 N. T. Hinks, J. K. Voglmayr, and T. W. Scott, joint authors.
- 92670 SHAKHMARDANOV, Z. A. Gonad regeneration, and its effect upon fertility and sex determination. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 1(37):119-120, 1967. 44.2.8 N22 After castration of rams and rabbits.
- 92671 SLEE, J., and RYDER, M. L. The effect of cold exposure on wool growth in Scottish Blackface and Merino X Cheviot sheep. J. Agr. Sci. [London] 69(3):449-453. Ref. Dec.1967. 10 J822
- 92672 TANDON, S. H. S. Relationship of body weight with body measurement in Betal goat. Indian J. Dairy Sci. 19(4):187-190. Dec.1966. 44.8 In28 Selection for breeding.
- 92673 TANEJA, G. C., and ABICHANDANI, R. K. Genetic basis of blood potassium concentration in sheep. Indian J. Exp. Biol. 5(4):226-228. Ref. Oct.1967. 44.2.8 In2
- 92674 TRAVNICEK, Z. Improving the quality of wool and the breeding of sheep. (Cz) Textil [Prague] 22(1):13-15. Jan.1967. 304.8 T3157
- 92675 USIN, V., and MUZALEVSKII, M. Fertility of ewes as related to selection by age. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 8:33-34. Aug.1967. 281.8 Se4
- 92676 VAN SCHALKWYK, A., and LOOTS, Z. M. The copper status of young Merino wethers in the Zastron District. S. Afr. Soc. Anim. Prod. Proc. 5:85-89. Ref. 1966. 49.9 So822
- 92677 VENTER, J. J. A study of the interrelationships between fleece and fibre characteristics in the Merino. III. The efficacy of subjective evaluation of wool. (Af) S. Afr. J. Agr. Sci. 10(3):583-596. Ref. Sept.1967. 24 Su3 English summary.
- 92678 VENTER, J. J. A study of the interrelationship between fleece and fibre characteristics in the Merino. IV. Wool production in the Merino. (Af) S. Afr. J. Agr. Sci. 10(2):529-542. Ref. June 1967. 24 Su3 English summary.
- 92679 VINNIKOVA, V. A. Wool productivity of the Kuibishev sheep. (Rus) Zhivotnovodstvo 6:63 June 1967. 49 Z6
- 92680 VOSLOO, L. P., VAN SCHALKWYK, G. D., and KLUE, P. Factors related to the weathering of Merino wool. S. Afr. Soc. Anim. Prod. Proc. 5:131-133. 1966. 49.9 So822
- 92681 VOSLOO, W. A. A comparison between the carcass development of German Merino and Dormer fat lambs. S. Afr. Soc. Anim. Prod. Proc. 5:127-130. 1966. 49.9 So822
- 92682 WODZICKA-TOMASZEWSKA, M., and DOBBIE, J. The effect of size, nutrition, and pre-tupping shearing on two-tooth fertility. Ruakura Farmers Conf. Week Proc. 1967:7-18. Apr.9,1968. 49.9 R82 In New Zealand. Includes discussion.

- 92683 ZIVKOVIC, R. Results of breeding sheep of high production. (Se) Glasnik 12(2):25-29. 1968. 280.28 Z13
- Feeds and Feeding
- 92684 ABOU AKKADA, A. R., and EL SAYED OSMAN, H. The use of ruminal ammonia and blood urea as an index of the nutritive value of protein in some food-stuffs. J. Agr. Sci. [London] 69(1): 25-31. Ref. Aug.1967. 10 J822  
Sheep feeding off forages in Sudan.
- 92685 ARNOLD, G. W., and DUDZINSKI, M. L. Studies on the diet of the grazing animal. III. The effect of pasture species and pasture structure on the herbage intake of sheep. Australian J. Agr. Res. 18(4):657-666. Ref. July 1967. 23 Au783
- 92686 BELL, M. C., SNEED, N. N., and HALL, R. F. Effect of ration and route of administration on metabolism of <sup>99</sup>Mo by sheep and swine. Int. Congr. Nutr. Proc., 7th Congr., v.5:765-770. 1966, pub.1967. TX345.I53 1966
- 92687 BOYAZOGLU, P. A., and BARRETT, E. L. Supplementation effects of sodium and ammonium salts of short-chain fatty acids in weaned-lamb and maintenance-sheep rations. S. Afr. Soc. Anim. Prod. Proc. 5:90-92. 1966. 49.9 So822
- 92688 CLOETE, J. G. Some factors governing the voluntary consumption of grass hays by sheep. S. Afr. Soc. Anim. Prod. Proc. 5:50-54. Ref. 1966. 49.9 So822
- 92689 COETZEE, C. G., and PIETERSE, P. J. S. An evaluation of yellow maize as a supplement to mature winter-cut veld grass for woolled sheep. (Af) S. Afr. J. Agr. Sci. 10(1):203-214. Ref. Mar.1967. 24 Su3  
English summary.
- 92690 CRAMER, D. A., and others. A comparison of the effects of white clover (*Trifolium repens*) and of perennial ryegrass (*Lolium perenne*) on fat composition and flavour of lamb. J. Agr. Sci. [London] 69(3):367-373. Ref. Dec.1967. 10 J822  
R. A. Barton, F. B. Shorland, and Z. Czochanska, joint authors.  
New Zealand.
- 92691 DAHMEN, J. J., and BELL, T. D. Drylot versus pasture-managed ewes. VI-VII. Idaho Agr. Res. Progr. Rep. 137,32 p. May 1968. S53.E2
- 92692 DE WET, P. J., and LOUW, D. F. J. Feeding the ewe. 1-2. (Af) Wolboer 20(5):3 p.following p.30; (6):4 p.following p.24. Dec.1966-Jan. 1967. 45.8 W83  
English summary.  
1, Preventing lamb mortality; 2, The pregnant ewe.
- 92693 HAHN, A. Lamb fattening in crop farming. (Ge) Mitt. Deut. Landwirt. Ges. 83(15):539. Apr.11,1968. 18 N39
- 92694 HOFMEYER, H. S. Teach sheep to silage. Farming S. Afr. 42(5):17,19. Aug.1966. 24 So842
- 92695 JORDAN, R. M. Margin over costs favors dry shelled corn, soybean meal and selective worming. Feedlot 10(4):62-63. Apr.1968. 43.8 F32  
Lamb tests.
- 92696 JORDAN, R. M., and MARTEN, G. C. Top profits from lambs on pasture. Minn. Sci. 24(2): 16-17. Winter 1968. 100 M668
- 92697 JORDAN, R. M., and others. Year-round sheep nutrition and feeding programs. Minn. Agr. Exp. Sta. Sta. Bull. 489,13 p. June 1968. 100 M66  
H. E. Hanke, G. C. Marten, and J. W. Rust, joint authors.
- 92698 KHINKOVSKI, TS. Study of the dynamics of wool growth. 1. Semi-Fine-wooled crosses at different levels of protein feeding. (Bu) Zhivotnovudni Nauk. 4(3):3-17. Ref. 1967. 49 Z65  
English summary.  
In Bulgaria.
- 92699 LARGE, R. V., and PENNING, P. D. The artificial rearing of lambs on cold reconstituted whole milk and on milk substitute. J. Agr. Sci. [London] 69(3):405-409. Dec.1967. 10 J822
- 92700 LASSITER, J. W. Net absorption of manganese by sheep from rations with different fat and mineral supplementation. Int. Congr. Nutr. Proc., 7th Congr., v.5:732-737. Ref. 1966, pub. 1967. TX345.I53 1966
- 92701 LENG, R. A., BRETT, D. J., and CORBETT, J. L. Rate of production of volatile fatty acids in the rumen of penned and grazing sheep. Int. Congr. Nutr. Proc., 7th Congr., v.5:411. 1966, pub.1967. TX345.I53 1966
- 92702 LOZANSKI, B. Feeding of sheep for milk production. (Se) Sovremeno Zemjod. 14(3):13. Mar.1967. S13.S6
- 92703 LYNCH, G. P., FRIES, G. F., and HINER, R. L. Nutritional effects on potassium space estimates in sheep. J. Anim. Sci. 27(2):370-376. Ref. Mar.1968. 49 J82  
Effects of feeding various hay/grain ratios on sodium and potassium balances.
- 92704 MAKSIMOVIC, D., BAJCETIC, B., and BAGARIC, D. The effect of supplemental feeding with dried milk of lactating ewes and suckling lambs on the weight of lambs. (Se) Poljoprivredni Pregl. 15(7/8):239-244. Ref. July/Aug.1966. 21.5 P753
- 92705 MAZZONI, R. Assuring the feeding of sheep during the entire year. (It) Inform. Zootec. 14(23):14. Dec.15,1967. 49 In3  
Pasture and silage.
- 92706 MCMANUS, W. R., DUDZINSKI, M. L., and ARNOLD, G. W. Estimation of herbage intake from nitrogen, copper, magnesium and silicon concentrations in faeces. J. Agr. Sci. [London] 69(2):263-268. Ref. Oct.1967. 10 J822  
Digestibility trials with sheep in Australia.
- 92707 MODYANOV, A. V., and STAROVOYTENKO, N. I. Development of silage type feeds for growing sheep. (Rus) Vses. Nauch.-Issled. Inst. Zhivotn. Tr. 30:130-137. 1967. 49.9 R92
- 92708 MODYANOV, A. V. Feed ration values in winter feedings of meat-wool sheep. (Rus) Vses. Nauch.-Issled. Inst. Zhivotn. Tr. 30:108-129. 1967. 49.9 R92
- 92709 MODYANOV, A. V., and others. The influence of variable feeding on the interchange of urea nitrate and ammonium sulphate in sheep's body. (Rus) Vses. Nauch.-Issled. Inst. Zhivotn. Tr. 30:247-254. 1967. 49.9 R92  
Yu. I. Raetskaya, M. I. Rambidi, F. R. Kivkutsan, and N. I. Starovoitenko, joint authors.
- 92710 NAIDENOV, T., and GEORGIEVA, R. Composition, digestibility and energy value of certain feeds in the district of Plevna. (Bu) Zhivotnovudni Nauk. 4(3):37-45. 1967. 49 Z65  
English summary.  
Sheep feeds in Bulgaria.
- 92711 NEDKOV, N. Comparative fattening of cross-bred lambs on various protein feedstuffs. (Bu) Zhivotnovudstvo 21(1):22-26. Jan.1967. 49 Z62
- 92712 NEUMARK, H. On the areas of the stomach of sheep that are sensitive to formic acid and histamine. J. Agr. Sci. [London] 69(2):297-303. Ref. Oct.1967. 10 J822  
Effects feeding habits in Israel.
- 92713 OWEN, J. B., DAVIES, D. A. R., and RIDGMAN, W. J. The efficiency of utilization of grass by lactating ewes. J. Agr. Sci. [London] 69(3): 399-404. Ref. Dec.1967. 10 J822
- 92714 PEN'KOVA, A. F. Effect of different cobalt compound on protein synthesis in sheep. (Rus) Khim. Sel'skom Khoz. 5(5):56-58. May 1967. 385 K524
- 92715 ROBERTS, B. C. Condobolin sheep flock showed no benefit from mineral block. Agr. Gaz. New S. Wales 79(3):183. Mar.1968. 23 N472
- 92716 RUSSEL, A. J. F., DONEY, J. M., and REID, R. L. Energy requirements of the pregnant ewe. J. Agr. Sci. [London] 68(3):359-363. Ref. June 1967. 10 J822
- 92717 RUSSEL, A. J. F., DONEY, J. M., and REID, R. L. The use of biochemical parameters in controlling nutritional state in pregnant ewes, and the effect of undernourishment during pregnancy on lamb birth-weight. J. Agr. Sci. [London] 68(3):351-358. Ref. June 1967. 10 J822



- 92718 SEIDLER, S., WOLCZAK, J., and KROL, S. The effect of urea phosphate feeding on ammonia and volatile fatty acid contents in rumen fluid as well as urea contents in blood serum. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:323-327. 1966, pub. 1967. 20.5 St4 English summary. Sheep.
- 92719 SEIDLER, S., WOJCIECHOWSKI, R., and LA-SOTA, J. The food value of urea phosphate in sheep feeding. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:327-330. 1966, pub. 1967. 20.5 St4 English summary.
- 92720 SPEDDING, C. R. W., and others. Productivity and intensive sheep stocking over a five-year period. J. Agr. Sci. [London] 69(1):47-69. Ref. Aug. 1967. 10 J822  
J. E. Betts, R. V. Large, I. A. N. Wilson, and P. D. Penning, joint authors.
- 92721 STEYN, O. P. J., VAN DER MERWE, C. T., and ENGELBRECHT, C. Your sheep in times of drought. Farming S. Afr. 42(10):36-37. Jan. 1967. 24 So842 Feeding.
- 92722 SWART, J. H., and VAN DER LINDE, C. F. The value of urea-supplementation to sheep grazing on natural veld. S. Afr. Soc. Anim. Prod. Proc. 5:82-84. Ref. 1966. 49.9 So822 In the Republic of South Africa.
- 92723 TOMOV, I. Effect of nitrogen and sulphur-rich silage on the amount and quality of wool. (Bu) Zhivotnovudni Nauk. 4(3):57-63. Ref. 1967. 49 Z65 English summary.
- 92724 TOPPS, J. H. A note on the selective grazing of sheep in the dry Tropics. Trop. Agr. [St. Augustine] 44(2):165-167. Apr. 1967. 26 T754 Southern Rhodesia.
- 92725 TULEY, P., and NWAUZO, E. E. A check-list of browse plants commonly used in the feeding of goats in Eastern Nigeria. Nigerian J. Sci. 1(2):233-234. Ref. July 1967. Q1.N5
- 92726 VAN NIEKERK, B. D. H., BASSON, W. D., and MULDER, A. M. The influence of frequency of feeding and of urea supplementation on sheep under conditions of drought. (Af) S. Afr. J. Agr. Sci. 10(3):687-695. Sept. 1967. 24 Su3 English summary.
- 92727 VAN SCHALKWYK, A., LOMBARD, P. E., and VORSTER, L. F. A comparison between natural indicators for the determination of feed intake. (Af) S. Afr. J. Agr. Sci. 10(2):507-514. Ref. June 1967. 24 Su3 English summary. Pasture feeding of sheep.
- Veterinary Medicine
- 92728 ADAMESTEANU, I., and others. Anatomical and clinical study of trembling of lambs (Ataxia enzootica). (Rum) Inst. Agron. Dr. Petru Groza. Lucrari Stiint. Ser. Med. Vet. Zootehnie 21:95-98. 1965, pub. 1966. SF604.I5  
C. Adamesteanu, V. Salantiu, S. Ghergariu, I. Baba, and Z. Trica, joint authors. English summary.
- 92729 ADAMESTEANU, I., and others. Results of the administration of selenium to the pregnant ewes concerning the cases of twins and weight of lambs at the birth. (Rum) Inst. Agron. Dr. Petru Groza. Lucrari Stiint. Ser. Med. Vet. Zootehnie 21:99-103. Ref. 1965, pub. 1966. SF604.I5  
S. Ghergariu, V. Salantiu, B. Szoke, and L. Maier, joint authors. English summary.
- 92730 ANDREOLI, T. E., TIEFFENBERG, M., and TOSTESON, D. C. The effect of valinomycin on the ionic permeability of thin lipid membranes. J. Gen. Physiol. 50(11):2527-2545. Ref. Dec. 1967. 447.8 J822 In sheep.
- 92731 ARRU, E. DEIANA, S., and CASU, S. Action of thibenzole on gastrointestinal strongylosis and and microcoeliasis in sheep. Vet. Ital 18(9/10): 551-562. Sept./Oct. 1967. 41.8 C87 Text also in Italian, p. 536-550. In Sardinia.
- 92732 AXELSEN, A., and WILLOUGHBY, W. M. Pasture management in relation to blowfly body-strike on Merino sheep. Australian Vet. J. 44(1):15-16. Ref. Jan. 1966. 41.8 Au72 In Australia.
- 92733 BAATAR, B. Nekrobatsillez ovets i koz v Mongol'skoi Narodnoi Respublike [Necrobacillosis of sheep and goats in the Mongolian People's Republic]. Frunze, Ilim, 1967. 76 p. Ref. SF968.B3
- 92734 BAEV, G. Y. A case of mass bone fractures in lambs after castration. (Rus) Veterinariya 8: 91-92. Aug. 1967. 41.8 V6426
- 92735 BAHARSEFAT, M., MANHOURI, H., and YAMINI, B. Mycoplasma agalactiae. I-II. Inst. Razi. Arch. 19:87-95. Ref. Dec. 1967. 41.9 In72 Causative agent of contagious agalactia in sheep and goats.
- 92736 BAIES, I., and others. Epizootiological, clinical and prophylactic study of some foci of listeriosis of sheep in the Cluj area. (Rum) Inst. Agron. Dr. Petru Groza. Lucrari Stiint. Ser. Med. Vet. Zootehnie 21:125-137. Ref. 1965, pub. 1966. SF604.I5  
I. Contiu, M. Pop, E. Onet, and T. Rusu, joint authors. English summary.
- 92737 BALMURADOV, T. B. Toxicity of phosphorus-organic compounds in cotton feeds. (Rus) Veterinariya 8:81-82. Aug. 1967. 41.8 V6426 Cottonseed meal poisonous to sheep.
- 92738 BARNETT, K. C., and WATSON, W. A. Bright blindness in sheep - the results of further investigations. Veterinarian (Oxford) 5(1):17-27. Jan. 1968. 41.8 V6467
- 92739 BECKLUND, W. W., and SENER, C. M. Parasites of Ovis canadensis canadensis in Montana, with a checklist of the internal and external parasites of the Rocky Mountain bighorn sheep in North America. J. Parasitol. 53(1):157-165. Ref. Feb. 1967. 448.8 J824 Includes species which are parasites of domestic sheep and cattle.
- 92740 BEGOVIC, L. Chlorpromazine and ethanol administered parenterally as narcotics in sheep. (Se) Veterinaria [Sarajevo] 16(4):533-542. 1967. 41.8 V6494 English summary.
- 92741 BELAK, M. Electron microscopical study of absorptive cells of duodenum of newborn lambs. Folia Vet. 10(1):63-74. Ref. 1966. 41.8 F712
- 92742 BELAK, M. Ultrastructure of enterocytes in the duodenum of suckling lambs. (Cz) Folia Vet. 10(2):105-114. Ref. 1966. 41.8 F712 English summary. Use of electron microscopy.
- 92743 BERGMAN, E. N., and HOGUE, D. E. Glucose turnover and oxidation rates in lactating sheep. Amer. J. Physiol. 213(6):1378-1384. Ref. Dec. 1967. 447.8 Am3
- 92744 BLANCO, A., RIFE, U., and TARSON, B. L. Lactate dehydrogenase isozymes during differentiation in cultures of mammary secretory cells. Nature 214(5095):1331-1333. Ref. June 24, 1967. 472 N21 Goat study.
- 92745 BORAY, J. C., and HAPPICH, F. A. Standardised chemotherapeutic tests for immature and mature Fasciola hepatica infections in sheep. Australian Vet. J. 44(2):72-78. Ref. Feb. 1968. 41.8 Au72
- 92746 BOYD, J. W., and FORD, E. J. H. Normal variation in alanine aminotransferase activity in sheep and cattle. J. Agr. Sci. [London] 68(3): 385-389. Ref. June 1967. 10 J822
- 92747 BURNELL, R. E. Cradles make footrot treatment easier. New Zeal. J. Agr. 114(4):50-51, 53. Apr. 1967. 23 N48J

- 92748 BWANGAMI, O. An outbreak of photosensitization in Karamo jong sheep at Entebbe. *Bull. Epizoot. Dis. Afr.* 15(4):379-388. Dec.1967. 41.8 B872
- 92749 CANCELLA, P. A., and BARLOW, R. M. An electron microscopy study of the spinal cord in Border disease of lambs. *Res. Vet. Sci.* 9 (1):88-90. Ref. Jan.1968. 41.8 R312
- 92750 CONTINI, A. Vaccination trials against the gangrenous mastitis in sheep. *Ital. Vet.* 19 (1/2):71-75. Ref., p.69-70. Jan./Feb.1968. 41.8 C87  
Italian text, p.62-70.
- 92751 DEORANI, V. P. S. Histopathological studies on hepatitis cysticercosa lesions in sheep and a deer. *Indian Vet. J.* 44(11):939-942. Ref. Nov. 1967. 41.8 In2  
Caused by *Cysticercus tenuicollis*.
- 92752 DOANE, T. H., and MCREYNOLDS, W. E. Detecting pregnant ewes made easy. *Nebr. Univ. Coll. Agr. Home Econ. Quart. Serving Farm Ranch Home* 11, i.e.14(3):4-5. Fall 1967. 100 N27N  
With supersonic vibrations.
- 92753 DONALD, A. D. Populations of strongyloid infective larvae in pastures after sheep are removed from grazing. *Australian Vet. J.* 43 (4):122-128. Ref. Apr.1967. 41.8 Au72
- 92754 DOWNING, S. E., and ROCAMORA, J. M. Cardiovascular responses to hypoxemia and acidemia in the intact anesthetized lamb. *Yale J. Biol. Med.* 40(1):296-312. Ref. Feb.1968. 44.8 Y1
- 92755 EGOSHIN, I. S., RYSKULOV, K. R., and VIT-SOMSKY, E. V. On sheep urolithiasis in the Kirghiz SSR. (Rus) *Veterinariya* 8:90-91. Aug. 1967. 41.8 V6426
- 92756 EVDOKIMOV, E. S. Laboratory control in antibiotic application. (Rus) *Veterinariya* 8:54. Aug.1967. 41.8 V6426  
Treatment of bronchopneumonia in sheep.
- 92757 EWAN, R. C., BAUMANN, C. A., and POPE, A. L. Effects of selenium and vitamin E on nutritional muscular dystrophy in lambs. *J. Anim. Sci.* 27(3):751-756. Ref. May 1968. 49 J82
- 92758 FAYE, P., CHARTON, A., and LE LAYEC, C. The presence of antibodies in the ovine serum inhibiting the hemagglutination by myxovirus parainfluenza. (Fr) *Acad. Vet. France. Bull.* 40(4):203-207. Ref. Apr.1967. 41.9 R24
- 92759 FIELD, A. C., and SUTTLE, N. F. Retention of calcium, phosphorus, magnesium, sodium and potassium by the developing sheep foetus. *J. Agr. Sci. [London]* 69(3):417-423. Ref. Dec. 1967. 10 J822
- 92760 GALIEV, R. S., and VOLKOVA, A. A. Test of dibiomycin in the case of lamb necrobacillosis. (Rus) *Veterinariya* 8:66-68. Aug.1967. 41.8 V6426  
A chlortetracycline compound for treatment of *Spherophorus necrophorus* infection.
- 92761 GIRARD, A., and others. Study of catarrhal fever of sheep. (Fr) *Econ. Med. Anim.* 9(1):26-31. Jan./Feb.1968. 41.8 Ec7  
P. Boulanger, G. L. Bannister, and G. M. Ruckerbauer, joint authors.  
Bluetongue.
- 92762 GOLDNER, H. Histomorphologische Untersuchungen der Schilddrüse des Schafes aus der Kölner Bucht. 46. Beitrag zur geographischen Pathologie der Schilddrüse [Histomorphological studies of thyroid gland of sheep from the inlet of Köln. 46. Contribution to geographic pathology of thyroid gland]. Hanover. Tierarztl. Hochschule. Inaug.-Diss. 31,24 p. Ref. 1966. 41.2 H198
- 92763 GRISHAEV, N. E., and others. Mixed infection of sheep. (Rus) *Veterinariya* 8:64-66. Aug. 1967. 41.8 V6426  
N. Zh. Zhanuzakov, A. P. Lovinetsky, L. S. Yakimchikov, and V. M. Gorchakov, joint authors.  
Pseudorabies and malignant edema identified.
- 92764 GROMMERS, F. J. Influencing estrus of sheep and its connection with successful parturition. I. (Du) *Veeteelt Zuivelber.* 10(5):211-216. May 1967. 49 V51  
Effects of hormones.
- 92765 GUDNADOTTIR, M., GISLASON, G., and PALS-SON, P. A. Studies on natural cases of maedi [virus] in search for diagnostic laboratory methods. *Res. Vet. Sci.* 9(1):65-67. Jan.1968. 41.8 R312  
Outbreaks in sheep in Iceland.
- 92766 GUERCIO, V. Enterotoxemia of sheep in Sicily. *Vet. Ital.* 18(9/10):526-535. Ref., p.524-525. Sept./Oct.1967. 41.8 C87  
Text also in Italian, p.514-525.
- 92767 GUPTA, D. N. Effect of starvation on the contents of different compartments of sheep and goat stomach. *Indian Vet. J.* 44(11):942-946. Nov.1967. 41.8 In2
- 92768 HARTER, D. H., HSU, K. C., and ROSE, H. M. Immunofluorescence and cytochemical studies of visna virus in cell culture. *J. Virol.* 1(6): 1265-1270. Ref. Dec.1967. QR360.J6  
Causes a fatal disease of the nervous system of sheep.
- 92769 HEPPLER, J. R. Clostridial diseases. *Great Brit. Min. Agr. Fish. Food. Agr.* 75(3):125-130. Mar.1968. 10 G79J  
In sheep and cattle.
- 92770 HILDEBRANDT, J. The effect of hetol on immature and mature stages of *Fasciola gigantica* in artificially infected sheep. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 80(19):369-371. Ref. Oct.1,1967. 41.8 B45  
English summary.
- 92771 HILTON, G. No fluke! *Zootec. Vet.* 22(5/6): 175-178. May/June 1967. 41.8 Z7  
Zanil, a new drug, against liver flukes of sheep.
- 92772 HOPCROFT, S. C. Technique of epidural anaesthesia in experimental sheep. *Australian Vet. J.* 43(6):213-214. June 1967. 41.8 Au72
- 92773 HOWELL, J. M., EDINGTON, N., and EWBANK, R. Observations on copper and caeruloplasmin levels in the blood of pregnant ewes and lambs. *Res. Vet. Sci.* 9(2):160-164. Ref. Mar.1968. 41.8 R312
- 92774 HULINSKA, I. Determination of species of larvae of intestinal nematodes in sheep. (Cz) *Veterinarstvi* 17(9):409-411. 1967. 41.8 V6439
- 92775 HUPP, E. W., and others. Blood changes in female goats following different intensities of gamma radiation. *Tex. J. Sci.* 19(4):369-374. Dec.31,1967. 470 T31  
C. A. O'Brien, H. B. Pace, and J. W. Austin, joint authors.
- 92776 IRGASHEV, I. KH., MATCHANOV, N. M., and SADYKOV, V. M. Measures of echinococcosis and coenurosis control in Uzbekistan. (Rus) *Veterinariya* 8:77-78. Aug.1967. 41.8 V6426  
Sheep and cattle.
- 92777 IRFAN, M. Field trials on the efficacy of thia-bendazole against *Haemonchus contortus* in west African dwarf forest sheep and goats. *Bull. Epizoot. Dis. Afr.* 5(4):369-371. Ref. Dec.1967. 41.8 B872
- 92778 JAKOB, W. Further experimental investigations into the pathogenesis of cerebral listeriosis of sheep. 3. The course of experimental infection with *Listeria monocytogenes* in sheep with high-protein and low-protein nutrition. (Ge) *Arch. Exp. Veterinarmed.* 21(4):1061-1072. Ref. 1967. 41.8 Ex7  
English summary.
- 92779 JAKOB, W. Further experimental investigations into the pathogenesis of cerebral listeriosis of sheep. IV. (Ge) *Arch. Exp. Veterinarmed.* 21(5):1217-1224. Ref. 1967. 41.8 Ex7  
English summary.  
Includes experimental infection with *Listeria monocytogenes* and effects of hyaluronidase.
- 92780 JEGATHEESWARAN, T. Occurrence of *Eimeria ahsata* (Honness, 1942) in a kid in Ceylon. *Ceylon Vet. J.* 15(2):62-64. Ref. June 1967. 41.8 C33



- 92781 JENKINSON, D. M., BLACKBURN, P. S., and PROUDFOOT, R. Seasonal changes in the skin glands of the goat. *Brit. Vet. J.* 123(12):541-549. Ref. Dec.1967. 41.8 V643  
Sweat glands and sebaceous glands during the breeding season.
- 92782 KADYROV, U. G. Contagious pustular dermatitis of sheep in north-east Kazakhstan. (Rus) *Veterinariya* 8:62-64. Aug.1967. 41.8 V6426  
Foot infection.
- 92783 KADYROV, U. G. Pathomorphological changes of sheep claws in the case of infectious pustular dermatitis. (Rus) *Veterinariya* 12:45-47. Dec.1967. 41.8 V6426  
Ulcerative condition.
- 92784 KARIHALOO, A. K., and SINGH, O. N. Oestrus synchronization and its utility in sheep improvement. *Indian Vet. J.* 44(12):1069-1073. Ref. Dec.1967. 41.8 In2
- 92785 KEELER, R. F., and BINNS, W. Teratogenic compounds of *Veratrum californicum* (Durand). III. Malformation of the veratramine-induced type from ingestion of plant or roots. *Soc. Exp. Biol. Med. Proc.* 126(2):452-454. Nov.1967. 442.9 S01  
Malformations in lambs.
- 92786 KHAROLE, M. U. Symmetrical cortical siderosis. *Indian Vet. J.* 44(12):1030-1032. Dec. 1967. 41.8 In2  
In goats.
- 92787 KONA, E. On sources and needs of glucose in sheep. (Rum) *Czech. Min. Zemedel. Lesniho Hospodar. Ustav Vedeckotech. Inform. Vet. Med.* 40(10):587-592. Ref. Oct.1967. 41.9 C333  
English summary.
- 92788 KONDOS, A. C. A new method for cannulation of the abomasum in sheep. *Australian Vet. J.* 43(4):149-151. Apr.1967. 41.8 Au72
- 92789 KONONENKO, G. V. On occurrence of micro-sarcosporidiosis in sheep. (Rus) *Veterinariya* 12:53-54. Dec.1967. 41.8 V6426
- 92790 KOVAC, J., and MACHYCEK, V. Activity of glutamic-oxalacetic transaminase in the blood serum of healthy sheep. (Cz) *Folia. Vet.* 10(1):23-30. Ref. 1966. 41.8 F712  
English summary.
- 92791 KULAVSKY, G. P. The duration of chlorotetracyclin circulation in the organism of sheep. (Rus) *Veterinariya* 8:84-85. Aug.1967. 41.8 V6426
- 92792 KURILOV, N. V., PTASHKIN, A. A., and MAKARTSEV, N. G. The aminoacid metabolism in the rumen wall of sheep. (Rus) *Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina Dokl.* 5:26-28. May 1967. 20 Ak1
- 92793 KUZNETSOV, Y. I., IRGASHEV, I. KH., and MUSIAKIMOV, A. G. Tests of anthelmintics against sheep anoplocephalosis. (Rus) *Veterinariya* 8:78-79. Aug.1967. 41.8 V6426  
Tapeworms.
- 92794 LAEMMLER, G. Parasite control in sheep. (Ge) *Mitt. Deut. Landwirt.-Ges.* 83(15):520-522. Apr.11,1968. 18 N39  
Control of worms.
- 92795 LANGLOIS, J. M., CORRIVAUULT, G. W., and DESBIENS, G. A gross anatomical study on the cerebral cortex of the sheep. (Fr) *Natur. Can.* 94(6):699-709. Ref. Nov.-Dec.1967. 410 N216  
English summary.
- 92796 LEITAO, J. L. DA S., and CRUZ E SILVA, J. A. Experiment on the relative activity of thiabendazole, phenothiazine and solution of copper sulfate and nicotine sulfate in the treatment of gastrointestinal strongylosis of sheep. (Por) *Lisbon. Escol. Super. Med. Vet. An.* 8:29,31-36. Ref. 1967. 41.9 L682  
English summary.
- 92797 LE RICHE, P. D. The transmission of dermatophilosis (mycotic dermatitis) in sheep. *Australian Vet. J.* 44(2):64-67. Ref. Feb.1968. 41.8 Au72
- 92798 LOUW, G. N., STEENKAMP, C. W. P., and STEENKAMP, E. L. Some aspects of the aetiology of enzootic icterus ("geelsiekte") and tribulosis ovis ("geeldikkop"). *S. Afr. J. Agr. Sci.* 10(1):215-227, map. Ref. Mar.1967. 24 Su3  
Selenium intoxication of sheep from 77 different plant species.
- 92799 LUCHSINGER, D. W., and ANDERSON, R. K. Epizootiology of brucellosis in a flock of sheep. *Amer. Vet. Med. Ass. J.* 150(9):1017-1021. Ref. May 1,1967. 41.8 Am3
- 92800 MARJANI, A. The paratubercular enteritis in sheep and goats. (Al) *Bul. Shkencave Bujqesore* 1:96-100. 1967. 21.5 B87  
English summary.
- 92801 MASRI, M. S., and others. Crystalline aflatoxin M<sub>1</sub> from urine and milk. *Nature* 215(5102):753-755. Aug.12,1967. 472 N21  
R. E. Lundin, J. R. Page, and V. C. Garcia, joint authors.  
From sheep urine and cow's milk.
- 92802 MCCOSKER, P. J. Observations on blood copper in the sheep. I. Normal copper status and variations induced by different conditions. *Res. Vet. Sci.* 9(1):91-101. Ref. Jan.1968. 41.8 R312
- 92803 MCCOSKER, P. J. Observations on blood copper in the sheep. II. Chronic copper poisoning. *Res. Vet. Sci.* 9(2):103-116. Ref. Mar.1968. 41.8 R312
- 92804 MUGERA, G. M., and KRÄMER, T. T. Pasteurellosis in Kenya goats due to *Pasteurella haemolytica*. *Bull. Epizoot. Dis. Afr.* 15(2):125-132. June 1967. 41.8 B872
- 92805 MURA, D. The immunological tolerance in relation to the antigen *Salmonella abortus ovis*. *Ital. Vet.* 19(1/2):52-61. Ref., p.50-51. Jan./Feb. 1968. 41.8 C87  
Italian text, p.40-51.  
Results of sheep vaccination.
- 92806 MURESAN, E., and others. Frequency and details of the celiac and mesenteric arteries in sheep. (Rum) *Inst. Agron. Dr. Petru Groza. Lucrari Stiint. Ser. Med. Vet. Zootehnie* 21:23-26. 1965, pub.1966. SF604.15  
P. Georgeanu, M. Miclea, and H. Pop, joint authors.  
English summary.
- 92807 MUSTAKIMOV, R. G. Fluorography for diagnosis of sheep bronchopneumonia. (Rus) *Veterinariya* 8:89-90. Aug.1967. 41.8 V6426
- 92808 NAGI, M. S., SHARMA, G. L., and BHALLA, N. P. Reaction of skeletal muscle to Mycoplasma [mycoides var. capri]. *Indian J. Vet. Sci. Anim. Husb.* 37(2):118-121. June 1967. 41.8 In22  
Goats used in the study; cause of pleuropneumonia.
- 92809 NANDA, B. S., PATEL, M. R., and MAKHANI, J. S. Bronchial tree and bronchopulmonary segments in goats. *Indian Vet. J.* 44(11):926-933. Ref. Nov.1967. 41.8 In2
- 92810 NEVJESTIC, A., and FORSEK, Z. The frequency and etiology of enzootic abortions of ewes in Bosnia and Herzegovina. (Se) *Veterinaria [Sarajevo]* 16(4):545-549, map. 1967. 41.8 V6494  
English summary.  
Includes salmonellosis.
- 92811 NOBILE, S. Relationship between levels of ubiquinones (coenzymes Q) and vitamin A in livers of Australian sheep and cattle. *Australian Vet. J.* 44(1):1-6. Ref. Jan.1968. 41.8 AU72  
Vitamin A deficiency.
- 92812 OJO, M. O., and ADEOYE, A. Rabies in a Nigerian dwarf goat. *Bull. Epizoot. Dis. Afr.* 15(4):409-410. Dec.1967. 41.8 B872
- 92813 ONDRASEK, M. Losses in sheep raising caused by gastro-intestinal worms. (Cz) *Veterinarstvi* 18(2):88-90. 1968. 41.8 V6439
- 92814 PADUCHEVA, A. L. A study of postnatal sulfur metabolism in the womb of pregnant sheep and their fetuses in regard to wool formation. (Rus) *Vses. Nauch.-Issled. Inst. Zhivotn. Tr.* 30:238-246. 1967. 49.9 R92

- 92815 PADUCHEVA, A. L., KARATUP, T. M., and LEKAREV, V. S. Utilization of nitrogen of ammonium sulphate and urea by lambs at earlier ages. (Rus) Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina. Dokl. 6:25-28. June 1967. 20 Ak1
- 92816 PALIAN, B., TAHIROVIC, N., and MULIC, J. A contribution to the knowledge of the essential physiological indices in the reaction of different breed- and wool types of lambs, kept under the conditions of extensive rearing to meteorological changes. (Se) Veterinaria [Sarajevo] 16(4):479-492. 1967. 41.8 V6494  
English summary.
- 92817 PARLE, J. N. Trials of the Ruakura facial eczema predictor. New Zeal. J. Agr. 114(3):30-31. Mar.1967. 23 N48J  
Sheep.
- 92818 PAUER, T., and JENCIKOVA, J. Histological and chemical study of non-specific esterases in the mucous membrane of rumen in lambs. (Cz) Czech. Min. Zemedel. Lesniho Hospodar. Ustav Vedeckotech. Inform. Vet. Med. 40(10):609-612. Ref. Oct.1967. 41.9 C333  
English summary.
- 92819 PAVLOV, N. Histopathology of neorickettsial pneumonias in sheep. Zentralbl. Veterinar-med. Reihe B, 14(4):343-355. Ref. June 1967. 41.8 Z52
- 92820 PENNINGTON, M. E. K. Treating chronic baldness in stud goats. Brit. Goat Soc. Year Book. 1968:21. 40.19 B77
- 92821 PERKINS, J. L., and GOODE, L. Free amino acids in the oviduct fluid of the ewe. J. Reprod. Fertil. 14(2):309-311. Oct.1967. 442.8 J8222
- 92822 POPOVICI, A., and CURE, C. Streptococcal polyarthritis in lambs and its treatment with Reverin-Susp. Blue Book Vet. Prof. 13:18-20. 1967. 41.9 B61Ae
- 92823 PUGH, D. M. The radiographic determination of pregnancy in sheep. Inst. Anim. Tech. J. 19(1):33-35. Ref. Mar.1968. QL55.15
- 92824 QADIR, A. N. M. A. Investigation on the incidence of gastro-intestinal parasites of the goat in the East Pakistan agricultural university campus. Ceylon Vet. J. 15(2):58-61. June 1967. 41.8 C33
- 92825 QUARTERMAN, J., and DALGARNO, A. C. Observations on the development of periodontal disease in hill sheep and the effect of selenium injections. Res. Vet. Sci. 9(1):41-47. Ref. Jan.1968. 41.8 R312  
Investigations in Scotland.
- 92826 RAMACHANDRAN, S. Observations on the histopathology of lung lesions in experimental pox infection of sheep and goats. Ceylon Vet. J. 15(3):78-81. Ref. Sept.1967. 41.8 C33
- 92827 RAMACHANDRAN, S. Observations on the histopathology of verminous pneumonia of sheep and goats at Mukteswar-Kumaon. Ceylon Vet. J. 15(3):100-104. Ref. Sept.1967. 41.8 C33  
Lungworm infestation.
- 92828 RAWSON, R. O., HARDY, J. D., and VASKO, K. A. Visceral tissue vascularization: an adaptive response to high temperature. Science 158(3805):1203-1204. Dec.1,1967. 470 Sci2  
In sheep.
- 92829 RIEGLE, G. D., PRZEKOP, F., and NELLOR, J. E. Changes in adrenocortical responsiveness to ACTH infusion in aging goats. J. Gerontol. 23(2):187-190. Ref. Apr.1968. 447.8 J824
- 92830 ROBINSON, R. A. Salmonellosis in sheep and calves. Ruakura Farmers Conf. Week Proc. 1967:147-159. Apr.9,1968. 49.9 R82  
In New Zealand.  
Includes discussion.
- 92831 RUDOLPH, W., and SCHRODER, C. A simple method of obtaining chromatographically pure immune globulins for immunohistological studies. (Ge) Arch. Exp. Veterinarmed. 21(5):1195-1198. 1967. 41.8 Ex7  
English summary.  
Goats and rabbits sera studied.
- 92832 SCHMIDT, D. Experimental contributions to the knowledge of dermatitis pustulosa of sheep. III, V-VII. (Ge) Arch. Exp. Veterinarmed. 21(4):931-980. Ref. 1967. 41.8 Ex7  
English summary.  
Includes virus, complement fixing antigen and immunity studies.
- 92833 SCHNORR, B., and HEGNER, D. Vascular architecture of the nasal cavities of the sheep and goat. (Ge) Zentralbl. Veterinarmed. Reihe A, 14(5):445-468. Ref. Aug.1967. 41.8 Z5  
English summary.
- 92834 SCHULZ, H. P., and DALCHOW, W. Studies on the cultivation of the parasitic larval stages of Chabertia ovina (Fabricius, 1788) in vitro. (Ge) Berliner Munchener Tierarztl. Wochenschr. 80(21):410-415. Ref. Nov.1,1967. 41.8 B45  
English summary.
- 92835 SEFFNER, W., and LIPPMANN, R. Occurrence of progressive interstitial pneumonia in sheep. (Ge) Monatsh. Veterinarmed. 22(22):901-906. Ref. Nov.15,1967. 41.8 M742  
English summary.
- 92836 SHIVDEKAR, D. S., and PATHAK, P. N. Experimental Brucella melitensis infection in local goats-opsonocytaphagic test on blood. Indian Vet. J. 44(11):914-916. Ref. Nov.1967. 41.8 In2
- 92837 SHULZ, R. S., DIKOV, G. I., and TORMYSHEV, A. P. Sheep helminthosis control in Kazakhstan. (Rus) Veterinariya 8:75-76. Aug.1967. 41.8 V6426
- 92838 SINCLAIR, D. P., and PARLE, J. N. Thiabendazole and facial eczema. Ruakura Farmers Conf. Week Proc. 1967:160-170. Apr.9,1968. 49.9 R82
- 92839 SINCLAIR, K. B. The effect of corticosteroid on the plasma protein of lambs infected with Fasciola hepatica. Rev. Vet. Sci. 9(2):181-183. Mar.1968. 41.8 R312
- 92840 SMITH, I. D. The effect of constant long daily photoperiod upon the onset of puberty in ewes. J. Agr. Sci. [London] 69(1):43-45. Ref. Aug. 1967. 10 J822
- 92841 SMITH, I. D., and FROST, A. J. The pathogenicity to pregnant ewes of an organism of the genus Bacillus. Australian Vet. J. 44(1):17-19. Ref. Jan.1968. 41.8 Au72  
Bacillus-caused abortion in sheep.
- 92842 SMITH, J. E., and OSBURN, B. I. Glutathione deficiency in sheep erythrocytes. Science 158(3799):374-375. Oct.20,1967. 470 Sci2
- 92843 SOTNIKOV, M. I., and others. Extrem N. V. practice of sheep brucellosis control in Turkmenistan. (Rus) Veterinariya 8:59-60. Aug. 1967. 41.8 V6426  
N. E. Korobov, V. A. Martynchenko, and U. E. Niyazov, joint authors.
- 92844 STEENBEEK, D. Control of lamb death. (Du) Neth. Prov. Dir. Rijkslandbouwvoorlichting Friesland. Voorlichting Onderz. Grasland Veehouderij 1965:122-123. 1966. SF15.N4A3  
Sheep breeding.
- 92845 STIELAU, W. J., OWEN, N. C., and VAN RYSEN, J. B. J. Estimation of urinary endogenous nitrogen excretion by adult sheep. S. Afr. J. Agr. Sci. 10(1):235-240. Mar.1967. 24 Su3
- 92846 STIELAU, W. J. The rate of passage of food particles through the digestive tract of sheep. S. Afr. J. Agr. Sci. 10(3):753-760. Ref. Sept. 1967. 24 Su3
- 92847 STUDDERT, M. J., and MCKERCHER, D. G. Bedsonia abortion of sheep. I-II. Res. Vet. Sci. 9(1):48-64. Ref. Jan.1968. 41.8 R312  
I, Aetiological studies; II, Pathology and pathogenesis with observations on the normal ovine placenta.
- 92848 SVIRIDENKO, V. F. Fluorescent antibody method for diagnosis of sheep leptospirosis. (Rus) Veterinariya 8:48-49. Aug.1967. 41.8 V6426
- 92849 SZTEYN, S. Topography and structure of the geniculate bodies in sheep. Folia Morphol. 26(1):77-87. Ref. 1967. 444.8 F71Ae



- 92850 SZTEYN, S., and WELENTO, J. Topography and structure of the habenular nuclei in goats. *Folia Morphol.* 26(1):71-76. Ref. 1967. 444.8 F71Ae
- 92851 THOMAS, R. J., and GEORGE, R. W. Anthelmintic studies in fat lamb production. II. Autumn treatment of lambs at pasture with methyridine. *Res. Vet. Sci.* 9(1):79-87. Ref. Jan. 1968. 41.8 R312
- 92852 TOKARNIA, C. H., and others. Enzootic ataxia of lambs in the coastal area of Piaui. (Por) *Pesquisa Agropecuar. Brasil.* 1:375-382. Ref. 1966. S15.P42  
J. Dobereiner, C. F. C. Canella, and J. A. Guimaraes, joint authors.  
English summary.
- 92853 VAN NIEKERK, A. L., and VAN DER MERWE, F. J. Some aspects of the nitrogen metabolism of sheep with special reference to the rumen. *S. Afr. Soc. Anim. Prod. Proc.* 5:61-65. 1966. 49.9 So822
- 92854 VAN NIEKERK, B. D. H., and MULDER, A. M. Internal parasites in the drylot feeding of sheep. *S. Afr. Soc. Anim. Prod. Proc.* 5:104-111. Ref. 1966. 49.9 So822  
Control with thiabendazole.
- 92855 VARTIC, N., SUTEU, E., and TRICA, Z. Testing the effectiveness of the preparation Bubulin on sheep infected with the *Oestrus ovis*. (Rum) *Inst. Agron. Dr. Petru Groza. Lucrari Stiint. Ser. Med. Vet. Zootehnie* 21:169-173. Ref. 1965, pub. 1966. SF604.I5  
English summary.
- 92856 VASIN, A. D. Types of atresia of the ovarian follicles of sheep during ontogenesis. (Rus) *Veterinariya* 12:87-88. Dec. 1967. 41.8 V6426
- 92857 VAUGHN, D., and others. Fetal and neonatal response to acid loading in the sheep. *J. Appl. Physiol.* 24(2):135-141. Ref. Feb. 1968. 447.8 J825  
T. H. Kirschbaum, T. Bersentes, P. V. Dilts, and N. S. Assali, joint authors.
- 92858 VINSON, G. P. Role of 21-hydroxypregnenolone in the synthesis of corticosterone from pregnenolone by sheep adrenal tissue in vitro. *Gen. Compar. Endocrinol.* 9(2):154-160. Ref. Oct. 1967. 444.8 G28
- 92859 VRZGULA, L., SUTTA, J., and BARTKO, P. Study of transaminases, alkali phosphatases, bilirubin, copper and phosphorus in the blood serum of sheep during the experimental obstruction of bile duct. (Cz) *Czech. Min. Zemedel. Lesního Hospodar. Ustav Vedeckotech. Inform. Vet. Med.* 40(10):601-608. Ref. Oct. 1967. 41.9 C333  
English summary.
- 92860 WILKINSON, F. These worms caused this. *West. Australia. Dep. Agr. J. (ser.4)* 8(8):336-337. Aug. 1967. 23 W52J  
Barber-pole worm (*Haemonchus contortus*) caused anemia of sheep.
- 92861 WOOD, D. H., MURRAY, J. L., and PALOTAY, J. L. Correlation of rose bengal clearance and histopathologic change of sheep livers damaged by neptunium-237. *Amer. J. Vet. Res.* 29(5):1103-1108. May 1968. 41.8 Am3A
- 92862 WROBEL, K. H., and KUHNEL, W. Histological enzyme studies on the sheep placenta at the time of parturition. (Ge) *Zentralbl. Veterinarmed. Reihe A*, 14(5):429-444. Ref. Aug. 1967. 41.8 Z5  
English summary.
- 92863 ZUBER, M. Zuchtung von Schafpockenvirus in Zellkulturen [Cultivation of sheep pox virus in cell cultures]. *Munich. Univ. Tierarztl. Fak. [Inaug.-Diss]* 48, 26 p. 1966. 41.2 M9222  
Bibliography, p. 24-26.  
Miscellaneous
- 92864 ARU, H. Marking. (Sw) *Farskotsel* 48(1):27-29. Feb. 1968. 45.9 Sv2  
Ear marking of sheep in Sweden.
- 92865 BRITISH GOAT SOCIETY. Yearbook 1968. Norfolk, 1968. 103 p. 40.19 B77
- 92866 GAFFIER, E., and COTTIER, M. Selection for raising in the "RAYON" Department during the season of 1966. (Fr) *Patre* 145:25-29. July 1967. 45.8 P272  
Sheep milk production performance.
- 92867 HOF LUND, S. Hygiene of shed and run. 1. (Sw) *Farskotsel* 48(1):15-18. Feb. 1968. 45.9 Sv2  
Sheep shelters.
- 92868 JACLOT, P., and BERRY, F. Considerations on the techniques of producing mutton. (Fr) *World Rev. Anim. Prod.* 3(14):48-55. July/Sept. 1967. 49 W89
- 92869 JURUKOVSKI, M. The shearing of sheep and the handling of wool. (Se) *Sovremeno Zemjod.* 13(4):16-18. Apr. 1966. S13.S6
- 92870 KRECZKO, P. Organization of farmholdings specializing in sheep breeding on land under the State Land Fund [Panstwowy Fundusz Ziemi]. (Pol) *Nowe Roln.* 16(4):17-18. 1967. 20.5 N86  
In Poland.
- 92871 LOZANSKI, B. Care and feeding of lambs up to the weaning period. (Se) *Sovremeno Zemjod.* 14(2):15-16. Feb. 1967. S13.S6
- 92872 MARX, F. E. Natal farmers can double their wool production. (Af) *Wolboer* 20(5):41, 43. Dec. 1966. 45.8 W83
- 92873 MASSEY UNIVERSITY OF MANAWATU. Sheepfarming annual 1966, including the proceedings of the twenty-ninth annual meeting of sheep farmers conducted by Massey University, Palmerston North, from June 21 to 23, 1966 and of the first National Beef Cattle Symposium held at Palmerston North, May 23 to 25, 1966, edited by R. A. Barton. Palmerston North, 1966. 304 p. 45.9 M38S
- 92874 MCKENZIE, D. K. Observations on the development of private sheep farms in Northland. I. The sheep farmer's viewpoint. *New Zeal. Grassland Ass. Proc.* 29(7):47-54. 1967. 60.19 N48
- 92875 MORAG, M., and FOX, S. The effect of equal and unequal intervals in twice-daily milking on the milk yield of ewes. *J. Dairy Res.* 34(2):163-167. Ref. June 1967. 44.8 J823
- 92876 OREGON. AGRICULTURAL EXPERIMENT STATION. Summary of reports; 1968 Sheep and Wool Day. *Oreg. Agr. Exp. Sta. Spec. Rep.* 255, 12 p. May 1968. 100 Or3M  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 92877 PLAN, P. Raising sheep in the Basses-Alpes. (Fr) *Potasse* 42(352):31-36. Feb. 1968. 57.8 P84
- 92878 RYDER, M. L. The wool growth cycle. *Great Brit. Agr. Res. Counc. Anim. Breeding Res. Organ. Rep.* Jan. 1968:11-16. 49.9 G7926
- 92879 SATTARI, M. The sheep in the economy of Iran. (Fr) *Mouton* 23(3):31-32. Mar. 1968. 45.8 M86
- 92880 SCHLEICH, C. A combination of snea and paddock sheep keeping. (Ge) *Mitt. Deut. Landwirt.-Ges.* 83(15):525-528. Apr. 11, 1968. 18 N39
- 92881 SELLWOOD, T. A. Intensive fat lamb production on Tolaga Bay flats. *New Zeal. J. Agr.* 114(1):14-17. Jan. 1967. 23 N48J  
Includes farm management.
- 92882 SEMANA IBERICA DEL GANADO OVINO. 2, SALAMANCA, 1966. Comunicaciones apresentadas por técnicos da Direcção-Geral dos Serviços Pecuários, na "II Semana iberica del ganado ovino" (Salamanca) [Communications presented by technicians of the Direction General of Livestock Services, at the "Second Iberian Week on Sheep"]. *Port. Dir. Geral Serv. Pecuários. Bol. Pecuário* 35(1), 120 p. 1967. 41.8 P83
- 92883 SLEE, J. Cold resistance in sheep. *Great Brit. Agr. Res. Counc. Anim. Breeding Res. Organ. Rep.* Jan. 1968:32-39. 49.9 G7926
- 92884 STEENBEEK, D. Washing sheep with contract labor. (Du) *Neth. Prov. Dir. Rijkslandbouw-voorlichting Friesland. Voorlichting Onderz. Grasland Veehouderij* 1965:124-125. 1966. SF15.N4A3



- 92885 STEINHAUSER, H., RADES, H., and HOELK, C. H. Is paddock sheep keeping still economically feasible? (Ge) Mitt. Deut. Landwirt.-Ges. 83(15):512-516. Apr. 11, 1968. 18 N39
- 92886 STEPANKOVA, E., and others. Complex evaluation of the production of goats. II. The production of fats in the milk. (Cz) Brno. Vysoka Sk. Zemedel. Sb. Rada A. Spisy Fak. Agron. 3:441-451. Ref. 1966. 105.92 B833  
F. Horak, V. Simunek, and J. Budinsky, joint authors.  
French and German summaries.
- 92887 STOYANOV, A. Determining the air temperature and humidity in the various types of pens and their effect on the development and production of sheep. (Bu) Zhivotnovudni Nauk. 4(3): 73-84. 1967. Ref. 49 Z65  
English summary.
- 92888 TEXAS. AGRICULTURAL EXPERIMENT STATION. Sheep and Angora goat, wool and mohair; research reports. Tex. Agr. Exp. Sta. Consolidated Progr. Rep. PR-2512-2528, 32 p. Feb. 1968. 100 T31P
- 92889 THORMAEHLEN, J. H. C. Sheep keeping on the West-coast. (Ge) Mitt. Deut. Landwirt.-Ges. 83(15):530-532. Apr. 11, 1968. 18 N39
- 92890 WERNER, K. Management ideas on organization of sheep rearing. (Ge) Tierzucht 21(6): 314-318. June 1967. 49 T443
- 92891 WODZICKA-TOMASZEWSKA, M. Rapid fleece-sampling technique. New Zeal. J. Agr. 114(4): 49. Apr. 1967. 23 N48J
- SWINE**
- Breeds and Breeding
- 92892 ALCASID, A. Swine breeding. Philippine Farms Gard. 4(5):24-25, 30. May 1967. 25 P5323
- 92893 ALMGARDEN, N. Of importance for breeders of baby pigs and hogs. (Sw) Västmanlands Lans Hushallningssallsk. Tidskr. 1:21-23. 1967. 11 V44T  
Swine grading in Sweden.
- 92894 BANJAC, J., and BANJAC, D., and SVIBEN, M. The duration of the first interfarrowing periods at an early weaning of swine and its possible effect on the index of litter production. (Se) Stocarstvo 22(1/2):33-40. Ref. Jan./Feb. 1968. 43.8 St6  
English summary.
- 92895 BELIC, J., OGNJANOVIC, A., and GAJIC, Z. The acclimatization of Yorkshire swine breed to conditions of Northern Banat. (Se) Arh. Poljoprivredne Nauk. 20(69):79-96. Ref. 1967. 21.5 Y9  
English summary.
- 92896 BISHOP, G. R. H. Mainly about Lacombe. Great Brit. Agr. Res. Counc. Anim. Breeding Res. Organ. Rep., Jan. 1968:24-31. 49.9 G7926  
Swine breed.
- 92897 BRUCKS, R., and DINKLAGE, H. The significance of the various blood group systems in determining pregnancy of German Improved Landrace and German white pig. (Ge) Tierzucht 19(23):797-798, 800. Dec. 5, 1967. 49 T445
- 92898 COX, D. F. Birth weight in pigs descended from irradiated spermatogonia. Mutation Res. 4(6):865-869. Nov./Dec. 1967. 443.8 M98
- 92899 DANNENBERG, H. D., and LETZ, W. Fertility disturbances of boar. (Ge) Tierzucht 21(6): 310-313. June 1967. 49 T443
- 92900 EINARSSON, S. Development and coverage of artificial insemination of swine in Sweden. (Sw) Svinskotsei 57:329-333. Oct. 1967. 46.9 Sv2
- 92901 ENGLISCH, H. G. Studies on the Veredeltes Landschwein and Deutsches Edelschwein breeds as to the effectiveness of selection in pig breeding, based on the results obtained with regard to breeding, fattening, and slaughtering characteristics by the Animal Husbandry Inspectorate of Potsdam in efficiency tests, between 1946 and 1964. (Ge) Arch. Tierzucht 10(6):413-433. 1967. 49 Ar23  
English summary.
- 92902 FEWSON, D. Fattening research centers assisting in the selection of breeding boars. (Ge) Tierzucht 20(1):3-5. Jan. 5, 1968. 49 T445  
In Germany.
- 92903 FROLICH, A. Pork from boar does not give sex-odor. (Sw) Lantmannen 78(25):18-19. Dec. 9, 1967. 11 L234
- 92904 GAMCIK, P., and DUBOVSKY, J. Testimetry performed on boars for service. (Cz) Folia Vet. 10(2):225-242. Ref. 1966. 41.8 F712  
English summary.
- 92905 GROVE, D., BOLLWAHN, W., and MAHLER, R. Experiments on collection and deep freeze preservation of semen from the epididymis of boars. (Ge) Deut. Tierarztl. Wochenschr. 75(2):35-38. Ref. Jan. 1968. 41.8 D482  
English summary.  
Semen was obtained by using directly applied electrodes.
- 92906 JONSSON, P. Analyse af egenskaber hos svin af Dansk Landrace med en historisk indledning. Analysis of characters in the Danish Landrace pig with a historical introduction. Denmark. Statens Husdyrbrugsudvalg. Landonkon. Forsogslab. Beretn. 350, 490 p. 1966. 104 D41
- 92907 KABOZOV, S. M., and ANTONOV, A. A. Feed additives as source for full nutritive value of siring boars. (Rus) Vses. Nauch.-Issled. Inst. Zhivotn. Tr. 30:185-189. 1967. 49.9 R92
- 92908 KOZLOVSKII, V. G., and SMIRNOV, N. P. Linebreeding and inbreeding of swine. (Rus) Genetika 10:128-141. Ref. Oct. 1967. QH431.A1G4  
English summary.
- 92909 LORANT, B., and HAGONY, L. P. Comparative chemical, differential thermoanalytical and gas chromatographic investigation of tallow and swine fats of various origins. (Ge) Seifen-Ole-Fette-Wachse 93(20):745-749. Sept. 27, 1967. 307.8 Se4  
English summary.  
Obtained from various swine breeds and different parts of the animal.
- 92910 LOZANSKI, B. The selection of boars for breeding. (Se) Sovremeno Zemjod. 14(4):16. Apr. 1967. S13.S6
- 92911 MATTHIS, D. B. A decade of pig progeny testing in the Republic of South Africa. S. Afr. Soc. Anim. Prod. Proc. 5:163-165. 1966. 49.9 So822  
Boars of Landrace and Large White breeds.
- 92912 NIKOLIC, D., MILOJIC, M., and LAZAREVIC, L. The reproductive capacity of Dutch Landrace swine breed under conditions of breeding in Yugoslavia. (Se) Arh. Poljoprivredne Nauk. 20(69):97-112. Ref. 1967. 21.5 Y9  
English summary.
- 92913 PLOTNIKOV, V. More attention to breeding. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 7: July 1967. 281.8 Se4  
Large White swine.
- 92914 RASMUSSEN, G. State of swine breeding 1967. (Da) Landbonyt 21(10):405-413. Oct. 1967. 11 L2322
- 92915 RUDAKOV, A. I., PAVLICHENKO, V. P., and DOROZHILOV, A. E. Hereditary changes in swine, as influenced by blood transfusion. (Rus) Zhivotnovodstvo 6:60-62. June 1967. 49 Z6  
Includes effects on meat production.
- 92916 SCHALBERT, J. Formation of back fat thickness and white meat volume in the progenies of Mangalitsa sows with varied fertility. (Hu) Debrecen. Agrartud. Foisk. Tud. Kozlemenyei 11:107-114. Ref. 1965, pub. 1966. 105.9 D35  
German summary.
- 92917 SEAKASVATAJA teatmik [Handbook for swine breeders]. Edited by L. Auriste. Tallinn, Valgus, 1966. 204 p. SF396.E75S4
- 92918 SMITH, H. J., and MCLAREN, J. B. Performance of breeds and breed crosses of swine. Tenn. Agr. Exp. Sta. Bull. 434, 27 p. Dec. 1967. 100 T25S
- 92919 TARASENKO, B., JOVANOVIC, V., and STOJANOVIC, Z. Proteins and lipoproteids of the blood serum of the Mangalitsa swine breed. (Se) Novi Sad. Poljopr. Fak. Letop. Naucnih Rad. 10:129-135. 1966. 106.6 N85  
English summary.



- 92920 VADA, G. Practical swine breeding today. (No) Buskap Avdratt 2:97-103. 1967. 49 B96
- 92921 VAGVOLGYI, O. Breeding of bacon swine in the Comitát Gyor-Sopron. (Hu) Magyar Mezo-gazdasag 22(13):18-19. Mar.29,1967. 19 M27
- 92922 WENDEL, J. Guide to pig selection; importance for pork quality. (Fr) PROVIMI (Proteines, Vitamines, Mineraux) Inform. 51:8-9. Nov.1967. 389.78 P942
- 92923 WRIGHT, D. Towards better pigs. Agr. Northern Ireland 42(9):302-304. Jan.1968. 256.13 Ag82M  
Aims of the revised Accredited Pig Herds Scheme.
- Feeds and Feeding
- 92924 ALMLOF, J. Advice to baby pig producers. (Sw) Lantbrukstidskr. Dalarna 80(5):152-159. 1967. 11 L29  
Feeding.
- 92925 BLENDL, H. M. The influence of various feed with grain and root crops on the fattening performance and the carcass quality of the swine. (Ge) Bayer. Landwirt. Jahrbuch 44(5):549-557. Ref. 1967. 18 L24
- 92926 BRAUDE, R., and ROWELL, J. G. Comparison of dry and wet feeding of growing pigs. J. Agr. Sci. [London] 68(3):325-330. Ref. June 1967. 10 J822
- 92927 BURNELL, R. E. Pig farmers must have permit to collect garbage. New Zeal. J. Agr. 114 (5):24-25,27. May 1967. 23 N48J  
For feed.
- 92928 CAREY, A. D. Essential nutrients of pig feeds. Meggitt Feed Leadership 11:5. Feb./Apr.1967. SF95.A1M4
- 92929 CHARLET-LERY, G. Importance to post-prandial expenditures according to type of ration in the pig and influence of this last on the basal metabolism. (Fr) Int. Congr. Nutr. Proc., 7th Congr., v.5:23-30. Ref. 1966, pub. 1967. TX345.I53 1966
- 92930 CHENG, W. H. An experiment on the enzymes of *Aspergillus oryzae*, antibiotics and trace minerals as supplement for growing pigs. (Ch) J. Agr. Forest. 15:289-296. Oct.1966. 22.5 J823  
English summary.
- 92931 COCKERILL, V. L. Nutrition and health. Hog Farm Manage. 5(4):12-13,29. Apr.1968. SF391.H6  
Chiefly nutrition of sow during gestation and lactation.
- 92932 CZAJKOWSKI, Z., DZIEMBOWSKA, T., and GORSKI, S. Influence of feed meal additives on blood serum protein. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:303-305. 1966, pub. 1967. 20.5 St4  
German summary.  
Of swine.
- 92933 DAMMERS, J., and HAMM, G. The addition of nicotine to rations for fattening swine. (Du) Landbouwkundig Tijdschr. 79(8):256-258. Aug. 1967. 105.2 Or3  
English summary.
- 92934 DEAN, B., and THOMPSON, W. C. Pastures for hogs. Ky. Univ. Ext. Leaf. 312,6 p.-folder. Jan.1968. 275.29 K415Le
- 92935 DELORT-LAVAL, J. Cooking and quality of soybean cake. (Fr) Int. Congr. Nutr. Proc., 7th Congr., v.5:261-267. Ref. 1966, pub. 1967. TX345.I53 1966  
Tested on swine.
- 92936 DELORT-LAVAL, J., CHARLET-LERY, G., and ZELTER, S. Z. Method of estimating the nutritional effectiveness of proteins in the growing hog. (Fr) Int. Congr. Nutr. Proc., 7th Congr., v.4:350-356. Ref. 1966, pub. 1967. TX345.I53 1966
- 92937 DIMOV, YA., and ZHIVKOVA, I. Investigations into the fattening capacity and slaughter properties of 3/4 Bulgarian White and 1/4 Landrace pig crosses. (Bu) Zhivotnovudni Nauk. 4(3):27-35. Ref. 1967. 49 Z65  
English summary.  
In Bulgaria.
- 92938 ENGLISCH, H. G. Feed uptake of piglet from pelleted and grist form feed. (Ge) Tierzucht 21(6):306-308. June 1967. 49 T443
- 92939 FEASTER, J. P., NEAL, F. C., and WALLACE, H. D. Influence of dietary fat on absorption and deposition of <sup>14</sup>C-labeled palmitic acid in swine. Int. Congr. Nutr. Proc., 7th Congr., v.5: 347-350. 1966, pub. 1967. TX345.I53 1966
- 92940 FLANZY, J., and FRANCOIS, A. C. Digestion of fatty acids in the swine. (Fr) Int. Congr. Nutr. Proc., 7th Congr., v.1:134-136. 1966, pub. 1967. TX345.I53 1966
- 92941 GUENTHER, W., and SEYFARTH, D. Swine pastures. (Ge) Tierzucht 22(2):77-80. Feb. 1968. 49 T443  
Germany (East).
- 92942 HAYS, V. W. Effect of dietary fat, protein and cholesterol in atherosclerosis in swine. Int. Congr. Nutr. Proc., 7th Congr., v.5:472. 1966, pub. 1967. TX345.I53 1966
- 92943 HOMB, T. Assessing protein and amino-acid requirements in growing pigs. Int. Congr. Nutr. Proc., 7th Congr., v.4:344-350. Ref. 1966, pub. 1967. TX345.I53 1966
- 92944 ISHIKAWA, S., and others. Utilization of castor pomace for swine feed. (Ja) Mie Univ. Fac. Agr. Bull. 35:77-82. Ref. Mar.1967. 107.6 T78  
R. Toyota, M. Okamoto, and K. Murase, joint authors.  
English summary.
- 92945 JACOBSEN, K. A. Earlier weaning for piglets. (Da) Landbonyt 22(2):58-60. Feb.1968. 11 L2322
- 92946 JACOBSEN, K. A. Iron for the nursing pig. (Da) Landbonyt 22(1):38-40. Jan.1968. 11 L2322
- 92947 JACQUOT, R., RAULIN, J., and THORON, A. Physiopathological effects of unusual fat components; study of rapeseed oil. (Fr) Rev. Franc. Corps Gras 14(7):441-443. July 1967. 307.8 R32  
English summary, p.433.  
Studies with swine and rats.
- 92948 JONGEBREUR, A. A. Feeding of fattening swine once daily. (Du) Veeteelt Zuivelber. 10 (7):330-334. July 1967. 49 V51
- 92949 KOVALEV, A. V. The comparative efficiency of the growing and fattening of hogs with the use of hydroponic feeds and grass meal. (Rus) Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina Dokl. 5:29-31. May 1967. 20 Ak1
- 92950 KUDYNOVA, A. F. Digestibility of nutrients in rations with different content of corn. (Uk) Visn. Sil's'kohospod. Nauk. 1:98-102. Jan. 1967. 20 V82  
English summary.  
Fed to swine.
- 92951 LAWRENCE, T. L. J. High level cereal diets for the growing/finishing pig. II. The effect of cereal preparation on the performance of pigs fed diets containing high levels of maize, sorghum and barley. J. Agr. Sci. [London] 69(2): 271-281. Ref. Oct.1967. 10 J822
- 92952 LENHARD, H. Der einfluss der aureomycin- und bacitracin-beifutterung auf die tagliche gewichtszunahme und futterverwertung der mastschweine unter besonderer berucksichtigung des stallklimas [The effect of aureomycin and bacitracin supplemental feeding on daily weight increment and feed utilization of fattening swine with special emphasis on stall climate]. Munich. Univ. Tierarztl. Fak. [Inaug.-Diss.] 27,64 p. 1966. 41.2 M9222  
Bibliography, p.55-64.
- 92953 LISHMAN, A. W. Utilisation of dried cane juice (Pagura) by the pig. S. Afr. Soc. Anim. Prod. Proc. 5:116-118. 1966. 49.9 So822  
Effects on carcass characteristics.
- 92954 LOEN, A. VAN., PAUZENGA, U., and JENNES-KENS, P. J. Amino acids in animal nutrition. - II. Observations to amino-acid recommendations in pig nutrition. Tijdschr. Diergeneesk. 92(12):776-794. Ref. June 15,1967. 41.8 T431
- 92955 LUCAS, I. A. M. The nutrition of young pigs. World Rev. Anim. Prod. 3(14):80-83. Ref. Julv/Sent.1967. 49 W89



- 92956 MAKHAEV, E. A. Fattening of swine by the use of sugar beets, leguminous plants, and other albuminous feeds. (Rus) Vses. Nauch.-Issled. Inst. Zhivotn. Tr. 30:53-61. 1967. 49.9 R92
- 92957 MILLER, E. R., ULLREY, D. E., and LUECKE, R. W. Relationships of growth, food intake and serum and bone measures in the baby pig. Int. Congr. Nutr. Proc., 7th Congr., v.1:310-315. Ref. 1966, pub. 1967. TX345.I53 1966
- 92958 NOLAND, P. R., BAUGUS, C. A., and OFFUTT, M. S. Alfalfa pasture for gestating sows. Ark. Farm Res. 17(2):14. Mar./Apr. 1968. 100 Ar42F
- 92959 OBRADOVIC, M., ANASTASJEVIC, V., and VELICKOVIC, G. A contribution to the economizing of proteins and realization of the substitution of animal proteins with the vegetable ones in the fattening of white swine. (Se) Stocarstvo 22(1/2):47-59. Ref. Jan./Feb. 1968. 43.8 St6  
English summary.
- 92960 PERRY, T. W., and PICKETT, R. A. Nutritional factors affecting esophagogastric ulcers in swine. Int. Congr. Nutr. Proc., 7th Congr., v.5: 820-822. 1966, pub. 1967. TX345.I53 1966
- 92961 PETKOV, T., and PESHKOV, I. Study of the effect of mixed feed granule size in the fattening of pigs and observation of some of the changes taking place in stored feed. (Bu) Zhivotnovudni Nauk. 4(3):47-55. Ref. 1967. 49 Z65  
English summary.
- 92962 ROST, D., and SCHMUNTZSCH, S. Optimum performance depending on feed rations for baby pigs. (Ge) Tierzucht 22(2):83-86. Feb. 1968. 49 T443  
Germany (East).
- 92963 SEERLEY, R. W., and WAHLSTROM, R. C. Dehydrated alfalfa meal in rations for pigs and brood sows in confinement. S. Dak. Agr. Exp. Sta. Tech. Bull. 32,22 p. Ref. June 1968. 100 So82
- 92964 SHACKLADY, C. A. Protein from petrol. Pig Farming 16(2):28-31. Feb. 1968. 46.8 P623  
Swine feed in England.
- 92965 STREUTER, A. Shorter feeding time with potato mast—but how? (Ge) Kartoffelbau 18(1):18-19. Jan. 1967. 75.8 K145  
Swine.
- 92966 TOMME, M. F., and SKORKIN, G. K. Effectiveness of peas in feeding of sows. (Rus) Vses. Nauch.-Issled. Inst. Zhivotn. Tr. 30:82-90. 1967. 49.9 R92
- 92967 TOMME, M. F., and KROKHINA, V. A. The need of lysine for growing fattened swine from leguminous plant feedings. (Rus) Vses. Nauch.-Issled. Inst. Zhivotn. Tr. 30:62-70. 1967. 49.9 R92
- 92968 TOMME, M. F., and KROKHINA, V. A. Protein-mineral-vitamin additives to feed of fattened swine. (Rus) Vses. Nauch.-Issled. Inst. Zhivotn. Tr. 30:100-107. 1967. 49.9 R92
- 92969 VANGELOV, K. Study of effectiveness of petroleum growth substance added to feed of suckling pigs. (Bu) Zhivotnovudstvo 21(1):29-31. Ref. Jan. 1967. 49 Z62
- 92970 VODOVAR, N., and FLANZY, J. Cytological study of the intestinal wall in the course of fat digestion in the swine. (Fr) Int. Congr. Nutr. Proc., 7th Congr., v.1:135-141. 1966, pub. 1967. TX345.I53 1966
- 92971 WAL, P. VAN DER. Het effect van 10 dpm penicilline-streptomycine op de mestresultaten bij varkens van 20-90 kg [The effect of 10 ppm of penicillin-streptomycin on feeding results of swine of 20-90 kg]. Wageningen. Landbouwhogeschool. Mededel. 66(12), 40 p. Ref. 1966. 105.2 W122  
English summary.
- 92972 WALKER, N., and FORBES, T. J. Feeding lactating sows. Agr. Northern Ireland 42(9): 299-301. Jan. 1968. 256.13 Ag82M
- 92973 ZIVKOVIC, S., and others. The effect of Galofak SP-125, chloramphenicol, copper, arsenic acid and nitrofurazone in the nutrition of fattened swine. (Se) Stocarstvo 22(1/2):61-67. Jan./Feb. 1968. 43.8 St6  
A. Adzic, D. Gradinar, S. Pejin, and B. Jovanovic, joint authors.  
English summary.
- Veterinary Medicine
- 92974 AKITA, M., and others. Experimental treatment of subclinical porcine cases of toxoplasma with sulfamonomethoxine and pyrimethamine and its influence upon hemagglutination antibody. (Ja) Jap. Vet. Med. Ass. J. 20(9):386-389. Sept. 1967. 41.9 J275  
T. Ito, J. Atsumi, T. Suzuki, K. Iwabori, Z. Suzuki, K. Usui, A. Kinoshita, and K. Ichikawa, joint authors.
- 92975 AKKERMANS, J. P. W. M., and BAARS, J. C. Prophylaxis of anemia in pigs. (Du) Tijdschr. Diergeneesk. 92(12):795-811. Ref. June 15, 1967. 41.8 T431  
English summary.
- 92976 ANDERSON, J. J. B., BAKER, L. D., and TWARDOCK, A. R. An inexpensive metabolic unit for pigs from birth to four weeks. Lab. Anim. Care 17(6):569-572. Dec. 1967. 410.9 P94
- 92977 ANDERSON, L. L. Pituitary-ovarian-uterine relationships in pigs. J. Reprod. Fert. Suppl. 1:21-32. Ref. 1966. 442.8 J8222 Suppl.  
Includes discussion.
- 92978 AUMAITRE, A. Study of the enzymatic deterioration of various starches by the pancreatic juice of the baby pig in the course of weaning. (Fr) Int. Congr. Nutr. Proc., 7th Congr., v.5: 100-103. 1966, pub. 1967. TX345.I53 1966
- 92979 AVERDUNK, G., and MATZKE, P. Weight development of piglets following Myofer "100" administration. (Ge) Blauen Hefte Tierarzt 35:7-10. Oct. 1967. 41.9 B61
- 92980 BAIES, A., and others. Epizootiological, anatomical-clinical and prophylactic studies of a focus of swine listeriosis. (Rum) Inst. Agron. Dr. Petru Groza, Lucrari Stiint. Ser. Med. Vet. Zootehnie 21:139-146. Ref. 1965, pub. 1966. SF604.I5  
M. Pop, D. Marica, and E. Onet, joint authors.  
English summary.
- 92981 BAISDEN, L. A., and TROMBA, F. G. Separation of swine kidney worm (Stephanurus dentatus) antigens by zone and by barrier electrophoresis. J. Parasitol. 53(1):100-104. Feb. 1967. 448.8 J824
- 92982 BARBARY, J. C. Boiling the swill. S. Australia J. Agr. 71(4):124-125. Nov. 1967. 23 So84  
Policy for swine disease prevention.
- 92983 BARTKO, P., MIKLUSICAK, R., and KONRAD, V. Iron metabolism in swine. IX. Serum iron and cuprum levels and values of serum proteins in weanlings and crippled animals. (Cz) Folia Vet. 10(2):71-78. Ref. 1966. 41.8 F712  
English summary.
- 92984 BARTKO, P., and GDOVIN, T. Iron metabolism in swine. X. Prevention and therapy of anaemia in piglets by ferridextran and vitamin preparations. (Cz) Folia Vet. 10(2): 63-70. Ref. 1966. 41.8 F712  
English summary.
- 92985 BELOKON, I. K. Vitamin A content of the colostrum and milk of mother pigs afflicted with atrophic rhinitis. (Rus) Veterinariya (Kiev) 12:45-47. 1967. SF604.V44
- 92986 BEST, P. Pigs in plastic bags. Pig Farming 16(3):20-21, 25, 27. Mar. 1968. 46.8 P623  
Germ-free pigs for gnotobiotic research.
- 92987 BEST, P. Tracking down disease. Pig Farming 16(2):48-49. Feb. 1968. 46.8 P623  
Swine disease control in Northern Ireland.
- 92988 BOGDAN, J. Morphology of the challenge in some organs of swine immunized and re-immunized against the hog cholera with the crystal violet vaccine. (Cz) Czech. Min. Zemedel. Lesniho Hospodar. Ustav Vedeckotech. Inform. Vet. Med. 40(10):565-572. Ref. Oct. 1967. 41.9 C333  
English summary.
- 92989 BODIN, and others. The piglet and its adjustment. (Fr) PROVIMI (Proteines, Mineraux) Inform. 51:4-5. Nov. 1967. 389.78 P942  
Laffolay, Sibelle, and Toucas, joint authors.  
Diseases and feeding.



- 92990 BONE, J. F., and others. Swine toxicosis associated with fumigated grain. *Amer. Vet. Med. Ass. J.* 150(9):1022-1026. May 1, 1967. 41.8 Am3  
D. H. Smith, D. C. England, and R. L. Goulding, joint authors.  
The fumigant consisted of: ethylene dibromide, ethylene dichloride, and carbon tetrachloride.
- 92991 BRACO FORTE JUNIOR, M. DA C. Atherosclerosis in domestic swine. (Por) *Lisbon. Escol. Super. Med. Vet. An.* 8:165,167-195. 1966, pub. 1967. 41.9 L682  
English summary.
- 92992 BREESE, S. S., and DEBOER, C. J. Chemical structure of African swine fever virus investigated by electron microscopy. *J. Gen. Virol.* 1(2):251-252. Apr. 1967. QR360.A1J6
- 92993 CARNERO, R., and others. African swine fever. 9 p. *Transl.* 16876  
B. Larenaudie, F. R. Gonzalvo, and J. Haag, joint authors.  
Translation from *Recueil de Medecine Veterinaire* 163(1):49-59. Jan. 1967.
- 92994 COOK, B., and others. The influence of some steroids, including estrogens, on progesterone synthesis *in vitro* by porcine corpora lutea. *Steroids* 11(3):321-236. Ref. Mar. 1968. 381 St4  
G. D. Niswender, N. S. Sutterlin, H. W. Norton, and A. V. Nalbandov, joint authors.
- 92995 DITCHFIELD, J., and others. A viral gastroenteritis of Ontario swine. I. Clinical illness and recovery of the virus. *Can. J. Comp. Med. Vet. Sci.* 31(8):193-196. Aug. 1967. 41.8 C162  
H. G. Pearce, R. D. Jolly, and R. A. Curtis, joint authors.
- 92996 DOBSON, K. J. Congenital splayleg of piglets. *Australian Vet. J.* 44(1):26-28. Ref. Jan. 1968. 41.8 AU72
- 92997 DOBSON, K. J. Failure of selenium and vitamin E to prevent gastric ulceration in pigs. *Australian Vet. J.* 43(6):219. June 1967. 41.8 AU72
- 92998 DOHERTY, P. C., and BAYNES, I. D. The effect of feeding oxytetracycline on leptospiruria in pigs infected with *Leptospira pomona*. *Australian Vet. J.* 43(4):135-137. Ref. Apr. 1967. 41.8 AU72
- 92999 DOUTRE, M. P. First observation of beta C botulism in swine in Senegal. (Fr) *Rev. Elevage Med. Vet. Pays Trop. (n.s.)* 20(2):351-353. 1967. 41.8 R3262  
English summary.  
Caused by *Clostridium botulinum*.
- 93000 DVORAK, M. The serum cholesterol level in piglets in relation to age and to the adrenocortical activity. (Cz) *Czech. Min. Zemedel. Lesniho Hospodar. Ustav Vedeckotech. Inform. Vet. Med.* 40(2):61-67. Ref. Feb. 1967. 41.9 C333  
English summary.
- 93001 ERICKSON, B. H. Radioresponse of the prepubertal porcine ovary. *Int. J. Radiat. Biol.* 13(1):57-67. Ref. 1967. 444.8 In8
- 93002 FORNONI, Q., and BENAZZI, P. Practical observations on the infection of the African swine fever. (It) *Selezione Vet.* 8(6/7):335-342. June/July 1967. 241.71 B75
- 93003 FRESE, K., and SANDERSLEBEN, J. VON. The occurrence of cerebrospinal angiopathy (Harding) of pigs in Germany and its classification as an independent disease. (Ge) *Berliner Munchener Tierarztl. Wochenschr.* 81(10):197-203. Ref. May 15, 1968. 41.8 B45  
English summary.
- 93004 GABRIS, J. Relation between blood picture of sows and sucklings, and weight and weight-gains of sucklings. (Cz) *Folia Vet.* 10(2):15-24. Ref. 1966. 41.8 F712  
English summary.
- 93005 GDOVIN, T., and others. Growth stimulation in swine by tissue preparations according to Filatov. (Cz) *Folia Vet.* 10(2):35-41. Ref. 1966. 41.8 F712  
P. Bartko, A. Michna, R. Miklusicak, and J. Sokol, joint authors.  
English summary.
- 93006 GUNTHER, H. Experimentelle Untersuchungen über das Vorkommen von Rotlaufregern in Organen von Schweinen nach aktiver Immunisierung mit dem Lebendimpfstoff H7 [Experimental studies on the occurrences of swine erysipelas agents in the organs of swine following active immunization with the live vaccine H7]. *Munich. Univ. Tierarztl. Fak. [Inaug.-Diss.]* 33,37 p. 1967. 41.2 M9222  
English summary.  
Bibliography, p.28-37.
- 93007 GUPALENKO, A. M. Tests with the control of swine brucellosis. (Rus) *Veterinariya [Kiev]* 12:57-60. 1967. SF604.V44
- 93008 HAJOVSKY, T., and GAMCIK, P. Occurrence of embryonal mortality and relation of bacterial microflora to prenatal losses in pigs. (Cz) *Folia Vet.* 10(2):205-214. 1966. 41.8 F712  
English summary.
- 93009 HARADA, Y., and others. A survey on swine toxoplasmosis. (Ja) *Jap. Vet. Med. Ass. J.* 20(8):335-337,361. Aug. 1967. 41.9 J275  
I. Kawakubo, N. Yamada, T. Okeguchi, N. Yokoyama, and T. Koyeda, joint authors.
- 93010 HAYNES, N. B., and LAMMING, G. E. The carbohydrate content of sow uterine flushings. *J. Reprod. Fertil.* 14(2):335-337. Ref. Oct. 1967. 442.8 J8222
- 93011 HIMENO, K., and others. Studies on the hemolytic disease of newborn pigs. II. Natural occurring isoimmunization of sows and hematological findings of pigs affected with hemolytic disease. (Ja) *Jap. J. Zootech. Sci.* 38(4):167-175. Ref. Apr. 1967. 49 N62  
R. Nagano, T. Mori, K. Mogi, and T. Hosoda, joint authors.  
English summary.
- 93012 HIRCHE, J. Behandlungsversuche mit Sulfachlorpyridazin und Dihydrostreptomycin in alternierender Reihe bei der puerperalen Septikämie und Toxämie der Sauen [Experiment in treatment of puerperal septicemia and toxemia of sows in alternating series with sulfachloropyradazine and dihydrostreptomycin]. *Hanover. Tierarztl. Hochsch. Inaug.-Diss.* 34,41 p. 1966. 41.2 H198  
Bibliography, p.29-40.
- 93013 HOLZBAUER, M., and NEWPORT, H. M. Evidence for the presence of 16 alpha-hydroxypregn-4-ene-3-,20-dione in adrenal venous blood of young pigs. *J. Physiol.* 191(3):691-697. Ref. Aug. 1967. 447.8 J82
- 93014 JACOBS, D. E. Gastro-intestinal helminthiasis of the adult pig in Denmark. I. A Post-mortem study. *Nord. Veterinaarmed.* 19(10):457-461. Ref. Oct. 1967. 41.8 N813
- 93015 JACOBS, D. E., and ANDREASSEN, J. Gastro-intestinal helminthiasis of the adult pig in Denmark. II. The geographical distribution of *Hyostromylus rubidus* and *Oesophagostomum spp.* *Nord. Veterinaarmed.* 19(10):462-465, map. Oct. 1967. 41.8 N813
- 93016 JAKSIC, B. L. Present possibilities in the prophylaxis in piglet and calf scour in mass rearing of these animals. (Ge) *Schweiz. Arch. Tierheilk.* 109(10):539-545. Ref. Oct. 1967. 41.8 Sch9  
English summary.  
Cosumix treatment of colibacillosis of piglets and colisepticemia of calves.
- 93017 JANAK, J. Ozdravenim chovu prasat k vyssi užitkovosti [By the sanitary raising of swine to its better utilization]. *Zajmova Aktual. Listovka MZLH* 5,22 p. 1966. S16.C95Z3  
Includes breeding and control of diseases.
- 93018 JULSRUD, O. Anemia in piglets. (No) *Buskap Avdratt* 2:106-107. 1967. 49 B96  
Iron deficiency anemia.
- 93019 KANG, B. J., and others. Studies on the application of LOM hog cholera vaccine to domestic swine in Korea. (Ko) *Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep.* 10(5):85-93. Ref. Sept. 1967. 22.5 K843  
H. J. Kwon, H. S. Lee, and D. K. Park, joint authors.  
English summary.

- 93020 KONNO, S., and others. Severity of pneumonic condition of swine enzootic pneumonia (SEP) in herds based on pathological and bacteriological investigation. Tokyo. Nat. Inst. Anim. Health Quart. 7(4):187-201. Ref. Winter 1967. 41.9 T575Q  
H. Fujiwara, A. Okaniwa, S. Namioka, M. Murata, and S. Hayashi, joint authors.
- 93021 KONONS'KYYI, O. I. Cytochemistry of swine gasserian ganglion during infectious atrophic rhinitis. (Uk) Visn. Sil's'kohospod. Nauk. 4: 102-105. Apr. 1966. 20 V82  
Russian summary.
- 93022 KRETININ, V. K. Dynamics of protein and protein fractions in blood serum of swine, infected with African and classical swine fever. (Rus) Vses. Akad. Sel'skokhoz. Nauk V. I. Leningrad. Dokl. 6:34-35. June 1967. 20 Akl
- 93023 KUYUMGIEV, I., and SPASOVA, N. Electromicroscopic and taxonomic characterization of a Spirochete parasitizing the praeputal diverticulum of swine. Zentralbl. Veterinarmed. Reihe B, 14(4):356-358. June 1967. 41.8 Z52
- 93024 LEHNHARDT, F. J. Über eine Methode zur untersuchung des Thymus bei ferkelkrankheiten [Method for thymus study in piglet diseases]. Hanover. Tierarztl. Hochschule. Inaug.-Diss. 39,56 p. 1966. 41.2 H198  
Bibliography, p.40-49.
- 93025 LIBKE, K. G. Gross and histopathologic lesions in a field case of fatal hemorrhagic shock following orchectomy in young pigs. Vet. Med./Small Anim. Clin. 62(6):551-554. June 1967. 41.8 M69
- 93026 LOMBARD, C. Frequency and distribution of porcine leukemia in France. (Fr) Acad. Sci. C. R., Ser. D, 264(24):2858-2860, map. June 12, 1967. 505 P21
- 93027 LUDVIGSEN, J. B. Contamination of drinking water as a cause of disease in pigs. (Da) Landbonyt 22(2):43-46,56. Feb. 1968. 11 L2322
- 93028 MALYGIN, S. A., and LAVROVA, E. B. Opyt bor'by s finnozami svinei i krupnogo rogatogo skota i tenidozami lyudei [Experience with control of swine and cattle hydatidosis and tapeworms in man]. Moskva, Rossel'khozizdat, 1966. 30 p. SF810.C5M3
- 93029 MARECKI, J., and MIARKA, W. Influence of iron-dextran on the course of anemia and weight increase of baby pigs. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:299-301. 1966, pub. 1967. 20.5 St4  
German summary.
- 93030 MARRABLE, A. W., and ASHDOWN, R. R. Quantitative observations on pig embryos of known ages. J. Agr. Sci. [London] 69(3):443-447. Ref. Dec. 1967. 10 J822  
Growth.
- 93031 MELYUKOV, A. N., and USTINOV, D. A. Comparative action of integral and filtered irradiation lamp PRK-2 on the physiological state and gains in weight of fattened pigs. (Rus) Vses. Nauch.-Issled. Inst. Zhivotn. Tr. 30:270-276. Ref. 1967. 49.9 R92  
Ultraviolet radiation.
- 93032 MELYUKOV, A. N. A study of effects from various phases of ultraviolet radiation on suckling sows and baby pigs. (Rus) Vses. Nauch.-Issled. Inst. Zhivotn. Tr. 30:255-262. Ref. 1967. 49.9 R92
- 93033 MENDES, A. M. Contribution to the study of African swine fever. (Por) Lisbon. Escol. Super. Med. Vet. An. 8:199,201-216. 1966, pub. 1967. 41.9 L682  
English summary.
- 93034 MENDES, M. DE F. M., and others. Treatment of intestinal nematodiasis of swine with dichlorvos in feed rations as compared to the treatment with dihydrochloride of piperazine administered in drinking water. (Por) Sao Paulo. Inst. Biol. Arq. 34(1):17-27. Ref. Jan./Mar. 1967. 442.9 Sa6  
U. F. Rocha, C. A. da Rocha, R. G. Serra, M. S. de Campos and A. F. Ribeiro, joint authors.  
English summary.
- 93035 MEYER, H., and DROMMER, W. Hereditary hypotrichosis in pigs. (Ge) Deut. Tierarztl. Wochenschr. 75(1):13-17. Ref. Jan. 1, 1968. 41.8 D482  
English summary.
- 93036 MORRISON, S. R., HINTZ, H. F., and GIVENS, R. L. Lack of response by growing-finishing pigs to germicidal ultraviolet radiation. J. Agr. Sci. [London] 69(1):131-132. Aug. 1967. 10 J822
- 93037 MOSKOV, M., and others. Embryometrics applied to the domestic pig (Sus scrofa domestica). (Ge) Arch. Tierzucht 10(6):487-500. Ref. 1967. 49 Ar23  
P. Boev, H. Krastev, D. Bachnev, K. Kowatschev, L. Bonewa, D. Piperkova, joint authors.  
English summary.
- 93038 MUYLLE, E., HENDE, C. VAN DEN, and OYAERT, W. Metabolism of lactic acid in pigs. (Ge) Deut. Tierarztl. Wochenschr. 75(2):29-35. Ref. Jan. 1968. 41.8 D482  
English summary.
- 93039 NEGRUTIU, T. Strict prophylactic measures against the African swine plague. 4 p. (JPRS 42,429; TT 67-32878) Transl. 16778  
Translation from Scintea 7403:3. July 16, 1967.  
Issued by CFSTI.
- 93040 NIELSEN, A. J. Planning of respiration experiments with growing bacon pigs, statistical analysis of the results and control investigations derived therefrom. Acta Agr. Scand. 17(4):247-256. 1967. 11 Ac82  
In order to estimate the nutritive value of barley.
- 93041 NIKOLAENKO, N. I., BOLOTSKII, I. A., and BANISHEVSKI, A. I. Leptospirosis of swine. (Rus) Svinovodstvo 7:38. June 1967. 46.8 Sv33
- 93042 NIKOL'S'KYI, V. V., and others. On the structure of infectious gastroenteritis virus of swine (Uk) Mikrobiol. Zhur. 29(3):224-228. Ref. 1967. 448.3 K54  
Ya. H. Kishko, V. M. Romanenko, and I. P. Oleksiyenko, joint authors.  
English summary.
- 93043 NILSSON, G., POLGAR, M. V., and WASS, L. The properties of ripening grain as regards its content of free fatty acids, fungi and succinoxidase inhibitors. Acta Agr. Scand. 17(4):257-262. Ref. 1967. 11 Ac82  
Investigations on grain feed in causing muscular dystrophy in pigs in Sweden.
- 93044 NOMOTO, S. Diarrheal disease in piglets. (Ja) Jap. Vet. Med. Ass. J. 20(4):1-6. Ref. Apr. 1967. 41.9 J275
- 93045 NYMM, E. M. Hereditary resistance to infectious diseases. (Rus) Svinovodstvo 7:37. June 1967. 46.8 Sv33
- 93046 OLMSTEAD, E. G. Mammalian cell water; physiologic and clinical aspects. London, Kimpton, 1966. 200 p. Ref. QH631.04  
Includes salt poisoning in swine.
- 93047 OYAMA, S., and others. Investigation on severity of acute swine erysipelas of septicemic type. (Ja) Jap. Vet. Med. Ass. J. 20(8):345-349. Aug. 1967. 41.9 J275  
F. Ito, N. Sasaki, and Y. Sakuda, joint authors.
- 93048 PAGOTPOT, M. D., and GOROSPE, A. O. Heat resistance of *Cysticercus cellulosae* in pork. Researcher 3(2):104-108. Aug. 1967. 475 Sci237 Suppl.
- 93049 PALS, C. H. How swine brucellosis affects the present and potential export market for pork. Nat. Brucell. Comm. Proc., 1967:28-30. aSF809.B8N3
- 93050 PASHOV, T. V., KURBALA, M. YA., and SEREDA, D. I. Pathogens of atrophic rhinitis in swine. (Rus) Veterinariya [Kiev] 12:48-50. 1967. SF604.V44
- 93051 PENEYRA, R. Diarrhea of baby pigs. Philippine Farms Gard. 4(5):12-13. May 1967. 25 P5323
- 93052 PENEYRA, R. Disease problems of the pregnant sow. Philippine Farms Gard. 4(5):14-15. May 1967. 25 P5323  
Abortion, dystocia and stillbirth.



- 93053 PENNY, R. H. C. Management of pigs and control of disease under intensive husbandry systems. *Australian Vet. J.* 43(6):197-202. Ref. June 1967. 41.8 Au72
- 93054 PILET, C., and TOMA, B. Experiments of immunization against the classic swine pest with the application of the principle of interferential vaccines. (Fr) *Acad. Vet. France. Bull.* 40(4):195-202. Apr. 1967. 41.9 R24
- 93055 PLEVA, J. Comparative study of gel's tests in the diagnosis of hog cholera by Oudin's and Ouchterlony's method. (Cz) *Folia Vet.* 10(1):103-108. Ref. 1966. 41.2 F712  
English summary.
- 93056 POULSEN, K. Interview on swine diseases based on feeding. (Da) *Danske Dyrlegefor. Medlemsbl.* 50(12):497-501. June 15, 1967. 41.9 D23  
Interviewed by A. B. C. Dahlgren.  
Diarrhea.
- 93057 PROGRESS in swine practice, edited by J. F. Smithcours and E. J. Catcott. Wheaton, Illinois, American Veterinary Publications, 1966. 502 p. (Modern veterinary reference series, No. 3) SF971.P7  
Releases of Modern Veterinary Practice, containing 824 abstracts of literature for years 1960 to 1965.
- 93058 PUDLES, J., ROLA, F. H., and MATIDA, A. K. Studies on the proteolytic inhibitors from *Ascaris lumbricoides* var. suum. II. Arch. Biochem. Biophys. 120(3):594-601. Ref. June 1967. 381 Ar2
- 93059 RAVAIOLI, F., PALLIOLA, E., and IOPPOLO, A. African swine fever in wild boars. I. Possibility of experimental infection through inoculation. *Vet. Ital.* 18(9/10):508-513. Ref., p. 507. Sept./Oct. 1967. 41.8 C87  
Text also in Italian, p. 499-507.  
Transmission to domestic species.
- 93060 RHEE, Y. O. Serological characteristics of pleuro-pneumonia like organism isolated from piglets. (Ko) *Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep.* 10(5):79-84. Ref. Sept. 1967. 22.5 K843  
English summary.
- 93061 ROSZKOWSKI, J. Hemoglobin content and blood serum protein in baby pigs after a single iron-dextran injection. (Pol) *Stettin. Wyzsza Szkola Roln. Zeszyty Nauk.* 25:301-303. 1966, pub. 1967. 20.5 St4  
German summary.
- 93062 SCHILF, E. A. A progress report on swine brucellosis. *Nat. Brucell. Comm. Proc.*, 1967: 32-33. aSF809.B8N3
- 93063 SCHULKE, B., and RITSCH, E. Comments on the content of eosinophil granulocytes in the blood of piglets of different age. (Ge) *Monatsh. Veterinarmed.* 22(22):898-900. Ref. Nov. 15, 1967. 41.8 M742  
English summary.
- 93064 SEIDEL, H., and others. Investigations on swine, XXIII. The effect of long-lasting mineral-and-glucocorticosteroid application on the actions of fixed electrolytes, glucose and leucocytes in blood as well as on 17-ketosteroids in urine of clinically healthy and bilaterally adrenalectomized store pigs. (Ge) *Arch. Exp. Veterinarmed.* 21(2):395-436. Ref. May 1967. 41.8 Ex7  
- I. Muller, E. Kolb, and V. Pohle, joint authors.
- 93065 SELLEI, K., and FRAUCHIGER, E. Higher phosphatase concentration in the glandula pin-ealis of swine. (Ge) *Schweiz. Arch. Tierheilk.* 109(10):533-536. Oct. 1967. 41.8 Sch9  
English summary.
- 93066 SHIMABUKURO, T. Treatment of experimental cases of swine toxoplasmosis with sulfadimethoxine and pyrimethamine. (Ja) *Jap. Vet. Med. Ass. J.* 20(10):442-445. Oct. 1967. 41.9 J275
- 93067 SINHA, B. K. O. [Opisthorchis] neverca Braun, 1902 in the pancreas of domestic pig (*Sus S. domestica*) in Bihar. *Cur. Sci.* 37(1):22-23. Jan. 5, 1968. 475 Sci23
- 93068 SLIN'KO, V. G. The application of antibiotics and several chemotherapeutic preparations in swine leptospirosis. (Rus) *Veterinariya (Kiev)* 12:51-56. 1967. SF604.V44
- 93069 STARKEY, A. L. Illinois selects swine brucellosis as disease of the year project, a progress report. *Nat. Brucell. Comm. Proc.*, 1967:31. aSF809.B8N3
- 93070 TAKATORI, I., and others. The in vivo drug sensitivity of a causal agent of swine enzootic pneumonia (SEP). *Tokyo. Nat. Inst. Anim. Health Quart.* 7(4):179-186. Ref. Winter 1967. 41.9 T575Q  
T. Omori, H. Fujiwara, T. Fujikura, and S. Namioka, joint authors.
- 93071 TAMMEMAGI, L., and SIMMONS, G. C. Battey-type mycobacterial infection of pigs. *Australian Vet. J.* 44(3):121. Mar. 1968. 41.8 Au72  
A form of tuberculosis.
- 93072 TANAKA, K. Effect of epsilon-aminocaproic acid (EACA) on pigs. (Ja) *J. Agr. Sci. (Setagaya)* 12(2):69-74. Ref. Mar. 1967. 22.5 J824  
English summary.
- 93073 TOLSTYAK, I. E., and others. Tests on pigs of crystal violet vaccine of foot-and-mouth virus incubated in rabbits and prepared by the technique of the Ukrainskii Nauchno-Issledovatel'skii Institut Eksperimental'noi Veterinari. (Rus) *Veterinariya (Kiev)* 12:3-8. Ref. 1967. SF604.V44  
E. V. Andreev, V. I. Rotov, P. A. Konozenko, M. D. Bakumenko, A. A. Omelaenko, and N. P. Chechetkina, joint authors.
- 93074 TOMICKI, Z., and BOLLWAHN, W. The effect of Clopenthixol in pigs. (Ge) *Deut. Tierarztl. Wochenschr.* 75(2):38-40. Ref. Jan. 1968. 41.8 D482  
English summary.  
Sedative effect.
- 93075 ULLREY, D. E., MILLER, E. R., and BRENT, B. E. Swine serum electrolyte concentrations from birth to three months of age. *Int. Congr. Nutr. Proc.*, v. 5:776. 1966, pub. 1967. TX345.I53 1966
- 93076 VASIN, A., and ARKHANGEL'SKAYA, L. News in treatment of swine scours. (Rus) *Sel'skokhoz. Proizvodstvo Povolzh'ya* 9:33. Sept. 1967. 281.8 Se4
- 93077 WOLF, K. U. Das Verhalten des subfornikalen Organes und der Area postrema bei nicht-eitrigem Encephaliden des Schweines [The behavior of subfornical organ and area postrema in the non-purulent encephalitis of swine]. *Hanover. Tierarztl. Hochsch. Inaug.-Diss.* 12, 12 p. 1967. 41.2 H198
- 93078 ZEE, Y. C., TALENS, L., and HACKETT, A. J. Localization of a small ribonucleic acid virus within cytoplasmic cisternae. *J. Virol.* 1(6): 1271-1273. Dec. 1967. QR360.J6  
Vesicular exanthema of swine virus.
- 93079 ZENDULKA, M. Differences between changes in the liver of swine caused by experimental migration of larvae of *Ascaris lumbricoides* suum and *Toxocara canis*. (Cz) *Czech. Min. Zemedel. Lesniho Hospodar. Ustav Vedeckotech. Inform. Vet. Med.* 40(10):511-556. Ref. Oct. 1967. 41.9 C333  
English summary.

#### Miscellaneous

- 93080 BAKER, J. L. Growing pigs for profit and pleasure. *Fiji Farmer* 3(1):2-6. Mar. 1967. 25 F473
- 93081 BAXTER, W. N. Are you talking pig latin? *ACE (Amer. Ass. Agr. Coll. Editors)* 50(4):1-2. Jan./Feb. 1968. 238 Am33A  
Swine terminology.
- 93082 CUNHA, T. J. Observations on the swine industry in Europe of value to Florida producers. *Sunshine State Agr. Res. Rep. [Fla. Sta.]* 12(6): 6-9. Nov. 1967. 100 F66Su
- 93083 CURTO, G. M. Two dyes suitable for hog marking. (It) *Inform. Zootec.* 14(15/16):9. 15-31. Aug. 15, 31, 1967. 49 In3

- 93084 DAVIDS, R. C. True-blue American. Frontiers 32(2):4-7. Dec.1967. 410 F92  
History of swine industry.
- 93085 DENMARK. STATENS HUSDYRBRUGSUDVALG. FORSOGLSLABORATORIET. 54. beretning om sammenlignende forsog med svin fra statsanerkendte avlscentre [54th report on the comparative tests with swine from State approved breeding centers], 1964-65, by Hjalmar Claysen, R. Nortoft Thomsen and O. K. Pedersen. Denmark. Statens Hysdrybrugsudvalg Landokon. Forsogslab. Beretn. 354,148 p. 1966. 104 D41  
English summary.
- 93086 ISAEV, G. Danish experience in swine raising. (Bu) Zhivotnovodstvo 21(4):45-47. Apr.1967. 49 Z62
- 93087 KOVACS, F. The role of environment factors in [swine] fattening management. (Ge) Berlin. Humboldt-Univ. Wiss. Z. Math. Naturwiss. Reihe 15(6):924-927. 1966. 509 B453  
Hungary.
- 93088 LOFVENBERG, S. The 1-A classification for swine. (Sw) Hallands Lans Hushallningssallsk. Tidskr. 10(6):14-16. Dec.1967. 11 H152
- 93089 MATHARU, B. S. Pig rearing is a profitable occupation. Indian Farming 17(12):35-36,44. Mar.1968. 22 In283  
Care and breeding.
- 93090 MINNAAR, G. F. Measurements on the cross-section of the eye muscle of the bacon carcass as indices of carcass composition. S. Afr. Soc. Anim. Prod. Proc. 5:119-121. 1966. 49.9 So822
- 93091 MITCHELL, E. Pig-keeping where pork's forbidden. Pig Farming 16(2):37. Feb.1968. 46.8 P623  
In Israel.
- 93092 MRAZ, A. Current state of raising baby pigs in big swine farms in Czechoslovakia. (Cz) Veterinarstvi 17(9):385-389. 1967. 41.8 V6439
- 93093 NAHLINDER, L. On a pigfarm in China. (Sw) Svinskotsel 57:343-344. Oct.1967. 46.9 Sv2
- 93094 NIKULENKO, V. V. Rearing early weaned baby pigs. (Rus) Zhivotnovodstvo 6:71-72. June 1967. 49 Z6
- 93095 OTTO, E. Meat and fat volume of young boars in varying weight classes. (Ge) Tierzucht 21(6):309-310. June 1967. 49 T443  
Carcass measurement with supersonic vibration.
- 93096 PETERSSON, I. The slaughter swine records. (Sw) Hallands Lans Hushallningssallsk. Tidskr. 2:16-17. Mar.1967. 11 H152
- 93097 PIWOWAR, J. Industrial method of swine raising and its returns. (Pol) Nowe Roln. 16(4):19-21. 1967. 20.5 N86  
On state farms.
- 93098 SCHREMMER, H., and DECKERT, R. Studies on behaviour and performance of nursing sows kept tied. (Ge) Arch. Tierzucht 10(5):399-409. Ref. 1967. 49 Ar23  
English summary.
- 93099 SIDOR, V., and PASKA, I. Contribution to the objective estimation and turning into money of slaughter pigs on the basis of subcutaneous fat formation. (Cz) Pol'nohospodarstvo 14(2):131-138. 1968. 19.5 P752  
English summary.
- 93100 THOMAS, W. B., and FIGURSKI, D. L. Pork production on a business basis. Kans. State Univ. Ext. C-388,19 p.,map. Feb.1968. 275.29 K13Ex
- 93101 THOMAS, W. B. Premiums and penalties in pork production. Kans. State Univ. Ext. Looking Ahead K-State Econ., Mar.12,1968,2 p. HD9284.U5K3  
Effects of litter size on costs and returns.
- 93102 WYARTT, P. Malta outing backyarders. Pig Farming 16(2):35,37. Feb.1968. 46.8 P623  
Swine industry on Malta.
- 93103 WYOMING, UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Swine project. Wyo. Univ. Ext. [4-H Club Circ.] SW-1-67,53 p. July 1967. 275.29 W99Fc



## ENGINEERING

References on bee-keeping equipment and malaria control equipment are classified with Entomology; references on forestry equipment with Forestry; references on industrial equipment with Agricultural Products; and references on irrigation equipment and drainage equipment with Soils.

## GENERAL AND MISCELLANEOUS

- 93104 ARFERT, G. Transportation—center of accidents in agriculture. (Ge) Deut. Agrartechn. 17(11):525-526. Nov. 1966. 58.8 D482
- 93105 BOROWSKI, P. The danger of fires in late fall. (Pol) Budownictwo Wiejskie 19(11):26-27. Nov. 1967. 296.8 B85
- 93106 BOROWSKI, P. Protecting granaries from fires. (Pol) Budownictwo Wiejskie 19(10):22-23. Oct. 1967. 296.8 B85
- 93107 BOYCE, D. S. The agricultural engineer. World Crops 19(1):69-72. Mar. 1967. 281.8 W892
- 93108 BRANDT, J. The first "Europe farm" in Lower Saxony. (Ge) Bauen Landwirt. 4(6):108-111. Nov./Dec. 1967. 296.8 B324
- 93109 CANDURA, G. Agricultural engineering in Italy and the work of Professor Carlo Santini. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.1:17-33. 1966, pub. 1967. S675.C6 1966
- 93110 CONVEGNO NAZIONALE DELL'ASSOCIAZIONE ITALIANA DI INGEGNERIA AGRARIA, 1, PORTICI, 1966. Il contributo del genio rurale all'ammmodernamento aziendale—atti [Contribution of agricultural engineering to farm modernization—proceedings (of the first national convention of the Italian Agricultural Engineering Association)]. Bari, Associazione Italiana di Ingegneria Agraria, 1967. 2 v. S675.C6 1966 English summaries.
- 93111 ČSELOTEI, L. The place of horticultural knowledge in education of agricultural engineers. (Hu) Magyar Mezogazdasag 22(13):6-7. Mar. 29, 1967. 19 M27
- 93112 DE ANGELIS, C. A modern designing technique for irrigation and land lay-out. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.1:67-75. 1966, pub. 1967. S675.C6 1966 English summary.
- 93113 HENNING, H. Method of assessing the efficiency and usefulness of farm roads and evaluation of costs involved in the construction. (Ge) Z. Landeskult. 8(4):235-254. Ref. 1967. 282.9 Z3 English summary.
- 93114 HODAC, K. Zkusenosti s vystavbou polních cest [From the experience in the construction of field roads]. (Cz) Zájmová Aktual. Listovka MZLH 4,16 p. 1966. S16.C95Z3
- 93115 MAKOVNIK, S. The construction of agricultural roads is currently the number one problem. (Cz) Vystavba Soc. Vesn. 7(1):17-19. 1968. 296.8 Z4
- 93116 PHILIP, PRINCE. Engineering in agriculture. Can. Agr. Eng. 9(2):81-83. July 1967. 58.8 C164 Outlook.
- 93117 POTHECARY, B. P. The contribution of the agricultural engineer towards development of agriculture in the Sudan. Inst. Agr. Eng. J. Proc. 23(2):60-66. Summer/Autumn 1967. 58.9 In7
- 93118 ROMANI, G. C. Constructive technique of rural road system. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.1:363-368. 1966, pub. 1967. S675.C6 1966 English summary.
- 93119 SEWELL, J. I. Laboratory and field tests of pond sealing by chemical treatment. Tenn. Agr. Exp. Sta. Bull. 437, 25 p. Ref. Mar. 1968. 100 T255

- 93120 SWERDFEGER, J. H. Engineering frontiers in Canada. Can. Agr. Eng. 9(2):86-87. July 1967. 58.8 C164
- 93121 SYKORA, J. The emergence of a new agricultural architecture. (Cz) Vystavba Soc. Vesn. 7(1):4-9. 1968. 296.8 Z4 Farm layouts.
- 93122 TANTINI, L. Minor road system and landscape. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.1:369-379. 1966, pub. 1967. S675.C6 1966 English summary.
- 93123 TRIA, E. Accident prevention in agriculture. (It) Agri Forum 9(2):59-61. Feb. 1968. 16 Ag8233
- FARM MACHINES AND EQUIPMENT
- 93124 ADAMOWSKI, Z. Mechanization service at farmers' circles and peasants' farmholdings and its quality in the peasants' opinion. (Pol) Nowe Roln. 16(3):11-14. 1967. 20.5 N86
- 93125 ANTONOV, I. Effective use of mechanization in cattle raising. (Bu) Zhivotnovudstvo 21(5):4-8. May 1967. 49 Z62
- 93126 BARESE, R. Italy: Farm Mechanization Enterprises [Imprese di di Meccanizzazione Agricola]. (Ge) Lohnunternehmen Land-Forstwirtschaft. 22(8):194, 196, 198. Aug. 15, 1967. 58.8 D81 The United Nazionale Imprese di meccanizzazione Agricola and contract labor.
- 93127 BAUMANN, H. The agricultural machinery market at the year-end 1967/1968. (Ge) Landmasch.-Markt 46(26):32-36. Dec. 20, 1967. 58.8 L239
- 93128 BERLAGE, A. G. Progress in tree fruit mechanization. Wash. State Hort. Ass. Proc. Dec. 5-7, 1966:29-30. 81 W273
- 93129 BIGGS, B. M. Surplus to shortage; a new day is dawning for makers of farm equipment. Barón's 46(43):3, 14, 16. Oct. 24, 1966. 280.8 B27
- 93130 BOCKHOLT, G. Why and when to use machinery. Tex. Turfgrass Conf. Proc. 22:103-104. Dec. 1967. 60.19 T31
- 93131 BROWER, P. Care of machinery. Tex. Turfgrass Conf. Proc. 22:69-71. Dec. 1967. 60.19 T31
- 93132 BROWN, J. B. Co-operative manufacture and distribution of farm machinery in Canada. Year Book Agr. Co-op. 1966:86-90. 280.29 H78
- 93133 BUNTING, A. H. The application of agricultural engineering in developing countries. Inst. Agr. Eng. J. Proc. 23(2):46-52. Summer/Autumn 1967. 58.9 In7 Mechanization in crop and animal production.
- 93134 BURNS, R. M., and others. Truck-mounted platform elevates orchard workers. Calif. Agr. 21(4):7. Apr. 1967. 100 C12Cag C. D. MCCarty, H. Z. Hield, and H. H. Armstrong, joint authors. For harvesting, pruning, and spraying.
- 93135 CANADIAN FARM EQUIPMENT DEALER. 1967 annual statistical review. Can. Farm Equip. Dealer 63(5):23-28. May 1967. 58.8 C163
- 93136 CATTABRIGA, D. How to select a machine? (Ge) Trattorista 13(21):523-524. Nov. 15, 1967. 58.8 T69
- 93137 CERA, M., and DE ZANCHE, C. Mechanization tests on sugar-beet. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.2:343-354. 1966, pub. 1968. S675.C6 1966 English summary.
- 93138 DALLARI, F. A. Distance control and servo-mechanisms. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.2:565-574. 1966, pub. 1968. S675.C6 1966 English summary.

- 93139 DEZSO, I. Some problems in the size of grapefruit production branch following application of large-scale technology. (Hu) Kertesz. Szoleszeti Foiskola. Kiadv. 3(2):379-396. 1966. SB13.K4  
Mechanization aspects.
- 93140 DIMITROV, G., and others. A new technology in early field tomato crop with respect to mechanization of labour processes. (Bu) Gradinar. Lozar. Nauk. 4(7):49-63. Ref. 1967. 87 G75  
M. Petkov, B. Kumanov, S. Buchakliev, joint authors.  
English summary.
- 93141 DONALDSON, G. F. Factors influencing decisions on farm mechanization. 5. When to replace machinery. Farm Mech. Bldg. 20(221):56-57. Jan.1968. 58.8 B772  
Great Britain.
- 93142 FALLON, E. H. The impact of technology on the changing structure of agriculture. N. Y. State Hort. Soc. Proc. 113:37-41. 1968. 81 N484  
Mechanization effect and outlook in agriculture.
- 93143 FENN, M. G. Co-operation in practice; a small machinery syndicate. Great Brit. Min. Agr. Fish. Food. Agr. 73(12):568-570. Dec. 1966. 10 G79J  
A cooperative for sugar beet and corn in Great Britain.
- 93144 FRANCE. CENTRE D'ETUDES ET D'EXPERIMENTATION DU MACHINISME AGRICOLE TROPICAL. Technical section. (Fr) Mach. Agr. Trop. 19:33-39. July/Sept.1967. 58.8 M186  
Activities in Africa.
- 93145 FULDA, E. Farm machines bearing the mark of efficiency. (Ge) Lohnunternehmen Land-Forstwirtschaft. 23(1):8-10. Jan.1968. 58.8 D81  
Equipment testing.
- 93146 GAL, I. On the road to complex mechanization in our fruit culture. (Hu) Kertesz. Szolesz. 16(15):8-10. Aug.1967. 80 K474
- 93147 GALIGANI, P. F. Vine-growing mechanization. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.2:471-479. 1966, pub.1968. S675.C6 1966  
English summary.
- 93148 GALLEN, M. V. D., and WIERSEMA, W. C. Hay transport with little manual work. (Du) Neth. Prov. Dir. Rijkslandbouwvoorlichting Friesland. Voorlichting Onderz. Grasland Veehouderij 1965:64-66. 1966. SF15.N4A3  
Equipment.
- 93149 GERLSMA, A. Filling and unloading of a tower silo. (Du) Neth. Prov. Dir. Rijkslandbouwvoorlichting Friesland. Voorlichting Onderz. Grasland Veehouderij 1965:60-61. 1966. SF15.N4A3  
Equipment.
- 93150 GINDELE, W. Agricultural progress through introduction and improvement of tools and machines in North-West Madagascar. (Ge) Z. Auslandsche Landwirt. 6(4):368-373. Nov.1967. 281.8 Z32  
English summary.  
Rice equipment.
- 93151 GLATT, J. F., ROSS, E. F., STUART, D. W. Survey of Steinlite Moisture Testers being used by handlers of filberts in Oregon. Nut Growers Soc. Oreg. Wash. Proc. Dec.8,1967:37-45. 94.69 W52
- 93152 GREAT BRITAIN. MINISTRY OF AGRICULTURE, FISHERIES AND FOOD. Fertilizer handling and broadcasting. Mech. Leaflet. 15, 15,7 p. Mar.1967. S671.M4
- 93153 GUBANSKI, CZ. What I mean by mechanization. (Pol) Nowe Roln. 16(1):17-18. 1967. 20.5 N86  
Machinery for state farms.
- 93154 HAWKINS, J. C. Systems of mechanization for agriculture in developing semi-arid countries. Inst. Agr. Eng. J. Proc. 23(2):53-57. Ref. Summer/Autumn 1967. 58.9 In7
- 93155 HECHELMANN, H. G. Technical teamwork in potato culture. (Ge) Kartoffelbau 18(3):92-98. Mar.1967. 75.8 K145  
Equipment.
- 93156 HODAC, K. Designing field roads. (Cz) Vys-tavba Soc. Vesn. 4:87-90, map. 1966. 296.8 Z4
- 93157 HOLMBERG, C. B. The Swedish National Agricultural Machinery Testing Institute [Statens maskinprovningsinstitut] — Farmers' Consumer Institute [Jordbrukets Konsumentinstitut]. (Sw) Joel 2:8-11,14. 1967. 335.8 J59
- 93158 HORNSLIEN, J. The Norwegian maskinring—a new twist to an old story. Year Book Agr. Co-op. 1966:179-184. 280.29 H78  
Equipment cooperatives.
- 93159 ISKAKOV-PLYUKHIN, B. I., and TYULENEV, A. V. Mathematical method in determining the most proper system of equipment. (Rus) Mekh. Elek. Sots. Sel. Khoz. 11:49-54. Oct. 1967. 58.8 M46
- 93160 ISSELSTEIN, R. Considerations regarding future purchase of machines. (Ge) Lohnunternehmen Land-Forstwirtschaft. 23(1):2-3. Jan.1968. 58.8 D81
- 93161 KARDAPOL'TSEV, A. V. New goals. (Rus) Mekh. Elek. Sots. Sel. Khoz. 11:1-8. Oct.1967. 58.8 M46  
Mechanization and electrification policies in the USSR.
- 93162 KONONENKO, A. Proper usage of agricultural machinery. (Rus) Tekh. Sel'skom Khoz. 3:1-4. 1968. 58.8 M11
- 93163 KÖNONOV, B., and others. Mechanization of the dairy-beef cattle farms. (Rus) Sel'sko-khoz. Proizvodstvo Povolzh'ya 8:35-36. Aug. 1967. 281.8 Se4  
P. Dmitriev, V. Gorshkov, and O. Yaroslavtsev, joint authors.
- 93164 KOSACHEV, G. G. Economic problems of technical progress on the farms. (Rus) Mekh. Elek. Sots. Sel. Khoz. 11:38-43. Oct.1967. 58.8 M46  
Chiefly on mechanization costs.
- 93165 LABEEUW, N. Make or buy? (Fl) Tuinbouwberichten 31(11):384-385. Nov.1967. 80 T817  
Mechanization costs in Belgium.
- 93166 LABROUSSE, G. Requirements of agricultural mechanization in the newly developing countries. (Fr) Mach. Agr. Trop. 19:10-32. July/Sept.1967. 58.8 M186  
English summary.
- 93167 LARSEN, R. P. How western fruit growers are moving to mechanized production and harvesting. Mich. State Hort. Soc. Annu. Rep. 96:94-98. 1966, pub.1967. 81 M58  
Includes British Columbia.
- 93168 LEVIN, M. S., and SLAVIN, R. M. Methodological premises of scientific and technical decisions, concerning mechanization and electrification of agriculture. (Rus) Mekh. Elek. Sots. Sel. Khoz. 11:29-37. Ref. Oct.1967. 58.8 M46
- 93169 LOGUTENOK, E. P. The operation of shredding drums with hinged hammers. 7 p. Transl. 16774  
As parts of agricultural equipment.  
Translation from Traktory i Sel'khoz mashiny 12:18-20. 1963.
- 93170 LUTZ, D. Weighing device for technical farm studies. (Ge) Landtech. Forsch. 17(5):120-125. 1967. 58.8 L2332  
English summary.  
For vehicles and loads.
- 93171 MAKSUMOV, M., and ANTIPOV, I. Take care of farm equipment. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 7:39-40. July 1967. 281.8 S34  
Policies and maintenance.



- 93172 MONIN, A. Economic and agronomic aspects of mechanization. (Fi) Fruit Belg. 35(313):233-239. Sept.1967. 80 F9493  
Mechanization in fruit growing, plant health and soil maintenance.
- 93173 MORACE, M. Animal husbandry in Valpadana. (It) Esso Agr. 17(6):11-12. Dec.1,1967. 58.8 Es7  
Mechanical innovations in raising cattle.
- 93174 MORLEY, J. A. E. Machinery syndicates compared. Year Book Agr. Co-op. 1967:109-113. 280.29 H78
- 93175 MUELLER, W. R., and SCHMITZ, G. Cement + garden. (Ge) Gartenschoenheit 47(4): 1-32. 1966. 80 G199  
In accessories, paths, walls, and equipment.
- 93176 NILSSON, E. A good device for emptying of silos - how is that constructed? (Sw) Lantmannen 78(24):13-14. Nov.25,1967. 11 L234
- 93177 NORRBY, G. Why do we buy new machinery? (Sw) Lantmannen 78(25):10-12. Dec.9,1967. 11 L234
- 93178 OFTINGER, K. Nature protection and noise control. (Ge) Schweiz. Naturschutz 34(1):6-9. Feb.1968. 279.8 Sch9  
Includes noise from agricultural equipment
- 93179 OTASEVIC, S. Rationalization of more important working processes in wheat and corn production. II. Corn production. (Se) Poljopr. Teh. 5(1/2):13-42. Ref. 1967. S671.P6  
English summary.  
Time-motion study in mechanized and manual labor.
- 93180 PAVLOVIC, U. Mechanization of agricultural production in Bosnia and Herzegovina. (Se) Poljoprivredni Pregl. 15(7/8):265-272. July/Aug.1966. 21.5 P753
- 93181 PHILLIP, F. Was anything discovered between 1920 and 1930? (Ge) Landmasch.-Markt 46(26):16-17. Dec.20,1967. 58.8 L239  
Agricultural mechanization.
- 93182 POLITI, A. The state of mechanization in Italian rice farming. (It) Riso 16(2):121-150. June 1967. 59.8 R49  
English summary.
- 93183 POPOV, R. Selection of agricultural aggregates or unions by combining machines on basis of their rents depending on the extent of work of agrotechnical operations. (Se) Poljopr. Teh. 5(1/2):1-9. 1967. S671.P6  
English summary.
- 93184 POTOČNIK, T. Poultry production and automation. (Sl) Soc. Kmetijstvo Gozdarstvo 18(6): 131-133. Apr.22,1967. 21.5 So14
- 93185 PREININGER, M. Fifteen years of the Research Institute for Agricultural Machines [Vyzkumny Ustav Zemedlske Techniky] at Re-py near Prague. (Cz) Prague. Vyzk. Ústav Zemed. Vestn. 13(7):333-335. 1966. 19.5 C333
- 93186 RICHTER, W., and GROSSE, R. Problems of the effect of assistance services to state and collective farms on basic assets. (Ge) Z. Agrarokon 10(5):245-254. Ref. 1967. 281.8 Z3  
Cooperative assistance with equipment to increase production.
- 93187 ROMANOV, V. I. Efficiency of improving repairs of agricultural equipment. (Uk) Visn. Sil's'kohospod. Nauk. 1:15-22. Jan.1967. 20 V82  
Russian summary.
- 93188 RUSTICALI, V. The industries of Emilia-Romagna work for the soil. (It) Esso Agr. 17(6): 28-30. Dec.1,1967. 58.8 Es7  
Italian agricultural machinery.
- 93189 SAVIC, R. Mechanized production of green peas. (Se) Poljopr. Teh. 5(1/2):43-63. 1967. S671.P6  
English summary.
- 93190 SCHERINGS, H. Some practical results for practical use. (Du) Neth. Dir. Landbouw Verslag Landbouwkundig Onderz. Noordelijk-Groningen. 1967:94-102. 12 N38Vg  
Farm machinery in the Netherlands.
- 93191 SCHIB, K. Mechanization and work planning on the farm. (Ge) Grune 96(13):429-442. Mar.29, 1968. 17 Sch9  
Switzerland; includes mechanization costs.
- 93192 SEMKOVYCH, A. D. Loading capacity of tanks, supplying liquid fertilizers to distributors. (Uk) Visn. Sil's'kohospod. Nauk. 1:30-38. Jan. 1967. 20 V82
- 93193 SHAMAEV, G. P., and ZHILITSKII, YA. Z. Mechanization in fruit growing. (Rus) Sado-vodstvo [Moscow] 10:20-21. Oct.1967. 80 Sa13
- 93194 SHATALOV, M., SKACHKOV, P., and NASO-NOV, V. Approaching spring well equipped. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 4: 34-35. Apr.1967. 281.8 Se4  
Mechanization.
- 93195 SIEGEL, O. The agricultural machinery in OECD's [Organisation for Economic Co-operation and Development] export trade. (Ge) Land-masch.-Markt 46(26):28-31. Dec.20,1967. 58.8 L239
- 93196 SRIDHARAN, C. S., and ANANTARAMAN, S. E. Implements and machines for oilseed crops. Indian Farming 17(9):38-40. Dec.1967. 22 In283  
Planting, harvesting, and processing equipment.
- 93197 STOLBUSHKIN, N. A. Improving organization and the testing methods of equipment. (Rus) Mekh. Elek. Sots. Sel. Khoz. 11:24-28. Oct. 1967. 58.8 M46
- 93198 STROOKER, E. Where do we go with sugar beet husbandry and harvest. I. (Du) Land-bouwmeechanisatie 18(9):885-890. Sept.1967. 58.8 L2352  
English summary.  
Mechanization.
- 93199 SZPYT, J. More about mechanization. (Pol) Budownictwo Wiejskie 19(10):24. Oct.1967. 196.8 B85
- 93200 TRUNCALI, V. The development and experiences with applejack - the self unloading bin trailer. N. Y. State Hort. Soc. Proc. 113:128-130. 1968. 81 N484
- 93201 ULLRICH, E. O., SANDERSON, J. T., and AANDERUD, W. G. Machinery costs on typical wheat farms in central South Dakota; Buffalo, Hyde, and Hand Counties. S. Dak. Agr. Exp. Sta. Circ. 186,24 p.,map. June 1968. 100 So82  
U. S. Department of Agriculture, cooperating.
- 93202 ULLRICH, E. O., SANDERSON, J. T., and AANDERUD, W. G. Machinery costs on typical wheat farms in north central South Dakota; Campbell, Edmunds, Walworth, and McPherson Counties. S. Dak. Agr. Exp. Sta. Circ. 193, 15 p.,map. June 1968. 100 So82  
U. S. Department of Agriculture, cooperating.
- 93203 ULLRICH, E. O., SANDERSON, J. T., and AANDERUD, W. G. Machinery costs on typical wheat farms in north eastern South Dakota; Beadle, Clark, Codington, Day, Roberts, and Marshall Counties. S. Dak. Agr. Exp. Sta. Circ. 190,16 p.,map. June 1968. 100 So82  
U. S. Department of Agriculture, cooperating.
- 93204 ULYANKIN, I. P., and MIRSKII, N. M. Economic goals of mechanization in the swine husbandry. (Rus) Zhivotnovodstvo 6:30-33. June 1967. 49 Z6
- 93205 VADIVASOV, D., and others. Polymers in maintenance of equipment. (Rus) Sel'skokhoz Proizvodstvo Povolzh'ya 9:34. Sept.1967. 281.8 Se4  
Yu. Pakhomov, A. Terkhunov, and E. Molchanov, joint authors.

- 93206 VARNAVSKII, V. D. Using coordination lines in operating equipment and tractor aggregates. (Rus) Mekh. Elek. Sots. Sel. Khoz. 11: 55-59. Oct. 1967. 58.8 M46
- 93207 VITALI, G. Mechanizing olive-growing. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.2:403-418. 1966, pub. 1968. S675.C6 1966 English summary.
- 93208 WÄGNER, O. Neighborhood assistance in agriculture and forestry. (Ge) Lohnunternehmen Land-Forstwirtschaft. 23(1):14. Jan. 1968. 58.8 D81  
Legal aspects of emergency loans of equipment to contract operators.
- 93209 WYOMING UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. 4-H tractor program record book. Wyo. Univ. Ext. [4-H Club Circ.] T-5a-67, 8 p. May 1967. 275.29 W99Fc
- 93210 ZELENT, M. Conditions for building intercommunal farm machinery stations. (Pol) Budownictwo Wiejskie 19(9):8-9. Sept. 1967. 296.8 B85  
Machine tractor stations in Poland.
- Animal Husbandry Equipment**
- 93211 ALTY, I. Check on efficiency of milking machines. New Zeal. J. Agr. 114(3):49, 51. Mar. 1967. 23 N48J
- 93212 BLANKEN, G. Feeder design for swine. (Ge) Tierzuchter 19(23):812-813. Dec. 5, 1967. 49 T445
- 93213 BULDINI, F. Equipment for industrial and home chicken brooders. (It) Inform. Zootec. 14(14):14-15. June 1967. 49 In3
- 93214 CLAESON, C. O. To consider when changing to pipeline milking. (Sw) Lantmannen 78(18): 8-9. Sept. 1967. 11 L234
- 93215 GILMOUR, W. I. D. Calf v milking machine v hand milking. Dairyfarming Dig. 14(1):20-21. Feb. 1967. 44.8 D1443  
Milking machine design.
- 93216 HEIDA, H. Milk line type. (Du) Neth. Prov. Dir. Rijkslandbouwvoorlichting Friesland. Voorlichting Onderz. Grasland Veehouderij 1965:38-39. 1966. SF15.N4A3
- 93217 THE IRREPLACEABLE mechanical milker. 8. Problems of inadaptability to mechanical milking. (It) Inform. Zootec. 14(14):5-8. June 1967. 49 In3  
Due to anatomical and pathological udder defects.
- 93218 KLEEN, E. J., and JORGENSEN, N. A. The milking machine. S. Dak. State Univ. Ext. FS 404, 4 p. Apr. 1968. 275.29 So85Fs
- 93219 KUTTI, P., and others. Masinlupsiseadmed; ehitus, kasitsemine, hooldamine [Milking machines; their design, use, and maintenance]. Tallinn, Valgus, 1966. 340 p. SF247.M27  
E. Liiv, E. Must, and V. Veinla, joint authors.
- 93220 NIELSEN, S. M., and others. Experiments with machine milking with and without hand stripping in relation to milk yields, time required and udder health. (Da) Denmark. Statens Husdyrbrugsudvalg Landokon. Forsogslab. Beretn. 358:18-24. 1967. 104 D41  
A. Neimann-Sorensen, P. S. Madsen, and N. O. Klasttrup, joint authors.
- 93221 OOSTERIOO, J. The new milking machine regulation. (Du) Neth. Prov. Dir. Rijkslandbouwvoorlichting Friesland. Voorlichting Onderz. Grasland Veehouderij 1965:46-47. 1966. SF15.N4A3  
With reference to purchasing.
- 93222 PEARCE, P. G. H. New cradle devised to weigh sheep. New Zeal. J. Agr. 114(3):64-65, 67. Mar. 1967. 23 N48J
- 93223 POSTMA, J. Cleaning and disinfection of milking equipment. (Du) Neth. Prov. Dir. Rijkslandbouwvoorlichting Friesland. Voorlichting Onderz. Grasland Veehouderij 1965:40-43. 1966. SF15.N4A3
- 93224 RALCHEV, G., NEDYALKOV, K., and VELKOV, M. More attention to mechanized shearing. (Bu) Zhivotnovodstvo 21(5):8-12. May 1967. 49 Z62  
Sheep.
- 93225 SCHMIDT, H., and LOMMATZSCH, R. Technical aid for improving cleanliness of cow. (Ge) Tierzucht 21(6):295-297. June 1967. 49 T443
- 93226 SCHWIDERSKI, H. The use of pipeline milking machines in large dairy cattle tie-in stalls. (Ge) Tierzucht 21(6):287-290. June 1967. 49 T443
- 93227 THIEL, C. C., CLOUGH, P. A., and AKAM, D. N. The mechanics of machine milking. Farm Mech. 20(221):21-22. Jan. 1968. 58.8 B772  
Summary of results of experiments at National Institute for Research in Dairying.
- 93228 WAL, T. V. D. New method for cleaning of the milking machine. (Du) Neth. Prov. Dir. Rijkslandbouwvoorlichting Friesland. Voorlichting Onderz. Grasland Veehouderij 1965:44-45. 1966. SF15.N4A3
- 93229 WHITTLESTONE, W. G., and PHILLIPS, D. S. M. Size of pipe lines in milking machines. New Zeal. J. Agr. 114(3):32. Mar. 1967. 23 N48J
- Cultivation and Tillage Equipment**
- 93230 AFONIA, E. D. Self-sharpening plowshares. 5 p. Transl. 16887  
Translation from Kuibyshevskii Sel'skokhozyaistvennyi Institut. Izvestiya 18:234-238. 1966.
- 93231 AFONIN, E. D. The problem of the theory of operation of plow shares. 15 p. Ref. Transl. 16885  
Translation from Kuibyshevskii Sel'skokhozyaistvennyi Institut. Izvestiya 18:245-259. 1966.
- 93232 AFONIN, E. D. The problems of estimating the reliability and life of plowshares. 7 p. Transl. 16886  
Translation from Kuibyshevskii Sel'skokhozyaistvennyi Institut. Izvestiya 18:33-37. 1966.
- 93233 ANDERSON, D. T. Factors affecting trash conservation with the wide-blade cultivator. Can. Agr. Eng. 9(2):98-100, 127. Ref. July 1967. 58.8 C164
- 93234 BERNACKI, H. Dynamic forces acting during rotary tiller operation. 19 p. Transl. 16881  
Translation from Warsaw. Instytut Mechanizacji i Elektryfikacji Rolnictwa. Biuletyn 2:65-87. 1962.
- 93235 CANCELLARA, E. Modern equipment for land layouts and irrigation. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.1:37-48. 1966, pub. 1967. S675.C6 1966
- 93236 CONCIENNE, P. Mechanical hedging and topping. Wash. State Hort. Ass. Proc. 1967:150. 81 W273  
Apples.
- 93237 CROCIONI, A., and SASSO, G. Experiences in soil tillage with rotary cultivators and turning plows in 1959-1961. (It) Turin. Univ. Fac. Sci. Agr. Ann. 1:53-73. 1961-62, pub. 1966. S9.T8  
English summary.
- 93238 DEMIDKO, M. E. Operation of cultivators and risk tillers at high speeds. 7 p. Transl. 16872  
Translation from Traktory i Sel'khoz mashiny 32(3):29-31. 1962.



- 93239 ELGURT, YA. B. Some elements of a theory of rotary tiller drums for loosening soil. 4 p. Transl. 16865  
Translation from Moskovskii Institut Inzhenerov Sel'skokhozyaistvennogo Proizvodstva. Doklady 3(1):41-44. 1966.
- 93240 FALEN, L. Tree topping. Wash. State Hort. Ass. Proc. 1967:145. 81 W273  
Pruning equipment for fruit trees.
- 93241 GALKIN, V. A hitch for spring-tooth harrow. (Rus) Tekh. Sel'skom Khoz. 3:17-19. 1968. 58.8 M11
- 93242 GNILOMEDOV, V. P. The problem of spacing sweeps on cultivator frames. 7 p. Transl. 16856  
Translation from Kuibyshevskii Sel'skokhozyaistvennyi Institut. Izvestiya 18:25-32. 1966.
- 93243 GOTTWALD, A. Driving stakes made easy. (Ge) Obstbauversuchsring Alten Landes. Mitt. 22(1):31-33. Jan. 1967. 85 J76
- 93244 GUGLINGEN, W. K. One-axle tractors and small motor equipment. (Ge) Landmasch. - Rundsch. 19(11):320-324. Nov. 1967. 58.8 L237
- 93245 HALLEN, L. Mechanical weed control. (Sw) Hallands Lans Hushallningssallsk. Tidskr. 5: 23-28. Sept. 1967. 11 H152
- 93246 HEPHERD, R. Q. Big changes in cultivation equipment and methods have taken place during the last ten years. Arable Farmer 1(5):4-5, 7. Mar. 1967. S3.A7  
In Great Britain.
- 93247 HOSOYA, H. A consideration on the operation cost of a tractor, particularly in the plowing process. (Ja) Utsunomiya Univ. Coll. Agr. Bull. 6(3):147-160. Mar. 1967. 107.6 Ut7B  
English summary.
- 93248 JONES, W. D. Pruning and harvesting systems. Wash. State Hort. Ass. Proc. Dec. 5-7, 1966: 25-27. 81 W273  
Mechanization outlook.
- 93249 LIBICH, V. Mechanization and economics of the autumnal production operations. (Cz) Chmelarstvi 40(10):147-148. Oct. 25, 1967. 70.8 C33  
Chiefly plowing and pruning equipment for hops.
- 93250 LINDLEY, J. It's a great tool. Arable Farmer 4(1):18-19. Feb. 1967. S3.A7  
The chisel plough.
- 93251 LOMAKKA, L. Breadth of ridge and type of moldboard in Northern Sweden. (Sw) Grundforbattering 2(20):69-71. 1967. 54.8 G92
- 93252 MARTSINYUK, I. Universal mechanized hoe. (Rus) Sadovodstvo [Moscow] 10:40-41. Oct. 1967. 80 Sa13  
Cultivator.
- 93253 MATSUYAMA, T., and others. On the limit of cultivating operation of a tractor in the paddy field. (Ja) Shikoku Agr. Exp. Sta. Bull. 16:1-34. Mar. 1967. 107.6 Z4  
J. Masuda, K. Kawasaki, K. Maeoka, and S. Kita, joint authors.  
English summary.  
Plowing.
- 93254 MATTHEWS, E. J. Quantitative evaluation of tools for incorporating herbicides. Ark. Farm Res. 17(2):3. Mar./Apr. 1968. 100 Ar42F
- 93255 MUGLIONI, F. A machine for weed-burning. (It) Esso Agr. 16(4):26-27. Aug. 1967. 58.8 Es7  
In Italy.
- 93256 ORMISTON, O. Mechanical tree topping. Wash. State Hort. Ass. Proc. 1967:149. 81 W273  
Apples, pears, cherries.
- 93257 PETERSEN, H. J. Equipment for working the soil after harvest. (Da) Landbonyt 21(9):355-356, 358-361. Sept. 1967. 11 L2322  
Plows.
- 93258 POWERS, G. A home-made tree toppler. Wash. State Hort. Ass. Proc. 1967:148. 81 W273  
Apple trees.
- 93259 RADOMSKA, M. Application of a plough with scarifier PF-3 to the cultivation of winter wheat in the light of production experiments at the state agricultural farms of Wysoka and Mokre. (Pol) Wroclaw Wyzsza Szkola Roln. Zeszyty Nauk. Roln. 21(66):111-120. 1967. 20.5 B75  
English summary.
- 93260 RADOMSKA, M. Examination of the improved prototype of disc harrow with a drill for after/cultures BPS-2 in field experiments. (Pol) Wroclaw Wyzsza Szkola Roln. Zeszyty Nauk. Roln. 21(66):121-132. 1967. 20.5 B75  
English summary.
- 93261 SACHL, J. Plows and tractors in the autumn plowing of hop fields. (Cz) Chmelarstvi 40(10):146-147. Oct. 25, 1967. 70.8 C33
- 93262 VASIL'KOVSKII, S. M. The work of active operating cultivator sweeps. 8 p. Transl. 16768  
Translation from Kuibyshevskii Sel'skokhozyaistvennyi Institut. Izvestiya 18:38-45. 1966.
- 93263 VISCARDI, K. New technology in vegetable tillage. (Pol) Nowe Roln. 16(3):14-17. 1967. 20.5 N86
- 93264 VOIDA, A. A rotary plow. (Rus) Tekh. Sel'skom Khoz. 3:89. 1968. 58.8 M11  
Czechoslovakia.

#### Fertilizing and Planting Equipment

- 93265 AMIRANTE, P. Sugar-beet sowing; mechanical tests. (It) Conv. Naz. Ass. Ital. Ing. Agr. Att. 1st Conv., v. 2:355-378. Ref. 1966, pub. 1968. S675.C6 1966  
English summary.  
Combining with fertilizer application.
- 93266 BARALDI, G. Sugar beet sowing and harvesting; results of tests. (It) Conv. Naz. Ass. Ital. Ing. Agr. Att. 1st Conv., v. 2:313-333. 1966, pub. 1968. S675.C6 1966  
English summary.  
Mechanized.
- 93267 BOCHAROV, A. A grass sowing unit. (Rus) Tekh. Sel'skom Khoz. 3:5-7. 1968. 58.8 M11
- 93268 BOWREN, K. E., and DRYDEN, R. D. Methods of seeding spring wheat on summerfallow in the black soil area of Manitoba and Saskatchewan. Can. Agr. Eng. 9(2):101-102, 126. July 1967. 58.8 C164  
By machine.
- 93269 DIPAOLO, G. Energy requirement for transplanting tomatoes and tobacco. (It) Conv. Naz. Ass. Ital. Ing. Agr. Att. 1st Conv., v. 2:61-80. 1966, pub. 1968. S675.C6 1966  
English summary.
- 93270 DROZD, M. Preliminary investigations of fertilizer spreading at increased speeds. (Pol) Wroclaw Wyzsza Szkola Roln. Zeszyty Nauk. Roln. 21(66):99-109. 1967. 20.5 B75  
English summary.
- 93271 EHNROT, B. Seed and planting machines for this year's sugar crop. (Sw) Betodlaren 29(1): 20-21. 1966. 66.9 Sv22  
Chiefly equipment.
- 93272 FILIPPOV, E. Novelty in mineral fertilizer application equipment. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 10:40-41. Oct. 1967. 281.8 Se4
- 93273 GOHLICH, H., and BRUBACH, M. Effect of mixing and the container volume of rotating fertilizer spreaders. (Ge) Landtech. Forsch. 17(5):117-120. 1967. 58.8 L2332  
English summary.
- 93274 GRAY, E. S. Which spray nozzle? Fert. Solutions 12(1):58-62. Jan./Feb. 1968. 57.8 So4

- 93275 HALLEN, L. Fertilizer distributor. (Sw) Hal-lands Lans Hushallningssallsk. Tidskr. 2:6-8. Mar.1967. 11 H152  
Deals with different types of fertilizer distrib-utors and their proper operation.
- 93276 HAN, S. K., KIM, S. R., and LEE, K. S. Mech-anization tests of rice direct sowing on dried paddy field. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(6):1-11. Ref. Sept.1967. 22.5 K843  
English summary.
- 93277 KLYUEV, A. Operational speed of aggregate and its effect on planting quality. (Rus) Sel'-skokhoz. Proizvodstvo Povolzh'ya 8:36-37. Aug.1967. 281.8 Se4  
Grain.
- 93278 KUHNBERG, L. Improving placement preci-sion in single seed drills. (Ge) Arch. Land-techn. 6(1):47-62. Ref. 58.8 Ar22  
English summary.
- 93279 MARTYNA, J., OTOLINSKI, E., and KUKULKA, T. The hydromechanic dispersion of manure on mountainous farms. (Pol) Nowe Roln. 16(1):21-24. 1967. 20.5 N86
- 93280 MILLER, W. O., WESELOH, J. W., and COLE-MAN, D. M. The Dow soil injection knife for applying chemicals to bedded land. Down Earth 23(2):18-20. Fall 1967. 381 D75
- 93281 PEREZ PEREZ, N., and GONZALEZ, G. Results of variability of corn populations with mechanized planting. (Sp) Jornadas Agron. Mem., 6th Conf., v.1, paper 6,21 p. 1966. S211.J6 1966
- 93282 POLOVTSSEV, E. L. Mechanized application of gypsum on Solonetz soils. (Rus) Khim. Sel'-skom Khoz. 5(6):71-76. June 1967. 385 K524
- 93283 REPETOV, A., and KRUPETSKIKH, V. Recon-struction of a spreader for feeding of planters. (Rus) Tekh. Sel'skom Khoz. 3:9-11. 1968. 58.8 M11  
Potatoes.
- 93284 SAZDEVSKI, M. Mechanized planting of tobac-co. (Se) Sovremeno Zemjod. 13(4):4-5. Apr. 1966. S13.S6
- 93285 SOBOTKA, O., HAMPL, A., and TOMICA, R. Vapneni pud a jeho mechanizace [Liming of soils and its mechanization]. (Cz) Zajmova Aktual. Listovka MZLH 8,32 p.,map. 1966. S16.C95Z3
- 93286 VANJARI, S. S., SAWANT, S. D., and WAGH, L. N. Multi-purpose planter with fertilizer attachment. Indian Farming 18(1):15-19,22. Apr.1968. 22 In283  
Jowar culture in India.
- Harvesting Equipment**
- 93287 ADRIAN, P. Mechanical harvesting of peaches in California. Mich. State Hort. Soc. Annu. Rep. 96:110-112. 1966,pub.1967. 81 M58
- 93288 ANDERSON, S. A., YOUNG, D. H., and HUEHN, W. G. Processor experience with mechanically harvested apples. N. Y. State Hort. Soc. Proc. 113:94-98. 1968. 81 N484
- 93289 BARANOV, A. Combining swath method of grain harvesting with direct operation of com-bines. (Rus) Sel'skokhoz. Proizvodstvo Povol-zh'ya 7:35-36. July 1967. 281.8 Se4
- 93290 BAUM, R. Practical design of a movable baling press. (Ge) Landmasch.-Markt 46(26):19-20. Dec.20,1967. 58.8 L239
- 93291 BERLAGE, A. G. Harvest mechanization as affected by tree shape. Wash. State Hort. Ass. Proc. 1967:163-164. 81 W273  
Deciduous fruit harvesting.
- 93292 BERTRAM, H. Problems of increasing per-formance in sugar beet harvesting. (Ge) Loh-nunternehmen Land-Forstwirtschaft. 22(8):202-205. Aug.15,1967. 58.8 D81  
Mechanical harvesting, chiefly.
- 93293 BUCHHOLZ, H. W. How processors look at mechanical grape harvesting. N. Y. State Hort. Soc. Proc. 113:273-275. 1968. 81 N484
- 93294 CANNATA, F. Mechanized olive harvesting from trees. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv.,v.2:419-451. Ref. 1966,pub. 1968. S675.C6 1966  
English summary.
- 93295 CASINI-ROPA, G. Testing rice combines on peaty lands. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv.,v.2:225-242. 1966,pub. 1968. S675.C6 1966  
English summary.
- 93296 COLZANI, G. Experimental tests with a maize combine and a corn reaping sheller. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv.,v.2:169-195. Ref. 1966,pub.1968. S675.C6 1966  
English summary.
- 93297 COPPOCK, G. E. Harvesting early and mid-season citrus fruit with tree shaker harvest systems. Fla. State Hort. Soc. Proc. 80:98-104. May 1,1968. 81 F66
- 93298 CORLEY, T. E. Crop mechanization: what kind of cotton harvests best? World Farming 9(2):21-22,34-35. Feb.1967. 30.08 W89
- 93299 DALLARI, F. A. Mechanizing horticulture with particular reference to tomato mechanical and semi-mechanical harvesting. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv.,v.2:379-391. 1966,pub.1968. S675.C6 1966  
English summary.
- 93300 DE VECCHI, N. Some negative aspects of ce-real harvesting with a combine. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv.v.2:99-103. 1966,pub.1968. S675.C6 1966  
English summary.
- 93301 DODDS, M. E. A review of research of the use of the windrower for harvesting cereal crops. Can. Agr. Eng. 9(2):95-97,108. July 1967. 58.8 C164
- 93302 FEDOROV, A. Mechanized harvesting of mel-ons. (Rus) Sel'skokhoz. Proizvodstvo Povol-zh'ya 8:37-38. Aug.1967. 281.8 Se4
- 93303 FELDMANN, F. Mechanization with under-standing. V. Potato harvesting. (Ge) Cnem. Techn. Landwirt. 18(12):395-396,398. Dec.1967. 384 C4292
- 93304 FISCHETTI, B. Mechanical harvesting of beans. (It) Ital. Agr. 104(4):479-483. Apr. 1967. 16 It1
- 93305 FITZGERALD, L. A. Pickers for quality cot-ton; the proper use of good machinery means money in the grower's pocket. Farm Quart. 23 (3):46-49,86. Summer 1968. 6 F22995
- 93306 FLETCHER, A. Orchard working platform ladder combination. Wash. State Hort. Ass. Proc. 1967:162. 81 W273  
Deciduous fruit harvesting.
- 93307 FLOATE, R. Mechanical harvesting of tart cherries - factors for success. Mich. State Hort. Soc. Annu. Rep. 96:59-62. 1966,pub.1967. 81 M58
- 93308 FRENCH, G. W. Multi-row potato harvesting. Potato Handbook 12:38-41. 1967. 75.8 P842P  
Includes costs.
- 93309 GALLARATE, G. The initiatives of the Nation-al Association of Beet Growers [Associazione Nazionale Bieticoltori] for the widespreading of beet harvesting machines. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv.,v.2:335-341. 1966,pub.1968. S675.C6 1966  
English summary.
- 93310 GALLAN, M. V. D., and WIERSEMA, W. C. Hay shaking or crushing. (Du) Neth. Prov. Dir. Rijkslandbouwvoorlichting Friesland. Voorlichting Onderz. Grasland Veehouderij 1965:68-69. 1966. SF15.N4A3  
Harvesting equipment.
- 93311 GASPARETTO, E. Rice harvesting tests with combines. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv.,v.2:197-223. 1966,pub.1968. S675.C6 1966  
English summary.



- 93312 GEBENDINGER, M. Statistics applied to olives harvested with a new shaker. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.2:453-464. 1966, pub.1968. S675.C6 1966  
English summary.  
Regression analysis.
- 93313 GIAMETTA, G. Mechanizing forage harvesting; experimental tests. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.2:279-304. Ref. 1966, pub.1968. S675.C6 1966  
English summary.
- 93314 GITLIN, H. M. Equipment for harvesting forage crops. Hawaii. Univ. Ext. Misc. Publ. 45: 48-50. Aug.26,1967. S544.3.H3H3
- 93315 GREAT BRITAIN. MINISTRY OF AGRICULTURE, FISHERIES AND FOOD. Forage harvesters. Mech. Leaflet 13, 7 p. Mar.1967. S671.M4
- 93316 GREAT BRITAIN. MINISTRY OF AGRICULTURE, FISHERIES AND FOOD. Potato harvesting with diggers. Mech. Leaflet 17, 7 p. June 1967. S671.M4
- 93317 HARDENBERG, D. W. GRAF VON. Die Mechanisierung der Ernte von Stein- und Strauchbeerenobst [Mechanization of the stone and small fruit harvest]. Kuratorium Tech. Landwirt. Ber. Landtech. 115,141 p. 1967. 18 K96  
English summary.  
Bibliography, p.128-137.
- 93318 HORINEK, M., and STEJSKAL, S. Sklizena vysokotlakými lisí [Harvesting hay with high pressurized presses]. (Cz) Zájmová Aktual. Listovka MZLH 7,16 p. 1966. S16.C95Z3
- 93319 HOUK, R. My experiences in mechanical harvesting of cherries. Mich. State Hort. Soc. Annu. Rep. 96:43-45. 1966, pub.1967. 81 M58
- 93320 HUMPHRIES, W. Mechanization '68--the year for mechanical harvesting of flue-cured tobacco. West Tobacco J. 95(5):17-21. May 1968. 286.89 W52
- 93321 INSTITUT TECHNIQUE DES CEREALES ET FOURRAGES. Understand the harvester-thresher to make better use of it. (Fr) Paris. Ecole Franc. Meun. Bull. Anciens Eleves 218: 75-79. Mar./Apr.1967. 298.9 P21
- 93322 IZAKATUS, G., and ZABROSAEV, V. Mechanized harvesting of apples. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 7:37. July 1967. 281.8 Se4
- 93323 KROMER, K. H. Untersuchungen am Trommelfeldhacksler unter besonderer Berücksichtigung der Materialforderung in und nach Schneid-Wurf-Trommeln [Investigations on the drum field chopper with special attention to materials conveying in and after the cutter-ejector drum]. Kuratorium Tech. Landwirt. Ber. Landtech. 114,181 p. 1967. 18 K96  
English summary.  
Bibliography, p.138-146.
- 93324 KURTZ, P. J., and BILANSKI, W. K. Machine treatments on field drying hay. Can. Agr. Eng. 9(2):113-116. Ref. July 1967. 58.8 C164
- 93325 LABELLE, R. L. Evaluation of commercial machine-harvested apples - 1967. N. Y. State Hort. Soc. Proc. 113:86-93. 1968. 81 N484  
Injuries and varieties in New York.
- 93326 LABELLE, R. L., and HAND, D. B. Mechanical harvesting of fruits and vegetables for processing. Int. Congr. Food Sci. Technol. Proc. 5: 283-292. 1962, pub.1967. TP368.15 1962
- 93327 LAFFERTY, D. G., and DELZELL, F. Cost of owning and operating cotton stripper machines. Ark. Agr. Exp. Sta. Rep. Ser. 169,13 p. May 1968. 100 Ar42R
- 93328 LAMONT, R. E. Two years experience with Perry harvesters by four growers. N. Y. State Hort. Soc. Proc. 113:79-83. 1968. 81 N484  
Costs and preferred varieties for apple harvesting in New York.
- 93329 LARSEN, R. P. Mechanical harvesting and harvesting aids for apples. N. Y. State Hort. Soc. Proc. 113:103-107. 1968. 81 N484
- 93330 LOVELIDGE, B. A mechanized system of sprout harvesting. Farm Mech. 20(221):52-53. Jan.1968. 58.8 B772  
Brussels sprouts.
- 93331 MALER, J. The concept of mechanization of grain harvest up to 1980. (Cz) Uroda 16(3):84-86. Mar.1968. 64.8 Z12
- 93332 MANFREDI, E., and CERA, M. Essays on mechanical maize harvesting (losses of grain in combines carrying out two different harvesting systems; cob detachment or plant cutting). (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.2:153-168. 1966, pub.1968. S675.C6 1966  
English summary.
- 93333 MANFREDI, E. Technical and economical considerations on sugar-beet mechanical harvesting. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.2:305-312. 1966, pub.1968. S675.C6 1966  
English summary.
- 93334 MARKWARDT, E. D., and others. Mechanical harvesting developments in 1967. N. Y. State Hort. Soc. Proc. 113:75-79. 1968. 81 N484  
G. E. Rehkugler, H. Longhouse, K. Ryan, J. Throop, and J. Steflik, joint authors.  
For apples.
- 93335 MARKWARDT, E. D., and others. Mechanical harvesting of apples used for processing. Mich. State Hort. Soc. Annu. Rep. 96:113-123. 1966, pub.1967. 81 M58  
H. A. Longhouse, J. J. Maynard, and R. W. Guest, joint authors.  
New York.
- 93336 MATERI, M. Machines for grain-maize harvesting. (It) Trattorista 13(15/16):379-387. Aug.15/31,1967. 58.8 T69
- 93337 MCMECHAN, A. D. A self-propelled orchard work platform for hedge-row plantings of semi-dwarf apple trees. Wash. State Hort. Ass. Proc. 1967:164-166. 81 W273  
Harvesting.
- 93338 MELLENTHIN, W. M. Observations of mechanical harvesting in the eastern United States. Wash. State Hort. Ass. Proc. 1967:166-167. 81 W273  
Apples.
- 93339 MODEN, W. L., and ROYLANCE, H. B. Combine adjustment for harvesting alfalfa seed. Idaho. Univ. Ext. Idaho. Curr. Inform. Ser. 78,4 p. May 1968. 275.29 Id131dc
- 93340 MUIJZENBERG, E. W. B. VAN DEN. Harvest mechanization in horticulture. (Du) Neth. Dir. Tuinbouw. Mededel. 30(7/8):288-296, map. Ref. July/Aug.1967. 86 N384  
English summary, p.322-323.  
Includes discussion.
- 93341 NAERLAND, G. O. Should grass and silage handling be fully mechanized? (No) Norsk Landbruk 12:8-9, 29. June 16, 1967. 11 N8122  
Harvesting and preparation.
- 93342 NISSEN, F. New potato harvesters and their proper operation. (Da) Landbonyt 21(10):429-434, 436. Oct.1967. 11 L2322
- 93343 NORRBY, G. Turn the harvester combine to high capacity. (Sw) Lantmannen 78(14/15):28-30. July 8, 1967. 11 L234
- 93344 ORTON, R. Grower experience with mechanical harvesting on standard trellis. N. Y. State Hort. Soc. Proc. 113:271-272. 1968. 81 N484  
Grapes.
- 93345 PANARO, V. Separation of the olive from its peduncle; energy aspects. (It) Ital. Agr. 104 (4):467-478. Apr.1967. 16 It1  
Force needed in mechanical harvesting.
- 93346 PANSIERI, E., and GIROTTO, G. Mechanization problems of tomato harvesting. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.2: 393-402. 1966, pub.1968. S675.C6 1966  
English summary.

- 93347 PELLIZZI, G. Mechanised forage harvesting and storage in north of Italy. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.2:269-278. 1966, pub.1968. S675.C6 1966  
English summary.
- 93348 PERICCIOLI, M. Olive mechanical harvesting. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.2:465-470. 1966, pub.1968. S675.C6 1966  
English summary.
- 93349 PETERSEN, H. J. Usage of machinery more necessary now than ever before. (Da) Landbonyt 22(1):27-32. Jan.1968. 11 L2322  
Combines and tractors in Denmark.
- 93350 PETZALL, E. B. Sugar beet harvesting machines in Spain. (Ge) Zucker 20(5):100. Feb.15,1967. 65.8 Z82
- 93351 PRIORELLI, G., and FINASSI, A. Efficiency of threshing groups in rice combines. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.2:243-267. 1966, pub.1968. S675.C6 1966  
English summary.
- 93352 RIBADEAU-DUMAS, A. The links in harvesting forage. Innovations 1967. (Fr) Potasse 41(347):157-160. (Concl.) Sept.1967. 57.8 P84  
New machinery.
- 93353 SAUNT, J. E. Spindle picker and stripper harvester performance in New South Wales. Empire Cotton Growing Rev. 33(3):190-202. Ref. July 1967. 72.8 Em7
- 93354 SCOTTON, M. A. Times and consumptions of a combine working on a hill. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.2:81-97. Ref. 1966, pub.1968. S675.C6 1966  
English summary.
- 93355 SEABURG, R. Eight years of shaking cherries - what have we learned? Mich. State Hort. Soc. Annu. Rep. 96:45-46. 1966, pub.1967. 81 M58
- 93356 SHOWALTER, R. K. Mechanizing the harvesting and post-harvest handling of snap beans, celery and sweet corn. Fla. State Hort. Soc. Proc. 80:203-207. May 1,1968. 81 F66
- 93357 SMIRNOV, N. Proper movement of flax harvesting units. (Rus) Tekh. Sel'skom Khoz. 3:11-14. 1968. 58.8 M11
- 93358 STEFANELLI, G. Mechanization of harvesting operations of agricultural products. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.2:5-51. 1966, pub.1968. S675.C6 1966
- 93359 TAWARA, T., AI, F., and SUDŌ, M. Fundamental studies on the leaf-picking machine for mulberry. 2. Pulling force of a shoot detachment. (Ja) J. Sericult. Sci. Jap. 37(1):6-12. Feb.1968. 425.9 Se6  
English summary.
- 93360 THIENES, J. Sweet cherry mechanical harvesting looks good in Oregon and Michigan. N. Y. State Hort. Soc. Proc. 113:121-127. 1968. 81 N484
- 93361 TOWSON, A. L. Mechanical harvesting of grapes. Wash. State Hort. Ass. Proc. Dec.5-7,1966:199-200. 81 W273
- 93362 VODROS, M. A useful harvesting aid; the grape chute. (Hu) Kertesz. Szolesz. 16(18):8-9. Sept.1967. 80 K474
- 93363 WHITNEY, L. F., MARSHALL, D. W., and LORD, W. J. A mechanical harvesting aid for McIntosh apples. Mass. Fruit Growers' Ass. Rep. 73:70-74. 1967. 81 M384
- 93364 WU, C. P. Studies on rice harvester. (Ch) Taiwan Agr. Res. J. 16(1):91-97. Mar.1967. 22.5 Ag823  
English summary.
- 93365 ZANNA, L. The distribution of inertia forces in the reciprocating mechanisms transmitting motion to the cutter bar of a combine. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.2:105-151. 1966, pub.1968. S675.C6 1966  
English summary.
- 93366 ZHALNIN, E. V. The determination of parameters of the rotary straw rack with flat-parallel motion of slats. (Rus) Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina. Dokl. 6:41-43. June 1967. 20 Ak1  
Rice harvesting equipment.

### Land Clearing Equipment

- 93367 CELANI, S. The lay-out of land, subject to irrigation, is a public work of land reclamation. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.1:69-66. 1966, pub.1967. S675.C6 1966  
English summary.  
Land leveling and preparation.
- 93368 PETLAKH, YA. Scrub controlling techniques. (Rus) Tekh. Sel'skom Khoz. 3:31-34. 1968. 58.8 M11  
Equipment chiefly.
- 93369 SIKKA, S. M. Preparing land for new irrigation. Indian Farming 17(10):15-20. Jan.1968. 22 In283  
Land leveling and leveling equipment.

### Processing Equipment Used on the Farm

- 93370 BRATEIKO, P. A roughage cooker of improved design. (Rus) Tekh. Sel'skom Khoz. 3:24-25. 1968. 58.8 M11
- 93371 CHUMA, Y., KATO, H., and WATANABE, K. The effect of the process of citrus sorting machine on the preserving performance of citrus unshu. (Ja) Soc. Agr. Mach. Jap. J. 29(3):143-148. Dec.1967. 58.9 So1  
English summary.
- 93372 CHUMA, Y., MURATA, S., and MATSUOKA, T. Studies on the vacuum cooling of fresh farm products. (Ja) Soc. Agr. Mach. Jap. J. 29(3):149-154. Ref. Dec.1967. 58.9 So1  
English summary.  
In relation to equipment.
- 93373 COATES, R. M. Harvest time flotation method to grade, size, and refill bulk bins. N. Y. State Hort. Soc. Proc. 113:179-181. 1968. 81 N484  
For apples.
- 93374 DAVID, L., and others. The method of drying hay with forced air. (Fr) Potasse 41(346):129-136. July/Aug.1967. 57.8 P84  
J. Karcher, J. Ramon, G. du Rusquec, J.-P. Sailliot, joint authors.
- 93375 GALLEN, M. V. D., and GERLSMA, A. Bunker ensiling. (Du) Neth. Prov. Dir. Rijkslandbouw-voorlichting Friesland. Voorlichting Onderz. Grasland Veehouderij 1965:50-53. 1966. SF15.N4A3
- 93376 GALLEN, M. V. D. Ensiling in a tower cover. (Du) Neth. Prov. Dir. Rijkslandbouwvoorlichting Friesland. Voorlichting Onderz. Grasland Veehouderij 1965:54-58. 1966. SF15.N4A3  
Cover of plastic.
- 93377 GERLSMA, T. Covering of trench silage. (Du) Neth. Prov. Dir. Rijkslandbouwvoorlichting Friesland. Voorlichting Onderz. Grasland Veehouderij 1965:48-49. 1966. SF15.N4A3  
Use of plastic.
- 93378 GIUNTOLI, V. The most recent progress of olive processing machines. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.2:481-494. 1966, pub.1968. S675.C6 1966  
English summary.
- 93379 HALLEN, L. Operate the cold air drier properly. (Sw) Hallands Lans Hushallningssallsk. Tidskr. 5:22. Sept.1967. 11 H152  
Grain driers in Sweden.
- 93380 HAN, S. K., KIM, S. R., and SON, R. Y. Performance tests of seed and grain cleaner. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(6):29-33. Sept.1967. 22.5 K643  
English summary.



- 93381 JONG, W. P. DE. Farm cooling tanks on the march. (Du) CMC (Coop. Melk Cent.) Melk 25: 515,517,519. Mar.9,1968. 44.8 C11
- 93382 KHRISTOV, M. New methods of processing of hay, rich in vitamins and of high nutritive value. (Bu) Zhivotnovudstvo 21(5):13-16. May 1967. 49 Z62  
Equipment.
- 93383 KRAUSP, V. R., and TITS, Z. L. Automation of grain cleaning and grading equipment. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 5:88-92. May 1967. 20 V633  
English summary.
- 93384 MAZARD, M. The economic aspect of drying hay in the barn. (Fr) Potasse 41(346):137-140. July/Aug.1967. 57.8 P84
- 93385 MONTAGU, G. Drying hay in the barn. (Fr) Potasse 41(346):123-127. July/Aug.1967. 57.8 P84  
Hay drying equipment.
- 93386 NIYÁZOV, M. I., EROFEEVA, O. B., and SUETIN, YU. I. Hydrodynamics of an air nozzle in cotton drying equipment. (Rus) Akad. Nauk Uzb. SSR. Dokl. 8:27-29. 1967. 511 Uz1
- 93387 TAWARA, T., and others. Studies on the physical properties of rice plant. (Ja) Soc. Agr. Mach. Jap. J. 29(3):137-142. Dec.1967. 58.9 Sol  
F. Ai, M. Sudo, N. Watanabe, and H. Shimoda, joint authors.  
English summary.  
In relation to milling equipment design.
- 93388 WEINMANN, E., and MEYER, H. Demonstration of machines used in sugar beet processing and ploughing at the Rotkreuzhof in Wuerzburg. (Ge) Zuckerrube 16(6):14-18. Dec.1967. 66.8 Z82
- 93389 WESTON, L. H. Fan drying of hay. New Zeal. J. Agr. 114(3):20-25. Mar.1967. 23 N48J
- 93390 WETTERBLAD, B. Less work with roughage. (Sw) Vastmanlands Lans Hushallningssallsk. Tidskr. 1:24-28. 1967. 11 V44T  
Silos, silage preparation equipment, and hay driers in Sweden.
- 93391 YOUNG, J. D. Modern methods of grain drying and storage. Chartered Land Agents Soc. J. 67:156-163. Apr.1968. 282.9 L22
- 93392 ZIMMER, E. The influence of the mechanical preparation on the suitability of forage crops for silage making. (Ge) Grundlagen Landtech. 17(6):197-202. Ref. 1967. 58.8 G92  
English summary on content page.

#### Repair, Maintenance, and Construction Equipment

- 93393 ACHILLES, S. Clamp Silos made of reinforced concrete. (Ge) Bauen Landwirt. 4(6):114-116. Nov./Dec.1967. 296.8 B324
- 93394 BOTOV, D. Manure handling methods on the farms in the German Democratic Republic. (Rus) Tekh. Sel'skom Khoz. 3:88-89. 1968. 58.8 M11
- 93395 DRICOT, C. Mechanization chronicle—the maintenance of agricultural equipment. (Fr) Fruit Belg. 36(317):29-32. Jan.1968. 80 F9493
- 93396 FITZE, A. Rational manure removal experiments in old dairy cattle stalls. (Ge) Tierzucht 21(6):291-295. June 1967. 49 T443
- 93397 FORSYTH, R. J. Sluice-gate design. Farm Buildings Ass. J. 11:102-103. Dec.1967. 296.9 F22  
For manure disposal systems.
- 93398 MOLBERT, H. Help yourself in the house and on the farm [Hilf dir Selbst in Haus und Hof]. (Ge) Ausbildung Beratung Land- Hauswirtsch. 21(1,spec.sup.):14-16. 1968. 18 N11  
Name of a working alliance composed of various organizations whose purpose is to promote education for artisan and mechanical work through instruction sheets.
- 93399 PANES, D., and KULIK, J. The operational and technological solution of the removal of manures of the cattle under confined housing. (Cz) Vystavba Soc. Vesn. 4:84-87. 1966. 296.8 Z4
- 93400 PEACH, L. S. Electric welding on the farm. Farm Mech. 20(222):41-43. Feb.1968. 58.8 B772
- 93401 POELMA, H. R. Manure removal by flush-out system in laying houses. Farm Buildings Ass. J. 11:140-141. Dec.1967. 296.9 F22  
Netherlands.
- 93402 POPHAM, J. H. Report on slurry lagoon. Farm Buildings Ass. J. 11:101. Dec.1967. 296.9 F22
- 93403 ROMANELLO, G. The lubrication of motors. (It) Esso Agr. 16(4):16-17. Aug.1967. 58.8 Es7
- 93404 SALLVIC, K. Which manure removal to choose? (Sw) Lantmannen 78(23):14-15. Nov.11,1967. 11 L234

#### Spraying and Dusting Equipment

- 93405 CHLADEK, Z. Equipment for the treatment of seeds with liquid preparations. (Cz) Agrochemia [Bratislava] 8(2):55-59. 1968. 385 Ag88  
English summary.
- 93406 DUNSKII, V. F., and NIKITIN, N. V. The workbench for testing spray nozzles. 14 p. Transl. 16775  
Translation from Traktory i Sel'khoz mashiny 3:66-67. 1967.
- 93407 FISHER, J. L. Equipment design and maintenance, keys to successful application. Southern Weed Conf. Proc. 21:263-264. 1968. 79.9 So8
- 93408 FRENCH, G. W. Dust applicator. Potato Handbook 12:34-37. 1967. 75.8 P842P  
In seed potato treatment.
- 93409 HAN, S. K., KIM, S. R., and KOH, H. K. Study on the speed nozzle of power sprayer. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(6):13-19. Ref. Sept.1967. 22.5 K843  
English summary.
- 93410 HASTEN W. H. Using track-mounted vehicles for railroad vegetation control. Southern Weed Conf. Proc. 21:259-262. 1968. 79.9 So8
- 93411 HINDIN, E., MAY, D. S., and DUNSTAN, G. H. Distribution of insecticides sprayed by airplane on an irrigated corn plot. Advances Chem. Ser. 60:132-145. Ref. 1966. 381 Ad93
- 93412 HOLTIES, H., and ZIJLSTRA, J. Amateur or professional spraying? (Du) Neth. Provinc. Dir. Rijkslandbouwvoorlichting Friesland, Voorlichting Onderz. 1966:72-75. SB183.N4A3  
Urges the farmer to consider doing his own spraying; includes advice on equipment.
- 93413 JOUFFRAY, V. M. Selecting and operating spray equipment. Tex. Turfgrass Conf. Proc. 22:47-51. Dec.1967. 60.19 T31
- 93414 KOGANOV, A., and VYALYKH, V. Flame cultivators on the fields. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 9:36. Sept.1967. 281.8 Se4  
Weed control equipment.
- 93415 KOPRIVA, J. Desikace zemedelskych plodin [Defoliation of field crops]. (Cz) Zajmova Aktual. Listovka MZLH 10,16 p. 1966. S16.C95Z3  
Equipment.
- 93416 KRESTENSEN, E. R., and GRAHAM, C. Control of apple and peach pests with concentrate sprayers. Mass. Fruit Growers' Ass. Rep. 73:78-82. 1967. 81 M384  
In Maryland.
- 93417 LOPEZ, J., CHICCO, G., and SANZ, O. Logarithmic sprayer for application of chemical products. (Sp) Jornadas Agron. Mem., 6th Conf., v.1, paper 25,17 p. 1966. S211.J6 1966

- 93418 MCCONKEY, T. W. Light-weight extension tubes for compressed-air garden sprayers. U. S. Forest Serv. Res. Note NE-73,8 p. 1967. A99.9 F7622U  
Trees.
- 93419 RICHARDS, P. V. M. Herbicide research spraying equipment. PANS (Pest Articles News Sum.) Sec. C Weed Contr. 13(4):320-324. Dec.1967. 79.9 G792
- 93420 TATE, R. W. Conventional spray application and influence of nozzle design on droplet size. Southern Weed Conf. Proc. 21:25-31. 1968. 79.9 So8
- 93421 UMEDA, S., and MORI, K. Studies on the pumping of power sprayer. I. Static characteristics of valve in low pressure. (Ja) Soc. Agr. Mach. Jap. J. 29(3):132-136. Dec.1967. 58.9 So1  
English summary.
- 93422 VELETSKII, I. N., and FANFARONI, F. I. Dosing device for spraying economic poisons on experimental plots. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 5:108-109. May 1967. 20 V633
- 93423 WARDLE, G. J. F. Herbicide application - a new approach. S. Afr. Sugar Technol. Ass. Proc. 1967:213-218. 65.9 So83
- Vehicles**
- 93424 BAILLIE, W. F., and VASEY, G. H. Eight medium tractors compared. Farm Mech. 20(222):21-22. Feb.1968. 58.8 B772  
In Australia.
- 93425 BAILLIE, W. F., and VASEY, G. H. Tractor tests; eight tractors in the 35-45 HP class. 1. West. Australia. Dep. Agr. J. (ser.4)8(11):477-478,481-482. Nov.1967. 23 W52J
- 93426 BAKER, C. J. Pressure control on your tractor is there to be used. New Zeal. J. Agr. 114(3):57,59,61. Mar.1967. 23 N48J
- 93427 CHEREMISNOV, A., and OVCHINNIKOV, V. Using tractor park efficiently. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 4:36-37. Apr. 1967. 281.8 Se4
- 93428 COSOLO, S. Importance of some crop transportation in agriculture. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv.,v2:507-515. 1966, pub.1968. S675.C6 1966  
English summary.
- 93429 DOMIER, K. W., and PERSSON, S. P. E. Traction performance characteristics of 13.6-28 tires on agricultural soils. Can. Agr. Eng. 9(2):121-124. July 1967. 58.8 C164  
Tractors.
- 93430 FLERLAGE, B. Some important factors as to the trends of development in the construction and outfitting of tractors. (Ge) Landmasch.-Rundsch. 19(11):314-318. Nov.1967. 58.8 L237
- 93431 FRANKE, R., and STIMMING, R. Growing demands on tractor hydraulics. (Ge) Landtech. Forsch. 17(5):125-128. 1967. 58.8 L2332  
English summary.
- 93432 HORVATH, L. Maintenance of tires. (Hu) Magyar Mezogazdasag 22(13):10. Mar.29,1967. 19 M27
- 93433 ISERMEYER, H. G. Aircraft—the stepchild of German agriculture. (Ge) Lohnunternehmen Land-Forstwirtschaft. 23(3):60-62. 1968. 58.8 D81
- 93434 ISHIHARA, A., and others. Studies of the running performance of farm vehicles under condition of paved farm road. (Ja) Soc. Agr. Mach. Jap. J. 29(3):128-131,136. Dec.1967. 58.9 So1  
H. Higuchi, Y. Nishikawa, M. Tsuge, and S. Watanabe, joint authors.  
English summary.
- 93435 KAHRS, M. Losses and efficiency of mechanical and hydrostatic transmission for farm tractors and self-propelled farm machinery. (Ge) Grundlagen Landtech. 17(6):215-224. Ref. 1967. 58.8 G92  
English summary on content page.
- 93436 LONG, M. E. Sights, sounds, smells often give advanced warnings of trouble. World Farming 9(2):24-25. Feb.1967. 30.08 W89  
Of tractors.
- 93437 MASUDA, S., TANAKA, T., and OIDA, A. Study of the traction of the farm tractors based on soil shear strength on the paddy fields. (Ja) Soc. Agr. Mach. Jap. J. 29(3):119-127. Ref. Dec.1967. 58.9 So1  
English summary.
- 93438 MONIN, M. A. Economic and agronomic aspects of mechanization. (Fr) Fruit Belg. 35(314):283-288. Oct.1967. 80 F9493  
Tractors in fruit growing.
- 93439 NORDSTROM, O. Increasing tractor noise demands immediate construction modifications. (Sw) Jord Skog 7/8:36-37. 1967. 58.8 M373
- 93440 PELVA, A. Replacement and enlargement of tractive power in agriculture. I. (Hu) Statist. Szemle 45(10):947-965. Oct.1967. 266.5 St2M
- 93441 PETERSEN, R. The correlation of cost of tractor, income demand and estimated returns. (Ge) Landmasch.-Markt 46(26):14-16. Dec.20,1967. 58.8 L239  
Income demand is the tractor driver's salary.
- 93442 RITCHIE, W. Don't overfuel a diesel tractor. Doanes Agr. Rep. 31(5):20-21. Feb.1968. 281.8 D652  
Hazards of field modifications of engine parts.
- 93443 ROSSINI, R. Considering the mechanization development in Sicily. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv.,v2:53-60. 1966,pub. 1968. S675.C6 1966  
English summary.  
Inventory of tractors and self-propelled implements.
- 93444 SEVARLIC, M. Researching the optimal organization of transport in case of spraying orchards and vineyards using the method of linear programming. (Se) Poljopr. Teh. 5(1/2):9-12. 1967. S671.P6  
English summary.  
In Yugoslavia.
- 93445 SHEVTSOV, P., and SHVEDOV, N. The most suitable operational régime of hydraulic equipment. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 9:38. Sept.1967. 281.8 Se4  
On agricultural tractor.
- 93446 SHPILEV, YU. New equipment for fruit farmers. (Rus) Sadovodstvo [Moscow] 10:22. Oct. 1967. 80 Sa13  
Tractors.
- 93447 SHUKLA, L. N. The effects of ballast on the springiness of tractor tires. Can. Agr. Eng. 9(2):93-94,108. July 1967. 58.8 C164
- 93448 SMITH, D. W. How safe are your tractors? Arable Farmer 5(1):14-15. Mar.1967. S3.A7
- 93449 SYMES, O. L. Hydraulic horsepower. Sask. Farm Sci. 15(1):2. Feb.1968. 275.28 Sa7  
Tractors.
- 93450 TANABE, H., NAKAO, S., and IWAO, T. On the drawbar pull of the tractor having the deflection angle in the direction of travel. (Ja) Shimane Agr. Coll. Bull. 15(A-4):32-38. Jan. 1968. S539.J3S5  
English summary.
- 93451 WENDEBORN, J. O. Velocity staging of tractors. (Ge) Landtech. Forsch. 17(5):129-134. Ref. 1967. 58.8 L2332  
English summary.
- 93452 ZAREMBA, W. Types of tractors used on state-owned farms. (Pol) Nowe Roln. 16(1):13-17. 1967. 20.5 N86  
In Poland.



- 93453 ZOERB, G. C., and POPOFF, J. Direct indication of tractor-wheel slip. (Can. Agr. Eng. 9(2):91-92,108. July 1967. 58.8 C164

#### FARM STRUCTURES AND RURAL HOUSING

- 93454 ANEMA, P. The farm is no longer the farm. (Du) Neth. Dir. Landbouw. Landbouwvoorlichting 24(12):416-424. Dec.1967. 12 N383M Farm buildings.
- 93455 BROAD, P. Farm Buildings Centre. Farm Buildings Ass. J. 11:78-79. Dec.1967. 296.9 F22
- 93456 DEBRUYCKERE, M. Farm buildings research in Belgium. Farm Buildings Ass. J. 11:144-145. Dec.1967. 296.9 F22
- 93457 GJERDE, I. Jordbrukets driftsbygninger; utviklingen i plantosning og materialvalg 1953-63. Farm buildings; the evolution in planning and the choice of materials 1953-63. Norges Landbrukshogsk. Inst. Bygningstek. Meld. 43,27 p. 1967. 49.9 N76M English summary.
- 93458 HAEGGBLOM, S. Where to get information about how to build? (Sw) Lantmannen 78(23):32. Nov.11,1967. 11 L234
- 93459 HAN, S. K., and others. Studies on the use of solar energy. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(6):55-62. Sept.1968. 22.5 K843  
W. D. Han, K. D. Cha, and D. H. Jung, joint authors.  
English summary.  
In relation to building construction.
- 93460 HANSEN, J. Serial construction on an 80 acre lot. (Ge) Bauen Landwirt. 4(6):111-114. Nov./Dec.1967. 296.8 B324
- 93461 IRLBEKOVA, E. Application of effective methods in the construction of additional buildings on farms. (Cz) Vystavba Soc. Vesn. 10:234-238. 1966. 296.8 Z4
- 93462 KOSATKA, B. Competition in the reduction of construction costs of agricultural buildings in the German Democratic Republic. (Cz) Vystavba Soc. Vesn. 5:117-119. 1966. 296.8 Z4
- 93463 LANE, D. C. Observations on the insulation of farm buildings. Farm Buildings Ass. J. 11:110-115. Dec.1967. 296.9 F22
- 93464 LANGER, A. Farm construction in Gdansk region. (Pol) Budownictwo Wiejskie 19(18):25-26. Sept.1967. 296.8 B85
- 93465 LONG, D. Steel sheet revolution. Farm Mech. 20(221):18-19. Jan.1968. 58.8 B772 Roofing in Great Britain.
- 93466 OTTO, F. K. Turning room and passageway measures for tractors and big machines. (Ge) Tierzuchter 20(1):20. Jan.5,1968. 49 T445
- 93467 PANES, D., and SADILEK, V. Results of the contest for the best layout in remodeling and adding new buildings on farms. (Cz) Vystavba Soc. Vesn. 10:227-234. 1966. 296.8 Z4
- 93468 PERUN, D. Remarks on the rural building question. (Pol) Nowe Roln. 16(1):10-12. 1967. 20.5 N86
- 93469 QUINTIERI, M. New trends in rural building and its equipment. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.1:339-349. 1966, pub. 1967. S675.C6 1966  
English summary.
- 93470 RICCI, C. New trends in rural building and roads. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.1:307-327. 1966, pub. 1967. S675.C6 1966
- 93471 ROSZKOWSKA, K. Inspection of farm structures. (Pol) Budownictwo Wiejskie 19(11):7-8. Nov.1967. 296.8 B85

- 93472 SERGIEJ, A. Minor mechanization for assembly jobs. (Pol) Budownictwo Wiejskie 19(11):14-15. Nov.1967. 296.8 B85  
In building construction.
- 93473 SKALUBA, M. Project methods for building separate parts of farmhouses. (Pol) Budownictwo Wiejskie 19(9):12. Sept.1967. 296.8 B85
- 93474 SKORSKI, A. The pros and cons of economical building foundations. (Pol) Budownictwo Wiejskie 19(9):21-22. Sept.1967. 296.8 B85

#### Animal Shelters and Animal Service Buildings

- 93475 AIBARA, Y. Researches on the environmental control for the windowless poultry house from the viewpoint of farm structure. (Ja) Ehime Univ. Mem. Sect. VI, Agr. 7(1), 60 p. Ref. Mar.1967. 107.6 Eh33  
English summary.
- 93476 ALLOTT, D. J. Housing the expanding dairy herd: design considerations. Farm Bldg. Dig. 12:B3-B8. Ref. Sept.1967. 241.4 F22  
In Great Britain.
- 93477 BACKSTROM, L. Hygiene and environment in shelter for sows and piglets. Part 2. (Sw) Svinskotsel 57:321-327. Oct.1967. 46.9 Sv2  
In Sweden.
- 93478 BELOUC, N. The geodesics in the construction of poultry factories. (Rus) Sel'skoe Stroitel'stvo 3:13. Mar.1968. 296.28 Se4
- 93479 BELOV, YU. Electrically heated floors in chicks houses. (Rus) Tekh. Sel'skom Khoz. 3:38-39. 1968. 58.8 M11
- 93480 BEVAN, R. Building for the large herd on the continent. Farm Bldg. Dig. 12:B20-B25. Sept.1967. 241.4 F22  
Dairy cattle housing in France.
- 93481 BLENDI, H. M. Problems with slatted floors for swine. (Ge) Tierzuchter 19(23):813-814. Dec.5,1967. 49 T445
- 93482 BORUP, J. Ventilation of the barn. (Da) Landbonyt 22(2):73-78,80. Feb.1968. 11 L2322
- 93483 BRUN, O. How the Swedes house their pigs. Pig Farming 16(3):43,45. Mar.1968. 46.8 P623
- 93484 BUREAU DE LA NUTRITION ANIMALE ET DE L'ELEVAGE. Logettes individuelles pour vaches laitières [Individual stalls for dairy cattle]. Bur. Nutr. Anim. Rapp. B577,4 p. Oct.1967. 389.79 B89
- 93485 BURKGART, M., HORNEBER, F., and MITT-RACH, B. Experiences and results from usage of slatted flooring for fattening of lambs. (Ge) Bayer. Landwirt. Jahrbuch 44(5):558-562. 1967. 18 L24
- 93486 CLOUGH, P. A., and QUICK, A. J. Work routines in herringbone milking parlours. Farm Buildings Ass. J. 11:115-123. Ref. Dec.1967. 296.9 F22  
Great Britain.
- 93487 DOBRZANSKI, W. The correct way of building isolation layers in livestock houses. (Pol) Budownictwo Wiejskie 19(11):22-23. Nov.1967. 296.8 B85
- 93488 FIEDLER, E. Considerations regarding the construction of modern swine breeding stalls. (Ge) Mitt. Deut. Landwirt.-Ges. 82(49):1615-1617. Dec.7,1967. 18 N39  
In Germany
- 93489 FORSYTH, R. J. The Howie "crate-in-pen" system. Farm Buildings Ass. J. 11:104-105. Dec.1967. 296.9 F22  
Farrowing stall, designed in Great Britain.
- 93490 FOURNARAKI, A., and ZERT, P. Le logement du porc [Swine housing]. Paris, Institut technique du porc, 1966? 79 p. TH4911.F6
- 93491 FRANEK, B. Solving the problem of controlled environment and slatted flooring in poultry housing. (Cz) Prague. Vyzk. Ustav Zemed. Vestn. 13(6):291-292. 1966. 19.5 C333

- 93492 GADD, J. How to house a pig for £5. Pig Farming 16(2):41-43. Feb.1968. 46.8 P623  
In England; designs included.
- 93493 GADD, J. It's simple to build this fattening house. Pig Farming 16(3):39-41. Mar.1968. 46.8 P623
- 93494 GARDIO, L. Electrically heated floors in pigpens. (Sw) Joel 2:6-7. 1967. 335.8 J59
- 93495 GIORNATA AGRICOLA, 4, PORDENONE, 1966. Technical and economic aspects of loose stalls; acts of the congress held at the XXth National Sample Fair Friuli-Venezia Giulia. (It) Udine. Cam. Commer. Indus. Artigianato Agr. Boll. Uffic. (n.s.) 20(12):61-81. Dec.1966. 287 Ud5  
Cattle.
- 93496 GUSMAN, A. The use of slatted floor in animal husbandry constructions. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.1:391-419. 1966, pub.1967. S675.C6 1966  
English summary.  
For cattle and swine houses.
- 93497 GUSTAFSSON, B. Will there be more or less newly constructed animal shelters? (Sw) Lantmannen 78(23):29-31. Nov.11,1967. 11 L234
- 93498 HAISMA, T. Two modern farms. (Du) Neth. Prov. Dir. Rijkslandbouwvoorlichting Friesland. Voorlichting Onderz. Grasland Veehouderij 1965:90-93. 1966. SF15.N4A3  
Design for service buildings.
- 93499 HARVEY, C. N. Research affecting farm buildings. Farm Buildings Ass. J. 11:99-100. Dec.1967. 296.9 F22  
In Great Britain.
- 93500 HAUPTMAN, J. Basis for the solution of microclimate in cattle housing. (Cz) Vystavba Soc. Vesn. 7(2):37-39. 1968. 296.8 Z4
- 93501 HJULSTAD, O. Factors that influence costs of farm buildings in Norway. Farm Buildings Ass. J. 11:134-135. Dec.1967. 296.9 F22  
Buildings for cattle, swine & poultry.
- 93502 HJULSTAD, O. Observations from an America trip. (No) Norsk Landbruk 12(1):26-27. Jan. 1968. 11 N8122  
Modern swine house in Iowa.
- 93503 HOGSVED, O., and EHN, G. Construction economy and animal health in shelters for dairy cattle. (Sw) Lantmannen 78(23):26-28. Nov.11, 1967. 11 L234
- 93504 HOLMQUIST, N. Report on some major observations in 1966/1967 on farm buildings in Sweden. Farm Buildings Ass. J. 11:147-148. Dec.1967. 296.9 F22  
Livestock housing.
- 93505 HOLMQUIST, N. Restore or build new. (Sw) Lantmannen 78(23):8-10. Nov.11,1967. 11 L234
- 93506 HOLMQUIST, N. What is the cost of building a new loose housing barn? (Sw) Joel 1:3-6. 1967. 335.8 J59
- 93507 HUBINSKY, J. Industrialization of the raising of cattle and of the production of milk. (Cz) Vystavba Soc. Vesn. 11:252-256. 1966. 296.8 Z4  
Chiefly construction of housing and silos on cattle farms.
- 93508 IRLBEKOVA, E. Initiative in the poultry housing. (Cz) Vystavba Soc. Vesn. 11:260-263. 1966. 296.8 Z4  
Prefabricated housing.
- 93509 JANSSON, I. Foundation and floor of the animal shelters. (Sw) Lantmannen 78(23):16-17. Nov.11,1967. 11 L234
- 93510 JUNG, H. R. Report from the Danish National Institute of Building Research [Statens Byggeforskningsinstitut] for the financial year 1966/67. Farm Buildings Ass. J. 11:145-146. Dec.1967. 296.9 F22  
Especially livestock housing.
- 93511 KACZMARSKI, Z., and KORAL, A. Mechanized ventilation for barns. (Pol) Budownictwo Wiejskie 19(10):25. Oct.1967. 296.8 B85
- 93512 KHRISTOV, V. An interesting cattle barn. (Bu) Zhivotnovodstvo 21(5):41-43. May 1967. 49 Z62  
Constructed in Italy.
- 93513 KRAGGERUD, H. Norwegian experiments on various types of housing for slaughter pigs. Farm Buildings Ass. J. 11:135-140. Dec.1967. 296.9 F22
- 93514 LAMB, J. P. Milking sheds and techniques. Massey Univ. Dairyfarming Annu. 1967:32-37. 44.9 M382
- 93515 LAMBERIK, K., and CHAROUZA, M. How to design the house for farrowing swine in the case of weaning system of baby pigs. (Cz) Vystavba Soc. Vesn. 4:81-82. 1966. 296.8 Z4
- 93516 LAMBERIK, K., and CHAROUZA, M. New trends in the design of swine feeding houses. (Cz) Vystavba Soc. Vesn. 9:218-220. 1966. 296.8 Z4
- 93517 LANGER, A. The requirements of a good barn climate. (Ge) Chem. Tech. Landwirt. 18(12): 399-400. (Cont.) Dec.1967. 384 C4292  
Ventilation.
- 93518 LEBEDEV, N. T., and POGREBNYAK, M. P. Loose housing system for cows on the "Tomskii" state farm. (Rus) Zhivotnovodstvo 6:19-22. June 1967. 49 Z6
- 93519 LEEGSTRA, C., and WAPSTRA, P. Housing of breeding sows. (Du) Neth. Prov. Dir. Rijkslandbouwvoorlichting Friesland. Voorlichting Onderz. Grasland Veehouderij 1965:94-97. 1966. SF15.N4A3
- 93520 LINKER, G. Facilities in farm buildings. (Du) Neth. Dir. Landbouw Verslag Landbouwkundig Onderz. Noordelijk-Groningen. 1967:84-86. 12 N38Vg  
Cattle stalls and potato storage in the Netherlands.
- 93521 LOOKER, M. Slats for farrowing? Pig Farming 16(2):22-23. Feb.1968. 46.8 P623  
In England.
- 93522 MANICKI, F., and MOLITORYS, J. When modernizing cow stand it is not enough just to shorten it. (Pol) Nowe Roln. 16(4):23-24. 1967. 20.5 N86
- 93523 MANSSON, S. O. We are estimating the yearly cost for a re-constructed service building. (Sw) Lantmannen 78(23):24-25. Nov.11,1967. 11 L234  
Reconstruction of shed for dairy cattle.
- 93524 MARTENSSON, O. Reply about sheep-sheds. (Sw) Farskotsel 48(1):30-32. Feb.1968. 45.9 Sv2  
Reader inquiries answered.
- 93525 MATUSEVICH, V. F., and NAGUCHEV, B. I. Effectiveness of the new methods of cattle housing and feeding with milk. (Rus) Zhivotnovodstvo 6:70-71. June 1967. 49 Z6
- 93526 MC KENZIE, H. M. The poor man's herringbone. Dairyfarming Dig. 15(1):28-29. Jan./Feb. 1968. 44.8 D1443  
Milking sheds.
- 93527 MCNAMARA, P. Farrowing accommodation. Dairy Notes 5(1):11-13. Jan.1968. 44.8 C1439
- 93528 MEIN, G. A., and GREEN, J. E. Modern herringbone shed design. Dairyfarming Dig. 15(1): 33-36. Jan./Feb.1968. 44.8 D1443
- 93529 MERRY, D. M. E. Useful calf-rearing shed. New Zeal. J. Agr. 114(1):65,67. Jan.1967. 23 N48J
- 93530 MICHALE, A. Feedlots with mobile troughs for 2604 swine on a state farm in Czechoslovakia. (Cz) Vystavba Soc. Vesn. 7(1):19-21. 1968. 296.8 Z4
- 93531 MURRAY, J. B. Milking sheds and techniques. Introduction. Massey Univ. Dairyfarming Annu. 1967:20-25. 44.9 M382
- 93532 MYRTVEIT, E. Demands for housing of dairy cattle and ideas for layout. (No) Buskap Avdratt 3:179,183. 1967. 49 B96



- 93533 NAPRSTEK, J. New method of the calculation of needs for new swine houses for breeding and feeding of swine. (Cz) Vystavba Soc. Vesn. 4:76-80. 1966. 296.8 Z4
- 93534 ODACHOWSKI, L. On ventilation in poultry houses. (Pol) Drobniarstwo 15(1):21-22. Jan. 1967. 47.8 P953
- 93535 ORDANINI, P. Open stalls in the Province of Milano. (It) Genio Rurale 30(2):109-121. Feb. 1967. 281.8 R522  
Loose housing system for cattle, including costs.
- 93536 ORDOLFF, D. Technique and labor management in a closure-box barn. (Ge) Tierzuchter 20(5):224-226. Apr. 1968. 49 T445  
Germany.
- 93537 OSMOLOUSKII, M. A progressive system for shelter ventilation. (Rus) Sel'skoe Stroitel'stvo 3:22-23. Mar. 1968. 296.28 Se4  
For livestock shelters.
- 93538 PIRAS, N. Prefabricated sheds for industry and agriculture. (It) Inform. Zootec. 14(23):20. Dec. 15, 1967. 49 In3  
Livestock housing.
- 93539 POILEY, S. M. An improved method for limiting the introduction or transmission of pathogens in production and research animal areas. Lab. Anim. Care 17(6):573-580. Ref. Dec. 1967. 410.9 P94
- 93540 POPHAM, J. H. New double storey piggery. Farm Buildings Ass. J. 11:108-109. Dec. 1967. 296.9 F22  
Great Britain.
- 93541 POZZETTI, F. Raising poultry in a controlled environment. (It) Inform. Zootec. 14(23):18-19. Dec. 15, 1967. 49 In3
- 93542 PROVAGLIO, G. An interesting piece of equipment for the loose housing of cattle. (It) Inform. Zootec. 14(14):12. June 1967. 49 In3  
Device for application of disinfectant.
- 93543 RICCI, C. Control of environmental conditions in piggeries. (It) Genio Rurale 30(2):135-146, map. Feb. 1967. 281.8 R522  
Temperature and humidity.
- 93544 ROERBECH, N. Climate regulation of animal sheds. (Da) Landbonyt 21(10):415-416, 418-424 (Concl.) Oct. 1967. 11 L2322  
Humidity and temperature.
- 93545 ROERBECH, N. Climate regulation of animal shelters. (Da) Landbonyt 21(9):363-364, 366, 368-372, 374-382, 384, 386-387. (Cont.) Sept. 1967. 11 L2322  
Heating, humidity, ventilation.
- 93546 SMITH, A. J., and DE WAAL, H. Lighting techniques for the domestic fowl under sub-tropical conditions. S. Afr. J. Agr. Sci. 10(2):403-410. June 1967. 24 Su3  
Southern Rhodesia.
- 93547 SONNEGARD, K. J. Duration of mink cages—problems with corrosion of netting. (Sw) Vara Palsdjur 39(1):22-23. Jan. 15, 1968. 410 V42
- 93548 SVEDINGER, S. How to build a modern milking parlor? (Sw) Lantmannen 78(23):20-22. Nov. 11, 1967. 11 L234
- 93549 TIEMERSMA, A. W. Improvement of farm-yards and farm roads with house and industrial waste. (Du) Neth. Prov. Dir. Rijkslandbouw-voorlichting Friesland. Voorlichting Onderz. Grasland Veehouderij 1965:82-84. 1966. SF15.N4A3
- 93550 TRITTON, J. H. Layout for 240 dairy cows. Farm Buildings Ass. J. 11:95-99. Dec. 1967. 296.9 F22  
Dairy cattle housing in Great Britain.
- 93551 TUIITE, P. J., and others. A comparison of houses for bacon pigs. Farm Buildings Ass. J. 11:90-95. Dec. 1967. 296.9 F22  
J. F. O'Grady, J. J. O'Brien, and E. A. Attwood, joint authors.
- 93552 U. S. AGRICULTURAL RESEARCH SERV. Laying house; cooperative farm building plan No. 5990. U. S. D. A. Misc. Publ. 1080, 2 p. May 1968. 1 Ag84M
- 93553 WALSTRA, P. Ventilation of piggens. (Du) Veeteelt Zuivelber. 10(8):384-400. Ref. Aug. 1967. 49 V51
- 93554 WIEDERMAN, G. A contribution to the solution of production and economics relations in the construction of feedlots for swine. (Cz) Vystavba Soc. Vesn. 7(4):100-102. 1968. 296.8 Z4

#### Farmhouses and Farmsteads

- 93555 ALMEIDA, E. C. Housing and underdevelopment. (Por) SUDENE (Supt. Desenvolvimento Nordeste) Bol. Econ. 11(3):69-73. Oct./Dec. 1966. HC186.A1S92  
Rural housing in Brazil.
- 93556 BOCCIANI, C. Improving the rural habitat in the districts of the Land Reform Agency for Maremma [Ente Maremma]. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.351-361. 1966, pub. 1967. S675.C6 1966  
English summary.
- 93557 BOLOCAN, A. Prefabrication of rural habitat. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.1:381-390. Ref. 1966, pub. 1967. S675.C6 1966  
English summary.
- 93558 KUCERA, J., and VONDRAČEK, I. How to solve the construction of rural housing in mountain areas. (Cz) Vystavba Soc. Vesn. 7(4):98-100. 1968. 296.8 Z4  
Includes designs.
- 93559 LEDWIG, S. Development of farmhouse construction in the Krakow district. (Pol) Budownictwo Wiejskie 19(8):11-12. Sept. 1967. 296.8 B85
- 93560 MICHAŁ, A. Results of competitive designs for houses in villages. (Cz) Vystavba Soc. Vesn. 7(4):91-95. 1968. 296.8 Z4
- 93561 PESEK, D. New designs of dwelling houses for farmers in the central Bohemia. (Cz) Vystavba Soc. Vesn. 10:239-241. 1966. 296.8 Z4
- 93562 PRATELLI, G. Some considerations on the problems of rural habitat. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.1:329-338. 1966, pub. 1967. S675.C6 1966  
English summary.
- 93563 SALVATO, J. Migrant housing on farms as seen by the State Health Department. N. Y. State Hort. Soc. Proc. 113:62-69. 1968. 81 N484
- 93564 SKALUBA, Z. M. Landzettel's concept of design. (Pol) Budownictwo Wiejskie 19(10):11-12. Oct. 1967. 296.8 B85  
In farm housing.
- 93565 SPIŠKA, I. The construction of houses in Hungarian villages. (Cz) Vystavba Soc. Vesn. 7(2):50-53. 1968. 296.8 Z4
- 93566 VACHULKA, F. The method of construction of rural houses in Sweden. (Cz) Vystavba Soc. Vesn. 7(2):43-46. 1968. 296.8 Z4  
Includes designs.
- 93567 WASHINGTON STATE UNIVERSITY EXTENSION SERV. Plan a better house; publications available. Wash. State Univ. Ext. E. M. 2385, rev., 3 p. Feb. 1968. 275.29 W27Mi

#### Greenhouses and Plant Service Buildings

- 93568 BUCŁON, F. Development of plastic mulches, coverings, and greenhouses in French agriculture. (Fr) Rev. Agr. France 70:5-7, 9-10. Feb. 1968. 14 R326
- 93569 BUSINGER, J. A. The glasshouse (greenhouse) climate. In Wijk, W. R. van, ed. Physics of plant environment, ed. 2, p. 277-318. 1966. S589.W5 1966  
Heat and ventilation.

- 93570 EVANS, S. F. "A Florida garden room addition" for your home. Fla. Univ. Ext. Circ. 329, 12 p. June 1968. 275.29 F66C  
Greenhouse construction for tropical ornamentals.
- 93571 KRYLOV, D. Experience with electric heating in hotbeds. (Rus) Tekh. Sei'skom Khoz. 3: 37-38. 1968. 58.8 M11
- 93572 KUNZE, A., and others. A soil mixer for simplified mixing in the preparation of pot cultures. (Ge) Albrecht-Thaer-Arch. 11(9): 835-838. 1967. 18 AL1  
R. Ebeling, I. Wolschner, W. Bergmann, joint authors.  
English summary.
- 93573 MAGAGNOTTI, P. Skyscrapers for plants. (It) Terra Trentina 14(2):90-94. Feb. 1968. 16 T277  
Tower greenhouse in an experimental garden in Vienna.
- 93574 MERRY, D. M. E. Home seed frame and glass-house. New Zeal. J. Agr. 114(3):63. Mar. 1967. 23 N48J
- 93575 POLSPOEL, A. A portable witloof shed. (Fl) Tuinbouwberichten 31(11):380-383. Nov. 1967. 80 T817
- 93576 REZNIK, E. Using asphalt-concrete blocks for heating of greenhouses. (Rus) Tekh. Sel'skom Khoz. 3:40-41. 1968. 58.8 M11
- 93577 SEEMANN, G. Climate control in greenhouses. (Ge) Tech. Gartenbau 10:1-2. Oct. 1967. 80 T223  
Temperature, humidity, and light.
- 93578 SEKANOV, YU. Automatic illumination of seedlings in the greenhouses. (Rus) Tekh. Sel'skom Khoz. 3:35-37. 1968. 58.8 M11  
With special lamps for vegetables.
- 93579 TSEKLEEV, G. Study on the temperature regime in polyethylene greenhouses. (Bu) Gradinar. Lozar. Nauk. 4(7):75-89. 1967. 87 G75  
English summary.
- 93580 UZUNOVSKI, M. Types of hotbeds for tobacco seedlings. (Se) Sovremeno Zemjod. 13(1):7-8. Jan. 1966. S13.S6
- 93581 WEISS, W. The tower greenhouse in practice. (Ge) Landesverband Gartenbau Landwirt. Berlin Mitteilungsbl. 18(12):12-13. Dec. 1967. 85 L233
- Materials and Methods
- 93582 GILDEN, R. O. Letter from America. Farm Buildings Ass. J. 11:146-147. Dec. 1967. 296.9 F22  
Concrete wall panels.
- 93583 GIRDLESTONE, P. C. Should structural steel-work be galvanised? Farm Buildings Ass. J. 11:100-101. Dec. 1967. 296.9 F22  
Costs in Great Britain.
- 93584 LONG, D. Silica-asbestos building panels. Farm Mech. 20(222):32-33. Feb. 1968. 58.8 B772
- 93585 NOVAK, L., and RYDLOVA, I. Steel construction materials in agriculture abroad. (Cz) Vystavba Soc. Vesn. 7(2):46-50. 1968. 296.8 Z4
- 93586 PLESSNER, H. Making use of raw materials from local sources. (Pol) Budownictwo Wiejskie 19(8):5-6. Sept. 1967. 296.8 B85  
Building construction in Poland.
- 93587 PLESSNER, H. The use of local materials for finishing works. (Pol) Budownictwo Wiejskie 19(11):15-16, 19. Nov. 1967. 296.8 B85  
Building construction in Poland.
- Storage Structures
- 93588 APELAND, J. Storage room and storage of vegetables. (No) Gartneryrket 43(57):908-909. Oct. 27, 1967. 80 G1938
- 93589 BJERKESTRAND, E. Arrangement of plant storage room. (No) Gartneryrket 43(57):916, 918, 921. Oct. 27, 1967. 80 G1938
- 93590 BLANK, H. G. Developments in storage structure construction and technique. (Ge) Obstbauversuchsring Alten Landes. Mitt. 22(2):52-70. Feb. 1967. 85 J76  
Fruit storage.
- 93591 CALI, S. Considering forage silos. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.1: 421-439. Ref. 1966, pub. 1967. S675.C6 1966  
English summary.  
Tower and trench silos.
- 93592 CANDURA, A. Steel-mesh silos for grain. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.1: 441-465. Ref. 1966, pub. 1967. S675.C6 1966  
English summary.
- 93593 CHOI, D. H., YOON, I. H., and MIN, B. Y. Studies on the fruit and vegetable preservation in the earth-block constructed storage of above ground type. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. 10(6):35-48. Ref. Sept. 1967. 22.5 K843  
English summary.
- 93594 COOPER, G. No-laterals floor storeholds 40% more grain. Arable Farmer 5(1):28-29, 31. Mar. 1967. S3.A7  
In Great Britain.
- 93595 GRAEE, T. Folding silo-hood made of polystyrene foam plastic. (No) Norsk Landbruk 12(1):4-6. Jan. 1968. 11 N8122
- 93596 HEINIGER, A. Suitability of open and closed water presses as silo seals. (Ge) Grune 96(13):443-446. Mar. 29, 1968. 17 Sch9
- 93597 HOHLS, G. Large sorting plant for potatoes belonging to the United Seed Producers of Ebbsford [Vereinigte Saatzuchter]. (Ge) Kartoffelbau 18(2):36-38. Feb. 1967. 75.8 K145
- 93598 KOELLING, M. R. A portable field shelter. U. S. Forest Serv. Res. Note NE-70, 4 p. 1967. A99.9 F7622U  
Equipment for experiments.
- 93599 KUKTA, H. M., and KOVRYHA, V. V. Determination of storage capacity for root crops in sections for preparation of fodder. (Uk) Visn. Sil's'kohospod. Nauk. 1:23-29. Jan. 1967. 20 V82  
Russian summary.
- 93600 LEWANDOWSKI, C. How to safeguard silos from water? (Pol) Budownictwo Wiejskie 19(10):16-17. Oct. 1967. 296.8 B85  
Prefabricated concrete silos.
- 93601 PAZZI, J. J. O. Storing silage in stacks. Farming S. Afr. 42(10):42-44. Jan. 1967. 24 S0842
- 93602 POMROY, J. H. Haylage in concrete silos. Minn. Sci. 24(2):4-6. Winter 1968. 100 M668
- 93603 PREPLAK, E. The storage of grain feeds in metal feed bunks. (Cz) Vystavba Soc. Vesn. 7(3):66-69. 1968. 296.8 Z4  
Designs.
- 93604 SERVENIUS, J. Roughage handling while rebuilding the barn. (Sw) Lantmannen 78(23):18-19. Nov. 11, 1967. 11 L234  
Hay and silage storage.
- 93605 SKORSKI, A. Ventilators for stronger air drafts. (Pol) Budownictwo Wiejskie 19(11):24-25. Nov. 1967. 296.8 B85  
In storage buildings.
- 93606 SRANKO, I. Farms are requesting refrigerated houses—manufacture will start soon. (Hu) Magyar Mezőgazdaság 22(13):9. Mar. 29, 1967. 19 M27  
For fruit.
- 93607 STROPPEL, A. A contribution towards clarification of pressure relationship in granular material stored in bulk. (Ge) Grundlagen Landtech. 17(6):203-208. Ref. 1967. 58.8 G92  
English summary on content page.  
In relation to silo design.



- 93608 WILLSON, G. B. Lateral pressures on walls of potato storage bins. U. S. Agr. Res. Serv. ARS-52-32, 15 p. June 1968. A289.9 R31

### Walls and Fences

- 93609 HOLLIGAN, P. J., and DREVER, J. G. Developments in electric fencing. Agr. Gaz. New S. Wales 78(9):530-538. Sept. 1967. 23 N472
- 93610 ISLER, G. What shall the cattle breeder know about electric pasture fence? (Ge) Tierzucht 21(6):318-320. June 1967. 49 T443
- 93611 MOORE, R. A., and others. Long span fences. S. Dak. Agr. Exp. Sta. Bull. 546, 15 p. June 1968. 100 So82  
H. G. Young, M. E. Larson, and G. B. Haidwick, joint authors.  
Chiefly costs.
- 93612 PEARSE, H. C. More efficient fencing. Ruakura Farmers Conf. Week Proc. 1967:95-108. Apr. 9, 1968. 49.9 R82  
In New Zealand.
- 93613 SPISKA, I. Setting up fences around farm dwelling houses. (Cz) Vystavba Soc. Vesn. 10:241-244. 1966. 296.8 Z4
- 93614 U. S. AGRICULTURAL RESEARCH SERV. Horse show rings for indoor and outdoor events; cooperative farm building plan No. 6015. U. S. D. A. Misc. Publ. 1084, 2 p. June 1968. 1 Ag84M  
Fence construction.

### FARM UTILITIES

#### Electricity and Electrification

- 93615 BOGDASHKIN, P. Half a century of electrification in a village. (Rus) Ekon. Sel'skogo Khoz. 11:43-49. 1967. 281.8 So73
- 93616 BRITISH ELECTRICAL DEVELOPMENT ASSOCIATION. Farm lighting; a guide to the practical design of installations. Ed. rev. Brit. Elec. Develop. Ass. Farm Elec. Handbook 12, 103 p. Oct. 1967. 335.9 B772
- 93617 BUDZKO, I. A., LEVIN, M. S., and MOVSHON, L. M. The specificity of the automation of the retrieval of special publications on farm electrification and mechanization. (Rus) Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina Dokl. 5: 39-41. May 1967. 20 Ak1
- 93618 FORSHED, F., and LUND, R. Electric power consumption in Sweden. (Sw) Joel 2:3-5, 14. 1967. 335.8 J59  
Includes use of electricity on the farm.
- 93619 HART, P. A. Regulation vs competition. Rural. Elec. 25(10):20. July 1967. 335.8 N21  
Electric power industry.
- 93620 KINLOCH, C. C. Playing safe with electrical equipment. Farm Mech. Bldg. 20(221):49-51. Jan. 1968. 58.8 B772
- 93621 LOBOTKA, J. Some questions of electric consumption in agriculture. (Cz) Pol'nohospodarstvo 14(3):222-227. 1968. 19.5 P752
- 93622 PETRILLO, U. Electrification in the districts of the Land Reform Agency for Sila. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.2: 547-555. 1966, pub. 1968. S675.C6 1966  
English summary.
- 93623 PIRKHAVKA, P. YA. Development and the level of electrification on the collective and state farms. (Rus) Mekh. Elek. Sots. Sel. Khoz. 11:44-48. Oct. 1967. 58.8 M46
- 93624 ROMANI, G. C. Farm electrification. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.2: 537-546. 1966, pub. 1968. S675.C6 1966  
English summary.
- 93625 SCIUBBA, R. Economic and social aspects of farm electrification. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.2: 531-535. 1966, pub. 1968. S675.C6 1966  
English summary.

- 93626 SCIUBBA, R. Farm electrification in Italy and the European Common Market. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.2: 557-562. 1966, pub. 1968. S675.C6 1966  
English summary.
- 93627 THORNQUIST, L. Electricity program for farm service buildings. (Sw) Joel 3:6-7. 1967. 335.8 J59
- 93628 VITALI, G. Situation and outlook in rural electrification. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.2: 519-529. 1966, pub. 1968. S675.C6 1966
- 93629 WILLIAMS, R. Iran's peasant farmer mostly gets sore back and callouses. Rural. Elec. 25(10):18-19. July 1967. 335.8 N21  
Need for electrification.

### Heating, Lighting, and Radiation

- 93630 ALLEN, L. D. Fuels and heating systems for Alaskan homes. Alaska. Agr. Exp. Sta. Circ. 27, 5 p. Mar. 1968. 100 AL122E
- 93631 DAVIS, G. R., and GERBER, J. F. Testing a prototype low pressure oil burning heating system. Fla. State Hort. Soc. Proc. 80:93-98. May 1, 1968. 81 F66  
Frost protection.
- 93632 GAVRILOV, N., and GARBUZ, V. Use of polyethylene pipes for heating soil. (Rus) Tekh. Sel'skom Khoz. 3:14-17. 1968. 58.8 M11
- 93633 SCHNEIDER, U., and BUSEMANN, J. Energie-wirtschaftliche Bedarfsszahlen. Teil IV. Kohle und Heizöl im landwirtschaftlichen Haushalt [Figures on energy requirements. Part IV. Coal and fuel oil in the agricultural household]. Kuratorium Tech. Landwirt. Ber. Landtech. 73, 222 p. 1967. 18 K96  
English summary.  
Bibliography, p. 217-222.

### Sewage and Waste Disposal

- 93634 MYSLIN, J. Design of sewage disposal system on livestock farms. (Cz) Vystavba Soc. Vesn. 7(2):34-37. 1968. 296.8 Z4

### Water Supply

- 93635 CADA, R. What is the most economic way of constructing water supply and sewer systems in villages. (Cz) Vystavba Soc. Vesn. 5:111-112. 1966. 296.8 Z4
- 93636 CHATFIELD, M. G. Domestic water supplies on farms. Agr. Gaz. New S. Wales 78(4):208-213. Apr. 1967. 23 N472
- 93637 DANIEL, E. A. G. Clean water for towns and villages. Yojana 11(11):7-9. June 11, 1967. 280.8 Y7  
In India.
- 93638 DEFTY, W. H. Water under pressure on dairy farms. Milk Board J. 19(2):29-31. Mar. 1968. 44.8 M5934  
In Australia.
- 93639 HAN, S. K., HAN, W. D., and JUNG, D. H. Studies on the new boring instrument for the investigation of ground water. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(6):21-27. Sept. 1967. 22.5 K843  
English summary.
- 93640 MAZURKO, V., TESNOVETS, L., and BARANOVSKII, E. Automation of steam boilers. (Rus) Tekh. Sel'skom Khoz. 3:21-23. 1968. 58.8 M11
- 93641 NEUHOLD, J. M., POST, F. J., and JONES, N. B. From sewage to clean water. Utah Sci. 28(1):7-10, 31, map. Mar. 1967. 100 Ut1F
- 93642 RIHOSEK, M. The water supply and sewers in villages. (Cz) Vystavba Soc. Vesn. 4:82-84. 1966. 296.8 Z4
- 93643 SOUTH DAKOTA. STATE UNIVERSITY. COOPERATIVE EXTENSION SERV. Irrigation well construction. S. Dak. State Univ. Ext. FS 411, 6 p.-folder. May 1968. 275.29 So85Fs





## ENTOMOLOGY

Contains references chiefly on general entomology, and taxonomic and geographic entomology. Some references on pests of crops and products are included in the Bibliography, but for more detailed coverage of the literature on pests and their control, consult the Pesticides Documentation Bulletin, a biweekly publication of the National Agricultural Library.

GENERAL ENTOMOLOGY  
(EXCEPT TAXONOMIC AND GEOGRAPHIC)

- 93644 ASHCROFT, G. L., RICHARDSON, E. A., and COX, L. M. Bioclimatology, a practical science; the fugue expands. *Utah Sci.* 29(1):7-14. Mar.1968. 100 UtlF  
Includes insect ecology.
- 93645 AUERSCH, O. Some results from the work of an experimental station for applied entomology and pest control. (Ge) *Anz. Schadlingskunde* 40(8):120-126. Aug.1967. 421 An9  
English summary.  
Versuchsstation für angewandte Entomologie und Schadlingskunde in Tornau.
- 93646 BATISTE, W. C. and FALCON, L. A., ed. U. C. Berkeley Centennial 1868-1968. *Vedalia* 33,83 p. Apr.1968. 421 V51  
Dedicated to the early alumni of the Department of Entomology and Parasitology of the University of California, at Berkeley.
- 93647 BROWN, G. A., AH, H. S., and DAVIS, R. An environmental chamber for rearing and irradiating small arthropods. *Ga. Entomol. Soc. J.* 1 (3):29-30. July 1966. QL461.G4
- 93648 CASE, J. Sensory mechanisms. New York, Macmillan, 1966. 113 p. Ref. (Current Concepts in Biology) QP431.C3  
Includes insects.
- 93649 CASPERS, H. Biology estuaries. *Symp. Sci. Probl. Humid Trop. Zone Deltas Implications.* Proc. 1966:257-261. GB1205.S3  
Insects and phytoplankton.  
Includes discussion.
- 93650 CASSIER, P. Reproduction of insects and regulation of corpora allata activities. (Fr) *Ann. Biol.* 6(11/12):595-670. Nov./Dec.1967. 442.8 An7  
Bibliography, p.645-658.
- 93651 CIRCLE of Entomologists of Liege: activities of the Cercle des Entomologistes Liegeois during 1966. *Natur. Mosana* 19(4):85-87. Oct./Dec.1966. 473 N214
- 93652 CROWE, T. J. Common names for agricultural and forestry insects and mites in East Africa. *East Afr. Agr. Forest. J.* 33(1):55-63. July 1967. 24 Ea74
- 93653 DENIS, J. R. Complements and corrections to Vol. VIII of the treatise of P. P. Grasse (Morphology of Arthropods) Part 11. (Fr) *Dijon Univ. Lab. Zool. Trav.* 73:1-44. 1967. 410.9 D56  
The anatomy and morphology of Heteroptera, Orthoptera, Saldula pallipes and cockroaches.
- 93654 EHRLICH, P. R., and BIRCH, L. C. The balance of nature and population control. *Amer. Natur.* 101(918):97-107. Ref. Mar./Apr.1967. 470 Am36  
Includes insects and plants.
- 93655 ENGELMANN, M. D. The role of soil arthropods in community energetics. *Amer. Zool.* 8(1):61-69. Ref. Feb.1968. 410 Am3
- 93656 ENTOMOLOGICAL SOCIETY OF NEW ZEALAND. Standard names for common insects. *New Zeal. J. Agr.* 114(1):97-99,101. (Cont.) Jan.1967. 23 N48J
- 93657 FERNALD Club Yearbook. Mass. Univ. Fernald Club Yearb. 36,77 p. Jan.1967. 420 M38  
The University of Massachusetts Fernald Entomological Club.
- 93658 FILSHIE, B. K., and others. Viruslike particles in insect cells of three types. *J. Invertebrate Pathol.* 9(2):271-273. June 1967. 421 J826  
T. D. C. Grace, D. F. Poulson, and J. Rehaček, joint authors.
- 93659 FRIEDERICH, K. Thoughts on the balance of nature and some other basic concepts. (Ge) *Anz. Schadlingskunde* 40(1):1-8. Ref. Jan. 1967. 421 An9  
Includes insect and plant ecology.
- 93660 GILGAN, M. W., and RETALLACK, M. E. Insect molt-hormone activity of an extract of the Japanese yew (*Taxus cuspidata*). *Can. Fish. Res. Board J.* 24(11):2497-2499. Nov.1967. 442.9 C16J
- 93661 GORDON, H. T. Quantitative aspects of insect nutrition. *Amer. Zool.* 8(1):131-138. Ref. Feb.1968. 410 Am3
- 93662 HASSLER, H. DDT solution as a preservative of insect collections. (Ge) *Entomol. Z.* 77(8):93-94. Apr.15,1967. 421 En85
- 93663 HOCKING, B. Departments highlighted. *Alber-ta Univ. Fac. Agr. Agr. Bull.* 7:3-4. Feb.1968. 101 AL1A  
Department of Entomology.
- 93664 HOWE, R. W. The influence of age of the parents on some characteristics of the offspring of insects bred in the laboratory. *J. Stored Prod. Res.* 3(4):371-385. Ref. Dec.1967. 421 J829
- 93665 IGNOFFO, C. M. Insect viruses. In Smith, C. N., ed. *Insect colonization and mass production*, p.501-530. 1966. QL497.S6  
Bibliography, p.524-530.  
Propagation.
- 93666 IWAO, S. Insect population quality and meteorological conditions. *Int. J. Biometeorol.* 11 (1):33-37. Ref. Mar.1967. 340.8 In8
- 93667 JOHANNES, R. E., and SATOMI, M. Measuring organic matter retained by aquatic invertebrates. *Can. Fish. Res. Board J.* 24(11):2467-2471. Ref. Nov.1967. 442.9 C16J
- 93668 KANTACK, B. H. Developing a working arrangement with research. S. Dak. State Univ. Ext. Spec. Rep. 4:30-31. 1965. 275.29 So85Sr  
Extension specialist viewpoint, by B. H. Kantack; Researcher viewpoint, by R. J. Walstrom; application to entomology.
- 93669 KIRPICHNIKOV, V. S. The general theory of heterosis. 1. Genetic mechanisms. (Rus) *Genetika* 10:167-180. Ref. Oct.1967. QH431.A1G4  
English summary.  
Includes insects.
- 93670 MOORE, B. P. Chemical communication in insects. *Sci. J.* 3(9):44-49. Sept.1967. Q1.S34  
Includes pheromones, sex attractants, and protective devices.
- 93671 NOIROT, C., and NOIROT-TIMOTHEE, C. A new type of intercellular junction (zonula continua) in the midgut of insects. (Fr) *Acad. Sci. C. R., Ser. D.* 264(24):2796-2802. June 12,1967. 505 P21
- 93672 NOVAK, V. J. A. Insect hormones. (Cz) *Chem. Listy* 61(3):340-350. Ref. Mar.1967. 385 C425
- 93673 RICHARD, G. Animal migrations and movements. (Fr) *Ann. Epiphyt.* 18(1):95-101. Ref. 1967. 464.9 F84An  
Insects.
- 93674 SAXENA, S. C. On synergised and unsynergised pyrethrum. *Appl. Entomol. Zool.* 2(3):158-162. Ref. Sept.1967. SB599.A6  
Piperonyl butoxide, MGK-264 as pyrethrum synergists.
- 93675 SCHAERFFENBERG, B. Can fungus diseases be produced artificially in insects? (Ge) *Z. Angew. Entomol.* 58(4):362-372. Ref. Dec. 1966. 421 Z36  
English summary.
- 93676 SCHMID, G. The Welzheim - Breitenfuerst "Fire Lake" (the animal world of a natural monument). (Ge) *Baden-Wuertemb. Landesstelle Naturschutz Landschaftspflege Veroff.* 35:45-88. Ref. 1967. 410.9 W96  
Includes insect and plant ecology.
- 93677 SEHGAI, P. Food and feeding habits of *Mystus seenghala* (Sykes). *Panjab. Univ. Res. Bull.* 18 (1/2):149-155. June 1967. 513 Ea72  
Includes insect food.

- 93678 SHENEFELT, R. D. Protection of insects being transported in liquid. Entomol. Soc. Wash. Proc. 69(3):286. Sept.1967. 420 W27
- 93679 SMITH, C. N. Insect colonization and mass production. New York, Academic Press, 1966. 618 p. Ref. QL497.S6  
Introduction, by E. F. Knipping, p.1-12.  
Rearing techniques and equipment.
- 93680 SNAPP, O. I. History of the Georgia Entomological Society. Ga. Entomol. Soc. J. 1(2):18-24. Apr.1966. QL461.G4
- 93681 STEYSKAL, G. C. Something better than poly-porus or pith for double mounts. Entomol. Soc. Wash. Proc. 69(3):297. Sept.1967. 420 W27  
Rubber is discussed.
- 93682 TINBERGEN, N. Tierbeobachtungen zwischen Arktis und Afrika; Forscherfreuden in freier Natur [Animal observation between the Arctic and Africa; the joys of research in nature]. Ed. 3. Berlin, Parey, 1967. 228 p. Ref. QL463.T52 1967  
Earlier editions entitled: Wo die Bienenwölfe jagen; neugierige Forscher in freier Natur. Includes insects.  
Translation of Curious Naturalists.
- 93683 VANDERZANT, E. S. Defined diets for phytophagous insects. In Smith, C. N., ed. Insect colonization and mass production, p.273-303. 1966. QL497.S6  
Bibliography, p.299-303.
- General Entomology  
Arachnida, Myriapoda, etc.
- 93684 BAURANT, R., and BIERNAUX, J. The biology and control of *Scutigera immaculata* Newport (Fr) Bull. Rech. Agron. Gembloux 2(2):215-226. Ref. 1967. S5.B8  
English summary.
- 93685 BOWEN, R. C. Histochemical studies on two milliped species. Ohio J. Sci. 68(2):85-91. Ref. Mar.1968. 410 Oh3  
Floridobolus penneri and Narceus gordanus.
- 93686 BRANDON, S. Disruption of the circadian rhythm of two species on millipedes [*Oxidus gracilis* and *Pachydesmus crassicutus*] by low-level gamma radiation. La. Acad. Sci. Proc. 30:70-71. 1967. 500 L932
- 93687 BUCHAR, J. Overwintering of spiders. (Cz) Ziva 16(1):24-25. Jan.1968. 409,6 Z6
- 93688 CAMATINI, M., and SAITA, A. The ultra-structure of the inter-segmental muscles of *Scolopendra cingulata*. (It) Rome Accad. Naz. Lincei Atti Rendic. 42(5):704-710. Ref. May 1967. 507 R66  
English summary.  
Electron microscope investigation.
- 93689 CARRICABURU, P., and NAIT, R. A. Electroretinogram of the scorpion, *Androctonus australis*. (Fr) Acad. Sci. C. R., Ser. D, 264(24):2819-2821. June 12,1967. 505 P21
- 93690 CAUSEY, N. B. The neotype [*Orthoporus ornatulus*] of the spirostreptid millipede *Julus ornatulus*. La. Acad. Sci. Proc. 30:91. 1967. 500 L932
- 93691 CLARK, G. M. A new nasal mite from the robin (*Turdus migratorius*) (Acarina: Speleognathinae). Entomol. Soc. Wash. Proc. 69(3):294-296. Sept.1967. 420 W27  
Boydaiia turdi, n. sp.
- 93692 DOSSE, G. Contributions to the diapause problem of *Tetranychus urticae* Koch and the *Tetranychus cinnabarinus* Boisduval complex in Lebanon (Acarina, Tetranychidae). (Ge) Pflanzenschutzberichte 34(9/10):129-138. Oct.1966. 464.9 P48  
English summary.
- 93693 EHARA, S. Phytoseiid mites from Okinawa Island (Acarina: Mesostigmata). Mushi 40(6):67-82. Ref. Mar.24,1967. 421 M97  
Includes n. spp. in *Typhlodromus*, *Amblyseius*, *Okiseius* n.g. and *Phytoseius*.
- 93694 EMERIT, M. Trichobothrial and axial innervation of leg of the spider *Gasteracantha versicolor* (Walck.) (Argiopidae). (Fr) Acad. Sci. Compt. Rend. Ser. D, 265(16):1134-1137. Oct.16,1967. 505 P21
- 93695 EYNDHOVEN, G. L. VAN, and HELLE, W. Sex abnormalities in the common spider mite (*Tetranychus urticae*) (Acari, Tetranychidae). Entomol. Ber. 26(11):204-208. Nov.1,1966. 420 N38B
- 93696 FAIN, A., and BAFORT, J. Evolutionary cycle and morphology of *Hypodectes* (*Hypodectoides*) *propus* (Nitzsch), nest acarids as deutonymph tissue parasites of pigeons. (Fr) Acad. Roy. Belg. Cl. Sci. Bull. 53(5):501-533. Ref. 1967. 504 B83B
- 93697 FAIN, A. A hypopus of the family Hypoderidae Murray 1877 living under the skin of a rodent (Hypoderidae: Sarcophagidae). (Fr) Acarologia 10(1):111-115. Jan.1968. 434.8 Acl  
*Muridectes heterocephali* n. g., n. sp. of the Muridectinae n. sfam.
- 93698 FAIN, A. Notes of two new heteromorphic deutonymphs (hypopi) (Acarina; Sarcophagidae). Linn. Soc. New S. Wales. Proc. 92(3):246-250. 1968. 514 Sy2  
*Anoetostoma domrowi* n. sp., Marsupioipinae n. sfam., and *Marsupioipus trichosuri* n. g., n. sp. from New Guinea.
- 93699 HOOGSTRAAL, H., and others. Hyalomma (*Hyalomma*) *rhypicephaloides* Neumann (Ixodoidea: Ixodidae); its identity, hosts, and ecology, and *Rickettsia conorii*, *R. prowazeki*, and *Coxiella burnetii* infections in rodent hosts in Egypt. J. Med. Ent. 4(4):391-400. Nov.1967. 421 J828  
M. N. Kaiser, R. A. Ormsbee, D. J. Osborn, I. Helmy, and S. Gaber, joint authors.
- 93700 INTEGRATED control of mites panel. Wash. State Hort. Ass. Proc. Dec.5-7,1966:71-82. 81 W273  
Moderator: A. W. Enbom; members: S. C. Hoyt, D. E. Johnson, W. B. Hudson, B. Veroske, P. H. Westgard.  
Pacific Northwest fruit crops.
- 93701 JACKLIN, S. W., and SMITH, F. F. Phytophagous mites. In Smith, C. N., ed. Insect colonization and mass production, p.445-449. Ref. 1966. QL497.S6  
*Tetranychus urticae*.
- 93702 KANWAR, U. Histochemistry of spermatogenesis in the spider, *Lycosa chaperi*. Panjab. Univ. Res. Bull. 18(1/2):95-108. Ref. June 1967. 513 Ea72
- 93703 KITAOKA, S., and MORII, T. The biology of *Haemaphysalis* (*Allocaeraea*) *ambigua* Neumann, 1901 with description of immature stages (Ixodoidea, Ixodidae). Tokyo. Nat. Inst. Anim. Health Quart. 7(3):145-152. Ref. June 1967. 41.9 T575Q
- 93704 MUMA, M. H., and DENMARK, H. A. Biological studies on *Macroseius biscutatus* (Acarina: Phytoseiidae). Fla. Entomol. 50(4):249-255. Dec.1967. 420 F662
- 93705 NADCHATRAM, M. Notes on the genus *Toriotrombicula* (Sasa et al.) with designation of neotype, description of nymph and redescription of larva of *Tori. densipiliata* (Walch), and descriptions of two new species from Southeast Asia (Acarina: Trombiculidae). J. Med. Ent. 4(4):401-415. Ref. Nov.1967. 421 J828  
T. uphami and T. asa, M. spp.
- 93706 OSAKABE, M. Biological studies on the tea red spider mite, *Tetranychus kanzawai* Kishida, in tea plantation. (Ja) Jap. Tea Res. Sta. Bull. 4:35-156. Ref. Mar.1967. 68.19 J27K  
English summary.
- 93707 PEAKALL, D. B., and CAMERON, I. L. Non-conservation of lysine labeled nuclear material in spider [*Araneus sericatus*] silk glands. Exp. Cell Res. 49(1):199-202. Jan.1968. 442.8 Ex7
- 93708 PETERS, W. Formation and structure of the peritrophic membrane in Phalangidae (Opiliones, Chelicerata). (Ge) Z. Morphol. Okol. Tiere 59(2):134-142. Ref. June 12,1967. 442.8 Z33  
English summary.  
*Liobunum rotundum* and *Nelima aurantiaca*.



- 93709 POPP, E. Mating in the bird mites *Pterodectes Robin* (Analgesoidea, Acari). (Ge) Z. Morphol. Okol. Tiere 59(1):1-32. Ref. May 9, 1967. 442.8 Z33  
English summary.
- 93710 RICHTER, C. J. J. Aeronautic behaviour in the genus *Pardosa* (Araneae, Lycosidae). Entomol. Mon. Mag. 103(1235/1237):73-74. Apr./June 1967. 421 En86
- 93711 RODRIGUEZ, J. G., and others. Ingestion in the two-spotted spider mite, *Tetranychus urticae* Koch, as influenced by wavelength of light. J. Insect Physiol. 13(6):925-932. June 1967. 421 J825  
P. Singh, T. N. Seay, and M. V. Walling, joint authors.
- 93712 SAHLI, F. Numerical outturn of sexes of the Diplopoda, *Schizophyllum sabulosum* L. in Germany. (Fr) Acad. Sci. Compt. Rend. Ser. D, 264(19):2333-2336. May 8, 1967. 505 P21
- 93713 SCHUBART, H. O. R. Preliminary observations on the biology of "*Indotritia acanthophora*" Markel, 1964 (Acari, Oribatei). (Fr) Rev. Brasil. Biol. 27(2):165-176. Ref. Aug. 1967. 442.8 R326
- 93714 SEIFERT, G. The cuticle of *Polyxenus lagurus* L. (Diplopoda, Pselaphognatha). (Ge) Z. Morphol. Okol. Tiere 59(1):42-53. Ref. May 9, 1967. 442.8 Z33  
English summary.
- 93715 SEIFERT, G. On a dorsal cardiac nerve in Diplopoda [*Orthomorpha gracilis*]. (Ge) Z. Morphol. Okol. Tiere 59(1):91-94. Ref. May 9, 1967. 442.8 Z33  
English summary.
- 93716 STEWART, T. B., and DAVIS, R. Notes on mites associated with coprophagous beetles. Ga. Entomol. Soc. J. 2(1):21-26. Ref. Jan. 1967. QL461.G4
- 93717 STRANDTMANN, R. W. A new species of Hirstionyssus from Taiwan (Mesostigmata: Laelapidae). Pacific Insects 9(4):687-691. Nov. 20, 1967. 421 P11  
Hirstionyssus hatsukoae.
- 93718 SWIRSKI, E., AMITAL, S., and DORZIA, N. Field and laboratory trials on the toxicity of some pesticides to predaceous mites (Acarina: Phytoseiidae). Israel J. Agr. Res. 17(3):149-159. Ref. July 1967. 107 J552  
Beneficial insects.
- 93719 SWIRSKI, E., AMITAL, S., and DORZIA, N. Laboratory studies on the feeding, development and oviposition of the predaceous mite *Typhlodromus athiasae* P. and S. (Acarina: Phytoseiidae) on various kinds of food substances. Israel J. Agr. Res. 17(4):213-218. Ref. Oct. 1967. 107 J552
- 93720 WILSON, D. M. Stepping patterns in tarantula spiders. J. Exp. Biol. 47(1):133-151. Ref. Aug. 1967. 442.8 B77  
Motion picture study of *Dugesia hantzi*.
- 93721 WOO, S. H. Studies on the ecological characteristics of the European red mite [*Metatetranychus ulmi*]. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(3):81-90. Ref. Sept. 1967. 22.5 K843  
English summary.
- General Entomology  
Coleoptera
- 93722 BARANOWSKI, R. M. Insecticide treatments for the control of potato-infesting wireworms. Fla. State Hort. Soc. Proc. 80:115-117. May 1, 1968. 81 F66  
*Conoderus falli*, *Melanotus communis*.
- 93723 BARKE, H. E., and DAVIS, R. Sexual dimorphism in the lesser mealworm, *Alphitobius diaperinus* (Panz.) (Coleoptera: Tenebrionidae). Ga. Entomol. Soc. J. 2(4):119-121. Oct. 1967. QL461.G4
- 93724 BURKHOLDER, W. E. Response of the male black carpet beetle, *Attagenus megatoma* (Fabricius), to the female-produced pheromone, with notes on other species. Diss. Abstr., Sect. B, 28(2):725B. Aug. 1967. Z5055.U49D53
- 93725 CHEMIN, J. L. Capture of *Leistus rufomarginatus* Duft. (Fr) Entomologiste [Paris] 23(3):80-81. June 1967. 421 En814  
In France.
- 93726 CHLODNY, J., GROMADZKA, J., and TROJAN, P. Energetic budget of development of the Colorado beetle--*Leptinotarsa decemlineata* say (Coleoptera, Chrysomelidae). Acad. Polon. Sci. Bull. Ser. Sci. Biol. 15(12):743-747. Ref. 1967. 512 W262
- 93727 CLARK, E. W., and OSGOOD, E. A. Southern pine beetles. In Smith, C. N., ed. Insect colonization and mass production, p.305-310. Ref. 1966. QL497.S6  
*Dendroctonus frontalis* and others.
- 93728 CONNIN, R. V., and others. Mass rearing of the cereal leaf beetle [*Oulema melanopus*]. U. S. Agr. Res. Serv. ARS-33-125, 11 p. Feb. 1968. A420 R31  
D. L. Cobb, J. C. Arnsman, and G. Lawson, joint authors.
- 93729 CROPARD, L. Rove beetles commensal with army ants and their mimetic abilities. (Fr) Sci. Progr. Natur. 3384:146-149. Apr. 1967. 475 N21
- 93730 CURRIE, J. E. Some effects of temperature and humidity on the rates of developments, mortality and oviposition of *Cryptolestes pusillus* (Schonherr) (Coleoptera, Cucujidae). J. Stored Prod. Res. 3(2):97-108. Ref. Aug. 1967. 421 J829
- 93731 DAVIS, R., and LUND, H. O. Some studies on *Hylobius pales* (Herbst) and *Pachylobius piciporus* (Germar). Ga. Entomol. Soc. J. 1(2):25-28. Apr. 1966. QL461.G4  
Feeding habits and life history of pine reproduction weevils.
- 93732 DAWSON, P. S. A balanced lethal system in the flour beetle, *Tribolium castaneum*. Heredity 22(3):435-438. Ref. Aug. 1967. 443.8 H42
- 93733 DAWSON, P. S. Developmental rate and competitive ability in *Tribolium*. II. Changes in competitive ability following further selection for developmental rate. Evolution 21(2):292-298. Ref. June 1967. 443.8 Ev62  
*Tribolium castaneum* and *T. confusum*.
- 93734 EDMONDS, W. D. The immature stages of *Phanaeus* (*Coprophanaeus*) *jasius* Oliver and *Phanaeus* (*Metalophanaeus*) *saphirinus* Sturm (Coleoptera: Scarabaeidae). Coleopt. Bull. 21(4):97-105. Ref. Dec. 1967. 421 C674
- 93735 FAVARD, P. On rearing *Parmena pubescens* Dalm. var. *Solieri* Muls. (Fr) Entomologiste [Paris] 23(2):42-45. Apr. 1967. 421 En814
- 93736 FOURIE, G. J. J. The influence of certain factors on the fecundity of *Sitophilus oryzae* (L.). S. Afr. J. Agr. Sci. 10(2):331-344. Ref. June 1967. 24 Su3
- 93737 FRANKLIN, R. T. Secondary sexual characters of the pales weevil [*Hylobius pales*]. Ga. Entomol. Soc. J. 1(1):19-20. Jan. 1966. QL461.G4
- 93738 FRANKLIN, R. T. A technique for studying the insect parasites of *Dendroctonus frontalis* and other bark beetles (Coleoptera: Scolytidae). Ga. Entomol. Soc. J. 2(2):43-44. Apr. 1967. QL461.G4
- 93739 GARA, R. I. Studies on the attack behavior of the southern pine beetle [*Dendroctonus frontalis*]. I. The spreading and collapse of outbreaks. Boyce Thompson Inst. Contrib. 23(10):349-354. Apr./June 1967. 451 B69
- 93740 GAST, R. T., and DAVICH, T. B. Boll weevils [*Anthonomus grandis*]. In Smith, C. N., ed. Insect colonization and mass production, p.405-418. 1966. QL497.S6
- 93741 HARRIS, F. Observations on the lesser mealworm, *Alphitobius diaperinus* (Panz.). Ga. Entomol. Soc. J. 1(1):17-18. Jan. 1966. QL461.G4  
Feeding habits.

- 93742 HASTINGS, J. W. The chemistry of bioluminescence. *Curr. Top. Bioenerg.* 1:113-152. 1966. QH511.S2  
Review of the literature.  
Includes fireflies, fungi, and bacteria.
- 93743 HEDIN, P. A., and others. Constituents of a cotton bud; formulation of a boll weevil feeding stimulant mixture. *J. Agr. Food Chem.* 16(3): 505-513. Ref. May/June 1968. 381 J8223  
L. R. Miles, A. C. Thompson, and J. P. Minyard, joint authors.
- 93744 HETRICK, L. A. Sex ratios of *Platypus* (Coleoptera: Platypodidae). *Entomol. Soc. Wash. Proc.* 69(3):297. Sept.1967. 420 W27
- 93745 HOPE, J. A., HORLER, D. F., and ROWLANDS, D. G. A possible pheromone of the bruchid, *Acanthoscelides obtectus* (Say). *J. Stored Prod. Res.* 3(4):387-388. Dec.1967. 421 J829
- 93746 HOWE, W. L., and GEORGE, B. W. Corn rootworms. In Smith, C. N., ed. *Insect colonization and mass production*, p.367-383. Ref. 1966. QL497.S6  
*Diatroica longicornis*, *D. virgifera*, and *D. undecimpunctata howardi*.
- 93747 HURPIN, B., and ROBERT, P. On the specificity of *Vagoiavirus melolonthae*. (Fr) *Entomophaga* 12(2):175-180. 1967. 421 En835  
English summary.  
Chiefly effects on *Scarabaeidae*.
- 93748 JONES, B. A. *Tribolium castaneum* (Herbst) (Coleoptera, Tenebrionidae) observed flying from an unusual habitat in Britain. *J. Stored Prod. Res.* 3(2):185-187. Aug.1967. 421 J829  
Manure heap on a poultry farm.
- 93749 KAMBUROV, S. S., NADEL, D. J., and KENNETH, R. Observations on *Hesperomyces virescens* Thaxter (Laboulbeniales), a fungus associated with premature mortality of *Chilocorus bipustulatus* L. in Israel. *Israel J. Agr. Res.* 17(2):131-134. Apr.1967. 107 J552
- 93750 KOKORDAK, J. *Bradyenema rigidum* (Von Siebold, 1836), *Tylenchida* Thorne 1949 (Nematoda, Phasmidea), new species found in Czechoslovakia. (Cz) *Folia Vet.* 10(2):245-250. 1966. 41.8 F712  
English summary.  
In *Aphodius fimetarius*.
- 93751 KUMAGAI, M. Influence of post-treatment humidity on the irradiated rice weevil adult, *Sitophilus zeamais* Motschulsky (Coleoptera: Curculionidae). *Appl. Entomol. Zool.* 2(1):51-57. Mar.1967. SB599.A6  
Survival.
- 93752 KWON, Y. W. Effects on the population of rice weevil [*Sitophilus oryzae*] and the damages on rice by the types of storage containers. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(3):115-122. Ref. Sept.1967. 22.5 K843  
English summary.
- 93753 LEFKOVITCH, L. P., and CURRIE, J. E. Some morphological, biological and genetical differences between *Cryptolestes pusillus fuscus* ssp.n. and *C. pusillus pusillus* (Schonherr) (Coleoptera, Cucujidae). *J. Stored Prod. Res.* 3(4):311-320. Ref. Dec.1967. 421 J829
- 93754 LEMON, R. W. The effect of fenchlorophos on *Sitophilus* spp. (Coleoptera, Curculionidae). *J. Stored Prod. Res.* 3(4):397-400. Dec.1967. 421 J829
- 93755 LEVINSON, H. Z., BARELKOVSKY, J., and BAR-ILAN, A. R. Nutritional effects of vitamin omission and antivitamin administration on development and longevity of the hide beetle *Dermestes maculatus* Deg. (Coleoptera, Dermestidae). *J. Stored Prod. Res.* 3(4):345-352. Ref. Dec.1967. 421 J829
- 93756 LOSCHIAVO, S. R. Adult longevity and oviposition of *Trogoderma parabile* Beal (Coleoptera, Dermestidae) at different temperatures. *J. Stored Prod. Res.* 3(4):273-282. Dec.1967. 421 J829
- 93757 MASCHWITZ, U. A new kind of defense by insects against microorganisms. (Ge) *Naturwissenschaften* 54(24):649. Dec.15,1967. 474 N213  
Secretion from glands of beetles.
- 93758 MATSUMOTO, Y. Vibration mechanisms of maxillary palpi in the vegetable weevil adult, *Listroderes obliquus* Klug (Coleoptera: Curculionidae) during food searching; studies on the host plant determination of the leaf-feeding insects. VII. *Appl. Entomol. Zool.* 2(1):31-38. Mar.1967. SB599.A6
- 93759 MATTESON, J. W. False wireworms. In Smith, C. N., ed. *Insect colonization and mass production*, p.385-395. Ref. 1966. QL497.S6  
*Eleodes suturalis*.
- 93760 MURBACH, R. A further field experiment regarding the effect of fentin acetate, maneb and copper oxychloride fungicides on the population density of the Colorado beetle (*Leptinotarsa decemlineata* Say). (Fr) Schweiz. Landwirt. Forsch. 4(3):345-357. Ref. 1967. 17 Sch99  
English summary.
- 93761 NAKATA, M. Effect of disulfoton granular on the large 28-spotted lady beetle, *Epilachna vigintioctomaculata* Motschulsky. *Appl. Entomol. Zool.* 2(3):170-172. Sept.1967. SB599.A6  
Pest of potatoes.
- 93762 NORRIS, D. M., and BAKER, J. E. Feeding responses of the beetle *Scolytus [multistriatus]* to chemical stimuli in the bark of *Ulmus [americana]*. *J. Insect Physiol.* 13(6):955-962. June 1967. 421 J825
- 93763 PAJANI, H. R. A note on the metamorphosis of the mid-gut epithelium in *Callosobruchus maculatus* (F.) (Bruchidae: Coleoptera). *Panjab. Univ. Res. Bull.* 18(1/2):75-78. Ref. June 1967. 513 Ea72
- 93764 PAJANI, H. R. Structure and metamorphosis of the Malpighian tubules of *Callosobruchus maculatus* (F.) (Bruchidae: Coleoptera). *Panjab. Univ. Res. Bull.* 18(1/2):61-67. Ref. June 1967. 513 Ea72
- 93765 PREE, D. J. Rootworm control in corn. *Ontario Soil Crop Impr. Ass. Addresses Proc.* 1967:113-114. 64.9 On83  
*Diabrotica longicornis*.
- 93766 PREVETT, P. F. The larva of *Caryedon serratus* (Ol.): the groundnut seed beetle (Coleoptera: Bruchidae). *J. Stored Prod. Res.* 3(2): 117-123. Aug.1967. 421 J829
- 93767 QUEINNEC, Y. A study of psychophysiological factors in the detection of the host plant by the neonate larvae of the winter cabbage stem flea-beetle *Psylliodes chrysocephala* L. (Fr) *Ann. Epiphyt.* 18(1):27-74. Ref. 1967. 464.9 F84AN  
English summary.
- 93768 RAYNAUD, P. Hybrids from breeding *Coleoptera Carabidae*. (Fr) *Soc. Linn. Lyon Bull. Mens.* 37(4):145-147. Apr. 1968. 505 L992B  
*Chrysocarabus auronitens subfestivus*  
*C. punctatoauratus barthei*.
- 93769 RENWICK, J. A. A. Identification of two oxygenated terpenes from the bark beetles *Dendroctonus frontalis* and *Dendroctonus brevicornis*. *Boyce Thompson Inst. Contrib.* 23(10): 355-360. Apr./June 1967. 451 B69
- 93770 RUDINSKY, J. A. Observations on olfactory behavior of scolytid beetles (Coleoptera: Scolytidae) associated with Douglas-fir forests. *Z. Angew. Entomol.* 58(4):356-361. Dec.1966. 421 Z36  
Includes use of olfactometers.
- 93771 SALT, G., and VAN DEN BOSCH, R. The defense reactions of three species of *Hypera* (Coleoptera, Curculionidae) to an ichneumon wasp [*Bathyplectes curculionis*]. *J. Invertebrate Pathol.* 9(2):164-177. Ref. June 1967. 421 J826  
*Hypera postica*, *H. brunneipennis*, and *H. punctata*.
- 93772 SCHMID, G. The seven-footed insect of Volk-marsberg (Coleoptera: Sermylassa halensis L.) (Ge) *Pol. Akad. Nauk. Inst. Zool. Ann. Zool.* 35: 108-110. Ref. 1967. 410.9 W96



- 93773 SIMIONESCU, A. Duration of the development of a generation of *Ips typographus* L. and *Ips amitinus* Eichl. in the basin of Moldova River in 1965-1966. (Rum) Rev. Padurilor 83(1):22-26. Jan.1968. 99.8 R327  
English summary.  
Pests of forest trees.
- 93774 SINHA, B. P., and MOOKHERJEE, P. B. Studies on the effect of airtightness on the development of *Tribolium castaneum* Herbst (Coleoptera: Tenebrionidae) in wheat and wheat flour. Indian J. Entomol 29(1):79-83. Mar.1967. 420 In23
- 93775 SOKOLOFF, A., and LERNER, I. M. Laboratory ecology and mutual predation of *Tribolium* species. Amer. Natur. 101(919):261-276. Ref. May/June 1967. 470 Am36  
*Tribolium castaneum* and *T. confusum*.
- 93776 STRAMBI, C., and ZYLERBERG, L. Morphology of the rectal bulb of *Troglocromus bucheti* gaveti S.C.D. (Coleoptera, Bathysciinae). (Fr) Ann. Sci. Natur. Zool. Biol. Anim. 9(4):529-551. Ref. Oct./Dec.1967. 410 An7  
English summary.
- 93777 TAKAGI, K. The storage organ of symbiotic fungus in the ambrosia beetle *Xyleborus rubricollis* Eichhoff (Coleoptera: Scolytidae). Appl. Entomol. Zool. 2(3):168-170. Ref. Sept.1967. SB599.A6
- 93778 TIPPINS, H. H., MORGAN, L. W., and BECKHAM, C. M. Biology of *Derobrachus brevicollis*, a pest of bahiagrass and peanuts. Ga. Agr. Exp. Sta. Res. Bull. 33,18 p.,map. Apr.1968. S51.E2
- 93779 TOMINIC, A. The causes of various behavior of *Hylesinus oleiperda* Fabr. in Dalmatia. (Se) Zastita Bilja 93/95:75-83. 1967. 464.8 Z1  
French summary.
- 93780 TSAO, C. H. Flight activity and response to light in the southern pine beetle (*Dendroctonus frontalis* Zimm.). Ga. Entomol. Soc. J. 1(1):11-16. Jan.1966. QL461.G4
- 93781 TSAO, C. H., and YU, C. C. Sex pheromones of the southern pine beetle, *Dendroctonus frontalis* Zimm., (Coleoptera: Scolytidae). Ga. Entomol. Soc. J. 2(1):13-20. Ref. Jan.1967. QL461.G4
- 93782 VUKASOVIC, P., and GLUMAC, S. The effect of nutrition on fertility and longevity of *Acanthoscelides obtectus* Say. (Se) Zastita Bilja. 93/95:11-20. 1967. 464.8 Z1  
French summary.
- 93783 WADA, S., and SCHNEIDER, G. Pupilla reaction in the ommatidium of *Tenebrio molitor*. (Ge) Naturwissenschaften 54(20):542. Oct.15, 1967. 474 N213
- 93784 YEH, S. M., and HUNTER, P. E. Sex identification in the passalus beetle, *Popilius disjunctus* (Illiger). Ga. Entomol. Soc. J. 1(4):31-32. Oct.1966. QL461.G4
- 93785 YU, C. C., and TSAO, C. H. Gallery construction and sexual behavior in the southern pine beetle, *Dendroctonus frontalis* Zimm. (Coleoptera: Scolytidae). Ga. Entomol. Soc. J. 2(4):95-98. Oct.1967. QL461.G4
- 93786 ZUK, P. A cerambycid in a city apartment. Entomol. Soc. Brit. Columbia Proc. 64:13. Aug.1,1967. 420 B77  
*Meriellum proteus* (Kirby).
- 93787 ZWOLFER, H., and EICHHORN, O. The host ranges of *Cassida* spp. (Col. Chrysomelidae) attacking *Cynareae* (Compositae) in Europe. Z. Agnew. Entomol. 58(4):364-397. Ref. Dec. 1966. 421 Z36
- 93789 AMONKAR, S. V., KALLE, G. P., and NAIR, K. K. Mechanism of pathogenicity of *Pseudomonas* in the house fly [*Musca domestica* nebulosus]. J. Invertebrate Pathol. 9(2):235-240. Ref. June 1967. 421 J826
- 93790 BAUDISCH, W., and PANITZ, R. Control of a biochemical character in the salivary glands of *Acricetopus lucidus* with a Balbiani ring. (Ge) Exp. Cell Res. 49(3):470-476. Ref. Mar. 1968. 442.8 Ex7
- 93791 BAUMHOVER, A. H., HUSMAN, C. N., and GRAHAM, A. J. Screw-worms [*Cochliomyia hominivorax*]. In Smith, C. N., ed. Insect colonization and mass production, p.533-554. Ref. 1966. QL497.S6
- 93792 BETBEDER-MATIBET, M. Note on the biology of *Diatraeaophaga striatalis* Townsend, a tachinid parasite of *Proceras sacchariphagus* Boj. (Fr) Entomophaga 12(2):161-173. 1967. 421 En835  
English summary.
- 93793 BJEHOVIC, P. *Meigenia mutabilis* Fall. as parasite of *Lema melanopa* L. and its relations to *Leptinotarsa decemlineata* Say. (Se) Zastita Bilja 93/95:93-100. 1967. 464.8 Z1  
English summary.
- 93794 BRIDGES, R. G., and RICKETTS, J. The incorporation, in vivo, of aminoalcohols into the phospholipids of the larva of the housefly, *Musca domestica*. J. Insect Physiol. 13(6):835-850. Ref. June 1967. 421 J825
- 93795 CHIKAKI, H. Field experiments on the control of house flies with chemosterilants. (Ja) Shimane Agr. Coll. Bull. 15(A-1):62-68, map. Ref. Jan.1967. S539.J3S5  
English summary.
- 93796 COMBIESCO, I., DUPORT, M., and ENESCO, A. Sterilization of the species *Musca domestica* L. by treatment with various chemical compounds - laboratory investigations. (Fr) Arch. Roumaines Pathol. Exp. Microbiol. 26(1):205-214. Mar.1967. 448.3 Ar23  
English summary.
- 93797 COUNCE, S. J., and BURKHOLDER, B. A pathogenic condition in a gall midge (*Heteropeza*). J. Invertebrate Pathol. 9(2):287-288. June 1967. 421 J826
- 93798 CRAIG, D. A. The eggs and embryology of some New Zealand Blepharoceridae (Diptera, Nematocera) with reference to the embryology of other nematocera. Roy. Soc. New Zeal. Zool. 8(18):191-206. Ref. Mar.21,1967. 514 W46Tz
- 93799 CRAIG, D. A. A reinterpretation of the larval maxilla of the Blepharoceridae (Diptera, Nematocera). Roy. Soc. New Zeal. Trans. Zool. 8. (17):188-189. Mar.8,1967. 514 W46Tz  
*Neocurupira chiltoni*, *N. hudsoni*, and *Hapalothrix lugubris*.
- 93800 CRYSTAL, M. M. Carbon dioxide anesthesia of untreated and chemosterilant-treated screw-worm flies, *Cochliomyia hominivorax* (Coquerel). J. Med. Ent. 4(4):415-418. Nov. 1967. 421 J828
- 93801 CRYSTAL, M. M. Longevity of screw-worm flies, *Cochliomyia hominivorax* (Coquerel) (Diptera: Calliphoridae): effect of sex and grouping. J. Med. Ent. 4(4):479-482. Ref. Nov.1967. 421 J828
- 93802 CRYSTAL, M. M. Reproductive behavior of laboratory-reared screw-worm [*Cochliomyia hominivorax*] flies (Diptera: Calliphoridae). J. Med. Ent. 4(4):443-450. Ref. Nov.1967. 421 J828
- 93803 DAVIS, N. T. Leishmaniasis in the Sudan Republic. 28. Anatomical studies on *Phlebotomus orientalis* Parrot and *P. papatasi* Scopoli (Diptera: Psychodidae). J. Med. Entomol. 4(1):50-65. Ref. Apr.25,1967. 421 J828
- 93804 DETHIER, V. G., and GELPERIN, A. Hyperphagia in the blowfly [*Phormia regina*]. J. Exp. Biol. 47(1):191-200. Aug.1967. 442.8 B77

General Entomology  
Diptera

- 93805 DUSEK, J., and KRISTEK, J. Data on the syrphid larvae (Diptera, Syrphidae) in the galls of poplar aphids (Homoptera, Pemphigidae). (Ge) Z. Angew. Entomol. 60(1):124-136. Ref. June 1967. 421 Z36  
English summary.  
Czechoslovakia.
- 93806 DYTE, C. E. Some distinctions between the larvae and pupae of the Empididae and Dolichopodidae (Diptera). Roy. Entomol. Soc. London. Proc. Ser. A, Gen. Entomol. 42(7/9):119-128. Ref. Sept.26,1967. 420 L84Pa
- 93807 EDSTROM, J. E., and DANEHOLT, B. Sedimentation properties of the newly synthesized RNA from isolated nuclear components of *Chironomus tentans* salivary gland cells. J. Mol. Biol. 28(2):331-343. Ref. Sept.14,1967. 442.8 J8224
- 93808 GERSDORF, E., and LUCKE, E. Studies of the effect of windbreaks on the populations of meadow crane flies (*Tipula spec.*) on the meadow moors of northwest Germany. (Ge) Z. Angew. Entomol. 60(1):60-80. Ref. June 1967. 421 Z36  
English summary.
- 93809 GEWECKE, M. The motor apparatus in the antennae of *Calliphora erythrocephala*. (Ge) Z. Morphol. Okol. Tiere 59(2):95-133. Ref. June 12,1967. 442.8 Z33  
English summary.
- 93810 GUTTMAN, D. MS-222 Sandoz as an anesthetic for black fly larvae (Diptera: Simuliidae). J. Med. Ent. 4(4):477-478. Nov.1967. 421 J828
- 93811 HAYAKAWA, H., and KISHINO, K. Studies on the bionomics of the rice stem maggot in Nagano Prefecture. 4 p. Transl. 16844  
Chlorops oryzae.  
Translation from Kanto-Tosan Plant Protection Society. Proceedings 9:52. 1962.
- 93812 HERREBOUT, W. M. The fate of the eggs of *Eucarcelia rutilla* Vill. (Diptera: Tachinidae) deposited upon the integument of the host. Z. Angew. Entomol. 58(4):340-355. Ref. Dec. 1966. 421 Z36  
Lepidoptera and Tenthredinidae as hosts.
- 93813 HUMMADI, M. K., and DEFOLIART, G. R. Biology of *Hippelates pallipes* and *H. bishoppi* (Diptera: Chloropidae) in Wisconsin. J. Med. Entomol. 4(1):66-70. Apr.25,1967. 421 J828
- 93814 JACOB, J. An electron microscope autoradiographic study of the site of initial synthesis of RNA in the nucleolus of *Smittia*. Exp. Cell Res. 48(2):276-282. Ref. Nov.1967. 442.8 Ex7
- 93815 JONES, C. M. Stable flies [*Stomoxys calcitrans*]. In Smith, C. N., ed. Insect colonization and mass production, p.145-152. Ref. 1966. QL497.S6
- 93816 KAWASE, S., and HUKUHARA, T. Amino acid composition of the *Tipula* iridescent virus. J. Invertebrate Pathol. 9(2):273-274. June 1967. 421 J826
- 93817 KIKNADZE, I. I. The structure of nucleolar organizer in *Chironomus dorsalis*. (Rus) Tsitologiya 9(8):901-911. Ref. Aug.1967. 442.8 T78  
English summary.
- 93818 LACHINOVA, R. I. Changes in cytochrome oxidase activity of thoracic musculature of flies at different stages of oogenesis. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 1(37): 41-43. 1967. 442.8 N22  
*Musca domestica*.
- 93819 MATILE, L. The invasions of the cluster fly [*Pollenia rudis*]. (Fr) Entomologiste (Paris) 23(3):74-78. Ref. June 1967. 421 En814  
Biology.
- 93820 MATSUMOTO, Y., and THORSTEINSON, A. J. A simple method for rearing the onion maggot, *Hylemya antiqua* Meigen (Diptera: Anthomyiidae) in the laboratory. Appl. Entomol. Zool. 2(1):58-59. Mar.1967. SB599.A6
- 93821 NACHTIGALL, W., and WILSON, D. M. Neuro-muscular control of dipteran flight. J. Exp. Biol. 47(1):77-97. Ref. Aug.1967. 442.8 B77
- 93822 OSBORNE, M. P. The fine structure of neuromuscular junctions in the segmental muscles of the blowfly [*Phormia terrae-novae*] larva. J. Insect Physiol. 13(6):827-833. Ref. June 1967. 421 J825
- 93823 OVAZZA, M., RENARD, J., and BALAY, G. Study of *Simulium damnosum* Theobald, 1903 populations (Diptera, Simuliidae) in zones of non permanent breeding places. III. Possible correlation between some meteorological phenomena and the reappearance of females at the beginning of the rainy season. (Fr) Soc. Pathol. Exot. Bull. 60(1):79-95. Ref. Jan./Feb.1967. 448.9 So13  
English summary.
- 93824 PAMPIGLIONE, S. *Leptomonas oesteri* n. sp., flagellar parasite in the digestive tract of the larvae of *Oestrus ovis*. Parasitol. 9(2):89-100. Ref. Oct.1967. 436.8 P212
- 93825 PIHAN, J. C. Study of dermic glands and their secretory cycle in the larvae of *Tipula flavolineata*. (Fr) Acad. Sci. Compt. Rend. Ser. D, 265(17):1202-1205. Ref. Oct.23,1967. 505 P21
- 93826 PIHAN, J. C. Study of tracheal units and tracheal nodule cells of *Tipula flavolineata* Meig. (Fr) Acad. Sci. Compt. Rend. Ser. D, 264(19): 2311-2313. May 8,1967. 505 P21
- 93827 RAATIKAINEN, M., SAVAS, O. E., and TINNILA, A. *Contarinia kanervoi* Barnes (Dipt., Itonididae), bionomics damage and control. Ann. Agr. Fenn. 6(4):145-158, map. Ref. 1967, pub.1968. 20 An7
- 93828 REZABOVA, B., and LANDA, V. Effect of 6-azauridine on the development of the ovaries in the house fly *Musca domestica* L. (Diptera). Acta Entomol. Bohemoslov. 64(5):344-351. Ref. Sept.20,1967. 420 C33
- 93829 RICO, G. Contribution to the knowledge of the timothy grass [*Phleum pratense*] fly (*Amaurosoma flavipes* Fall.) in France. (Ge) Z. Angew. Entomol. 59(3):249-259, map. Mar.1967. 421 Z36  
Biology and ecology.
- 93830 RIEDEL, M. Biology, breeding and sterilization of cabbage maggot [*Phorbia brassicae* Bouche] as regards its presence in the radish culture. (Ge) Bayer. Landwirt. Jahrbuch 44(4):387-429. Ref. 1967. 18 L24
- 93831 ROCKSTEIN, M., DAUER, M., and BHATNAGAR, P. L. Further studies on the effect of X-irradiation on the house fly, *Musca domestica* L. Radiat. Res. 31(4):840-845. Ref. Aug.1967. 334.8 R11
- 93832 SACKTOR, B., and CHILDRESS, C. C. Metabolism of proline in insect flight muscle and its significance in stimulating the oxidation of pyruvate. Arch. Biochem. Biophys. 120(3): 583-588. Ref. June 1967. 381 Ar2  
*Phormia regina*.
- 93833 SAUNDERS, D. S. Survival and reproduction in a natural population of the tsetse fly, *Glossina palpalis palpalis* (Robineau-Desvoidy). Roy. Entomol. Soc. London. Proc. Ser. A, Gen. Entomol. 42(7/9):129-138. Ref. Sept.26,1967. 420 L84Pa
- 93834 SCHIN, K. S., and CLEVER, U. Ferritin-uptake by salivary glands of *Chironomus tentans* and its intracellular localization. Exp. Cell Res. 49(1):208-211. Jan.1968. 442.8 Ex7
- 93835 SCHOELLER-RACCAUD, J. The possible regulation of imago labial disks of *Calliphora erythrocephala* Meigen. (Fr) Acad. Sci. Compt. Rend. Ser. D, 265(17):1230-1233. Oct.23,1967. 505 P21
- 93836 SCOTT, K. M. F. The larval and pupal stages of the midge *Tanytarsus* (*Rheotanytarsus*) *fuscus* Freeman (Diptera: Chironomidae). Entomol. Soc. Southern Afr. J. 30(2):174-184. Ref. Sept.30,1967. 420 En86
- 93837 SNODDY, E. L. The common grackle, *Quiscalus quiscula* L. (Aves: Icteridae), a predator of *Simulium pictipes* Hagen larvae (Diptera: Simuliidae). Ga. Entomol. Soc. J. 2(2):45-46. Apr. 1967. QL461.G4



- 93838 STEFFAN, J. R. *Exoprosopa stupida* (Rossi) (Diptera Bombyliidae), parasite of the ant lion [Myrmeleon] in the old world. (Fr) Entomologiste (Paris) 23(3):78-80. Ref. 421 En814
- 93839 STEGMAIER, C. E. Host plants of *Liriomyza brassicae*, with records of their parasites from south Florida (Diptera: Agromyzidae). Fla. Entomol. 50(4):257-261. Dec.1967. 420 F662
- 93840 STEINER, L. F., and MITCHELL, S. Tephritid fruit flies. In Smith, C. N., ed. Insect colonization and mass production, p.555-583. Ref. 1966. QL497.S6
- 93841 STEYSKAL, G. C. Notes on some older types of Neotropical Micropezidae with descriptions of new species (Diptera, Acalyptratae). Sao Paulo Dep. Zool. Papeis Avulsos 20(8):75-83. 1967. 410.9 Sa63  
Taenaptera dilator n. sp., T. wulpi n. sp., T. gratula n. sp.
- 93842 SUGIMOTO, T. A simple method for determination of larval instars of a leaf mining fly, *Phytomyza ranunculi*. (Ja) Jap. J. Appl. Entomol. Zool. 11(3):114-118. Ref. Sept.1967. 475 J27  
English summary.
- 93843 SYRJAMAKI, J. Laboratory studies on the swarming behaviour of *Chironomus strenzkei* Fittkau in litt. (Dipt., Chironomidae). Ann. Zool. Fenn. 4(1):19-28. Ref. 1967. 410 An712  
Effect of light.
- 93844 TICHELER, J. H. G. Study of the possibility of application of the sterile male technique on the onion fly [*Hylemya antiqua*]. (Du) Neth. Dir. Tuinbouw. Mededel. 30(6):257-260. June 1967. 86 N384  
English summary, p.276.
- 93845 TRIBE, M. A. Changes taking place in the respiratory efficiency of isolated flight muscle sarcosomes, associated with the age of the blowfly, *Calliphora erythrocephala*. Compar. Biochem. Physiol. 23(2):607-620. Ref. Nov. 1967. 444.8 C73
- 93846 TZANAKAKIS, M. E., ECONOMOPOULOS, A. P., and TSITSIPIS, J. A. Improved artificial food media for larvae of *Dacus oleae* (Gmelin) (Diptera: Tephritidae). Z. Angew. Entomol. 58(4):373-383. Ref. Dec.1966. 421 Z36
- 93847 WHITSEL, R. H., and SCHOEPPNER, R. F. Parasitic trombidid mites on *Dasyhelea mutabilis* (Coquillett) (Diptera: Ceratopogonidae). Entomol. Soc. Wash. Proc. 69(3):284-286. Sept. 1967. 420 W27  
Valgothrombium.
- 93848 WILSON, V. J., and ROTH, H. H. The effects of tsetse control operations on common duiker in eastern Zambia. East Afr. Wildlife J. 5:53-63, map. Ref. Aug.1967. 409.6 Ea7  
Biological control.
- 93849 WIMER, L. T., and LUMB, R. H. Lipid composition of the developing larval fat body of *Phormia regina*. J. Insect Physiol. 13(6):889-898. Ref. June 1967. 421 J825

General Entomology  
Culicidae

- 93850 AKOV, S. Effect of folic acid antagonists on larval development and egg production in *Aedes aegypti*. J. Insect Physiol. 13(6):913-923. Ref. June 1967. 421 J825  
Aminopterine and methotrexate (amethopterine).
- 93851 COLUZZI, M., and SABATINI, A. Cytogenetic observations on species A and B of the *Anopheles gambiae* complex. Parasitol. 9(2):73-88. Ref. Oct.1967. 436.8 P212
- 93852 DANDUROV, YU. V. On relationship between levels of antibody titers to Japanese encephalitis virus and incidence of the disease and frequency of mosquito attacks and the amount of virus inoculum. (Rus) Vop. Virusol. 3:362-363. 1967. 448.8 P942
- 93853 DEFOLIART, G. R. *Aedes canadensis* (Theobald) feeding on Blanding's turtle. J. Med. Entomol. 4(1):31. Apr.25,1967. 421 J828

- 93854 GAHAN, J. B. *Anopheles quadrimaculatus* Say. In Smith, C. N., ed. Insect colonization and mass production, p.85-100. Ref. 1966. QL497.S6
- 93855 GUNSTREEM, S. E., and CHEW R. M. A comparison of mosquito collection by Malaise and miniature light traps. J. Med. Ent. 4(4):495-496. Nov.1967. 421 J828
- 93856 HARADA, R., MORIYA, K., and YABE, T. Observations on the habits of feeding and oviposition of *Culex tritaeniorhynchus* Giles. (Ja) Jap. J. Appl. Entomol. Zool. 11(3):83-89. Ref. Sept.1967. 475 J27  
English summary.
- 93857 HAZARD, E. I., TURNER, R. B., and LOFGREN, C. S. Mosquito growth stimulating substances associated with infusions. J. Med. Ent. 4(4):455-460. Ref. Nov.1967. 421 J828
- 93858 JUPP, P. G. Larval habitats of culicine mosquitoes (Diptera: Culicidae) in a sewage effluent disposal area in the South African High Veld. Entomol. Soc. Southern Afr. J. 30(2):242-250. Ref. Sept.30,1967. 420 En86
- 93859 KLEWER, J. W., and others. Swarming and mating of some California mosquitoes. J. Med. Ent. 4(4):490-494. Ref. Nov.1967. 421 J828  
B. Rosay, T. Miura, C. M. Myers, and M. M. Boreham, joint authors.
- 93860 NAIR, K. K. Susceptibility of mosquito [*Culiseta inornata*] larvae to a synthetic juvenile hormone, farnesyl diethylamine. Naturwissenschaften 54(18):494-495. Sept.15,1967. 474 N213
- 93861 ODINTSOV, V. S., and PETRENKO, V. S. Dynamics and physiologic role of acetylcholinesterase, aliphatic and aromatic esterase in the ontogeny of blood-sucking mosquitoes of the genus *Aedes*. (Rus) Akad. Nauk SSSR. Dokl. 179(4):1001-1004. Ref. 1968. 511 P555A
- 93862 PENNINGTON, N. E. Comparison of DDVP and cyanide as killing agents in mosquito light traps. J. Med. Ent. 4(4):518. Nov.1967. 421 J828
- 93863 PROVOST, M. W., and HAEGER, J. S. Mating and pupal attendance in *Deinocerites cancer* and comparisons with *Opifex fuscus* (Diptera: Culicidae). Entomol. Soc. Amer. Ann. 60(3):565-574. Ref. May 15,1967. 420 En82
- 93864 SANDESCO, I. Chemosterilization of *Anopheles* of the maculipennis group from the laboratory stock and from the field by treatment of the adult stage. (Fr) Arch. Roumaines Pathol. Exp. Microbiol. 26(4):821-828. Dec.1967. 448.3 AR22
- 93865 SATLJA, R. C., and SUD, S. Postembryonic development of the eye ganglia in *Anopheles stephensi* Liston. Panjab. Univ. Res. Bull. 18 (1/2):127-134. Ref. June 1967. 513 Ea72
- 93866 STOBART, R. H. The effect of some anions and cations upon the fluxes and net uptake of chloride in the larva of *Aedes aegypti* (L.) and the nature of the uptake mechanisms for sodium and chloride. J. Exp. Biol. 47(1):35-57. Ref. Aug.1967. 442.8 B77  
Using radioactive sodium and chlorine.

General Entomology  
Drosophila

- 93867 AUERBACH, C. The chemical production of mutations. Science 158(3805):1141-1147. Ref. Dec.1,1967. 470 Sci2  
Includes *Drosophila*.
- 93868 AYALA, F. J. Evolution of fitness. II. Correlated effects of natural selection on the productivity and size of experimental populations of *Drosophila serrata*. Evolution 22(1):55-65. Ref. Mar.1968. 443.8 Ev62
- 93869 BARKER, J. S. F. Factors affecting sexual isolation between *Drosophila melanogaster* and *Drosophila simulans*. Amer. Natur. 101(919):277-287. Ref. May/June 1967. 470 Am36
- 93870 BAUMILLER, R. C. Effect of sigma virus on developmental delay in *Drosophila melanogaster* caused by X-ray induced mutants in heterozygous condition. Mutation Res. 4(6):831-836. Ref. Nov./Dec.1967. 443.8 M98

- 93871 BEARDMORE, J. A. *Drosophila andalusica*, a polymorphic species new to Holland. Arch. Neer. Zool. 17(2):275-277. June 1967. 410 Ar27
- 93872 BECKER, H. J. Genetic and variegation mosaics in the eye of *Drosophila*. Curr. Top. Develop. Biol. 1:155-171. 1966. QL951.C8  
Review of the literature.
- 93873 COME, T. V., and NASH, D. J. Effects of selection expressed at different temperatures in irradiated and non-irradiated lines of *Drosophila melanogaster*. Penn. Acad. Sci. Proc. 40(2):7-13. Ref. June 1967. 500 P383
- 93874 CUNHA, A. B. DA, and others. Chromosomal diseases in "*Drosophila willistoni*" Sturtevant. Rev. Brasil. Biol. 27(2):113-123. Ref. Aug. 1967. 442.8 R326  
Z. M. Franca, A. M. A. Goncalves, A. Hitelman, and M. Garrido, joint authors.
- 93875 DAVID, J., and VAGO, C. The effect of toxins of *Bacillus thuringiensis* on different physiological features on adult *Drosophila*. (Fr) Entomophaga 12(2):153-159. 1967. 421 En835  
English summary.  
*Drosophila melanogaster*.
- 93876 DAVID, J., and CLAVEL, M. F. Effects of temperature on the mortality of *Drosophila* larvae and nymphs, and the duration of development. (Fr) Natur. Can. 94(2):209-219. Ref. Mar./Apr. 1967. 410 N216  
English summary.
- 93877 DOBZHANSKY, T. EHRMAN, L., and KAS-TRITSIS, P. A. Ethological isolation between sympatric and allopatric species of the obscura group of *Drosophila*. Anim. Behav. 16(1):79-87. Ref. Feb. 1968. 410 B77
- 93878 EHRMAN, L. Further studies on genotype frequency and mating success in *Drosophila*. Amer. Natur. 101(921):415-424. Ref. Sept./Oct. 1967. 470 Am36
- 93879 FALK, R. Fitness of heterozygotes for irradiated chromosomes in *Drosophila*. Mutation Res. 4(6):805-819. Ref. Nov./Dec. 1967. 443.8 M98  
*Drosophila melanogaster*.
- 93880 FALK, R. Viability coefficients and preferential recovery. Mutation Res. 4(6):821-830. Ref. Nov./Dec. 1967. 443.8 M98  
Mutations in *Drosophila*.
- 93881 FOURCHE, J. Action of ecdysone on the larvae of *Drosophila melanogaster* subjected to fasting; existence of double conditioning for the formation of the puparium. 2 p. Transl. 16863  
Translation from Academie des Sciences. Comptes Rendus. Serie D, 264(20):2398-2400. May 17, 1967.
- 93882 FOURCHE, J. Determining molts and metamorphoses in *Drosophila melanogaster*; the influence of the food and of the supply of ecdysone (Fr) Arch. Anat. Microscop. Morphol. Exp. 56(2):141-152. Ref. Apr./June 1967. 444.8 Ar21  
English summary.
- 93883 GHOSH, D., and FORREST, H. S. Inhibition of tryptophan pyrrolase by some naturally occurring pteridines. Arch. Biochem. Biophys. 120(3):578-582. June 1967. 381 Ar2  
Includes *Drosophila melanogaster*.
- 93884 GLEMBOTZKII, YA. L., and others. Causes of variegated inheritance of recessive sex-linked lethal mutations in *Drosophila melanogaster*. (Rus) Genetika 3:68-75. Ref. 1967. QH431 .A1G4  
E. A. Abeleva, T. YA. Grozdova, and E. N. Myasnyankina, joint authors.  
English summary.  
After treatment with X-rays, gamma rays and chemical mutagens.
- 93885 GRELL, E. H. Electrophoretic variants of alpha-glycerophosphate dehydrogenase in *Drosophila melanogaster*. Science 158(3806):1319-1320. Ref. Dec. 8, 1967. 470 Sci2
- 93886 HERRENG, F. Study of multiplication of Sindbis arbovirus in *Drosophila*. (Fr) Acad. Sci. C. R., Ser. D, 264(24):2854-2857. June 12, 1967. 505 P21
- 93887 HOENIGSBERG, H. F., CASTRO, L. E., and GRANOBLES, L. A. Population genetics in the American Tropics. III. The genetic role of heterozygous individuals in various Colombian populations of *D. melanogaster*. Evolution 22(1):66-75. Ref. Mar. 1968. 443.8 Ev62
- 93888 KALE, P. G. Crossing-over in the males of *Drosophila ananassae*: exchanges in irradiated pupae. Int. J. Radiat. Biol. 13(1):1-12. Ref. 1967. 444.8 In8
- 93889 KALE, P. G. Induced crossing-over in the males of *Drosophila ananassae*: exchanges mainly in spermatocytes of adults. Mutation Res. 4(5):631-639. Ref. Sept./Oct. 1967. 443.8 M98  
Under X-rays.
- 93890 KEITH, A. D., GAUSLAA, G., and ANDERSON, B. S. In vitro biosynthesis of fatty acids in *Drosophila melanogaster*. Lipids 2(5):429-431. Ref. Sept. 1967. QP751.L5
- 93891 KHRISTOLYUBOVA, N. B., and AUSLENDER, I. E. Unique inheritance of functional chromosome changes in salivary gland cells of *Drosophila melanogaster*. (Rus) Genetika 3:76-79. Ref. 1967. QH431.A1G4  
English summary.
- 93892 KUROKAWA, H. Variation in male genitalia of *Drosophila auraria* collected in nature. Annot. Zool. Jap. 40(3):154-160. Sept. 1967. 410 AN79
- 93893 LAUGE, G. Origin and growth of the genital disk in *Drosophila melanogaster*. (Fr) Acad. Sci. Compt. Rend. Ser. D, 265(11):814-817. Ref. Sept. 11, 1967. 505 P21
- 93894 LEVINE, L., and CARMODY, G. R. Opposite heterotic effects on male weights of reciprocal species hybrids. Amer. Natur. 101(918):189-191. Mar./Apr. 1967. 470 Am36  
*Drosophila pseudoobscura* and *D. persimilis*.
- 93895 MANNING, A. The effects of artificial selection for slow mating in *Drosophila simulans*. I. Anim. Behav. 16(1):108-113. Feb. 1968. 410 B77
- 93896 MATHER, W. B. The genus *Drosophila* in New Guinea and Sabah. Queensland. Univ. Dep. Zool. Papers 3(4):47-50, map. Ref. Jan. 30, 1968. 410.9 Q34
- 93897 MATSUDAIRA, Y., and ITO, T. The bearing of fractional-body mutations on the mutational load. Jap. J. Genet. 42(4):221-226. Ref. Aug. 1967. 442.9 J27  
*Drosophila*.
- 93898 MITTLER, S., and others. The effect of caffeine on chromosome loss and nondisjunction in *Drosophila*. Mutation Res. 4(5):708-710. Ref. Sept./Oct. 1967. 443.8 M98  
J. E. Mittler, A. M. Tonetti, and M. E. Szymczak, joint authors.
- 93899 NARDA, R. D. Experimental evaluation of the stimuli involved in sexual isolation among three members of the *ananassae* species subgroup (*Sophophora*, *Drosophila*). Anim. Behav. 16(1):117-119. Ref. Feb. 1968. 410 B77  
*Drosophila malerkotliana*, *D. bipectinata*, and *D. ananassae*.
- 93900 NASH, D. J., and COME, T. V. Sex ratio in *Drosophila melanogaster* as modified by temperature and genotype. Penn. Acad. Sci. Proc. 40(2):1-6. Ref. June 1967. 500 P383
- 93901 PARKER, D. R. Induced heterologous exchange at meiosis in *Drosophila* [*D. melanogaster*]. I. Mutation Res. 4(3):333-337. Ref. May/June 1967. 443.8 M98  
Chromosome exchanges induced with X-rays.
- 93902 PIPKIN, S. B. Introgression between closely related species of *Drosophila* in Panama. Evolution 22(1):140-156. Ref. Mar. 1968. 443.8 Ev62
- 93903 PLATOVA, T. P. The role of nurse cell nuclei in the formation of oocyte cytoplasmic DNA in *Drosophila* [virilis]. (Rus) Tsitologiya 9(7):834-839. Ref. July 1967. 442.8 T78  
English summary.
- 93904 PLESSMANN CAMARGO, E., and PLAUT, W. The radioautographic detection of DNA with tritiated actinomycin D. J. Cell. Biol. 35(3):713-716. Ref. Dec. 1967. 442.8 J828  
In species of *Drosophila* and *Leishmania*.



- 93905 PROUST, J. The action of UV [ultraviolet radiation] on genetic recombination in *Drosophila melanogaster* oögonia. (Fr) *Mutation Res.* 4(6):837-863. Ref. Nov./Dec.1967. 443.8 M98  
English summary.
- 93906 RATNAYAKE, W., STRACHAN, C., and AUERBACH, C. Genetical analysis of the storage effect of triethylene melamine (TEM) on chromosome breakage in *Drosophila*. *Mutation Res.* 4(3):380-381. May/June 1967. 443.8 M98
- 93907 RINEHART, R. R., and RATTY, F. J. Mutation in *Drosophila melanogaster* cultured on irradiated whole food or food components. *Int. J. Radiat. Biol.* 12(4):347-354. Ref. 1967. 444.8 In8
- 93908 RODMAN, T. C. Control of polytenic replication in dipteran larvae. I-II. *J. Cell. Physiol.* 70(2,pt.1):179-190. Ref. Oct.1967. 444.8 J822  
*Drosophila melanogaster*; increased number of cycles in a mutant strain and effect of growth temperature.
- 93909 SANDBORN, E. B., and others. Atypical intestinal striated muscle in *Drosophila melanogaster*. *J. Ultrastruct. Res.* 18(5/6):695-702. Ref. June 1967. 440.8 J822  
S. Duclos, P. E. Messier, and J. J. Roberge, joint authors.
- 93910 SANKARANARAYANAN, K. The effects of nitrogen and oxygen treatments on the frequencies of X-ray-induced dominant lethals and on the physiology of the sperm in *Drosophila melanogaster*. *Mutation Res.* 4(5):641-661. Ref. Sept./Oct. 1967. 443.8 M98
- 93911 SATLJA, R. C., and AGGARWAL, V. Histological studies on postembryonic development of the brain of *Drosophila melanogaster*. *Panjab. Univ. Res. Bull.* 18(1/2):109-125. Ref. June 1967. 513 Ea72
- 93912 SATLJA, R. C., AGGARWAL, V. Postembryonic development of the eye and its ganglia of *Drosophila melanogaster*. *Panjab. Univ. Res. Bull.* 18(1/2):79-93. Ref. June 1967. 513 Ea72
- 93913 SCHAFFER, H. E. A measure of discrimination in mating. *Evolution* 22(1):125-129. Ref. Mar.1968. 443.8 Ev62  
Mating in *Drosophila*.
- 93914 SHIOMI, T. Sensitivity differences in the successive stages of spermatogenesis in *Drosophila* after irradiation in nitrogen or air. *Mutation Res.* 4(3):323-332. Ref. May/June 1967. 443.8 M98  
X-rays.
- 93915 SUZUKI, N. Variation in olfactory response of *Drosophila melanogaster* reared in constant darkness. (Ja) *Zool. Soc. Jap. Zool. Mag.* 76(1):13-20. Ref. Jan.1967. 410.9 T57  
English summary.  
Chemoreception.
- 93916 TIMOFEEV-RESOVSKII, N. V., and SVIREZHEV, YU. M. Genetic polymorphism in populations—experimental and theoretical studies. (Rus) *Genetika* 10:152-166. Ref. Oct.1967. QH431.A1G4  
English summary.  
*Drosophila funebris*, *D. melanogaster*, and *Adalia bipunctata*.
- 93917 TOKUMITSU, T., SHIMA, T., and KANEKO, A. *Drosophila* survey of Hokkaido. XXIII. A karyotype study in seven species of the quinaria and the robusta groups. *Jap. J. Genet.* 42(4):279-282. Aug.1967. 442.9 J27
- 93918 VOGEL, S. Flight in *Drosophila*. II. Variations in stroke parameters and wing contour. *J. Exp. Biol.* 46(2):383-392. Ref. Apr.1967. 442.8 B77
- 93919 WALTON, P. D. Factors affecting geotaxis scores in *Drosophila melanogaster*. *J. Compar. Physiol. Psychol.* 65(1):186-190. Feb.1968. 410 J822  
Genetics.
- General Entomology  
Hemiptera (Heteroptera and Homoptera)
- 93920 ASHHURST, D. E. Erratum; Z-line of the flight muscle of Belostomatid water bugs. *J. Mol. Biol.* 30(2):441. Dec.14,1967. 442.8 J8224  
Correction of legend for a plate; original article appeared in *J. Mol. Biol.* 27:385-389. 1967.
- 93921 BAGGIOLINI, M., and others. The green leafhopper *Empoasca flavescens* F. (Homopt., Typhlocybidae), agent of foliar alterations on grapes. (Fr) *Schweiz. Landwirt. Forsch.* 7(1):43-69. Ref. 1968. 17 Sch99  
V. Canevascini, Y. Tencalla, B. Caccia, G. Sobrio, and S. Cavalli, joint authors.  
English summary.  
Includes ecology, morphology, and biology of the insect.
- 93922 BAI, D. H., BAIK, M. K., and CHOI, K. M. Studies on the life history of the smaller brown planthopper (*Laodelphax striatellus* Follen). 1. (Ko) Korea. *Min. Agr. Forest. Offic. Rural Develop. Res. Rep.* 10(3):91-95. Ref. Sept. 1967. 22.5 K843  
English summary.
- 93923 BASDEN, R. The occurrence and composition of the sugars in the honeydew of *Eriococcus coriaceus* (Mask.). *Linn. Soc. New S. Wales. Proc.* 92(3):222-226. Ref. 1968. 514 Sy2
- 93924 BHARGAVA, S. The retrocerebral complex of *Lethocerus indicum* (Hemiptera: Belostomatidae). *Indian J. Entomol.* 29(1):92-94. Mar. 1967. 420 In23
- 93925 BOGAVAC, M. Study of *Psylla pruni* Scop. (Se) *Zastita Bilja* 93/95:169-171. 1967. 464.8 Z1  
German summary.  
Biology.
- 93926 BOTTGER, G. T. Lygus bugs. In Smith, C. N., ed. *Insect colonization and mass production*, p.425-427. 1966. QL497.S6  
Lygus hesperus, L. lineolaris, and L. elisus.
- 93927 BUCK, R. C. Mitosis and meiosis in *Rhodnius prolixus*: the fine structure of the spindle and diffuse kinetochore. *J. Ultrastruct. Res.* 18(5-6):489-501. Ref. June 1967. 440.8 J822
- 93928 BURDEN, G. S. Bed bugs. In Smith, C. N., ed. *Insect colonization and mass production*, p.175-182. Ref. 1966. QL497.S6  
Cimex lectularius and C. hemipterus.
- 93929 CATLING, H. D., and ANNECKE, D. P. Ecology of citrus psylla [*Trioxa erytreae*] in the Letaba district of Northern Transvaal. *S. Afr. Citrus J.* 410:9-14,17. Ref. Feb.1968. 80 C495
- 93930 CHAUHAN, N. S. A colour mutant in the Indian lac insect [*Kerria lacca*]. *Indian J. Entomol.* 29(2):216-217. June 1967. 420 In23
- 93931 CHAUHAN, N. S., and MAJUMDAR, N. Genetic evidence of "spurious emergence" in the Aghani generation of *Kerria lacca* (Kerr). *Indian J. Entomol.* 29(2):218-219. June 1967. 420 In23
- 93932 CHAUHAN, N. S. A study of possible correlations among some of the economic attributes of the lac insect, *Kerria lacca* (Kerr). *Indian J. Entomol.* 29(2):145-148. June 1967. 420 In23  
Effect of size on fecundity and output of lac resin.
- 93933 COLLYER, E. On the ecology of *Anthocoris nemorum* (L.) (Hemiptera-Heteroptera). *Roy. Entomol. Soc. London. Proc. Ser. A, Gen. Entomol.* 42(7/9):107-118. Ref. Sept.26,1967. 420 L84Pa
- 93934 DENIS, J. R. Complements and corrections to Vol. VIII of the treatise of P. P. Grasse (Morphology of Arthropods). 10. (Fr) *Dijon Univ. Lab. Zool. Trav.* 72:1-42. 1967. 410.9 D56  
Anatomy and morphology of Hemiptera, Heteroptera, Dysdercus and Orchesella.
- 93935 DENIS, J. R. Complements and corrections to Vol. VIII of the treatise of P. P. Grasse (Morphology of Arthropods). 12. (Fr) *Dijon Univ. Lab. Zool. Trav.* 74:1-42. 1967. 410.9 D56  
Anatomy and morphology of Heteroptera and Dysdercus.

- 93936 ELLIOTT, J. M., and ELLIOTT, J. I. The structure and possible function of the buccopharyngeal teeth of *Sigara dorsalis* (Leach) (Hemiptera: Corixidae). Roy. Entomol. Soc. London. Proc. Ser. A, Gen. Entomol. 42(4/6): 83-86. June 27, 1967. 420 L84Pa
- 93937 GIANNOTTI, J. Anatomical and histophysiological observations of the alimentary canal of *Saissetia oleae* Bernard and *Saissetia hemisphaerica* Targ. (Fr) Ann. Epiphyt. 18(1):5-25. Ref. 1967. 464.9 F84AN  
English summary.
- 93938 GILIOME, J. H. The morphology and relationships of the male of *Lecanodiaspis elytrappi* Munting and *Giliome* (Homoptera: Coccoidea). Entomol. Soc. Southern Afr. J. 30 (2):185-197. Ref. Sept.30,1967. 420 En86
- 93939 GRIGOROV, S. Contribution to the study on the biology of aphids of *Dysaphis* genus on apple and their control. (Bu) Gradinar. Lozar. Nauk. 4(6): 33-43. Ref. 1967. 87 G75  
English summary.  
*Dysaphis denecta* and *D. mali*.
- 93940 HALKKA, O., and others. Ecology and ecological genetics of *Phlaenus spumarius* (L.) (Homoptera). Ann. Zool. Fenn. 4(1):1-18. Ref. 1967. 410 An712  
M. Raatikainen, A. Vasarainen, and L. Heinonen, joint authors.
- 93941 HARRIES, F. H. Aphids. In Smith, C. N., ed. Insect colonization and mass production, p.429-444. Ref. 1966. QL497.S6
- 93942 JASIC, J. A contribution to the knowledge of the diapause in *Perillus bioculatus* (Fabr.) (Heteroptera, Pentatomidae). Acta Entomol. Bohemoslov. 64(5):333-334. Sept.20,1967. 420 C33
- 93943 KAWAI, S., and TAMAKI, Y. Morphology of *Ceroplastes pseudoceriferus* Green with special reference to the wax secretion. Appl. Entomol. Zool. 2(3):133-146. Sept.1967. SB599.A6
- 93944 KEHAT, M. Some notes on the life cycle of the date palm scale, *Parlatoria blachardi* Targ., in Israel. Israel J. Agr. Res. 17(3):175-179. July 1967. 107 J552
- 93945 KIRITANI, K., HOKYO, N., and KIMURA, K. The study on the regulatory system of the population of the southern green stink bug, *Nezara viridula* L. (Heteroptera: Pentatomidae) under semi-natural conditions. Appl. Entomol. Zool. 2(1):39-50. Ref. Mar.1967. SB599.A6
- 93946 KOBAYASHI, T. The developmental stages of some species of the Japanese Pentatomidae (Hemiptera). XVI. Homalogonia and an allied genus of Japan (Pentatomidae). Appl. Entomol. Zool. 2(1):1-8. Ref. Mar.1967. SB599.A6  
Includes *Halyomorpha*.
- 93947 KOMOSINSKA, H., and PODSIADLO, E. Materials on the fauna of scale insects (Homoptera, Coccoidea) - steppe reservations in the Nida Valley (South Poland). I. Acad. Polon. Sci. Bull. Ser. Sci. Biol. 15(11):683-686. Ref. 1967. 512 W262
- 93948 KOPPANYI, T. Study of the Heteroptera populations of the grasslands of Hortobagy. (Hu) Debrecen. Agrartud. Foisk. Tud. Kozlemenyei 11:155-162. 1965, pub.1966. 105.9 D35
- 93949 KUITERT, L. C. Observations on the biology bionomics and control of white peach scale, *Pseudaulacaspis pentagona* (Targ.). Fla. State Hort. Soc. Proc. 80:376-381. May 1, 1968. 81 F66
- 93950 LAMBERS, D. H. R. Notes on some Japanese Eriosomatinae (Homopt., Aphididae) and their life cycle. Entomol. Ber. 27(5):86-89. Ref. May 1, 1967. 420 N38B
- 93951 LEWIS, J. M., and TEW, R. P. A note on the incompatibility of two pre-blossom aphicides (demeton-S-methyl and dimethoate) with lime-sulphur. East Malling Res. Sta. Annu. Rep. Apr.1968:183-184. 103 Ea7
- 93952 LOPER, G. M. Effect of aphid infestation on the coumestrol content of alfalfa varieties differing in aphid resistance. Crop Sci. 8(1):104-106. Ref. Jan./Feb.1968. 64.8 C883
- 93953 MAILLET, P. L., and FELLIOT, R. The pressure of a virus in the testis of a Homoptera [*Typhlocyba douglasi*]. (Fr) Acad. Sci. C. R., Ser. D. 264(24):2828-2831. June 12, 1967. 505 P21
- 93954 MITIC-MUZINA, N. Parasites of *Sphaerolecanium prunastri* Fonsc. (Homoptera, Coccoidea). (Se) Zastita Bilja 93/95:183-187. 1967. 464.8 Z1  
French summary.
- 93955 ORMEROD, W. E. The effect of *Trypanosoma rangeli* on the concentration of amino acids in the hemolymph of *Rhodnius prolixus*. J. Invertebrate Pathol. 9(2):247-255. Ref. June 1967. 421 J826
- 93956 OTAKE, A. Studies on the egg parasites of the smaller brown planthopper, *Laodelphax striatellus* (Fallen) (Hemiptera: Delphacidae). (Ja) Shikoku Agr. Exp. Sta. Bull. 17:91-103. Sept. 1967. 107.6 Z4  
English summary.
- 93957 PARSONS, M. C. Modifications of the prothoracic pleuron in *Hydrocorisae* (Heteroptera). Roy. Entomol. Soc. London. Trans. 119(7):215-234. Sept.26,1967. 420 L84  
In 10 species.
- 93958 PRABHU, V. K. K., ITTYCHERIA, P. I., and NAYAR, K. K. Influence of corpus allatum on reproduction of female *Ipitha limbata* Stal (Hemiptera). Acta Entomol. Bohemoslov. 64(5): 335-343. Ref. Sept.20,1967. 420 C33
- 93959 PUROHIT, M. L., RATHORE, V. S., and PATEL, R. K. Record of a larval mermithid parasite on *Sogata pallescens* Dist. Indian J. Entomol. 29(1):95. Mar.1967. 420 In23
- 93960 RAO, B. R., and GARG, M. L. Factor analysis as a multivariate statistical method in the study of the growth pattern of the antennae of *Gerris fluviatorum* F (Hem. Gerridae). Growth 31(4):331-343. Ref. Dec.1967. 442.8 G91
- 93961 RAUTAPAA, J. The bionomics of the raspberry aphids *Aphis idaei* v.d. Goot and *Amphorophora rubi* (Kalt.) (Hom., Aphididae). Ann. Agr. Fenn. 6(4):127-144, map. Ref. 1967, pub. 1968. 20 An7
- 93962 RAUTAPPA, J. Studies on the host plant relationships of *Aphis idaei* v.d. Goot and *Amphorophora rubi* (Kalt.) (Hom., Aphididae). Ann. Agr. Fenn. 6(4):174-190. Ref. 1967, pub.1968. 20 An7  
Aphid biology and raspberry resistance.
- 93963 ROTH, G. Studies of parasitic fungi on the cane pest *Numicia viridis* Muir. S. Afr. Sugar Technol. Ass. Proc. 1967:184-189. 65.9 So83
- 93964 SAINI, R. S. Low temperature tolerance of some insects. Indian J. Entomol. 29(2):135-138. June 1967. 420 In23  
*Macrosteles fascifrons*, *Oncopeltus fasciatus* and *Periplaneta americana*.
- 93965 SCHAEFER, C. W. The nymphs of *Idiostolus insularis* Berg (Hemiptera: Idiostolidae). Conn. Univ. Occas. Papers. Biol. Sci. Ser. 1(1):13-23. Ref. Dec.1966. QH301.C62
- 93966 SOGAWA, K. Chemical nature of the sheath materials secreted by leafhoppers (Homoptera). Appl. Entomol. Zool. 2(1):13-21. Ref. Mar. 1967. SB599.A6
- 93967 SONG, K. W., and CHANG, H. D. Study on the life history of aphides and the occurrence of virus disease in cruciferous vegetables. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(3):141-148. Ref. Sept.1967. 22.5 K843  
English summary.
- 93968 TAO, C. C., LO, K. C., and HSU, T. C. The predators of citrus and vegetable aphids in Taiwan. (Ch) Taiwan Agr. Quart. 3(2):17-33. June 1967. S19.T3  
English summary.
- 93969 TOPPOZADA, A., and O'BRIEN, R. D. Permeability of the ganglia of the willow aphid, *Tuberolachnus salignus*, to organic ions. J. Insect Physiol. 13(6):941-954. Ref. June 1967. 421 J825



- 93970 WEBSTER, J. A., SORESENSEN, E. L., and PAINTER, R. H. Resistance of alfalfa varieties to the potato leafhopper: seedling survival and field damage after infestation. *Crop Sci.* 8(1): 15-17. Ref. Jan./Feb.1968. 64.8 C883
- 93971 WILBERT, H. Mechanical and physiological defenses of some aphids (Aphididae) against ichneumonids (Hymenoptera). (Ge) *Entomophaga* 12(2):127-137. Ref. 1967. 421 En835 English summary.
- 93972 WOLFE, S. L., and GRIM, J. N. The relationship of isolated chromosome fibers to the fibers of the embedded nucleus. *J. Ultrastruct. Res.* 19(3-4):382-397. Ref. Aug.1967. 440.8 J822 Includes *Oncopeltus fasciatus*.
- 93973 WOO, S. H. Studies on the ecology of the Ume globose scale, *Lacanium kunoensis* Kuwana, and its natural enemies. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(3):97-104. Ref. Sept.1967. 22.5 K843 English summary.

General Entomology  
Hymenoptera

SEE ALSO Apiculture and *Apis mellifera*.

- 93974 BENASSY, C., and BIANCHI, H. Note on *Prospaltella aurantii* How. (Hym., Aphelinidae), a parasite of *Quadraspidiotus pyri* Licht. (Hom., Diaspidinae) in the Maritime Alps. (Fr) *Entomophaga* 12(2):181-186. 1967. 421 En835 English summary.  
Includes development of both insects.
- 93975 BETREM, J. G. The sexual dimorphism of the Campsomerinae (Hymenoptera, Scolidae). (Du) *Entomol. Ber.* 27(6):103-106. June 1, 1967. 420 N38B English summary.
- 93976 CERNY, A. Watching wasps. (Cz) *Ziva* 15 (3):102. May 1967. 409.6 Z6  
The flight of *Vespa crabro*.
- 93977 GLOVER, P. E. Notes on some ants in northern Somalia. *East Afr. Wildlife J.* 5:65-73. Aug.1967. 409.6 Ea7  
Feeding habits, ecology, and distribution.
- 93978 GOLL, W. Investigations on structure of the brain of *Formica*. (Ge) *Z. Morphol. Okol. Tiere* 59(2):143-210. Ref. June 12,1967. 442.8 Z33 English summary.  
*Formica rufa* and *F. pratensis*.
- 93979 JOLIVET, P. Curious instinctual modifications in African bees. (Fr) *Soc. Sci. Natur. Phys. Maroc. Compt. Rend.* 32:5-8. 1966. 515 SolC
- 93980 KAJITA, H. Studies on the utilization of natural enemies as "biotic insecticides." On the acclimatization of rearing temperature for the low temperature storage of larvae or pupae of *Pseudaphycus malinus* Gahan. (Ja) *Kyushu Univ. Fac. Agr. Sci.* 23(1):29-32. Mar.1967. 107.6 J995B English summary.  
Parasite of *Pseudococcus comstocki*.
- 93981 KAJITA, H. Studies on the utilization of natural enemies as "biotic insecticides." The low temperature storage of pupae of *Pseudaphycus malinus* Gahan. (Ja) *Kyushu Univ. Fac. Agr. Sci. Bull.* 23(1):23-28. Mar.1967. 107.6 K995B English summary.  
Mass culture of *P. malinus*, a parasite of *Pseudococcus comstocki*.
- 93982 KERFOOT, W. B. The lunar periodicity of *Sphecodogastra texana*, a nocturnal bee (Hymenoptera; Halictidae). *Anim. Behav.* 15(4): 479-486. Oct.1967. 410 B77
- 93983 KO, J. H. Studies on the *Isostasius seoulis* Ko. the larvae parasite of the pine gall-midge (*Thecodiplosis japonensis* Uchida et Inouye. 3. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 9(2):59-67. Ref. Dec.1966. 22.5 K843 English summary.
- 93984 KO, J. H., and KIM, Y. L. Studies on the parasitic Hymenoptera of the chestnut gall-wasp (*Dryocosmus kuriphilus* Yasumatsu). (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 9(2):21-28. Ref. Dec.1966. 22.5 K843 English summary.  
*Trichagalma serrata*, *Diplolepis japonica*, and *Neuroterus watensis*.
- 93985 LIN, N. Role differentiation in copulating cicada killer wasps [*Sphecius speciosus*]. *Science* 157(3794):1334-1335. Ref. Sept.15,1967. 470 Sci2
- 93986 LOZINSKII, V. A., and OKSYUTICH, G. P. Beneficial role of *Lasius niger* L. in flooded areas. (Rus) *Zool. Zh.* 46(9):1411-1412. Sept. 1967. 410 R92 English summary.  
As predators of caterpillars on reeds.
- 93987 MANNINGER, S., and APJOK, F. Breeding of wild bees for pollination of lucerne. (Hu) *Magyar Mezogazdasag* 22(13):13-14. Mar.29, 1967. 19 M27
- 93988 MCCLUSKEY, E. S. Circadian rhythms in female ants, and loss after mating flight [*Veromessor andrei*, *V. pergandei*]. *Compar. Biochem. Physiol.* 23(2):665-677. Ref. Nov. 1967. 444.8 C73
- 93989 MORGAN, P., and PERCIVAL, M. The rearing and management of bumble bees for students of biology. *Bee World* 48(2):48-58. Summer 1967. 424.8 B399
- 93990 MORGAN, P., and PERCIVAL, M. The rearing and management of bumble bees for students of biology. *Bee World* 48(3):100-109. Ref. Autumn 1967. 424.8 B399
- 93991 OKUTANI, T. Food-plants of Japanese Symphyta. (Ja) *Jap. J. Appl. Entomol. Zool.* 11(3):90-99. Sept.1967. 475 J27 English summary.  
Tenthredinidae.
- 93992 RAO, C. S., RAO, N. R., and DHARMARAJU, E. Rate of multiplication and sex ratio in relation to the quantity of food material in *Bracon brevicornis* Wesm. and *Perisierola nephantidis* Muesebeck. *Andhra Agr. J.* 14(5):165-166. 1967. 34.2 An4
- 93993 RATCLIFFE, N. A., and KING, P. E. The "venom" system of *Nasonia vitripennis* (Walker) (Hymenoptera: Pteromalidae). *Roy. Entomol. Soc. London. Proc. Ser. A, Gen. Entomol.* 42(4/6):49-61. Ref. June 27,1967. 420 L84Pa Includes glands and ovipositors.
- 93994 SAKAGAMI, SH. F., and MOURE, J. S. Additional observations on the nesting habits of some Brazilian halictine bees (Hymenoptera, Apoidea). *Mushi* 40(10):119-138. Ref. 1967. 421 M97
- 93995 SATIJA, R. C., and WALIA, D. Studies on the brain of *Monomorium indicum* Forel (Hymenoptera). *Panjab. Univ. Res. Bull.* 18(1/2):237-241. June 1967. 513 Ea72
- 93996 SMIRNOFF, W. A. Influence of light on the development of a nuclear-polyhedrosis of *Neodiprion swainei*. *J. Invertebrate Pathol.* 9(2):269-271. June 1967. 421 J826
- 93997 TADIC, M. The acclimatization of *Prospaltella perniciosi* Tow. in Yugoslavia. (Se) *Zastita Bilja* 93/95:147-154, map. 1967. 464.8 Z1 English summary.
- 93998 TKALCU, B. The overwintering of Czechoslovak bumblebees. (Cz) *Ziva* 16(1):25-27. Jan. 1968. 409.6 Z6
- 93999 TOROSSIAN, C., and CAUSSE, R. Experimental study on raising the inhibition of oviposition in ant workers, *Dolichoderus quadripunctatus* reared in the presence of a queen exposed to heavy gamma irradiation. (Fr) *Acad. Sci. C. R., Ser. D.* 264(24):2789-2792. June 12,1967. 505 P21
- 94000 WALLACE, L. E. Wheat stem sawflies [*Cephus cinctus*]. In Smith, C. N., ed. *Insect colonization and mass production*, p.419-423. 1966. QL497.S6

- 94001 WALOFF, N. Biology of three species of *Leio-phron* (Hymenoptera: Braconidae, Euphorinae) parasitic on Miridae on broom [*Sarothamnus scoparius*]. Roy. Entomol. Soc. London. Trans. 119(6):187-213. Ref. Sept.26,1967. 420 L84  
*Leio-phron heterocordyli*, *L. orthotyli*, and *L. apicalis*.
- 94002 WALSTROM, R. J., and JONES, P. A. Alfalfa leaf-cutter bee [*Megachile rotundata*]; management for alfalfa pollination in South Dakota. S. Dak. Agr. Exp. Sta. Bull. 544,12 p. May 1968. 100 So82
- 94003 WEST, M. J. Foundress associations in polistine wasps; dominance hierarchies and the evolution of social behavior. Science 157(3796): 1584-1585. Ref. Sept.29,1967. 470 Sci2
- 94004 WILSON, E. B. Leafcutting bee storage. Wash. State Univ. Ext. E. M. 2909,5 p. Mar.1968. 275.29 W27Mi  
Winter colony management of *Megachilidae*.
- 94005 YASUMATSU, K. Notes on *Bracon onukii* Watanabe, a parasite of four species of lepidopterous borers (Hymenoptera: Braconidae). Mushi. 40(14):181-188. Ref. Mar.24,1967. 421 M97
- General Entomology  
Lepidoptera
- SEE ALSO Sericulture and the Silkworm.
- 94006 ALIYEV, S. V. The role of birds of prey and parasites in decreasing the numbers of caterpillars. (Rue) Akad. Nauk. Azerbaidzh. SSR. Izv. Ser. Biol. Med. Nauk. 1:47-54. 1967. 442.9 Ak132
- 94007 BAI, D. H., BAIK, M. K., and CHUNG, C. R. Forecasting of rice stem borer (*Chilo suppressalis* Walker) infestation by the statistical forecasting formulas. 2. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(3): 105-114. Ref. Sept.1967. 22.5 K843  
English summary.
- 94008 BARBIER, R. Demonstration of significant intercellular spaces in the hypodermis and paracrystalline formation in the exuvial liquid in the larvae of *Galleria mellonella* L. (Lepidoptera, Pyralidae) during setting up of cuticulin. (Fr) Acad. Sci. Compt. Rend. Ser. D, 264(19): 2337-2340. May 8,1967. 505 P21
- 94009 BOER, P. Observation of a death's head hawk moth *Acherontia atropos* L. at sea. (Du) Entomol. Ber. 27(7):122. July 1,1967. 420 N38B
- 94010 BOLES, H. P., and MARZKE, F. O. Lepidoptera infesting stored products. In Smith, C. N., ed. Insect colonization and mass production, p.259-270. Ref. 1966. QL497.S6
- 94011 BOURGOGNE, J. The collection Rousseau-Decelle at auction. (Fr) Alexanor 4(8):354-355. 1966. 421 AL2
- 94012 CALLAHAN, P. S. Infrared stimulation of nocturnal moths. Ga. Entomol. Soc. J. 1(4):6-14. Oct.1966. QL461.G4
- 94013 CAMPING, M. W. Larvae of *Eupithecia* in 1965. (Du) Entomol. Ber. 27(4):77. Apr.1, 1967. 420 N38B
- 94014 CHARI, M. S., and PATEL, H. K. Bionomics of tur plum moth (*Marasmarcha liophanes*, Meyrick) on pigeonpea (*Cajanus cajan*, Milisp). Andhra Agr. J. 14(5):158-164. Ref. 1967. 34.2 An4
- 94015 CHAWLA, S. S., and HARWOOD, R. F. Artificial diets for the European pine shoot moth, *Rhyacionia buoliana* (Schifferrmuller) (Lepidoptera; Olethreutidae). Wash. Agr. Exp. Sta. Tech. Bull. 59,13 p. Ref. Apr.1968. 100 W27T  
For test insects.
- 94016 DAVID, W. A. L., and MAGNUS, I. A. Preliminary observations on the in vitro photoreactivation of an insect virus inactivated with ultraviolet radiation. J. Invertebrate Pathol. 9(2): 266-268. June 1967. 421 J826  
Tests with granulosis disease of *Pieris brassicae*.
- 94017 DOOM, D. Notes on *Gnathotrichus materiarius* (Col. Scolytidae), a timber beetle new to the Netherlands. Entomol. Ber. 27(8):143-148. Aug.1,1967. 420 N38B  
Life history of this conifer pest..
- 94018 DOWNEY, J. C. Sound-production in Netherlands *Lycaenidae*. Entomol. Ber. 27(8):153-157. Aug.1,1967. 420 N38B  
In the pupae.
- 94019 DURR, H. J. R. The structure of the hindgut and associated structures of the larva of *Sesamia calamistis* Hampson (Lepidoptera: Noctuidae). S. Afr. J. Agr. Sci. 10(3):723-734. Ref. Sept.1967. 24 Su3
- 94020 EHRLICH, P. R., and RAVEN, P. H. Butterflies and plants. Sci. Amer. 216(6):104-111, 113. June 1967. 470 Sci25
- 94021 ELDER, G. B., and DAVIS, R. Infrared production as related to wingbeat frequency in the simulated flight of two noctuid moths (Lepidoptera: Noctuidae). Ga. Entomol. Soc. J. 2(4): 103-108. Oct.1967. QL461.G4  
*Heliothis zea* and *Laphygma frugiperda*.
- 94022 FREEMAN, H. A. On the status of *Helioptetes sublinea* (Hesperiidae). Lepidopterists Soc. J. 21(3):205-206. 1967. 421 L554
- 94023 GARDINER, B. O. C. The life history of *Periphoba hircia* (Saturniidae) with a note on distribution and larval variation. Lepidopterists Soc. J. 21(3):198-204. 1967. 421 L554
- 94024 GEOFFRION, R. Some data relevant to the diapause of *Carpocapsa*. (Fr) Phytoma 19(184):14-15. Jan.1967. 464.8 P563
- 94025 GERSHENSHON, S. M. Investigation of viruses of animals in the Academy of Sciences of the Ukraine S. S. R. [Akademiya Nauk Ukrainskoi S. S. R.] (Uk) Mikrobiol. Zhur. 29(5):422-428. 1967. 448.3 K54  
English summary.  
Polyhedroses virus.
- 94026 GUAJARDO T., H., and ORTIZ H., J. J. Insect parasites of the larvae of the hickory husk worm *Laspeyresia caryana* (Fitch) in various localities of Nuevo Leon. (Sp) Soc. Nuevoleonesa Hist. Natur. Dr. J. Eleuterio Gonzalez. Bol. 1(1):34-52. Sept.1966. QH7.S6  
Pest of *Carya illinoensis*.
- 94027 HAMILTON, D. W., and HATHAWAY, D. O. Codling moths [*Carpocapsa pomonella*]. In Smith, C. N., ed. Insect colonization and mass production, p.339-354. Ref. 1966. QL497.S6  
Includes synthetic diets.
- 94028 HARLAN, D. P., and NEEL, W. W. Parasites, predators and pattern of emergence of the Nantucket pine tip moth [*Rhyacionia frustrana*] in east central Mississippi. Ga. Entomol. Soc. J. 2(4):109-112. Oct.1967. QL461.G4
- 94029 HARVEY, W. R., HASKELL, J. A., and ZERAHN, K. Active transport of potassium and oxygen consumption in the isolated midgut of *Hyalophora cecropia*. J. Exp. Biol. 46(2): 235-248. Apr.1967. 442.8 B77
- 94030 HAVEL, L. *Apatura iris* and *Apatura ilia* De. and Schiff. (Cz) Ziva 15(3):104. May 1967. 409.6 Z6
- 94031 HELSON, G. A. H. Adult periodicity of *Wiseana* spp. (family Hepialidae) in New Zealand as revealed by light traps. Roy. Soc. New Zeal. Transl. Zool. 9(8):79-91, map. Ref. July 14, 1967. 514 W46Tz
- 94032 HENNEBERRY, T. J., and KISHABA, A. N. Cabbage loopers [*Trichoplusia ni*]. In Smith, C. N., ed. Insect colonization and mass production, p. 461-478. Ref. 1966. QL497.S6  
Includes artificial diets.
- 94033 HIRATA, S., and others. Comparative studies on the population dynamics of important lepidopterous pests on cabbage. VI. Growth and variation of the head capsule width of larvae of *Pieris rapae crucivora* boisds. (Ja) Jap. J. Appl. Entomol. Zool. 11(1):1-8. Ref. Mar.1967. 475 J27  
K. Fukushi, A. Mikami, F. Takayashiki and T. Yamauchi, joint authors.  
English summary.



- 94034 HIROSE, Y. Occurrence of two types of egg mass size in the pine moth, *Dendrolimus spectabilis* Butler (Lepidoptera: Lasiocampidae). (Ja) Kyushu Univ. Fac. Agr. Sci. Bull. 23(1): 15-21. Mar.1967. 107.6 K995B  
English summary.  
Collected from *Pinus thunbergii* and reared in the laboratory.
- 94035 HOFFMAN, J. D., LAWSON, F. R., and YAMAMOTO, R. Tobacco hornworms [*Manduca sexta*]. In Smith, C. N., ed. Insect colonization and mass production, p.479-486. Ref. 1966. QL497.S6  
Includes artificial diet.
- 94036 HOULGATTE, M. Cohabitation of *Zerynthia hypsipyle* and *Z. rumina* (Papilionidae). (Fr) *Alexandria* 4(8):363-364. 1966. 421 AL2
- 94037 HUKUHARA, T., and HASHIMOTO, Y. Multiplication of *Tipula* and *Chilo* iridescent viruses in cells of *Antheraea eucalypti*. J. Invertebrate Pathol. 9(2):278-281. June 1967. 421 J826
- 94038 JOUBERT, P. C. Reproduction in the *Pyrilidae* (Lepidoptera). I. Post-embryonic development and structure of the male reproductive systems of *Cadra cautella* and *Plodia interpunctella*. S. Afr. J. Agr. Sci. 10(3):707-722. Sept.1967. 24 Su3
- 94039 KABOS, W. J. Pterins in Pieridae. II. (Du) *Entomol. Ber.* 27(5):83-86. May 1,1967. 420 N38B  
German summary.
- 94040 KAMANO, S., and YUSHIMA, T. On the successive rearing of rice stem borer on the artificial diets under aseptic conditions. V. Nutritional relationship between components of artificial diets and physiological weakness of diapausing larvae. (Ja) *Jap. J. Appl. Entomol. Zool.* 11(3): 119-124. Sept.1967. 475 J27  
English summary.  
*Chilo suppressalis*.
- 94041 KRNJAIC, S. A survey of species and number of parasites of gypsy moth eggs in some localities in Yugoslavia. (Se) *Zastita Bilja* 93/95: 247-255. 1967. 464.8 Z1  
English summary.  
*Porthetria dispar*.
- 94042 LAMY, M. Demonstration, by electrophoresis on cellulose acetate, of a vitelligenous protein in the hemolymph of female imago of *Pieris brassicae* L. (Fr) *Acad. Sci. Compt. Rend. Ser. D*, 265(14):990-993. Oct.2,1967. 505 P21
- 94043 LAVIOLETTE, P., and MESTRES, G. The variations in hydrogen-ion concentration and osmotic pressure in the hemolymph of *Galleria mellonella*. (Fr) *Acad. Sci. Compt. Rend. Ser. D*, 265(14):979-982. Oct.2,1967. 505 P21
- 94044 LEECH, H. B., and SUGDEN, B. A. *Solenobia triquetrella* Hubner, a flightless parthenogenetic moth, in British Columbia (Lepidoptera: Psychidae). *Entomol. Soc. Brit. Columbia Proc.* 64:56-59. Aug.1,1967. 420 B77
- 94045 LUKKIEN, J. *Phaseolus vulgaris* L. also a food plant of *Vanessa cardui* L.! (Du) *Entomol. Ber.* 27(6):118. June 1,1967. 420 N38B
- 94046 LUK'YANCHIKOV, V. P. A new virus of larch moth [*Semiothisa pumila*] forming no inclusion bodies. (Rus) *Vop. Virusol.* 3:316-319. 1967. 448.8 P942
- 94047 MANIS, H. C. Problems involved in the sterile male codling moth release program. Idaho State Hort. Soc. Trans. 1967:40-43. 81 ID12  
*Carpocapsa pomonella*.
- 94048 MANSINGH, A. The cholinergic system during diapause and development of *Rothschildia orizaba*. *Indian J. Entomol.* 29(2):131-134. June 1967. 420 In23
- 94049 MANSINGH, A., and SMALLMAN, B. N. Neurophysiological events during larval diapause and metamorphosis of the European corn borer, *Ostrinia nubilalis* Hubner. *J. Insect Physiol.* 13(6):861-867. June 1967. 421 J825
- 94050 MARTIN, D. F. Pink bollworms [*Pectinophora gossypiella*]. In Smith, C. N., ed. Insect colonization and mass production, p.355-366. Ref. 1966. QL497.S6
- 94051 MASON, L. G., EHRLICH, P. R., and EMMEL, T. C. The population biology of the butterfly *Euphydryas editha*. VI. Phenetics of the Jasper Ridge colony, 1965-66. *Evolution* 22(1):46-54. Mar.1968. 443.8 Ev62
- 94052 MATHUR, L. M. L. Morphology of the nervous system of the noctuid larvae *Prodenia litura* Fabr. and *Trichoplusia ni* Hubner. *Indian J. Entomol.* 29(1):25-33. Ref. Mar.1967. 420 In23
- 94053 MATHUR, R. B. The spiracular mechanism in the Indian Sanna hemp moth, *Utetheisa pulchella* Linne (Lepidoptera: Arctiidae). *Mushi* 40(11): 139-146. Mar.24,1967. 421 M97
- 94054 MERKEL, E. P., and FATZINGER, C. W. Cone-worms. In Smith, C. N., ed. Insect colonization and mass production, p.451-460. 1966. QL497.S6  
*Dioryctria abietella* and *D. amatella*.
- 94055 MINIS, D. H., and PITTENDRIGH, C. S. Circadian oscillation controlling hatching: its ontogeny during embryogenesis of a moth [*Pectinophora gossypiella*]. *Science* 159(3814):534-536. Ref. Feb.2,1968. 470 Sci2
- 94056 MITCHELL, E. R. Life history of *Pseudoplusia includens* (Walker) (Lepidoptera: Noctuidae). *Ga. Entomol. Soc. J.* 2(2):53-57. Apr.1967. QL461.G4
- 94057 MITCHELL, E. R. Life history of *Rachiplusia ou* (Guenee) (Lepidoptera: Noctuidae) in the laboratory. *Ga. Entomol. Soc. J.* 1(3):25-28. July 1966. QL461.G4
- 94058 MONROE, R. S., ROSS, G. N., and WILLIAMS, R. N. A report on two recent collections of butterflies from Honduras. *Lepidopterists Soc. J.* 21(3):185-197. 1967. 421 L554
- 94059 MUKSIMOVIC, M., and MAROVIC, R. The effect of the type of traps on the attractiveness of sexual attractants of gypsy moth females. (Se) *Zastita Bilja* 93/95:115-123. 1967. 464.8 Z1  
English summary.  
*Porthetria dispar*.
- 94060 NEW HOST plant records for *Anthracis* (Pieridae). *Lepidopterists Soc. J.* 21(3):212. 1967. 421 L554
- 94061 NOPP-PAMMER, E., and NÖPP, H. Hitherto unknown odor ejecting directed at the females of *Argynnis paphia* ready for mating. (Ge) *Naturwissenschaften* 54(22):592. Nov.15,1967. 474 N213
- 94062 NORDMAN, A. On the concentration of the central nervous system in several lepidopterous leaf miners. (Ge) *Soc. Fauna Flora Fenn. Memo.* 43:45-48. Ref. 1967. 511 H36Me
- 94063 NOWACK, G. On the nutrition of *Sphingidae* in captivity (Lep.). (Ge) *Entomol. Z.* 77(8):89-92. Apr.15,1967. 421 En85
- 94064 OBARA, Y. Mating behavior in butterflies. (Ja) *Biol. Sci.* 18(2):67-73. Ref. Jan.1967. 442.8 B5264
- 94065 PHILLIPSON, D. E. Environmental variations in *Euphydryas anicia* eurytion (Nymphalidae). *Lepidopterists' Soc. J.* 21(4):261-270, map. Nov.28,1967. 421 L554
- 94066 PLANEIX, P. Once more on the two *Parnassius* of Puy-de-Dôme (Papilionidae). (Fr) *Alexandria* 4(8):373-379. 1966. 421 AL2  
*Parnassius mnemosyne* and *P. apollo*; biology and populations.
- 94067 POINAR, G. O., and HIMSWORTH, P. T. Neoplectana parasitism of larvae of the greater wax moth, *Galleria mellonella*. *J. Invertebrate Pathol.* 9(2):241-246. Ref. June 1967. 421 J826  
The nematode DD-136.
- 94068 POWELL, J. A. Host associations and taxonomy of Nearctic conifer cone moths in the genus *Eucosma* (Lepidoptera: Tortricidae). *Hilgardia* 39(1),36 p., map. Ref. Jan.1968. 100 C12H  
Includes n. spp.
- 94069 PRIDDLE, T. R. Structures employed by *Actias luna* (Saturniidae) in effecting emergence from the cocoon. *Lepidopterists' Soc. J.* 21(4):249-252. Nov.28,1967. 421 L554

- 94070 QUICKELBERGE, C. D. Population explosion of butterflies. Entomol. Soc. Southern Afr. J. 30(2):275-276. Sept.30,1967. 420 En86
- 94071 QUIST, J. A. The use of attractant traps for codling moth. Idaho State Hort. Soc. Trans. 1967:37-39. 81 ID12  
Carpocapsa pomonella.
- 94072 RACZ, G. The effects of vitamins on the development of *Nymphalis antiopa* (Nymphalidae). Lepidopterists' Soc. J. 21(4):241-242. Nov.28,1967. 421 L554
- 94073 RAMAIAH, E. Preliminary observations on the natural parasitisation in the egg masses of rice stem borer, *Tryporyza incertulas* Wlk. Andhra Agr. J. 14(1):21-26. 1967. 34.2 An4  
In India.
- 94074 RAMAKRISHNAN, N., and PANT, N. C. Some aspects of the mode of action of *Bacillus thuringiensis* Berliner in *Earias fabia* (Stoll.) (Lepidoptera: Arctiidae). Indian J. Entomol. 29(2):149-153. Ref. June 1967. 420 In23
- 94075 RAMAMURTY, P. S., and MAJUMDAR, U. Heterosynthetic origin of protein yolk in *Delias eucharis* (Drury). Indian J. Exp. Biol. 5(4):250-252. Ref. Oct.1967. 442.8 In2
- 94076 RAO, C. S. Influence of infestation by early shoot borer *Chilo traxa* infuscatellus Sn. on shoot production and yield of sugarcane. Andhra Agr. J. 14(5):131-142. Ref. 1967. 34.2 An4
- 94077 RAO, N. R., and DHARMARAJU, E. Seasonal variation in the life cycles of parasites on coconut black headed caterpillar [*Nephantis serinopa* Meyrick]. Andhra Agr. J. 14(2):47-51. Ref. 1967. 34.2 An4  
In India.
- 94078 RAUN, E. S. European corn borer [*Ostrinia nubilalis*]. In Smith, C. N., ed. Insect colonization and mass production, p.323-338. Ref. 1966. QL497.S6
- 94079 REGER, J. F. The organization of sarcoplasmic reticulum in direct flight muscle of the lepidopteran *Achalarus lyciades*. J. Ultrastruct. Res. 18(5/6):595-599. June 1967. 440.8 J822
- 94080 RICKARD, M. A. An aberrant *Heliconius charitonius* (Nymphalidae). Lepidopterists' Soc. J. 21(4):248. Nov.28,1967. 421 L554
- 94081 RIOTTE, J. C. E. Notes on larval foodplants of some sphingids in Ontario, Canada. Lepidopterists Soc. J. 21(4):252-254. 28 Nov.1967. 421 L554
- 94082 ROEDER, K. D. Turning tendency of moths exposed to ultrasound while in stationary flight. J. Insect Physiol. 13(6):873-888. Ref. June 1967. 421 J825
- 94083 SCHOONHOVEN, L. M. Some cold receptors in larvae of three Lepidoptera species. J. Insect Physiol. 13(6):821-826. Ref. June 1967. 421 J825  
Nerve cells of *Dendrolimus pini*, *Philosamia cynthia ricini*, and *Protoparce sexta*.
- 94084 SIEKER, W. E. The importance of preserving natural habitats--now. Lepidopterists' Soc. J. 21(4):275-276. Nov.28,1967. 421 L554  
For Lepidoptera.
- 94085 SMIRNOFF, W. A. Effect of gamma radiation on the larvae and the nuclear-polyhedrosis virus of the eastern tent caterpillar, *Malacosoma americanum*. J. Invertebrate Pathol. 9(2):264-266. June 1967. 421 J826
- 94086 SNOW, J. W., and BURTON, R. L. Seasonal occurrence of the *Heliothis* complex on *Desmodium purpureum* with observations on parasitism by *Cardiochiles nigriceps*. Ga. Entomol. Soc. J. 2(2):47-52. Apr.1967. QL461.G4
- 94087 TANABE, A. M., and TAMASHIRO, M. The biology and pathogenicity of a microsporidian (*Nosema trichoplusia* sp. n.) of the cabbage looper, *Trichoplusia ni* (Hubner) (Lepidoptera: Noctuidae). J. Invertebrate Pathol. 9(2):188-195. Ref. June 1967. 421 J826
- 94088 TEAS, H. J., DYSON, J. G., and WHISENANT, B. R. Cycasin metabolism in *Seirarctia echo* Abbot and Smith (Lepidoptera: Arctiidae). Ga. Entomol. Soc. J. 1(1):21-22. Jan.1966. QL461.G4
- 94089 THOBBI, V. V., and SRIHARI, T. Growth response of *Prodenia litura* Fabr. in relation to the castor leaves obtained from irradiated plants. Indian J. Entomol. 29(2):154-156. June 1967. 420 In23
- 94090 TISCHLER, W. Studies on the bionomics and ecology of the grass owlet-moth *Sideridis pallens* L. (Lep., Noctuidae); a contribution to agrarian ecology. (Ge) Z. Morphol. Okol. Tiere 59(1):54-74. Ref. May 9,1967. 442.8 Z33  
English summary.  
Overwintering in grain fields in Germany.
- 94091 TREAT, A. E. Mites from noctuid moths. Lepidopterists Soc. J. 21(3):169-179. Ref. 1967. 421 L554
- 94092 TSUKUDA, R., and KIYOKU, M. Improved totally synthetic media for rearing the tobacco cutworm, *Prodenia litura* Fabricius. (Ja) Okayama. Univ. Fac. Agr. Sci. Rep. 30:1-11. Ref. Oct.1967. 107.6 Ok12  
English summary.
- 94093 UMEYA, K., SEKIGUCHI, Y., and MASAKI, S., Biology of *Hyphantria cunea* Drury (Lepidoptera: Arctiidae) in Japan. Appl. Entomol. Zool. 2(3):115-123. Ref. Sept.1967. SB599.A6
- 94094 A UNIDIRECTIONAL mass movement by *Satyrus saepium* (Lycaenidae) Lepidopterists Soc. J. 21(3):204. 1967. 421 L554
- 94095 VAN HEERDEN, H. P. New host plant of *Acherontia atropos* Linn. (Lepidoptera: Sphingidae). S. Afr. J. Agr. Sci. 10(3):847. Sept.1967. 24 Su3
- 94096 VASILJEVIC, L.J., and INJAC, M. The effects of radioactive cobalt on the eggs of gypsy moth. (Se) Zastita Bilja 93/95:55-65. Ref. 1967. 464.8 Z1  
English summary.  
*Porthetria dispar*.
- 94097 WHISENANT, B. R., and BRADY, U. E. Effects of anesthesia on the subsequent mating behavior of *Plodia interpunctella* males. Ga. Entomol. Soc. J. 2(1):27-30. Jan.1967. QL461.G4
- 94098 WHITCOMB, W. H. Field studies on predators of the second-instar bollworm, *Heliothis zea* (Boddie) (Lepidoptera: Noctuidae). Ga. Entomol. Soc. J. 2(4):113-118. Oct.1967. QL461.G4  
On cotton in Arkansas.
- 94099 WRIGHT, D. A. The effects of photoperiod on the initiation of pupal diapause in the wild silkworm, *Actias luna*. Lepidopterists' Soc. J. 21(4):255-258. Nov.28,1967. 421 L554
- 94100 YAMADA, M. The electrical activity recorded from sensilla basiconica on antenna of the rice stem borer larvae, *Chilo suppressalis* Walker (Lepidoptera: Pyralidae). Appl. Entomol. Zool. 2(1):22-30. Ref. Mar.1967. SB599.A6
- 94101 YENDOL, W. G., and PASCHKE, J. D. Infection of looper complex by *Entomophthora sphaerosperma*. J. Invertebrate Pathol. 9(2):274-276. June 1967. 421 J826  
*Rachiplusia ou*, *Autographa precationis*, and *Trichoplusia ni*.
- 94102 ZIVANOVIC, V. A contribution to the study of morphology of *Leucoptera scitella* Zell. (Lepidoptera, Glacillariidae). (Se) Zastita Bilja 93/95:233-239. 1967. 464.8 Z1  
English summary.
- 94103 ZWOLFER, H. Alternating influence of the course of development in entomophagous parasites and their hosts, discussed with *Coleophora* spp. (Lep., Coleophoridae) and *Urophora* spp. (Dipt., Trypetidae) as examples. (Ge) Anz. Schadlingskunde 40(8):133-120. Ref. Aug. 1967. 421 An9  
English summary.  
*Agathis* spp., and *Eurytoma tibialis* as parasites.



General Entomology  
Orthoptera

- 94104 AKHTAR, S., and others. Studies on the biology and phase characters of desert locust hoppers *Schistocerca gregaria* (Forsk.) reared in the central laboratories, P.C.S.I.R., [Pakistan Council of Scientific and Industrial Research] Karachi. *Sci. Indus.* 5(1):97-101. Ref. Jan. 1967. 475 Sci238  
S. A. Muzaffar, M. Anwarullah, and S. H. Ashrafi, joint authors.
- 94105 ALEXANDER, R. D., and OTTE, D. The evolution of genitalia and mating behavior in crickets (Gryllidae) and other Orthoptera. *Mich. Univ. Mus. Zool. Misc. Publ.* 133:5-62. Ref. Nov. 17, 1967. 410.9 M58M
- 94106 BAILEY, W. J. Further investigations into the function of the "mirror" in Tettigoniodea (Orthoptera). *Nature* 215(5102):762-763. Aug. 12, 1967. 472 N21  
*Conocephalus discolor* and *Homorocoryphus nitidulus nitidulus*.
- 94107 BALAZUC, J. Experimental production of segmental anomalies in *Mantis religiosa* L. [Dictyoptera, Mantoidea]. (Fr) *Entomologiste* 23 (2):45-50. Apr. 1967. 421 En814
- 94108 BHATTA, D. R., and CHANDRA, H. Effect of food plants on colour, structure and size of faecal pellets of the desert locust, *Schistocerca gregaria* Forsk. *Indian J. Entomol.* 29(1):102-103. Mar. 1967. 420 In23
- 94109 BOGDANOV, YU. F., and others. Uncoupling of DNA and histone synthesis at early prophase I of meiosis in the house cricket [*Acheta domesticus*]. (Rus) *Tsitologiya* 9(8):986-990. Ref. Aug. 1967. 442.8 T78  
N. A. Lyapunova, A. I. Sherudilo, and E. N. Antropova, joint authors.  
English summary.
- 94110 BOTHA, D. H. Some phase characteristics of the southern African form of the desert locust [*Schistocerca gregaria* (Forsk.)]. *S. Afr. J. Agr. Sci.* 10(1):61-75, map. Ref. Mar. 1967. 24 Su3
- 94111 BOTHA, D. H. The viability of brown locust eggs [*Locustana pardalina* (Walker)]. *S. Afr. J. Agr. Sci.* 10(2):445-459. Ref. June 1967. 24 Su3
- 94112 BRADY, J. Control of the circadian rhythm of activity in the cockroach [*Periplaneta americana*]. I-II. *J. Exp. Biol.* 47(1):153-178. Ref. Aug. 1967. 442.8 B77  
I, The role of the corpora cardiaca, brain, and stress; II, The role of the sub-oesophageal ganglion and ventral nerve cord.
- 94113 BROUSSE-GAURY, P. Demonstration of a new photoreceptor in Dictyoptera; the paraocular organs. (Fr) *Acad. Sci. Compt. Rend. Ser. D.* 264(19):2317-2320. Ref. May 8, 1967. 505 P21  
*Periplaneta americana*, *Blaberus fuscus* and *Leucophaea maderae*.
- 94114 BUTLER, L. Oviposition in the Chinese mantid, *Tenodera aridifolia sinensis* Saussure (Orthoptera: Mantidae). *Ga. Entomol. Soc. J.* 1(1):5-7. Ref. Jan. 1966. QL461.G4
- 94115 CALDERON, M., DONAHAYE, E., and NAVARRO, S. The life cycle of the groundnut seed beetle, *Caryedon serratus* (Ol.), in Israel. *Israel J. Agr. Res.* 17(4):145-154. Ref. July 1967. 107 J552
- 94116 CASSIER, P. Variability of the phase traits in the African migratory locust, *Locusta migratoria migratorioides* (R. and F.), gregarious phase. III. Variations due to weight at birth of reproducing females. (Fr) *Bull. Biol. France Belg.* 101(3):219-246. Ref. 1967. 473 B87  
English summary.
- 94117 CAZAL, M. Cardiac activity of *Locusta migratoria* in vitro and the effect of corpora cardiaca; experiments and first results. (Fr) *Acad. Sci. Compt. Rend. Ser. D.* 264(6):842-845. Ref. Feb. 6, 1967. 505 P21
- 94118 CHAHAL, B. S., and SINGH, S. Studies on *Oxya nitidula* Walker 2. biology of *Oxya nitidula* Walker (Acrididae: Orthoptera). *Punjab Agr. Univ. J. Res.* 4(1):88-95. Ref. Mar. 1967. S19.P8
- 94119 COWAN, F. T. Grasshoppers. In Smith, C. N., ed. *Insect colonization and mass production*, p.311-321. 1966. QL497.S6
- 94120 DAVIS, W. J. Cricket wing movements during stridulation. *Anim. Behav.* 16(1):72-73. Feb. 1968. 410 B77
- 94121 DOGRA, G. S. Morphological abnormalities in the neurosecretory system of the mole cricket, *Gryllotalpa africana* Beauvois (Orthoptera: Gryllotalpidae). *Acta Anat.* 67(4):636-640. Ref. 1967. 444.8 Ac82
- 94122 DUTRIEU, J., and GOURDOUX, L. Neural-endocrine control of trehalose in *Carausius morosus*. (Fr) *Acad. Sci. Compt. Rend. Ser. D.* 265(15):1067-1070. Ref. Oct. 9, 1967. 505 P21
- 94123 EDWARDS, J. S., KORAL, J., and RUDY, G. Pathological changes following salivary duct ligation in cockroaches. *J. Invertebrate Pathol.* 9(2):160-163. June 1967. 421 J826  
*Periplaneta americana*, *Blaberus gigantea*, and *Gramphodora portentosa*.
- 94124 FAROOQUI, M. N. On a new family Mehdine-matidae fam. nov. from *Gryllus domesticus*. *Zool. Anz.* 178(5/6):322-326. May/June 1967. 410 Z7
- 94125 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. COMMISSION FOR CONTROLLING THE DESERT LOCUST IN THE EASTERN REGION OF ITS DISTRIBUTION AREA IN SOUTHWEST ASIA. Report of the third session held in New Delhi, India, 6-9, March 1967. Rome, 1967. 37 p. SB945.L7F6
- 94126 GURNEY, A. B. A substitute name for the genus *Nicuesa* in cockroaches (Dictyoptera, Blattaria, Blattellidae). *Entomol. Soc. Wash. Proc.* 69(3):237. Sept. 1967. 420 W27  
Drabeha.
- 94127 HARTLEY, J. C. Some notes on hatching the eggs of Pholidoptera griseoptera (Degeer) (Orth., Tettigoniidae). *Entomol. Mon. Mag.* 103 (1235/1237):123-124. Apr./June 1967. 421 En86
- 94128 KESSEL, R. G. An electron microscope study of spermiogenesis in the grasshopper with particular reference to the development of microtubular systems during differentiation. *J. Ultrastruct. Res.* 18(5-6):677-694. Ref. June 1967. 440.8 J822  
*Melanoplus differentialis*.
- 94129 KING, D., and ROBINSON, E. S. Aspects of the development of *Moniliformis dubius*. *J. Parasitol.* 53(1):142-149. Ref. Feb. 1967. 448.8 J824  
Parasite of cockroaches.
- 94130 LANZAVECCHIA, G., and VILLA, L. Morphological study of the ultra-structure of the thoracic muscles of the Orthoptera, *Acrida* sp and *Pamphagus* sp. (It) *Rome Accad. Naz. Lincei Atti Rendic.* 42(5):711-719. Ref. May 1967. 507 R66  
English summary.  
Electron microscope investigation.
- 94131 LEROY, Y. The set and the system of chromosomes in crickets (Orthoptera). (Fr) *Acad. Sci. Compt. Rend. Ser. D.* 264(19):2307-2310. May 8, 1967. 505 P21
- 94132 MILLER, P. L. The derivation of the motor consumption to the spiracles of the locust. *J. Exp. Biol.* 46(2):349-371. Ref. Apr. 1967. 442.8 B77  
*Schistocerca gregaria* and *Locusta migratoria migratorioides* used in the studies.
- 94133 MINKS, A. K. Biochemical aspects of juvenile hormone action in the adult *Locusta migratoria*. *Arch. Neer. Zool.* 17(2):176-257. June 1967. 410 Ar27  
Bibliography, p.249-257.
- 94134 NEL, M. D. Selection of phase types based on hopper coloration in *Locusta migratoria migratorioides* (Reiche & Fairmaire). *S. Afr. J. Agr. Sci.* 10(2):461-469. June 1967. 24 Su3  
Includes rearing.
- 94135 NEL, M. D. Selection of phase types based on hopper coloration in *Locustana pardalina* (Walker). *S. Afr. J. Agr. Sci.* 10(3):823-829. Sept. 1967. 24 Su3

- 94136 NEVILLE, A. C. A dermal light sense influencing skeletal structure in locusts. *J. Insect Physiol.* 13(6):933-939. June 1967. 421 J825  
Schistocerca gregaria and Locusta migratoria.
- 94137 NICKLAUS, R., LUNDQUIST, P. G., and WERSALL, J. The sensory apparatus of the filiform hairs on the cerci of the cockroach, *Periplaneta americana*—an electron microscopic study. (Ge) *Z. Vergleichende Physiol.* 56(4):412-415. 1967. 444.8 Z3  
English summary.
- 94138 NISHITSUTSUJI-UWO, J., and PITTENDRIGH, C. S. The neuroendocrine basis of midgut tumour induction in cockroaches [*Periplaneta americana*]. *J. Insect Physiol.* 13(6):851-859. Ref. June 1967. 421 J825
- 94139 PECINA, P. *Locusta migratoria* and its brood. (Cz) *Ziva* 15(3):103-104. May 1967. 409.6 Z6
- 94140 PRITCHATT, D. Avoidance of electric shock by the cockroach *Periplaneta americana*. *Anim. Behav.* 16(1):178-185. Ref. Feb. 1968. 410 B77
- 94141 RICHARDS, A. M. Notes on the biology of two species of Rhaphidophoridae (Orthoptera) in Tasmania. *Linn. Soc. New S. Wales. Proc.* 92(3):273-278. Ref. 1968. 514 Sy2  
*Micropathus cavernicola* and *M. tasmaniensis*.
- 94142 RIEGERT, P. W. Grasshoppers survive prairie arctic weather. *Sask. Farm Sci.* 15(1):3,4. Feb. 1968. 275.28 Sa7
- 94143 ROUNDS, H. D. KC1-induced "spreading depression" in the cockroach [*Periplaneta americana*]. *J. Insect Physiol.* 13(6):869-872. Ref. June 1967. 421 J825  
Effects on behavior.
- 94144 SHARMA, G. P., GUPTA, M. L., and RANDHAWA, G. S. Polysomy in *Chrotogonus trachypaterus* (Blanchard) (Orthoptera: Acridoidea: Pyrgomorphidae) from three more populations and its possible role in animal speciation. *Panjab. Univ. Res. Bull.* 18(1/2):157-163. Ref. June 1967. 513 Ea72
- 94145 SMITTLE, B. J. Cockroaches. In Smith, C. N., ed. *Insect colonization and mass production*, p.227-240. Ref. 1966. QL497.S6  
*Periplaneta americana*, *Blattella germanica*, and others.
- 94146 SVIDERSKY, V. L. Central mechanisms controlling the activity of locust [*Locusta migratoria migratorioides*] flight muscles. *J. Insect Physiol.* 13(6):899-911. Ref. June 1967. 421 J825
- 94147 THOMAS, K. K., and GILBERT, L. I. In vitro studies on the release and transport of phospholipids. *J. Insect Physiol.* 13(6):963-980. Ref. June 1967. 421 J825  
*Leucophaea maderae*, *Periplaneta americana*, and *Hyalophora cecropia*.
- 94148 VENTER, I. G., and POTGIETER, W. J. Systematic discontinuities between eggs and hoppers from individual egg-pods of the brown locust [*Locustana pardalina*]. *S. Afr. J. Agr. Sci.* 10(1):293-297. Mar. 1967. 24 Su3
- 94149 WINSTON, P. W., and GREEN, C. C. Humidity responses from antennae of the cockroach *Leucophaea maderae*. *Naturwissenschaften* 54(18):499. Sept. 15, 1967. 474 N213
- 94150 ANANTHAKRISHNAN, T. N. Allomorphic growth patterns in some Tubulifera (Thysanoptera). *Indian J. Entomol.* 29(1):61-64. Mar. 1967. 420 In23
- 94151 BAKER, J. R., and MCCRAE, J. M. A further study of the *Lepidocyrtus* [curvicollis] ("Podura") scale (Insecta, Collembola). *J. Ultrastruct. Res.* 19(5-6):611-615. Ref. Aug. 30, 1967. 440.8 J822  
Electron microscope study.
- 94152 BECKER, G. The temperature dependence of the feeding activity of some termite species. (Ge) *Z. Angew. Entomol.* 60(1):97-123. Ref. June 1967. 421 Z36  
English summary.
- 94153 BROEK, E. VAN DEN. The ecology of lice on domestic animals. (Du) *Entomol. Ber.* 27(4):63-64. Apr. 1, 1967. 420 N38B  
Anoplura and Mallophaga.
- 94154 DENIS, C. Relative observations on the behavior of *Leptocerus interruptus* (Trichoptera: Leptoceridae) when modifying their cover in the course of molting. (Fr) *Soc. Sci. Bretagne. Bull. (Sci. Math. Phys. Natur.)* 41(1/2):49-60. Mar. 1967. 505 R292
- 94155 DENIS, J. R. Complements and corrections to Vol. VIII of the treatise of P. P. Grasse (Morphology of Arthropods). 13. (Fr) *Dijon. Univ. Lab. Zool. Trav.* 75:1-69. 1967. 410.9 D56  
The anatomy and morphology of Anoplura, Haematopimids and Dermaptera.
- 94156 EBELING, W. Termites; identification, biology, and control of termites attacking buildings. *Calif. Univ. Agr. Ext. Manual* 38,74 p. Ref. Apr. 1968. 100 C124  
Published jointly with California Agricultural Experiment Station.
- 94157 GEPP, J. On the overwintering of *Chrysopa carnea* Stephens (Planipennia, Chrysopidae). (Ge) *Entomol. Z.* 77(10):113-114. May 16, 1967. 421 En85
- 94158 GHARAGOZLOU, I. D. Infrastructural aspects of *Diploclalyx calotermitidis* n. g., n. sp., spirochete in the intestine of *Kaloterme flavicollis*. (Fr) *Acad. Sci. C. R., Ser. D*, 266(5):494-496. Jan. 29, 1968. 505 P21
- 94159 GOWER, A. M. A study of *Limnephilus lunatus* Curtis (Trichoptera: Limnephilidae) with reference to its life cycle in watercress [*Nasturtium officinale*] beds. *Roy. Entomol. Soc. London. Trans.* 119(10):283-302. Ref. Dec. 15, 1967. 420 L84  
Damaging the watercress.
- 94160 HOLLANDE, A., and VALENTIN, J. Interpretation of structures called centrioles of hypermastigines, symbionts of termites and *Cryptocercus*. (Fr) *Acad. Sci. Compt. Rend. Ser. D*, 264(15):1868-1871. Apr. 10, 1967. 505 P21
- 94161 HUMPHRIES, D. A. The action of the male genitalia during the copulation of the hen flea, *Ceratophyllus gallinae* (Schränk). *Roy. Entomol. Soc. London. Proc. Ser. A, Gen. Entomol.* 42(7/9):101-106. Ref. Sept. 26, 1967. 420 L84Pa
- 94162 HUMPHRIES, D. A. The behaviour of fleas (Siphonaptera) within the cocoon. *Roy. Entomol. Soc. London. Proc. Ser. A, Gen. Entomol.* 42(4/6):62-70. Ref. June 27, 1967. 420 L84Pa
- 94163 JURZITZA, G. On a reversible, temperature dependent change of color in *Anax imperator* Leach, 1815 (Odonata, Aeschnidae); preliminary report. (Ge) *Deut. Entomol. Z. (n.s.)* 14(3/4):387-389. Oct. 20, 1967. 421 D48  
English summary.
- 94164 LAVETTE, A. Research on the constituents of symbiotic flagellates from termites and on moor digestion. (Fr) *Ann. Sci. Natur. Zool. Biol. Anim.* 9(4):457-527. Ref. Oct./Dec. 1967. 410 An7
- 94165 LAVETTE, A. Research on the Cytoplasmic contents of termite-parasitic flagellates and on wood. (Fr) *Ann. Sci. Natur. Zool. Biol. Anim.* 9(4):457-527. Ref. Oct./Dec. 1967. 410 An7
- 94166 LEBRUN, D. The determination of the castes of the yellow neck termite (*Caloterme flavicollis* Fabr.). (Fr) *Bull. Biol. France Belg.* 101(3):139-217. Ref. 1967. 473 B87  
English summary.  
Hormonal sexual development.
- 94167 LEBRUN, D. Juvenile hormones and the formation of soldiers of *Kaloterme flavicollis* Fabr. (Fr) *Acad. Sci. Compt. Rend. Ser. D*, 265(14):996-997. Oct. 2, 1967. 505 P21
- 94168 MOLYNEUX, D. H. Feeding behaviour of the larval rat flea *Nosopsyllus fasciatus* Bosc. *Nature* 215(5102):779. Aug. 12, 1967. 472 N21

General Entomology  
Smaller Orders



- 94169 MUMA, M. H. Biological notes on Coniopteryx vicina (Neuroptera: Coniopterygidae). Fla. Entomol. 50(4):285-293. Dec.1967. 420 F662
- 94170 NEW, T. R. The flight activity of some British Hemerobiidae and Chrysopidae, as indicated by suction-trap catches. Roy. Entomol. Soc. London. Proc. Ser. A, Gen. Entomol. 42(7/9):93-100. Ref. Sept.26,1967. 420 L84Pa
- 94171 RAMAMURTY, P. S. The cytoplasmic inclusions of the trophocytes in the ovary of the scorpion fly *Panorpa communis* L. (Mecoptera: Panorpidae). Roy. Entomol. Soc. London. Proc. Ser. A, Gen. Entomol. 42(4/6):87-92. Ref. June 27,1967. 420 L84Pa
- 94172 RICHTER, H. Quantitative distribution of dominant species of Collembola in small forests, field hedges, and neighboring areas. (Ge) Arch. Naturschutz Landschaftsforsch. 6(3):133-156. 1966. 279.8 Ar2
- 94173 SANTOS, N. D. D. Contribuicao ao conhecimento da regio de Pocos de Caldas, MG, Brasil [Contribution to the study of the region of Pocos de Caldas, MG, Brazil; *Roppaneura beckeri* gen. nov., sp. nov. (Odonata, Protoneuridae)]. Rio de Janeiro. Mus Nac. Bol. Nova Ser Zool. 256,5 p. May 16,1966. 516 R47Bz
- 94174 SCHMIDT, H. On the antennal sense organs of the yellow footed subterranean termite, *Reticulitermes flavipes* Kollar. (Ge) Z. Angew. Entomol. 59(4):361-371. Ref. May 1967. 421 Z36  
English summary.
- 94175 SEN-SARMA, P. K., and CHATTERJEE, P. N. Humidity behaviour of termites. I. Effect of relative humidity on the longevity of workers of *Microcerotermes besoni* Snyder (Insecta: Isoptera: Termitidae) under starvation condition. Dehra Dun. Forest Res. Inst. Indian Forest Bull. (n.s.)255,6 p. Ref. 1966. 99,9 In22B

## TAXONOMIC AND GEOGRAPHIC ENTOMOLOGY

- 94176 BALL, G. E., and WHITEHEAD, D. R. Localities for collecting in Mexico. Coleopt. Bull. 21(4):122-138, map. Dec.1967. 421 C674
- 94177 BOHM, H. Pests of walnut trees. (Ge) Pflanzenarzt. 21(2):18-19. Feb.1,1968. 464.9 P482
- 94178 GEISTHARDT, G. The smallest pests that infest our dwellings. (Ge) Der praktische Schaedlingsbekaeempfer 19(8):105-107. Aug.1967. 421 P882
- 94179 GIST, C. S. Problems of sampling desert arthropods before and after a thermonuclear cratering test. Great Basin Natur. 27(1):26-35. Apr.22,1967. 410.G79  
In Nevada.
- 94180 GRESSITT, J. L. The role of the Papuan area in insect evolution and dissemination. Mushi 40(8):89-95. Ref. Mar.24,1967. 421 M97
- 94181 KIMOTO, S. A methodological consideration of comparison of insect faunas based on the quantitative method. Esakia 5:1-20. Ref. Nov.25,1966. 421 Es1
- 94182 LANDIS, B. J., SEMEL, M., and SIMPSON, G. W. A decade of change in insect populations on potatoes, 1956-1965. Potato Handbook 12: 12-29. Ref. 1967. 75.8 P842P
- 94183 LECLERCQ, J. Coleoptera and Hymenoptera trapped in resin pots in a Landes pine forest. (Fr) Bull. Rech. Agron. Gembloux 2(2):260-263. 1967. S5.B8
- 94184 LECLERCQ, J. On the number of insects in the world. Natur. Mosana 19(4):65-70. Oct./Dec. 1966. 473 N214
- 94185 LIPA, J. J. Studies on gregarines (Gregarinomorpha) of arthropods in Poland. Acta Protozool. 5(8):97-179. Ref. 1967. 439.8 Ac8  
Protozoan parasites of Chilopoda, Diplopoda, and Insecta.
- 94186 MIURA, T., and SHIGETA, M. Studies on the insect association of crop fields in San-in District. 2. On the insect association in a Japanese radish field. (Ja) Shimane Agr. Coll. Bull. 15(A-1):52-57. Jan.1967. S539.J3S5  
English summary.
- 94187 MIURA, T., and AKIYAMA, T. Studies on the insect association of crop fields in San-in district. 3. On the insect association in a chestnut grove. (Ja) Shimane Agr. Coll. Bull. 15(A-1): 58-61. Jan.1967. S539.J3S5  
English summary.
- 94188 ROSELLE, R., and others. Insects through the crystal ball. Nebr. Univ. Coll. Agr. Home Econ. Quart. Serving Farm Ranch Home 14(4): 18-21. Winter 1968. 100 N27N  
L. W. Andersen, A. F. Hagen, K. P. Pruess, joint authors.
- 94189 ROY, R. The influence of altitude on the animal population of the Guinean highlands, particularly orthopterans and related orders. (Fr) Soc. Biogr. Compt. Rend. 373/374:33-40 map. Ref. Dec.1966. 505 P216
- 94190 SINHA, R. N., and UTIDA, S. Climatic areas potentially vulnerable to stored product insects in Japan. Appl. Entomol. Zool. 2(3):124-132. Ref. Sept.1967. SB599.A6
- 94191 SOUTH African animal life: Results of the Lund University Expedition in 1950-1951, edited by B. Hanstrom, P. Brinck, and G. Rudlebeck. Vol. XII. 515 p., map. Ref. Stockholm, Swedish Natural Science Research Council, 1967. QL337.S6H3  
Text in English, French, or German.  
Insects from the Republic of South Africa and other southern African nations.
- 94192 STRINGFELLOW, T. L. Studies on turfgrass insect control in south Florida. Fla. State Hort. Soc. Proc. 80:486-492. May 1,1968. 81 F66  
Blissus leucopterus insularis.
- 94193 ZATORSKA, M. Materialy do znajomosci wyrosli (zooczekiow) Pomorza. The galls of Pomerania. Part I. Soc. Sci. Torunensis. Stud. Sect. D (Bot.) 7(4):132 p., map. Ref., p.129-132. 1966. 451 T65  
A list of gall insects and their host plants.
- 94194 ZOOLOGICAL SURVEY OF INDIA. Annual report for the year 1960-61 (1st April, 1960 to 31st March, 1961). Calcutta, 1966. 76 p. 410.9 In23A  
Library has also report for the 1958-59 and 1959-60.  
Includes lists of insects added to the collections.

Taxonomic and Geographic Entomology  
Arachnida, Myriapoda, etc.

- 94195 ALLRED, D. M., and BECK, D. E. Spiders of the Nevada Test Site. Great Basin Natur. 27(1):11-25. Apr.22,1967. 410 G79  
Population and distribution.
- 94196 ANDERSON, A. W. The red spider mite. New Zeal. Plants Gard. 7(6):275-277. Mar.1968. 80 N4824
- 94197 EL-BADRY, E. A. Five new phytoseiid mites from U.A.R., with collection notes on three other species (Acarina: Phytoseiidae). Indian J. Entomol. 29(2):177-184. June 1967. 420 In23  
New spp in Amblyseius and Typhlodromus.
- 94198 BEIER, M. Contributions to the knowledge of the Pseudoscorpionidea from New Zealand. Wellington Dominion Mus. Rec. 5(24):277-303. Ref. June 9,1967. 514 W462R  
New spp. in Austrochthonius, Tyrannochthoniella, Morikawia, Apocheiridium, Apatochernes, Sathrochthoniella n. g., and Nelsonius n. g.
- 94199 BESSELING, A. J. Netherlands Hydrachnelae. XLV. (Du) Entomol. Ber. 27(7):128-131. July 1,1967. 420 N38B  
German summary.

- 94200 COINEAU, Y. Contribution to the study of the Caeculidae. IV. *Procaeculus bryani* Jacot, 1936 (Acarina: Prostigmata). (Fr) Pacific Insects 9(4):709-720. Ref. Nov.20,1967. 421 P11  
Includes *Procaeculus aikenii*, n. sp.
- 94201 DAVIS, R. A new eriophyid mite, *Diptacus rabunensis*, from American beech, *Fagus grandifolia* Ehrh. Ga. Entomol. Soc. J. 1(1):9-10. Jan.1966. QL461.G4
- 94202 ENGELHARD, A. W. Efficacy of Zinophos and other treatments for the control of mites on *Gladiolus* corms in Florida. Fla. State Hort. Soc. Proc. 80:424-428. Ref. May 1, 1968. 81 F66
- 94203 EYNDHOVEN, G. L. VAN. *Tetranychus lin-tearius* Dufour, 1832, is a valid species (Acar.) Notulae ad Tetranychidas. 11. Entomol. Ber. 27(5):90-100. Ref. May 1,1967. 420 N38B
- 94204 FAIN, A. Three new Rhinonyssidae, with a note on nymphipara of this family (Acarina, Mesostigmata). (Fr) Rev. Zool. Bot. Afr. 76 (1/2):149-156. Sept.30,1967. 410 R326  
*Ptilonyssus steganurae*, *Sternostoma pastor*, and *Tinaminysus crypturelli* n. spp.
- 94205 FILIPPOVA, N. A. Argasovye kleshchi (Argasidae) [Argasid ticks (Argasidae)]. Fauna SSSR. Paukoobraznye 4(3),255 p.,map. 1966. 434 F273  
Bibliography, p.84-104.  
Includes *Argas macrostigmatus*, *A. vulgaris*, and *A. latus* n. spp.
- 94206 FUHN, I. E., and POLENEC, A. Taxonomy of *Nemesia pannonica* Herman (Arach., Araneae: Ctenizidae). (Ge) Senckenb. Biol. 48(4):295-300. Ref. 1967. 410.9 Se5
- 94207 HOOGSTRAAL, H. *Ixodes jacksoni* n. sp. (Ixodoidea:Ixodidae), a nest parasite of the spotted cormorant, *Phalacrocorax punctatus* (Sparrman), in New Zealand. J. Med. Entomol. 4(1):37-41. Apr.25,1967. 421 J828
- 94208 HOOGSTRAAL, H., KOHLS, G. M., and TRAPIDO, H. Studies on Southeast Asian Haemaphysalis ticks (Ixodoidea, Ixodidae): H. (Kaiseriana) anomala Warburton: redescription, hosts, and distribution. J. Parasitol. 53(1):196-201. Feb.1967. 448.8 J824
- 94209 HOPKINS, C. L. New genera and species of water mites (Acar, Hydrachnellae) from New Zealand. Roy. Soc. New Zeal. Trans. Zool. 10(4):33-44. Dec.8,1967. 514 W46Tz  
Includes n. spp. in *Tryssaturus* n. g., *Uralbia* n. g., *Mamersella*, and *Anisitsiellides*.
- 94210 HUNTER, P. E. Comments on *Hypoaspis* (Gymnolaelaps) Berlese, 1916, with description of a new species. (Acarina: Dermanyssidae; Laelapinae). Ga. Entomol. Soc. J. 2(4):99-102. Oct. 1967. QL461.G4  
*Hypoaspis krantzi*, n.sp.
- 94211 HUNTER, P. E., and BUTLER, L. New *Klinckowstroemia* mites from Costa Rican psalid beetles (Acarina: Klinckowstroemiidae). Ga. Entomol. Soc. J. 1(4):24-30. Oct.1966. QL461.G4  
*Klinckowstroemia truncata* n. sp. and *K. concava* n. sp.
- 94212 HUNTER, P. E. Some mites of the genus *Pseudoparasitus* Oudemans, 1902 (Acarina: Laelaptidae). Ga. Entomol. Soc. J. 1(3):1-20. Ref. July 1966. QL461.G4  
-Includes n. spp.
- 94213 IMAMURA, T., and MITCHELL, R. Two new species of Thyasidae (Acarina) from Nikko National Park, Japan. Annot. Zool. Jap. 40(3):171-176. Sept.1967. 410 AN79  
*Panisopsis orientalis* n.sp., and *Japonothyas ornatus* n. g., n. sp.
- 94214 JOHNSON, R. B. GC-9160 and other materials for citrus rust mite control. Fla. State Hort. Soc. Proc. 80:73-76. May 1,1968. 81 F66  
*Phyllocoptura oleivora*
- 94215 KAROL, S. Sur une nouvelle espece du genre *Xysticus* (Araneae, Thomisidae) en Turquie [On a new species of the genus *Xysticus* (Araneae, Thomisidae) in Turkey]. Ankara. Univ. Fac. Sci. Commun. (ser.C)11(2),32 p. Ref. 1966. 330.9 An4  
*Xysticus sislii*, n. sp.
- 94216 LAWRENCE, R. F. The *Spiroboloidea* (Diplopoda) of the eastern half of Southern Africa. Natal Mus. Ann. 18(3):607-646, map. Ref. Nov.1,1967. 515 N19  
Includes n. spp. in *Chersastus* and *Microbolus* n. g.
- 94217 LEDOUX, J. C. Araneological notes. 1. Several spiders from southern France. (Fr) Entomologiste (Paris) 23(3):68-73. Ref. June 1967. 421 En814
- 94218 LEGENDRE, R. Apropos of the enigmatic *Gallieniella mygaloides* J. Millot 1947, type of the new family of *Gallieniella* (Araneae, Dionychia). (Fr) Acad. Sci. Compt. Rend. Ser. D, 265(11):796-799. Sept.11,1967. 505 P21  
Madagascar.
- 94219 LOOTS, G. C., and RYKE, P. A. J. *Gamasellevans*, a new genus of *Rhodacaridae* (Acari) from South African soils. Entomol. Soc. South Afr. J. 30(2):212-241. Sept.30,1967. 420 En86  
Includes n. spp.
- 94220 MUCHMORE, W. B. *Novobisium* (Arachnida, Chelonethida, Neobisiidae, Neobisiinae), a new genus of *Pseudoscorpions* based on *Obisium carolinensis* Banks. Entomol. News [Philadelphia] 78(8):211-215. Oct.1967. 421 En88
- 94221 MUMA, M. H. New *Phytoseiidae* (Acarina: Mesostigmata) from southern Asia. Fla. Entomol. 50(4):267-280. Dec.1967. 420 F662  
New species in *Amblyseius*, *Typhlodromips*, *Cydnodromus*, *Cydnoseius* n. g., and *Amblydromella*.
- 94222 NEWELL, L. M. *Abyssal Halacaridae* (Acari) from the southeast Pacific. Pacific Insects 9(4):693-708. Nov.20,1967. 421 P11  
New spp. *Thalassarachna bandyi*, *T. humboldti*, and *Copidognathus bruuni*.
- 94223 NUCIFORA, A., and INSERRA, R. Infestation of red spider (*Panonychus ulmi* (Koch.)) in the vineyards of Etna. (It) Tec. Agr. 20(1):21-48. Ref. Jan./Feb.1968. 16 T22  
Includes geographic distribution and biology.
- 94224 PAGE, R. J. C. A tick new to Ireland—*Ixodes* (*Exopalgiger*) *trianguliceps* Birula, 1895. Entomol. Mon. Mag. 103(1235/1237):120-122. Ref. Apr./June 1967. 421 En86
- 94225 PETROVA, A. D. On taxonomical structure of the family *Parholaspidae* Krantz, 1960 (Parasitiformes, Gamasoidea). (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 5(41):15-26. 1967. 442.8 N22
- 94226 SAKAKIBARA, I. New nasal mites *Ptilonyssus* and *Paraneonyssus* (Acarina: Mesostigmata), from Taiwan and New Guinea. Pacific Insects 9(4):597-601. Nov.20,1967. 421 P11  
*Paraneonyssus pericrocoti* and *Ptilonyssus wilsoni*.
- 94227 SMILEY, R. L. Further studies on the *Tarsonemidae* (Acarina). Entomol. Soc. Wash. Proc. 69(2):127-146. June 1967. 420 W27  
Includes n. spp. in *Stenotarsonemus*, *Hemitarsonemus*, *Neotarsonemus* n. g., and *Tarsonemus*.
- 94228 STRASSER, K. About the *Diplopoda* of Greece, a few Aegean islands and Cyprus. (Ge) Senckenb. Biol. 48(4):269-293. Ref. 1967. 410.9 Se5  
Taxonomy.
- 94229 SWIRSKI, E., and GOLAN, Y. On some phyto-seiid mites (Acarina) from Luzon Island (Philippines). Israel J. Agr. Res. 17(4):225-227. Ref. Oct.1967. 107 J552
- 94230 TRAUB, R., and NADCHATRAM, M. Chiggers of the subgenus *Trombiculindus* Radford, 1948 known from Malaysia (Acarina: Trombiculidae; Leptotrombidium). J. Med. Ent. 4(4):419-442. Nov.1967. 421 J828  
Includes new spp. in *Leptotrombidium* (*Trombiculindus*).



- 94231 TRAUB, R., and NADCHATRAM, M. New species of chiggers of the subgenus *Leptotrombidium* from the mountains of West Pakistan. (Acarina: Trombiculidae). J. Med. Entomol. 4(1):1-11. Apr.25,1967. 421 J828
- 94232 TRAUB, R., and NADCHATRAM, M. Three new species of *Leptotrombidium* from Southeast Asia (Acarina: Trombiculidae). J. Med. Ent. 4(4):483-489. Nov.1967. 421 J828  
*Leptotrombidium madiense* L. *alopeciutum*, and L. *periosum* n. spp.
- 94233 VERMEIL, C., and MARQUET, S. *Ornithodoros coniceps* (Canestrini 1890) *maritimus* new subspecies (Acarina: Argasidae) prevalent on the islands of lower Brittany; diagnosis of larvae of the *Ornithodoros coniceps-capensis* complex. (Fr) Soc. Sci. Bretagne. Bull. (Sci. Math. Phys. Natur.) 41(1/2):35-44. Ref. Mar.1967. 505 R292
- 94234 VOSS, W. J. First ixodorrhynchid mite from Philippine snakes (Acarina: Ixodorrhynchidae). J. Med. Ent. 4(4):387-390. Nov.1967. 421 J828  
*Hemilaelaps philippinensis*, n.sp.
- Taxonomic and Geographic Entomology  
Coleoptera
- 94235 ALLEN, A. A. Two new species of *Longitarsus* Latr. (Col., Chrysomelidae) in Britain. Entomol. Mon. Mag. 103(1235/1237):75-82. Apr./June 1967. 421 En86  
*Longitarsus fowleri* n. sp. and L. *clarus* n. sp.
- 94236 AMIET, J. L. Ecological notes on the terrestrial Coleoptera of the Haute Vallee of the Vesubie, Alpes-Maritime. (Fr) Cah. Natur. 23(3):53-91, map. Ref. 1967. 410 F432  
Caraboidea, Staphylinoidea, and Otiorrhynchus.
- 94237 BARAUD, J. *Hoplia christinae* a new French and Spanish species (Coleoptera: Scarabaeidae). (Fr) Soc. Linn. Lyon. Bull. Mens. 36(5):196-198, map. May 1967. 505 L992B
- 94238 BARR, T. C. *Antroforceps*, an eyeless cave scaritine from Mexico (Coleoptera: Carabidae). Coleopt. Bull. 21(3):65-70. Sept.1967. 421 C674  
Includes *Antroforceps bolivari* n.g., n.sp.
- 94239 BECCARI, F. Contribution to the knowledge on *Cosmopolites sordidus* (Germar) (Coleoptera, Curculionidae). I. (It) Riv. Agr. Subtrop. Trop. 61(1/3):51-93. (Cont.) Jan./Mar.1967. 26 Ag82  
Anatomy and taxonomy.
- 94240 BLAKE, D. H. Some new and old species of *Colaspis* in the West Indies. Entomol. Soc. Wash. Proc. 69(3):225-237. Sept.1967. 420 W27
- 94241 BONADONA, P. Distinctive characters of the French races of *Chrysocarabus solieri* Dejean (Col. Carabidae). (Fr) Entomops 7:202-224, map. Second Q.1966. QL461.E53  
Taxonomy and morphology.
- 94242 BREUNING, S., and VILLIERS, A. *Cerambycidae* of Turkey. 2. (Fr) Entomologiste [Paris] 23(3):59-63. June 1967. 421 En814  
Includes n. sp. in *Pedestredorcadion*
- 94243 BROWN, H. P., and ARRINGTON, R. A new species of *Psephenus* from Mexico and Texas (Coleoptera, Dryopoidea, Psephenidae). Coleopt. Bull. 21(3):86-91. Sept.1967. 421 C674  
*Psephenus texanus*, n.sp.
- 94244 COIFFAIT, H. Coleoptera Staphylinidae collected by J. Mateu in the Ennedi. (Fr) Inst. Fondamental Afr. Noire Bull., Ser. A, Sci. Natur. 30(1):135-150. Ref. Jan.1968. 515 D14  
Includes n. spp. in *Phacophallus*, *Platyprosoopus*, *Lithocharis*, *Stenus*, *Platystethus*, and *Aleochara* collected in the Sahara.
- 94245 DAMOISEAU, R. Liste du materiel typique conserve dans les collections entomologiques de l'Institut Royal des Sciences Naturelles de Belgique: Coleoptera. 1. Famille des Lampyridae [List of type material conserved in the entomological collections of the Royal Institute of Natural Sciences, Belgium: Coleoptera. 1. Family Lampyridae]. Inst. Roy. Sci. Natur. Belg. Bull. 43(8),24 p. Mar.31,1967. 505 B835B
- 94246 DURAND, H. Regarding two *Cicindela*. (Fr) Entomologiste 23(2):50-51. Apr.1967. 421 En814  
*Cicindela silvicola* Latr. and *Cicindela gallica* Brulle.
- 94247 HARRIS, F. *Dendrophilus xavieri* (Marseul) (Coleoptera: Histeridae) collected from poultry houses in Clarke County, Georgia. Ga. Entomol. Soc. J. 1(2):12. Apr.1966. QL461.G4
- 94248 HELSON, G. A. H. Adult periodicity of *Costelytra zealandica* (Wh.) (fam. Scarabaeidae) in New Zealand, as indicated by the use of survey type light traps. Roy. Soc. New Zeal. Trans. Zool. 10(5):45-49. Nov.2,1967. 514 W46Tz
- 94249 HERVE, P. Research on the soil fauna of the Forest of Maures (Var); description of two new species of *Leptotyphlus* Fauv. (Col. Staphylinidae). (Fr) Entomops 7:225-232. Second Q. 1966. QL461.E53  
*Leptotyphlus strobinoi* n. sp. and L. *dispersus* n. sp.
- 94250 HOFFMANN, A. Coleoptera Curculionidae collected in Chad and Cameroun by J. Gruvel and J. Pericart in 1962-1963. (Fr) Inst. Fondamental Afr. Noire Bull., Ser. A, Sci. Natur. 30(1):151-187, map. Jan.1968. 515 D14  
Includes n. spp. in *Ischnotrachelus*, *Baris*, *Elasmobaris*, *Bagous*, *Smicronyx*, *Sharpia*, *Dereolomus*, *Cionus*, *Endaeus*, *Pericartius*, and *Rhadinocerus*.
- 94251 IABLOKOFF-KHNZORIAN, S. M. Consideration of the aedeagus of the Chrysomelidae and its phylogenetic significance. (Fr) Entomologiste [Paris] 23(3):65-67. Ref. June 1967. 421 En814  
*Syneta betulae* and *Rhaebus gebleri*.
- 94252 JOLIVET, P. Systematic and ecological notes on Moroccan Chrysomelidae. (Fr) Soc. Sci. Natur. Phys. Maroc. Bull. 46(3/4):305-393. Ref. 1967. 515 Sol
- 94253 KEVAN, D. K. The British species of the genus *Longitarsus* Latreille (Col., Chrysomelidae). Entomol. Mon. Mag. 103(1235/1237):83-110. Apr./June1967. 421 En86  
Includes *Longitarsus baerei* n. sp.
- 94254 KIMOTO, S., and KAWASE, E. A list of some chrysomelid specimens collected in E. Manchuria and N. Korea. Esakia 5:39-48. Nov.25, 1966. 421 Es1
- 94255 KIMOTO, S. A list of the Chrysomelid specimens of Taiwan preserved in the Zoological Museum, Berlin. Esakia 5:21-38. Nov.25, 1966. 421 Es1
- 94256 KOCHER, L. Complementary note on Moroccan *Macrocoma* (Coleoptera Chrysom. Eumolp.). (Fr) Soc. Sci. Natur. Phys. Maroc. Bull. 46(3/4):289-303. 1967. 515 Sol
- 94257 KOCHER, L. Marine Coleoptera of Morocco. (Fr) Soc. Sci. Natur. Phys. Maroc. Compt. Rend. 32:4-5. 1966. 515 SolC
- 94258 KOCHER, L. New species or forms of Moroccan *Cebrio* (Coleoptera, Cebriionidae). (Fr) Soc. Sci. Natur. Phys. Maroc. Bull. 46(3/4):281-287. 1967. 515 Sol
- 94259 KUTEEV, F. S. The long-horned beetle [*Mori-mus verecondus* Fald.] (Coleoptera, Cerambycidae) in oak and fir forests of the northern Caucasus. (Rus) Zool. Zh. 46(9):1406-1409. Sept.1967. 410 R92  
English summary.  
Includes biology and ecology.
- 94260 LESEIGNEUR, L. Captures of *Alaus parreyssi* Steven. in Greece and Afghanistan (Col. Elateridae). (Fr) Entomologiste 23(2):51-52. Apr.1967. 421 En814

- 94261 MARIE, W. J. M. Contribution to the fauna of the Congo (Brazzaville): A. Villiers and A. Descarpentries expedition. LXIX. Coleoptera Lycidae. (Fr) Inst. Fondamental Afr. Noire Bull., Ser. A. Sci. Natur. 30(1):340-358. Ref. Jan. 1968. 515 D14  
Include *Lycus* (*Concavolycus*) (n. sgen.) and n. sp. in *Lycus*.
- 94262 MARSHALL, J. D. A new species and new United States record of *Anamphidora* Casey (Coleoptera, Alleculidae). Entomol. News [Philadelphia] 78(8):209-210. Oct. 1967. 421 En88  
*Anamphidora campbelli* n. sp.
- 94263 MARSHALL, J. D. *Xystropus californicus* (Horn), a questionable member of the United States fauna (Coleoptera, Alleculidae). Coleopt. Bull. 21(3):85. Sept. 1967. 421 C674
- 94264 MAY, B. M. The Broun species numbers (Coleoptera). Roy. Soc. New Zeal. Transl. Zool. 9(13):175-180. July 14, 1967. 514 W46Tz
- 94265 MCDERMOTT, F. A. The North American fireflies of the genus *Photuris* Dejean a modification of Barber's key (Coleoptera: Lampyridae). Coleopt. Bull. 21(4):106-116. Ref. Dec. 1967. 421 C674
- 94266 MOLINARI, H. J. Description of two new species of Tenebrionidae from Brazil (Coleoptera). (Sp) Rev. Brasil. Biol. 27(2):189-192. Aug. 1967. 442.8 R326  
English summary.  
*Epitragopsis insularis* n. sp. and *Phaleria alvarengai* n. sp.
- 94267 MOORE, I. Corrections to my key to the subfamilies of the Nearctic Staphylinidae. Coleopt. Bull. 21(3):93. Sept. 1967. 421 C674
- 94268 NICOLAS, J. P. The Coleoptera of Mont Lozere (notes on Haptoderus arvernus Jeannel, Pterostichus of the group cristatus L. Duf., and Trechus cantalichus Fauvel). (Fr) Soc. Linn. Lyon. Bull. Mens. 36(5):198-203. May 1967. 505 L992 B
- 94269 NOONAN, G. R. A range extension of *Psyrdrus piceus* Leconte (Coleoptera: Carabidae) into southern California. Coleopt. Bull. 21(3):92-93. Sept. 1967. 421 C674
- 94270 PERRAULT, G. H. Collection of Cerambycidae in Algeria. (Fr) Entomologiste 23(2):38-42. Apr. 1967. 421 En814
- 94271 PUTHZ, V. On some South Arabian Stenus (Col., Staphylinidae); 19th Contribution to the knowledge of Steninae. Entomol. Mon. Mag. 103(1235/1237):131-136. Ref. Apr./June 1967. 421 En86
- 94272 PUTHZ, V. West Mediterranean, particularly Moroccan, Stenus species (Coleoptera, Staphylinidae); 35th contribution to the knowledge of Steninae. (Ge) Soc. Sci. Natur. Phys. Maroc. Bull. 46(3/4):267-280. Ref. 1967. 515 Sol
- 94273 REICHARDT, H. A new *Camptotoma* from Minas Gerais, Brazil (Coleoptera, Carabidae). Coleopt. Bull. 21(3):73-74. Sept. 1967. 421 C674  
*Camptotoma flavostriata* n.sp.
- 94274 RUTER, G. Notes on the French sub-species of *Potosia cuprea* (fabricius) and an unknown species, *Potosia fieberi* (Kraatz) (Col. Scarab. Cetoniinae). (Fr) Entomologiste 23(2):27-38, map. Apr. 1967. 421 En814
- 94275 SCHEERPELTZ, O. New Staphylinidae from free-hanging nests of starlings in Venezuela (Col., Staphylinidae); 13th contribution to the study of Neotropic Staphylinidae. (Ge) Deut. Entomol. Z. (n.s.) 14(3/4):237-256. Oct. 20, 1967. 421 D48  
Includes n. spp. in *Xanthornobium* n. g., *Coproporus*, *Oligota*, *Diestola*, *Euaira*, and *Atheta*.
- 94276 SMETANA, A. The Czechoslovak species of the genus *Ancyrophorus* Kraatz (Col., Staph.). (Ge) Acta Entomol. Bohemoslov. 64(5):383-391. Sept. 20, 1967. 420 C33  
Includes n. spp.
- 94277 SOARES, B. A. M. A new *Rhaphirhynchus* Schoenherr, 1840 from Peru (Col. Brentidae). (Por) Pesquisa Agropecuar. Brasil. 1:319-320. 1966. S15.P42  
English summary.  
*Rhaphirhynchus pulcherrimus* n. sp.
- 94278 SOARES, B. A. M. Notes on Brentidae. I. (Col. Brentidae). (Por) Pesquisa Agropecuar. Brasil. 1:269-277. Ref. 1966. S15.P42  
English summary.  
Includes n. spp. in *Vianodes*.
- 94279 STRONG, R. G., and OKUMURA, G. T. *Trogoderma* species found in California; distribution, relative abundance, and food habits. Calif. Dep. Agr. Bull. 55(1):23-30, map. 1966. 2 C12M
- 94280 VAURIE, P. The other sex of three species of *Hyphantus* known from one sex only, and various notes (Coleoptera: Curculionidae). Coleopt. Bull. 21(3):71-72. Sept. 1967. 421 C674  
*Hyphantus incongruus*, *H. chryseus*, and *H. hypercalus*.
- 94281 VIALIER, J. Capture of *Anthaxia candens* in the province of Ain. (Fr) Soc. Linn. Lyon Bull. Mens. 37(4):144. Apr. 1968. 505 L992B
- 94282 VILLIERS, A. Coleoptera Cerambycidae of Cyprus. (Fr) Entomologiste [Paris] 23(3):63-64. June 1967. 421 En814
- 94283 VILLIERS, A. Contribution to the fauna of the Congo (Brazzaville): A. Villiers and A. Descarpentries expedition. LXX. Coleoptera Cerambycidae. (Fr) Inst. Fondamental Afr. Noire Bull., Ser. A. Sci. Natur. 30(1):359-360. Jan. 1968. 515 D14  
Includes n. sp. in *Anoeme*.
- 94284 WOOD, S. L. New records and species of Neotropical bark beetles (Scolytidae, Coleoptera). II. Great Basin Natur. 27(3):119-141. Nov. 30, 1967. 410 G79  
New spp. in *Loganius*, *Scolytus*, *Scolytodes*, *Xyleborus*, *Corthylus*, *Tricolus*, and *Stegomerus* n. g.
- 94285 WOOD, S. L. New species of bark beetles (Coleoptera: Scolytidae), mostly Mexican. VII. Great Basin Natur. 27(1):37-57. Apr. 22, 1967. 310 G79  
New spp. in *Hylastes*, *Cactopinus*, *Pseudothyssanoes*, *Pityophthorus*, *Pseudopityophthorus*, *Gnathotrichus*, *Monarthrum*, *Microcorthylus*, *Amphicranus*, and *Corthylus*.
- 94286 YOUNG, F. N. A key to the genera of American bidessine water beetles, with descriptions of three new genera (Coleoptera: Dytiscidae, Hydroporinae). Coleopt. Bull. 21(3):75-83. Sept. 1967. 421 C674  
*Neoclypeodytes* n.g., *Microdessus* n. g., and *Neobidessus* n.g.
- 94287 ZAJCIW, D. New Neotropical longicornia. XIV. (Col. Cerambycidae, Cerambycinae). (Por) Acad. Brasil. Cienc. An. 39(2):321-325. June 30, 1967. 516 R473A  
English summary.  
Includes n. spp. in *Ommata*, *Cathexis*, and *Adesmoides* n. g.

Taxonomic and Geographic Entomology  
Diptera

- 94288 ACKLAND, D. M. Diptera from Nepal: Anthomyiidae. Brit. Mus. (Natur. Hist.) Bull. Entomol. 20(4):105-139. Ref. 1967. 420 B773  
Includes n. spp. in *Craspedochaeta*, *Delia*, *Hylemya*, *Pegohylemya*, *Phorbia*, and *Pseudomyopina*.
- 94289 ALLEN, A. A. New county records of Sciomyzidae (Dipt.), mostly for Kent. Entomol. Mon. Mag. 103(1235/1237):140. Apr./June 1967. 421 En86
- 94290 BAISAS, F. E., and DOWELL, F. H. Keys to the adult female and larval anopheline mosquitoes of the Philippines. J. Med. Entomol. 4(1):11-25. Apr. 25, 1967. 421 J828



- 94291 BOWDEN, J. Studies in African Bombyliidae. VI. A provisional classification of the Ethiopian Systropinae with descriptions of new and little known species. Entomol. Soc. Southern Afr. J. 30(2):126-173, map. Sept. 30, 1967. 420 En86  
New spp. in *Systropus* and *S. (Teinopelmus)* n. sgen.
- 94292 CHARYKULIEV, D. A study of horse flies (Diptera, Tabanidae) in Turkmenistan. (Rus) Akad. Nauk Turkm. SSR Izv. Ser. Biol. Nauk 4:73-78. 1967. 442.9 Ak124
- 94293 COLLESS, D. H. A note on *Culex* (Lophoceraomyia) infantulus Edwards and its occurrence in Malaya (Diptera: Culicidae). J. Med. Ent. 4(4): 519-520. Nov. 1967. 421 J828
- 94294 COOKSON, D. M. Some habits of male horse-flies in Rhodesia (Diptera: Tabanidae). Natal Mus. Ann. 18(3):647-654. Nov. 1, 1967. 515 N19
- 94295 CORNET, M. *Aedes* (Aedimorphus) chamboni n. sp., a new species of Culicidae from Senegal. (Fr) Soc. Pathol. Exot. Bull. 60(4):398-402. Ref. July/Aug. 1967. 448.9 So13  
English summary.
- 94296 CROSSKEY, R. W. A preliminary revision of the black-flies (Diptera: Simuliidae) of the Middle East. Roy. Entomol. Soc. London. Trans. 119(1), 45 p., map. Ref. Apr. 21, 1967. 420 L84
- 94297 CROSSKEY, R. W. A revision of the Oriental species of *Palexorista* Townsend (Diptera: Tachinidae, Sturmiini). Brit. Mus. (Natur. Hist.) Bull. Entomol. 21(2):35-97. Ref. 1967. 420 B773  
Includes *P. reclinata* and *P. bancrofti* n. spp.
- 94298 CURTIN, T. J. Status of *Aedes aegypti* in the eastern Mediterranean. J. Med. Entomol. 4(1):48-49. Ref. Apr. 25, 1967. 421 J828
- 94299 D'ASSIS FONSECA, E. C. M. The identification of the female and re-description of the male of *Fannia atripes* Stein (Dipt., Muscidae), and the description of a new closely related species from Scotland. Entomol. Mon. Mag. 103(1235/1237):137-140. Apr./June 1967. 421 En86  
*Fannia subatripes* n. sp.
- 94300 DODGE, H. R. Some new American Sarcophagidae (Diptera). Pacific Insects 9(4):679-686. Nov. 20, 1967. 421 P11  
New spp. in *Aulacophyto*, *Azuayia* n. g., *Boettcheria*, *Metoposarcophaga*, *Pessoamyia*, *Sarcophaga*, *Sarcodexia*, and *Udamopyga* in North and South America.
- 94301 DODGE, H. R. Two new metallic species of *Helina* from Chile (Diptera: Muscidae). Entomol. Soc. Wash. Proc. 69(3):241-243. Sept. 1967. 420 W27  
*Helina virescens* and *H. veniseta*.
- 94302 FEDOSEEVA, L. I. On the fauna of *Meromyza* Mg. of North America. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 10(4):33-34. 1967. 442.8 N22
- 94303 FLOCH, H., KRAMER, R., and CHATENAY, DE. G. *Phlebotomus* of Venezuela: *P. lichvi* Floch and Abonnenc 1950, *P. vexillarius* Fairchild and Hertig 1952, and *P. foliatus* Mirsa and Ortiz 1953. (Fr) Soc. Pathol. Exot. Bull. 59(3):387-391. Ref. May/June 1966. 448.9 So13
- 94304 GOOT, V. S. VAN DER. Syrphidae inventory of the Heiloor Forest. (Du) Entomol. Ber. 27(7):135-137. July 1, 1967. 420 N38B  
English summary.
- 94305 HALL, J. C. A new species of Empididae: *Becker* [E. timberlakei] from Texas (Diptera: Bombyliidae). Entomol. News [Philadelphia] 78(8):215-218. Oct. 1967. 421 En88
- 94306 HUBICKA, J. A new species of the genus *Meromyza* Mg. (Diptera, Chloropidae) from Poland. Acad. Polon. Sci. Bull. Ser. Sci. Biol. 15(12):753-756. 1967. 512 W262  
*Meromyza lolii* n. sp.
- 94307 IPE, I. M. A detailed morphological study of the external and internal genital organs of male *Melanagromyza obtusa* (Malloch), a pest of *Cajanus indicus* L. Indian J. Entomol. 29(1):1-10. Ref. Mar. 1967. 420 In23
- 94308 JONES, R. H. An overwintering population of *Culicoides* in Colorado. J. Med. Ent. 4(4):461-463. Nov. 1967. 421 J828  
Includes a n. sp. (near *wisconsinensis*).
- 94309 KHALAF, K. T. The *Culicoides* of New Orleans, Louisiana (Diptera, Ceratopogonidae). La. Acad. Sci. Proc. 30:49-54. 1967. 500 L932
- 94310 KNIGHT, K. L. Distribution of *Aedes sollicitans* (Walker) and *Aedes taeniorhynchus* (Wiedemann) within the United States (Diptera, Culicidae). Ga. Entomol. Soc. J. 2(1):9-12, map. Jan. 1967. QL461.G4
- 94311 KULP, L. A. The taxonomic status of dipterous holly leaf miners (Diptera: Agromyzidae). Md. Agr. Exp. Sta. Bull. A-155, 42 p. Ref. May 1968. 100 M36S  
Includes n. spp.
- 94312 LECLERCQ, M. Tabanidae (Diptera) from the Mediterranean islands. (Fr) Bull. Rech. Agron. Gembloux 2(2):264-272. Ref. 1967. S5.B8
- 94313 LEWIS, D. J. South African phlebotomine sand-flies (Diptera: Psychodidae). Natal Mus. Ann. 18(3):495-500. Nov. 1, 1967. 515 N19  
Includes n. spp. in *Sergentomyia*.
- 94314 LINDEBERG, B. Sibling species delimitation in the *Tanytarsus lestagei* aggregate (Diptera, Chironomidae). Ann. Zool. Fenn. 4(1):45-86. Ref. 1967. 410 An712
- 94315 MAA, T. C. A synopsis of Diptera Pupipara of Japan. Pacific Insects 9(4):727-760. Ref. Nov. 20, 1967. 421 P11  
Includes n. spp. *Ornithomya candida* and *Brachytarsina kanoi*.
- 94316 MCALPINE, D. K. The Australian species of *Diplogomyza* and allied genera (Diptera, Heleomyzidae). Linn. Soc. New S. Wales. Proc. 92(1):74-106. 1967. 514 Sy2  
New spp. in *Diplogomyza*, *Leriopsis* n. g., *Austroleria* n. g., and *Trixoleria* n. g.
- 94317 MUNRO, H. K. Fruitflies allied to species of *Arocneros* and *Ocnarioxa* that infest *Cussonia*, the umbrella tree or kiepersol (Araliaceae) (Diptera: Trypetidae). Natal Mus. Ann. 18(3): 571-594. Nov. 1, 1967. 515 N19  
Includes n. spp. in *Ocnarioxa*, *Ptiloniola*, and *Labeschatia* n. g.
- 94318 OOSTSTROOM, S. J. VAN. *Eristalis cryptarum* F. in Twente (Dipt., Syrph.). (Du) Entomol. Ber. 26(11):203. Nov. 1, 1966. 420 N38B
- 94319 OVAZZA, M. Contribution to the fauna of the Congo (Brazzaville): A. Villiers and A. Des-carpenries expedition. LXXI. Diptera Tabanidae. (Fr) Inst. Fondamental Afr. Noire Bull., Ser. A. Sci. Natur. 30(1):361-369. Ref. Jan. 1968. 515 D14
- 94320 PHILIP, C. B. Species of *Tabanus* related to *T. xanthogaster* Philippi in Chile. J. Med. Ent. 4(4):463-466. Nov. 1967. 421 J828  
*Tabanus penai*, *T. monotaxis*, and *T. (Neotabanus) xerodes*, n. spp.
- 94321 PIPKIN, S. B. A new member of a sibling set belonging to the *Drosophila tripunctata* group (Diptera: Drosophilidae). Entomol. Soc. Wash. Proc. 69(2):111-114. June 1967. 420 W27  
*Drosophila leticiae* n. sp.
- 94322 QUATE, L. W. Type specimens of *Phlebotomus perturbans* de Meijere. J. Med. Entomol. 4(1):42. Apr. 25, 1967. 421 J828
- 94323 REISS, F. Ecological and systematical studies on Chironomidae (Diptera) of Lake Constance. (Ge) Arch. Hydrobiol. 64(2):176-246. Mar. 1968. 410 AR28
- 94324 ROBINSON, H. Neoparentia, a new genus of American Dolichopodidae (Diptera). Entomol. Soc. Wash. Proc. 69(3):252-259. Sept. 1967. 420 W27  
Includes n. spp.
- 94325 ROZKOSNY, R. New knowledge on *Sciomyzidae* (Diptera) of Silesia. (Cz) Cas. Slezakeho Muz., Ser. A. Sci. Natur. 14(1):35-38. 1965. 510 T75  
German summary.  
Taxonomy and geographic distribution.

- 94326 RYGG, T. The wheat-fly, a pest of spring wheat. (No) Norsk Landbruk 12:14-15. June 16, 1967. 11 N8122  
Hylemyia securis.
- 94327 SAETHER, O. A. Notes on some Nearctic chironomid larvae. Entomol. News [Philadelphia] 78(8):197-208. Ref. Oct. 1967. 421 En88
- 94328 SMITH, K. G. V. The biology and taxonomy of the genus *Stylogaster* Macquart, 1835 (Diptera: Conopidae, Stylogasterinae) in the Ethiopian and Malagasy regions. Roy. Entomol. Soc. London, Trans. 119(2):47-69. Ref. June 27, 1967. 420 L84  
Includes n. spp.
- 94329 SPENCER, K. A. Some Agromyzidae (Diptera) from Morocco. Entomol. Mon. Mag. 103 (1235/1237):126-130. Apr./June 1967. 421 En86  
Includes *Paraphytomyza atlantidis* n. sp.
- 94330 STEYSKAL, G. C. *Anthomyia procellaris* Rondani in North America (Diptera, Anthomyiidae). Entomol. Soc. Wash. Proc. 69(3):240. Sept. 1967. 420 W27
- 94331 STEYSKAL, G. C. Distinguishing *Amoebaleria defessa* (Osten Sacken) from *A. Sackeni* Garrett (Diptera: Heleomyzidae). Entomol. Soc. Wash. Proc. 69(3):296. Sept. 1967. 420 W27
- 94332 STEYSKAL, G. C. A new subgenus for *Leucopis luteicornis* Malloch, a predator on Mealybugs in India (Diptera: Chamaemyiidae). Entomol. Soc. Wash. Proc. 69(3):275-276. Sept. 1967. 420 W27  
*Leucopis* (*Indioleucopis*), n. sgen.
- 94333 STEYSKAL, G. C. Replacement names for pre-occupied specific names in Dolichopodidae (Diptera). Entomol. Soc. Wash. Proc. 69(3):224. Sept. 1967. 420 W27  
*Medetera postminima* for *M. minima* and *Sympycnus pessimplex* for *S. simplicipes*.
- 94334 STONE, A. A Synoptic Catalog of the Mosquitoes of the World, supplement III (Diptera: Culicidae). Entomol. Soc. Wash. Proc. 69(3):197-224. Ref. Sept. 1967. 420 W27  
*Cozuilletidia* raised to generic rank.
- 94335 SUDIA, W. D., and others. St. Louis encephalitis vector studies in Houston, Texas, 1964. J. Med. Entomol. 4(1):32-36, map. Ref. Apr. 25, 1967. 421 J828  
P. H. Coleman, R. W. Chamberlain, J. S. Wiseman, T. H. Work, joint authors.  
*Culex pipiens quinquefasciatus*, *Anopheles quadrimaculatus* as vectors.
- 94336 USHER, P. J. Three new species of Tabanidae from Southern Africa (Diptera). Natal Mus. Ann. 18(3):595-606. Nov. 1, 1967. 515 N19  
*Philoliche marriotti*, *P. oreophila*, and *Limata kuhnelti*.
- 94337 WEEMS, H. V. *Anastrepha interrupta* Stone (Diptera: Tephritidae). Fla. Dep. Agr. Div. Plant Indus. Tri-ology Tech. Rep. 6(6, entomol. circ. 61), 2 p. June 1967. 423.9 F6622
- 94338 WYATT, I. J. Pupal paedogenesis in the Cecidomyiidae (Diptera). 3. A reclassification of the Heteropezini. Roy. Entomol. Soc. London Trans. 119(3):71-98. Ref. June 27, 1967. 420 L84  
Includes *Heteropezula tenuis* n. g., n. sp. and *Miastor castaneae* n. sp.
- 94339 ZANDEN, G. VAN DER. Faunistic notes concerning Diptera. III. (Du) Entomol. Ber. 27 (4):74-75. Apr. 1, 1967. 420 N38B
- 94342 BULLOCK, J. A., and FURTADO, J. I. Population assessment and movement in *Ptilomera dromas* Breddin (Hemiptera-Gerridae). Arch. Hydrobiol. 64(2):121-130. Ref. Mar. 1968. 410 Ar28  
In Malaysia.
- 94343 CARNEGIE, A. J. M. Field populations of *Numicia viridis* Muir. S. Afr. Sugar Technol. Ass. Proc. 1967:178-179. 65.9 So83
- 94344 CUEVAS Z., A., and ORTIZ H., J. J. *Acanthocephalini* and other Coreidae occurring in Monterrey and neighboring cities. (Sp) Soc. Nuevoleonesa Hist. Natur. Dr. J. Eleuterio Gonzalez. Bol. 1(1):25-33. Ref. Sept. 1966. QH7.S6
- 94345 DELONG, D. M. Studies of the Mexican Deltocephalinae; a new genus, *Conversana*, and three new species (Homoptera: Cicadellidae). Entomol. Soc. Wash. Proc. 69(3):266-269. Sept. 1967. 420 W27  
*Conversana conversa*, *C. reversa*, and *C. angustata*, n. spp.
- 94346 DE LOTTO, G. The soft scales (Homoptera: Coccidae) of South Africa. I. S. Afr. J. Agr. Sci. 10(3):781-810. Ref. Sept. 1967. 24 Su3  
Includes n. spp.: *Ceroplastes adustus*, *Messinea plana*, and *Parasaissetia litorea*.
- 94347 FENNAH, R. G. New and little known Fulgoroidea from South Africa (Homoptera). Natal Mus. Ann. 18(3):655-714. Nov. 1, 1967. 515 N19  
Appendix; Notes on the habitat of some of the species, by B. R. Stuckenberg, p. 708-714. Ref.  
Includes n. spp. in *Risius*, *Strongyloides*, *Capenopsis*, *Codon*, *Menenches*, *Caliscelis*, *Asarcopus*, *Gamergus*, *Caffrocixius* n. g., *Caffrommatissus* n. g., *Griphissus* n. g., *Telmossias* n. g., *Telmossodes* n. g., *Stilpnochlaena* n. g., *Afronias* n. g. and *Brachypyrhyllis* n. g.
- 94348 FLEMING, C. A., and ORDISH, R. G. Type specimens of G. V. Hudson's taxa of New Zealand cicadas (genus *Melampsalta*: Hemiptera, Homoptera). Wellington. Dominion Mus. Rec. 5(20):195-200. Ref. Nov. 18, 1966. 514 W462R
- 94349 FROESCHNER, R. C. Revision of the cactus plant bug genus *Hesperolabops* Kirkaldy (Hemiptera: Miridae). U. S. Nat. Mus. Proc. 123 (3614), 11 p. 1967. 500 Sm65P  
Includes n. spp.
- 94350 GONZALEZ-ANGULO, W., and RYCKMAN, R. E. Incidence of *Trypanosoma cruzi* infections in Triatominae and man in Mexico. J. Med. Entomol. 4(1):44-47. Apr. 25, 1967. 421 J828
- 94351 GUPTA, K. M., SINGH, R. A., SAGAR, G., and MISRA, S. G. Scale insect (*Melanaspis glomeata* Green). A potential danger to sugar industry in Uttar Pradesh. Sugar Technol. Ass. India Proc., 35th Annu. Conv., pt. 1:243-248. Ref. 1967. 65.9 Su35P  
In India.
- 94352 HEINRICH, W. O. A coffee pest in Brazil: *Cicada*. World Crops. 19(4):43-47. Ref. Sept. 1967. 281.8 W892
- 94353 HEPNER, L. W. New species of *Erythroneura* (Cicadellidae) related to *inaepta*. Ga. Entomol. Soc. J. 1(4):1-5. Oct. 1966. QL461.G4
- 94354 HODGSON, C. J. Some *Pulvinaria* species (Homoptera: Coccidae) of the Ethiopian Region. Entomol. Soc. Southern Afr. J. 30(2):193-211. Ref. Sept. 30, 1967. 420 En86  
Includes *P. uapacae* n. sp.
- 94355 KAWECKI, Z. Studies on the genus *Lecanium* Burm. VI. *Lecanium smreczynskii* sp. n. (Homoptera, Coccoidea, Lecaniidae). Acad. Polon. Sci. Bull. Ser. Sci. Biol. 15(11):687-689. 1967. 512 W262
- 94356 KRAMER, J. P. A key to the species of *Lystridea* Baker with description of a new species from California (Homoptera: Cicadellidae: Errhomenellini). Entomol. Soc. Wash. Proc. 69(3):292-294. Sept. 1967. 420 W27  
*Lystridea wilkeyi*, n. sp.

Taxonomic and Geographic Entomology  
Hemiptera (Heteroptera and Homoptera)

- 94340 BRAMMANIS, L. *Aradus cinnamomeus*, a new forest pest. (Sw) Skogen (Stockholm) 54(22): 573-574. Nov. 9, 1967. 99.8 Sk51  
Morphology and outbreaks.
- 94341 BRODIE, H. D., and RYCKMAN, R. E. Molecular taxonomy of Triatominae (Hemiptera: Reduviidae). J. Med. Ent. 4(4):497-517. Ref. Nov. 1967. 421 J828



- 94357 KRAMER, J. P. A taxonomic study of *Graminella nigrifrons*, a vector of corn stunt disease, and its congeners in the United States (Homoptera: Cicadellidae: Deltocephalinae). Entomol. Soc. Amer. Ann. 60(3):604-616. Ref. May 15, 1967. 420 En82
- 94358 LAMBERS, D. H. R. A new species of *Aulacorthum* Mordvilko [*A. vandenboschi*] (Homoptera, Aphididae) from Japan. Entomol. Ber. 27(7):132-134. July 1, 1967. 420 N38B
- 94359 LEONARD, M. D. A list of the aphids of Cyprus (Homoptera: Aphididae). Entomol. Soc. Wash. Proc. 69(3):259-266. Sept. 1967. 420 W27  
Includes list of food plants.
- 94360 MUNTING, J. New and little known armoured scales (Homoptera: Diaspididae) from South Africa. 3. Entomol. Soc. Southern Afr. J. 30 (2):251-274. Ref. Sept. 30, 1967. 420 En86  
New spp. in *Diaspis*, *Formosaspis*, *Morganelia*, *Lindingaspis*, *Rungaspis*, *Selenaspis*, and *Tecaspis*.
- 94361 PERICART, J. Note on the subject of the subgeneric characteristics among the Palearctic *Orius* (Heteroptera: Anthrenidae). (Fr) Soc. Linn. Lyon. Bull. Mens. 36(4):148-155. Apr. 1967. 505 L992B
- 94362 POSTRADO, B. T. A note on the taxonomy and biology of Benguet pine aphid - *Eulachnus thumbergii* Wit. Forest. Leaves 18(1/2):75-76, 88. Feb. 1967. 99.8 P532  
Pest of *Pinus insularis* in the Philippines.
- 94363 PRASAD, U. N., and MEHRA, B. P. A new record of *Rangoni lac* on *Grevillea robusta* A. Cunn. (Fam. Proteaceae) from Namkum, Ranchi. Indian Forest. 93(6):373. June 1967. 99.8 In2
- 94364 RUSSELL, L. M. *Venezaleurodes pisoniae*, a new genus and species of whitefly from Venezuela (Homoptera: Aleyrodidae). Fla. Entomol. 50(4):235-241. Dec. 1967. 420 F662
- 94365 SCHMID, G. Bugs from Baden-Wuerttemberg. (Ge) Baden-Wuerttemb. Landesstelle Naturschutz Landschaftspflege Veroff. 35:89-107. Ref. 1967. 410.9 W96
- 94366 SCUDDER, G. G. E. Rhyparochrominae types in the British Museum (Natural History) (Hemiptera: Lygaeidae). Brit. Mus. (Natur. Hist.) Bull. Entomol. 20(6):251-285. 1967. 420 B773
- 94367 SLATER, J. A. New micropterous Blissinae from South America (Hemiptera: Lygaeidae). Conn. Univ. Occas. Papers. Biol. Sci. Ser. 1(1):3-11. Dec. 1966. QH301.C62  
*Praetorblissus gigas* n. g., n. sp. and *Ischnodemus proprius* n. sp.
- 94368 SLATER, J. A., and WILCOX, D. B. A revision of the genus *Patritius* (Hemiptera: Lygaeidae). Conn. Univ. Occas. Papers. Biol. Sci. Ser. 1(1):25-42. Dec. 1966. QH301.C62  
Includes n. spp.
- 94369 SLATER, J. A. Synonymy in the Lygaeidae (Hemiptera). Entomol. Soc. Wash. Proc. 69(3):244-245. Sept. 1967. 420 W27
- 94370 SYNAVE, H. List of typical material conserved in the entomological collections of the Royal Institute of Natural Sciences, Belgium; Hemiptera. 1-8, Nepidae, Belostomatidae, Notonectidae, Mesoveliidae, Lygaeidae, Pyrrhocoridae, Miridae and Tingidae. (Fr) Inst. Roy. Sci. Natur. Belg. Bull. 43(23), 27 p. June 29, 1967. 504 B835B
- 94371 SZELEGIEWICZ, H. *Aphis psammophila* n. sp. (Homoptera, Aphididae) one of the frequently occurring aphids on roots of *Jasione montana* L. in Europe. (Ge) Acad. Polon. Sci. Bull. Ser. Sci. Biol. 15(9):555-559. 1967. 512 W262
- Taxonomic and Geographic Entomology  
Hymenoptera
- 94372 ANNECKE, D. P. The genera *Anicetus* Howard, 1896, *Paraceraptrocetus* Girault, 1920 and allies, with descriptions of new genera and species (Hymenoptera: Encyrtidae). Roy. Entomol. Soc. London. Trans. 119(4):99-169. Ref. July 18, 1967. 420 L84  
Includes *Anasemion* n. g. and n. spp. in *Anicetus*, *Paraceraptrocetus*, and *Homosemion* n. g.
- 94373 AUBERT, J.-F. Revision of works concerning the Ichneumonidae of France and 6th supplement to the Catalogue de Gaulle. (Fr) Soc. Linn. Lyon Bull. Mens. 37(4):133-144. Ref. Apr. 1968. 505 L992B
- 94374 BEAUMONT, J. De. Hymenoptera from Turkey. Sphecidae. I. Brit. Mus. (Natur. Hist.) Bull. Entomol. 19(5):251-382. Ref. 1967. 420 B773  
Appendix: Spheg Linne, Subgenus *Palmodes* Kohl, by P. Roth, p. 368-375.  
Includes n. spp. in *Ammophila*, *Spheg*, *Cerceris*, *Bembix*, *Bembecinus*, *Gorytes*, *Nysson*, *Nippononysson*, *Alysson*, *Gastrosericus*, *Psenulus*, *Diodontus*, *Crossocerus*, *Lindenius*, *Entomognathus*, *Belomicrus*, and *Spheg* (Palmodes).
- 94375 BENES, K. Czechoslovak species of *Pontania* crassipes-group (Hymenoptera, Tenthredinidae). Acta Entomol. Bohemoslov. 64(5):371-382, map. Ref. Sept. 20, 1967. 420 C33
- 94376 DRAKE, E. F. Comparisons between the external morphology of the larvae of *Apanteles chilonis* [Munakata] and *A. flavipes* (Cameron) (Hymenoptera, Braconidae). Mushi 40(3):29-37. Ref. Dec. 30, 1966. 421 M97
- 94377 EVANS, H. E. New generic records of Bethyliidae from South America (Hymenoptera). Entomol. Soc. Wash. Proc. 69(3):269-272. Sept. 1967. 420 W27  
Includes n. spp. *Aspidopyris austrinus*, *Parascleroderma pucallpa*, *Apenesia chilena*.
- 94378 FISCHER, M. On reared braconids from Europe (Hymenoptera). (Ge) Z. Angew. Entomol. 58(4):323-339. Ref. Dec. 1966. 421 Z36  
Includes n. spp. in *Aphaereta*, *Alloea*, *Blacus*, *Heterospilus*, and *Hecabolus*.
- 94379 HOED, G. DEN. Contributions to the study of the Ichneumonidae (Hym.). IX. (Du) Entomol. Ber. 27(6):107-108. June 1, 1967. 420 N38B  
English summary.  
Netherlands fauna.
- 94380 HUNG, A. C. F. A new species and two new names of the *Polyrhachis* ants (Hymenoptera: Formicidae). Mushi 40(16):199-202. Ref. Mar. 24, 1967. 421 M97  
*Polyrhachis pseudothrinax*, n. sp. *P. horacei* = *P. cheesmanae*, *P. kellyi* = *P. hirta*.
- 94381 KERICH, G. J. On the classification of the anagrine Encyrtidae, with a revision of some of the genera (Hymenoptera: Chalcidoidea). Brit. Mus. (Natur. Hist.) Bull. Entomol. 20(5):141-250. Ref. 1967. 420 B773  
Includes n. spp. in *Hungariella*, *Clausenia*, *Chalcaspis*, *Aenasius*, *Neodiscodes*, and *Euryrhopalus*.
- 94382 LABERGE, W. E. A revision of the bees of the genus *Andrena* of the Western Hemisphere. Part I. *Callandrena*. (Hymenoptera: Andrenidae). Nebr. Univ. State Mus. Bull. 7:316 p., maps. Ref. Oct. 1967. 500 N272  
Includes n. spp. in *Andrena* (*Callandrena*).
- 94383 LEFEBER, V. Interesting captures of Hymenoptera-Aculeata, for the most part from South Limburg. (Du) Entomol. Ber. 26(11):209-211. Nov. 1, 1966. 420 N38B  
English summary.
- 94384 LEFEBER, V. On *Aculeata* terrain in 1965 and 1966 in Netherlands-Belgium. (Du) Entomol. Ber. 27(7):138. July 1, 1967. 420 N38B  
English summary.
- 94385 MARSH, P. M. The Nearctic *Doryctinae*, IV. Notes on the genus *Dendrosoter* Wesmael and description of one new species (Hymenoptera, Braconidae). Entomol. Soc. Wash. Proc. 69(3):246-247. Sept. 1967. 420 W27  
*D. chansleri*, n. sp.
- 94386 MICKEL, C. E. A review of the mutillid genus *Chyphotes* Blake (Hymenoptera: Mutillidae; Apterygyninae). Amer. Entomol. Soc. Trans. 93 (2):125-234, map. Ref. June 1967. 420 P53  
Includes n. spp. in *Chyphotes* (*Chyphotes*) and *Chyphotes* (*Pitanta*).

- 94387 MOMOI, S. Ichneumonidae (Hymenoptera) collected in paddy fields of the Orient, with descriptions of new species. 1. Subfamilies Ephialtinae, Gelinae, Banchinae, Anomalinae and Mesochorinae. *Mushi* 40(1):1-11. Sept. 1, 1966. 421 M97  
Includes n. spp. in *Acrodactyla* and *Strepsimallus*.
- 94388 MOMOI, S. The ichneumonflies of the genus *Colpotrochia* occurring in Japan and adjacent areas (Hymenoptera: Ichneumonidae). *Mushi* 40(2):13-27. Oct. 10, 1966. 421 M97  
Includes n. spp.
- 94389 NIXON, G. E. J. The Indo-Australian species of the ulior-group of *Apanteles* Forster (Hymenoptera: Braconidae). *Brit. Mus. (Natur. Hist.) Bull. Entomol.* 21(1), 34 p. Ref. 1967. 420 B773  
Includes n. spp.
- 94390 OOSTSTROOM, S. J. VAN. An early bumble bee [*Bombus terrestris*]. (Du) *Entomol. Ber.* 27(4):75. Apr. 1, 1967. 420 N38B
- 94391 PARRE, F. Bees from Etterzhausen near Regensburg. (Ge) *Entomol. Z.* 77(9):107-110. May 2, 1967. 421 En85  
Taxonomy.
- 94392 PULAWSKI, W. J. Hymenoptera from Turkey, Sphecidae. II. (Genera *Astata* Latreille and *Tachysphex* Kohl). *Brit. Mus. (Natur. Hist.) Bull. Entomol.* 19(6):383-410. Ref. 1967. 420 B773
- 94393 RICHARDS, O. W. Some British species of *Leiophron* Nees (Hymenoptera: Braconidae, Euphorinae), with the description of two new species. *Roy. Entomol. Soc. London. Trans.* 119 (5):171-186. Ref. July 18, 1967. 420 L84  
*Leiophron orthotylus* n. sp. and *L. heterocordylus* n. sp.
- 94394 ROSEN, D. Keys for the identification of the hymenopterous parasites of scale insects, aphids and aleyrodids on citrus in Israel. In Avidov, Z., ed. *Studies in agricultural entomology and plant pathology*, p. 43-80. 1966. SB605.178A8  
Bibliography, p. 74-79.
- 94395 SMITH, D. R. A review of the subfamily *Heterarthrinae* in North America (Hymenoptera: Tenthredinidae). *Entomol. Soc. Wash. Proc.* 69(3):277-284. Sept. 1967. 420 W27  
Includes *Bidigitus* n. g., and *Prolatus artus* n. g., n. sp.
- 94396 TOWNES, H., and TOWNES, M. A catalogue and reclassification of the Neotropical Ichneumonidae. *Amer. Entomol. Inst. Mem.* 8, 367 p. 1966. 420 Am34  
Appendix: A key to the genera of Ichneumonidae recorded from the Neotropical Region, by H. Townes, p. 295-332.  
The Appendix includes these n. gg.: *Clydonium*, *Clasis*, *Distictus*, *Latosculum*, *Debilos*, *Rhinum*, *Dismodix*, *Bicristella*, *Cestrus*, *Sphelodon*, *Lissocaulus*, *Coelorrhachis*, *Physo-tarsus*, *Oreohoplus*, *Projoppa*, *Eurydacus*, *Pentelophus*, and *Dilopharius*.
- 94397 TRESSSENS, F. The *Chrysis* [Chrysididae] of Tarn-et-Garonne. (Fr) *Entomologiste* (Paris) 23(3):57-59. June 1967. 421 En814
- 94398 WALTON, G. M. What is a bee? *New Zeal. J. Agr.* 114(1):53. Jan. 1967. 23 N48J
- 94399 WATANABE, C. Notes on Braconidae caught in a sweep-net at paddy fields. I. (Hymenoptera). *Mushi* 40(15):189-199. 1967. 421 M97  
Includes *Apanteles oryzicola* n. sp., in Japan.
- 94400 WEBER, N. A. Synonyms of *Trachymyrmex* *bugnioni* Forel and *Trachymyrmex diversus* Mann (Hymenoptera: Formicidae). *Entomol. Soc. Wash. Proc.* 69(3):273-274. Sept. 1967. 420 W27
- 94401 WEIFFENBACH, H. On little known or remarkable sawflies from northern and central Hesse (Hym., Tenthredinidae). (Ge) *Entomol. Z.* 77(9):97-107. Ref. May 2, 1967. 421 En85
- 94402 WILSON, E. O., and HUNT, G. L. Ant fauna of Futuna and Wallis Islands, stepping stones to Polynesia. *Pacific Insects* 9(4):563-584, map. Nov. 20, 1967. 421 P11
- 94403 WOYDAK, H. A contribution to the bee fauna of Westphalia (bees of the valley of Lippe and environs). (Ge) *Entomol. Z.* 77(10):115-120. May 16, 1967. 421 En85  
Colletidae, Andrenidae and Halictidae (Hymenoptera).

#### Taxonomic and Geographic Entomology Lepidoptera

- 94404 AGENJO, R. Lack of information concerning lepidopterologic literature of Spain (Geometridae). (Fr) *Alexandor* 4(8):362-363. 1966. 421 AL2  
*Sterrha fathmaria*.
- 94405 BAISCH, G. *Sidemia pozzii*, a new find for Wurttemberg (Lep., Noctuidae). (Ge) *Entomol. Z.* 77(9):112. May 2, 1967. 421 En85
- 94406 BEIERLEIN, M. Another species of *Psychidae* new for the Palatinate (Lep.). (Ge) *Entomol. Z.* 77(9):111-112. May 2, 1967. 421 En85  
*Rebelia bavarica*.
- 94407 BERGER, L. A. Contribution to the study of the fauna of the Lower Casamance, Senegal, XX. *Lepidoptera Hesperidae*. (Fr) *Inst. Fondamental Afr. Noire Bull., Ser. A. Sci. Natur.* 30(1):205-220, map. Ref. Jan. 1968. 515 D14
- 94408 BETZ, J. T. Lepidopterists should know how to choose their collecting dates (Nymphalidae). II. (Fr) *Alexandor* 4(8):356-358. 1966. 421 AL2
- 94409 BROWN, F. M. Lorquin's localities "Sonora" and "Utah". *Lepidopterists' Soc. J.* 21(4):271-274. Nov. 28, 1967. 421 L554  
Butterfly distribution nomenclature.
- 94410 BROWN, F. M. The Strecker letters from naturalists. *Entomol. News* [Philadelphia] 78 (8):219-221. Oct. 1967. 421 En88  
Herman Strecker, lepidopterist.
- 94411 BROWN, F. M. The types of the nymphalid butterflies described by William Henry Edwards. III. *Nymphalinae*, *Limentitidinae*, *Apaturinae* and *Charaxinae*. *Amer. Entomol. Soc. Trans.* 93(3):319-393. Ref. Sept. 1967. 420 P53
- 94412 BROWN, K. S., and MIELKE, O. H. H. *Lepidoptera of the Central Brazil Plateau. I. Preliminary list of Rhopalocera* (continued): *Lycaenidae*, *Pieridae*, *Papilionidae*, *Hesperidae*. *Lepidopterists' Soc. J.* 21(3):145-168. 1967. 421 L554
- 94413 BUCKETT, J. S., and BAUER, W. R. Description of a new species of *Anepia* Hampson from the Sierra Nevada of California (Noctuidae). *Lepidopterists' Soc. J.* 21(4):235-240, map. Nov. 28, 1967. 421 L554
- 94414 CAPUSE, I. Contributions to the knowledge of the Palearctic (Lepidoptera, Tineidae). (Ge) *Entomol. Ber.* 27(6):109-118. June 1, 1967. 420 N38B  
Includes n. spp. in *Nemapogon* and *Obesoceras*.
- 94415 CHAPIN, J. B., and CALLAHAN, P. S. A list of the Noctuidae (Lepidoptera, Insecta) collected in the vicinity of Baton Rouge, Louisiana. *La. Acad. Sci. Proc.* 30:39-48. Ref. 1967. 500 L932  
Chiefly from light traps.
- 94416 CLENCH, H. K. Type localities of some Neotropical *Lycaenidae* taken by Gervase Mathew and described by W. C. Hewitson. *Lepidopterists' Soc. J.* 21(3):181-184. 1967. 421 L554
- 94417 COMPARISON of British and Netherlands migration data. (Du) *Entomol. Ber.* 27(6):106. June 1, 1967. 420 N38B  
Lepidoptera.
- 94418 COWAN, C. F. Butterfly wing-prints. *Soc. Bibliogr. Nat. Hist. J.* 4(7):368-369. Jan. 1968. 241.7 Sol
- 94419 COWAN, C. F. "Enc. Meth. 9" - supplementary notes. *Soc. Bibliogr. Nat. Hist. J.* 4(7):390. Jan. 1968. 241.7 Sol  
Volume 9 by Latreille on butterfly nomenclature



- 94420 EISNER, C. *Parnassiana nova*. XLI. Additional observations concerning the revision of the subfamily Parnassiinae. 14. (Ge) Leiden. Rijksmus. Natuur. Hist. Zool. Mededel. 42(2): 17-19. Mar. 8, 1967. 410.9 L59
- 94421 FLINT, G. J. Lepidoptera taken at light in 1965 near the Abbey of Sion (Province Overijssel). (Du) Entomol. Ber. 27(8):152. Aug. 1, 1967. 420 N38B
- 94422 FREEMAN, H. A. *Polythrix octomaculata*, not *procerus*, in Texas (Hesperiidae). Lepidopterists' Soc. J. 21(4):278. Nov. 28, 1967. 421 L554
- 94423 GREAT BRITAIN. MINISTRY OF AGRICULTURE, FISHERIES AND FOOD. Small ermine moths. Great Brit. Min. Agr. Fish. Food. Adv. Leaflet 40, rev. 4 p. Dec. 1967. 10 G79La  
Yponomeuta padella.
- 94424 HEATH, J. Lepidoptera distribution maps scheme. Entomol. Mon. Mag. 103(1235/1237): 124-125. Apr./June 1967. 421 En86
- 94425 KIRIAKOFF, S. G. On the Notodontidae (Lepidoptera) from New Guinea in the Leiden museum. Leiden Rijksmus. Natuur. Hist. Zool. Mededel. 42(19):189-214. Nov. 22, 1967. 410.9 L59  
In Belgium.  
Includes n. spp. in Archigargetta, Quadricarifera, Cascera, Rhabdoturnaca n. g., and Sawia n. g.
- 94426 KOSOVAC, V., and JOVANIC, M. Species of noctuids and population in the environs of Zrenjanin in 1963, 1964 and 1965. (Se) Savremena Poljoprivreda 15(4):385-390. Apr. 1967. 21 P75  
English summary.
- 94427 LAJONQUIERE, Y. DE. Apropos Euphydryas desfontainii Godart and its sub-species (Nymphalidae). (Fr) Alexanor 4(8):347-353. Ref. 1966. 421 AL2
- 94428 LEMPKE, B. J. Migratory Lepidoptera in 1965: 26th report. (Du) Entomol. Ber. 26(11): 195-203. Nov. 1, 1966. 420 N38B  
English summary.
- 94429 LEMPKE, B. J. *Oligia fasciuncula hispanica*, subsp. nov. (Lep., Noctuidae). Entomol. Ber. 27(7):139-140. July 1, 1967. 420 N38B  
Text in German.
- 94430 LEMPKE, B. J. Problems while collecting with the M.V. lamps. (Du) Entomol. Ber. 27(5):81-82. May 1, 1967. 420 N38B  
English summary.  
Moths.
- 94431 LIEBERMANN, J. Una nueva especie de "tucura" del Noroeste argentino (*Dichroplus malloi*) [A new species of grasshopper (*Dichroplus malloi*) from northeastern Argentina]. Rev. Invest. Agropecuar. Ser. 5, Patol. Veg. 3(12):231-236. 1966. 464.8 R322  
English summary.
- 94432 MAASSEN, A. W. P. Late captures of Lepidoptera in 1965. (Du) Entomol. Ber. 26(11):203. Nov. 1, 1966. 420 N38B
- 94433 MAASSEN, A. W. P., and OOSTERHOUT, J. J. VAN. Lepidoptera captures at Vlodrop in 1966. (Du) Entomol. Ber. 27(4):73. Apr. 1, 1967. 420 N38B  
English summary.
- 94434 MAASSEN, A. W. P. Macrolepidoptera from central Limburg (1966). (Du) Natuurhist. Genoot. Limburg. Natuurhist. Maandbl. 56(1):12-13. Jan. 25, 1967. 410.6 N2123N
- 94435 MAASSEN, A. W. P. Short notes on some butterflies of central Dutch Limburg. (Du) Entomol. Ber. 27(8):141-142. Aug. 1, 1967. 420 N38B  
English summary.  
Distribution and occurrence.
- 94436 MARION, H. Revision of Pyraustidae of France. (Fr) Alexanor 4(8):365-372. (Cont.) 1966. 421 AL2
- 94437 MASTERS, J. H. A corrected list of north-eastern Arkansas butterflies. Lepidopterists' Soc. J. 21(4):277-278. Nov. 28, 1967. 421 L554
- 94438 MASTERS, J. H. Observations on Arkansas Rhopalocera and a list of species occurring in northeastern Arkansas. Lepidopterists' Soc. J. 21(3):206-209. 1967. 421 L554
- 94439 MASTERS, J. H., SORESENSEN, J. T., and CONWAY, P. J. Observations on *Oeneis macounii* (Satyridae) in Manitoba and Minnesota. Lepidopterists' Soc. J. 21(4):258-260. Nov. 28, 1967. 421 L554
- 94440 MIELKE, O. H. H. Lepidoptera of the central Brazilian High Plains. IV. Supplementary notes on the Hesperidae of the region and description of five new species (Lepidoptera, Hesperidae). (Por) Rev. Brasil. Biol. 27(2):125-134. Aug. 1967. 442.8 R326  
Spanish summary.  
New spp. in Bungalotis, Caicella, Eutocus, Vidius, and Niconiades.
- 94441 MIJZEN, P. Pyralidae from Texel. (Du) Entomol. Ber. 27(6):119-120. June 1, 1967. 420 N38B  
English summary.
- 94442 MONROE, R. S., and MILLER, L. D. Report on a collection of Hesperidae from Honduras. Lepidopterists' Soc. J. 21(4):243-247. 28 Nov. 1967. 421 L554
- 94443 MÜLSANT, J. Note on the softening of butterflies with ammonia. (Fr) Alexanor 4(8):379-380. 1966. 421 AL2
- 94444 OORD, W. The decline in the Lepidoptera fauna. (Du) Entomol. Ber. 27(4):76-77. Apr. 1, 1967. 420 N38B
- 94445 OORSCHOT, H. VAN. Butterfly collecting in central Austria from July 23 to August 9, 1964. (Du) Entomol. Ber. 27(8):158-160. Aug. 1, 1967. 420 N38B  
German summary.
- 94446 OTTENHELM, C. Macrolepidoptera in central Limburg in 1965. (Du) Entomol. Ber. 26(11): 211-212. Nov. 1, 1966. 420 N38B  
English summary.
- 94447 PERKINS, S. F., and PERKINS, E. M. Revision of the *Limenitis weidemeyerii* complex, with description of a new subspecies (Nymphalidae). Lepidopterists' Soc. J. 21(4):213-234. map. Ref. Nov. 28, 1967. 421 L554
- 94448 PILLEY, P. G., and TRIESELNANN, R. A. A note on the occurrence of *Coleophora frischella* (Lepidoptera, Coleophoridae) in North America. Can. Entomol. 99(11):1299. Nov. 1967. 421 C16
- 94449 POVOLNY, D. Discovery of three little known butterfly species in Bulgaria. (Cz) Ziva 15(3):101-102. May 1967. 409.6 Z6  
Scrobipalpa soffneri, Gnorimoschema antiquum and Acrocercops soffneri.
- 94450 RICKARD, M. A. A colony of *Calephelis virginensis* (Riodinidae) at Houston, Texas. Lepidopterists' Soc. J. 21(4):281. Nov. 28, 1967. 421 L554
- 94451 RIVNAY, E. and YATHOM, S. Phenology of Sphingidae in Israel. Z. Angew. Entomol. 59(4):372-384. Ref. May 1967. 421 Z36  
Geographic distribution studied with light traps.
- 94452 SCHMITZ, W. *Miana literosa*, new for Rhineland (Lep., Noctuidae). (Ge) Entomol. Z. 77(8): 94-95. Apr. 15, 1967. 421 En85
- 94453 STEMPPFER, H. Contribution to the study of Lycaenidae in the Ethiopian fauna. (Fr) Inst. Fondamental Afr. Noire Bull. Ser. A. Sci. Natur. 30(1):200-204. Jan. 1968. 515 D14  
Includes n. sp. in Mimeresia.
- 94454 TAVOILLOT, C., and BOURGOGNE, J. A note on two abnormalities of *Proclissiana eunomia* (Nymphalidae). (Fr) Alexanor 4(8):359-361. 1966. 421 AL2
- 94455 TOURNEUR, J. C. Leaf-eating Lepidoptera of the banana in Ecuador. IV. *Ceramidia viridis* Druce (Syntomidae). 1. Morphology and biology. (Fr) Fruits 22(6):261-267. June 1967. 80 F9492  
English summary.

- 94456 TOURNEUR, J. C. Leaf-eating Lepidoptera of the banana in Ecuador. IV. *Ceramidia viridis* Druce (Syntomidae) 2. Dynamics of populations and natural biological control. (Fr) Fruits 22(7):299-304. July/Aug.1967. 80 F9492 English summary.
- 94457 VAN SOMEREN, V. G. L. *Charaxes porthos* Grose-Smith. A brief review of its distribution and subspeciation. Inst. Fondamental Afr. Noire Bull., Ser. A. Sci. Natur. 30(1):221-225. Jan.1968. 515 D14
- 94458 VERHAACK, W. An extremely early *Apatele rumicis* L. (Du) Entomol. Ber. 27(4):75. Apr.1,1967. 420 N38B Feb. 9,1967.
- 94459 VRIES, D. M. DE, and VRIES-SMEENK, G. DE. Something on the status of last autumn's migration of butterflies. (Du) Levende Natuur 71(3):72. Mar.1968. 410 L57
- 94460 WISE, K. A. J. Taxonomy of two New Zealand butterfly species (Nymphalidae: Satyrinae). Roy. Soc. New Zeal. Transl. Zool. 9(4):39-44. Ref. June 14,1967. 514 W46Tz
- 94461 WRAY, D. L. A new record of *Tolype velleda* Stoll (Lepidoptera: Lasiocampidae) in North Carolina. Entomol. News [Philadelphia] 78(8):208-210. Oct.1967. 421 En88
- Taxonomic and Geographic Entomology  
Orthoptera
- 94462 GYLLENBERG, G. A table for determination of the nymphal stages of Acrididae found in the district of Tvärminne. (Sw) Soc. Fauna Flora Fenn. Memo. 43:17-19. 1967. 511 H36Me
- 94463 KRUSEMAN, G., and JEEKEL, C. A. W. *Stenobothrus rubicundus* (Germar, 1817): an invalid name (Orthoptera). Entomol. Ber. 27(4):78-80. Ref. Apr.1,1967. 420 N38B
- 94464 ROY, R. Contribution to the fauna of the Congo (Brazzaville). A. Villiers and A. Descarpentries expedition. LXVIII. Orthoptera, Mantodea. (Fr) Inst. Fondamental Afr. Noire Bull., Ser. A. Sci. Natur. 30(1):318-339. Jan.1968. 515 D14 Includes n. sp. in *Episcopomantis*.
- Taxonomic and Geographic Entomology  
Smaller Orders
- 94465 ABGRALL, J. F. Contribution to the study of the insects Ephemeroptera in Brittany. (Fr) Soc. Sci. Bretagne Bull. (Sci. Math. Phys. Natur.) 41(1/2):17-32. Ref. Mar.1967. 505 R292
- 94466 ADAMOVIĆ, Z. R. Odonata collected in Dubrovnik district, Yugoslavia. Deut. Entomol. Z. (n.s.)14(3/4):285-302. Ref. Oct.20,1967. 421 D48
- 94467 AKRAMOVSKI, N. N., and SHENGELIYA, E. S. New data on *Cordulegaster myzmae* Barteneff, 1930 (Odonata, Cordulegasteridae). (Ge) Deut. Entomol. Z. (n.s.)14(3/4):313-321, map. Oct.20, 1967. 421 D48 English summary.
- 94468 ASAHINA, S. Notes on two amphipterygid dragonflies from Southeast Asia. Deut. Entomol. Z. (n.s.)14(3/4):323-326. Oct.20,1967. 421 D48 Occurrence and description of *Philoganga loringae* and *P. vetusta*.
- 94469 BILEK, A. A contribution to the study of Odonata from Greece. (Ge) Deut. Entomol. Z. (n.s.)14(3/4):303-312. Ref. Oct.20,1967. 421 D48 English summary.
- 94470 FLINT, O. S. Studies of Neotropical caddis flies. VI. On a collection from northwestern Mexico. Entomol. Soc. Wash. Proc. 69(2):162-176. June 1967. 426 W27 Includes n. spp. in *Atopsyche*, *Chimarra*, *Polycentropus*, *Linnephilus* and *Lepidostoma*.
- 94471 FROST, S. W. Mayflies taken at the Archbold Biological Station, Highlands County, Florida. Fla. Entomol. 50(4):281-284. Dec.1967. 420 F662
- 94472 GEIJSKES, D. C. The insect fauna of Surinam compared with that of the Antilles, especially the Odonata. (Du) Entomol. Ber. 27(4):69-72. Apr.1,1967. 420 N38B English summary.
- 94473 HAAS, G. E., and WILSON, N. *Pulex simulans* and *P. irritans* on dogs in Hawaii. (Siphonaptera: Pulicidae). J. Med. Entomol. 4(1):25-30, map. Apr.25,1967. 421 J828
- 94474 HEYMER, A. Attempt to correct some terminology of Odonata. (Ge) Deut. Entomol. Z. (n.s.)14(3/4):357-362. Ref. Oct.20,1967. 421 D48 English summary.
- 94475 HUETHER, W. Contributions to the study of the Collembola fauna of Sudan. (Ge) Senckenb. Biol. 48(4):221-268. Ref. 1967. 410.9 Se5 Taxonomy.
- 94476 JALAYER, T. Head louse infestation in villages of Shiraz, Iran. J. Parasitol. 53(1):216. Feb.1967. 448.8 J824 *Pediculus humanus capitis* and *P. humanus humanus*.
- 94477 KIAUTA, B. Meiotic chromosome behaviour in the male damselfly, *Calopteryx virgo* (Linnaeus), with a discussion on the value of chromosome numbers and karyotype morphology in odonate systematics. Deut. Entomol. Z. (n.s.)14(3/4):339-348. Ref. Oct.20,1967. 421 D48
- 94478 LOHMANN, H. Notes on the Odonata finds in Chiemgau. (Ge) Deut. Entomol. Z. (n.s.)14(3/4):363-369. Ref. Oct.20,1967. 421 D48 English summary.
- 94479 MCLELLAN, I. D. New griptopterygids (Plecoptera) of New Zealand. Roy. Soc. New Zeal. Transl. Zool. 9(1), 15 p. June 2,1967. 514 W46Tz Includes n. spp. in *Zelandoperla* and *Vesicaperla* n. g.
- 94480 MENDEZ, E. Description of a new genus and species of Trimenoponidae from Panama (Mallophaga). Entomol. Soc. Wash. Proc. 69(3):287-291, map. Sept.1967. 420 W27 *Hoplomyophilus* n.g., and *H. natiuus* n. sp.
- 94481 MONTGOMERY, B. E. The family- and genus-group names of the Odonata. 1. *Calopterygoidea*. Deut. Entomol. Z. (n.s.)14(3/4):327-337. Ref. Oct.20,1967. 421 D48
- 94482 NEBEKER, A. V., and GAUFIN, A. R. New Capnia from the Rocky Mountains (Plecoptera, Capniidae). Amer. Entomol. Soc. Trans. 93(3):235-247. Ref. Sept.1967. 420 P53 Includes *Capnia milami* n. sp. and *Utacapnia* n. sgen.
- 94483 NISHIMURA, N. Ecological study on net-spinning caddisfly, *Stenopsyche griseipennis* McLachlan. II. Upstream-migration and determination of flight distance. Mushi 40(4):39-46. Jan.25,1967. 421 M97
- 94484 PELIKAN, J. V. A new species of *Cercotrips* Hood from Madagascar (Thysanoptera). Acta Entomol. Bohemoslov. 64(5):364-370. Sept.20, 1967. 420 C33 *Cercotrips priesneri* n. sp.
- 94485 PLATTNER, H. On the occurrence of *Lestès macrostigma* Eversman, 1836 in Romania. (Ge) Deut. Entomol. Z. (n.s.)14(3/4):349-356, map. Ref. Oct.20,1967. 421 D48 English summary.
- 94486 PRICE, R. D., and EMERSON, K. C. Additional synonymies within the amblyceran bird lice (Mallophaga). Entomol. Soc. Wash. Proc. 69(3):248-251. Ref. Sept.1967. 420 W27
- 94487 SAKIMURA, K. Preliminary note on a review of subgenus *Taeniothrips* (*Isochaetothrips*) (Thysanoptera: Thripidae). Pacific Insects 9(4):721-726. Ref. Nov.20,1967. 421 P11
- 94488 SCHMIDT, E. On the Odonata fauna in the Hinzarten Moor and some other moorish waters of the southern part of the Black Forest. (Ge) Deut. Entomol. Z. (n.s.)14(3/4):371-386. Ref. Oct.20,1967. 421 D48 English summary.



- 94489 STEINMANN, H. A study of the cephalic measurement values on the species of European Odonata families. *Deut. Entomol. Z. (n.s.)* 14 (3/4):265-275. Ref. Oct.20,1967. 421 D48
- 94490 SYKORA, J. Trichoptera collected by Prof. J. Illies in New Guinea and New Caledonia. *Pacific Insects* 9(4):585-595. Nov.20,1967. 421 P11  
Includes n.spp. in *Caledonotrichia* n. g., *Chimarra*, *Cheumatopsyche*, *Dipletrona*, and *Gracilipsodes* n. g.
- 94491 TITSCHACK, E. Taxonomic studies of the German Thysanoptera. IV. *Taeniothrips latus* (Bagnall) and *T. propinquus* (Bagnall). (Ge) *Deut. Entomol. Z. (n.s.)* 14(3/4):213-236. Ref. Oct.20,1967. 421 D48
- 94492 TRAUB, R., and EVANS, T. M. Descriptions of new species of hystrihopysyllid fleas with notes on arched pronotal combs, convergent evolution and zoogeography (Siphonaptera). *Pacific Insects* 9(4):603-677. Ref. Nov.20,1967. 421 P11  
New spp. in *Palaeopsylla*, *Doratopsylla* and *Corrodopsylla*.
- 94493 VANSCHUYTBROECK, P. Liste du materiel typique conserve dans les collections entomologiques de l'institut royal des sciences naturelles de Belgique: Orthopteroidea 1. Dermaptera: familles de Pygidicranidae, Labiidae, Carcinophoridae, Labiduridae, Chelisochidae et Forficulidae; Cheleutoptera: familles des Phylliidae et Phasmatidae [List of typical material conserved in the entomological collections of the Royal Institute of Natural Science, of Belgium: Orthopteroidea. 1. Dermaptera: families of Pygidicranidae, Labiidae, Carcinophoridae, Labiduridae, Chelisochidae and Forficulidae; Cheleutoptera: families of Phylliidae and Phasmatidae]. *Inst. Roy. Sci. Natur. Belg. Bull.* 43(27), 16 p. June 30, 1967. 504 B835B
- APICULTURE AND APIS MELLIFERA
- 94494 ALEKSEENKO, F. M., and KOLOMIETS, A. YU. On infectious paralysis of bees. *Veterinariya [Kiev]* 12:114-119. Ref. 1967. SF604.V44
- 94495 BAILEY, L. The incidence of *Acarapis woodi* in North American strains of honeybee in Britain. *J. Apicult. Res.* 6(2):99-103. 1967. 424.8 J82
- 94496 BENTON, A. W. Esterases and phosphatases of honeybee venom. *J. Apicult. Res.* 6(2):91-94. 1967. 424.8 J82
- 94497 BEYLEVELD, G. P. Bee-keeping - the basis for success. *Farming S. Afr.* 43(12):20-22. Mar.1968. 24 S0842  
Equipment.
- 94498 BINDLEY, M. D. Swiss beekeeping four hundred years ago. *Bee World* 48(2):71-72. Summer 1967. 424.8 B399
- 94499 BOEHM, B. Relations between fat body, oenocytes and wax-gland development in *Apis mellifera* L. 21 p. Ref. Transl. 16878  
Translation from *Zeitschrift fur Zellforschung* 65(1):74-115. 1965.
- 94500 BRETSCHKO, J. Influence of protein and vitamin C on the course of nosema infection in spring. *Imkerfreund* 22(4):108-110. Apr.1967. 424.8 Im43  
Also in *Scottish Beekeeper* 44(9):162; (10):172-173. Sept.-Oct.1967. 424.8 Sco8
- 94501 BUTLER, C. G. A sex attractant acting as an aphrodisiac in the honeybee (*Apis mellifera* L.). *Roy. Entomol. Soc. London. Proc. Ser. A, Gen. Entomol.* 42(4/6):71-76. June 27, 1967. 420 L84Pa
- 94502 CHEREPOV, V. T., and KULIKOV, S. Differentiation of *Streptococcus pluton* and *Bacterium pluton*. 3 p. Transl. 16874  
Causal agent of European foulbrood. Translation from *Veterinariya* 6:25-26. June 1966.
- 94503 COOK, V. A. Facts about beekeeping in New Zealand. *Bee World* 48(3):88-100, map. Ref. Autumn 1967. 424.8 B399
- 94504 ESCH, H. The sounds produced by swarming honey bees. *Z. Vergleichende Phvsiol.* 56(4):408-411. 1967. 444.8 Z3
- 94505 FREE, J. B., and NUTTALL, P. M. Effect of the time of day at which honeybee colonies are first allowed flight in a new location on their choice of flower species. *Nature* 218(5145):982. June 8, 1968. 472 N21
- 94506 FRESNAYE, J. The artificial insemination of queen bees. 10 p. Ref. Transl. 16853  
Translation from *Annales de l'Abeille* 9(3):251-263. 1966.
- 94507 FRESNAYE, J. Influence of variations in the age of sexual maturity on queen bees (*Apis mellifera mellifera*) fertilized by artificial insemination. 5 p. Ref. Transl. 13662  
Translation from *Annales de l'Abeille* 9(3):237-242. 1966.
- 94508 FREUDENSTEIN, H. Influence of pollen nutrition on the comb-building capacity, wax glands and fat body of the honey bee (*Apis mellifera* L.). 29 p. Ref. Transl. 16864  
Translation from *Zoologische Jahrbucher. Abteilung fur Allgemeine Zoologie und Physiologie der Tiere* 69(1):95-124. July 15, 1960.
- 94509 GARY, N. E. Diurnal variations in the intensity of flight activity from honeybee colonies. *J. Apicult. Res.* 6(2):65-68. 1967. 424.8 J82
- 94510 GAST, R. Investigations on the influence of queen substance on the development of the endocrine glands in the honey-bee worker (*Apis mellifera*). 9 p. Ref. Transl. 16854  
Translation from *Insectes Sociaux* 14(1):1-12. Mar.1967.
- 94511 GIAUFFRET, A., and others. In vitro culture of honey bee cells. (Fr) *Acad. Sci. Compt. Rend. Ser. D*, 265(11):800-803. Sept.11, 1967. 505 P21  
J. M. Quiot, C. Vago, and F. Poutier, joint authors.
- 94512 GIAUFFRET, A., DUTHOIT, J. L., and CAUCAT, M. J. Virological study of some cases of "honey bee paralysis" in France. 7 p. Ref. Transl. 16852  
Translation from *Recueil de Medecine Veterinaire* 142:819-829. Sept.1966.
- 94513 GRIBAKIN, F. G. Types of photoreceptor cells in the compound eye of the worker honey bee as revealed by the electron microscopy. (Rus) *Tsitologiya* 9(10):1276-1280. Oct.1967. 442.8 T78  
English summary.
- 94514 HAMMER, O. On nosema and amoeba in Scandinavia. (Da) *Nord. Bitidskr.* 18:8-16. map. 1966. 424.8 N752
- 94515 HESELHAUS, F. The epidermal glands of honey bees and related forms. 63 p. Ref. Transl. 16843  
Translation from *Zoologische Jahrbucher. Abteilung fur Anatomie und Ontogenie* 43(3):396-464. 1922.
- 94516 ING, G. Use of beehive inserts. *Wash. State Hort. Ass. Proc.* 1967:201. 81 W273  
Pear pollination.
- 94517 JOHANSEN, C. What is the current status of bee poisoning in the orchards of eastern Washington? *Wash. State Hort. Ass. Proc.* 1967:204-205. 81 W273  
Insecticides.
- 94518 JOHNSON, D. L. Communication among honey bees with field experience. *Anim. Behav.* 15 (4):487-492. Oct.1967. 410 B77
- 94519 KERR, W. E. Multiple alleles and genetic load in bees. *J. Apicult. Res.* 6(2):61-64. 1967. 424.8 J82
- 94520 KOCH, H. G. The annual course of nectar flows as an expression of weather singularities and foraging conditions for bee colonies. (Ge) *Ztschr. F. Agnew. Meteorol.* 5(7/8):206-216. 1967. Bee Culture  
English summary.  
East Germany.

- 94521 KONSTANTINOVIC, B., and MILUTINOVIC, M. The effect of bees on the fruit set and development in some stone fruit varieties. (Se) Savremena Poljoprivreda 15(4):349-356. Apr. 1967. 21 P75  
English summary.
- 94522 KSHIRSAGAR, K. K. Mites on the Indian honeybee. Bee World 48(3):84-85. Autumn 1967. 424.8 B399  
Neocypholaelaps indica and Varroa jacobsoni on Apis indica.
- 94523 LEE, P. E., and FURGALA, B. Electron microscopic observations on the localization and development of sacbrood virus. J. Invertebrate Pathol. 9(2):178-187. Ref. June 1967. 421 J826
- 94524 LENSKEY, Y., and GOLAN, Y. Honeybee populations and honey production during drought years in a subtropical climate. In Avidov, Z., ed. Studies in agricultural entomology and plant pathology, p.27-42. Ref. 1966. SB605.I78A8
- 94525 LOPATNIKOV, S. Preparing bee yard for winter. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 9:43-44. Sept.1967. 281.8 Se4
- 94526 MAGAGNOTTI, P. Let us protect the bees: It is they that improve the production of our fruit plants. (It) Terra Trentina 14(2):71-77. Feb. 1968. 16 T277  
Protection of pollinators from economic poisons.
- 94527 MAKAROV, YU. I. New tick disease. 1 p. Transl. 15852  
Varroa jacobsoni as pest of honey bees.  
Translation from Pchelovodstvo 5:38. May 1965.
- 94528 MARIN, P., and others. Phytotherapeutic and chemiotherapeutic researches in apiculture pathology. (Rum) Apicultura 19(7):17-21. July 1966. 424.8 Ap395  
A. Popa, M. Serban, and V. Cioca, joint authors.  
English summary in Table of Contents.
- 94529 MORSE, R. A., and others. Observations on alarm substances in the genus Apis. J. Apicult. Res. 6(2):113-118. 1967. 424.8 J82  
D. A. Shearer, R. Boch, and A. W. Benton, joint authors.  
Heptan-2-one and isopentyl acetate.
- 94530 NILSSON, P. Control of diseases of bees in Denmark. (Da) Nord. Bitidskr. 18:23-24. 1966. 424.8 N752
- 94531 OERTEL, E. Colony disturbance and Nosema disease. J. Apicult. Res. 6(2):119-120. 1967. 424.8 J82
- 94532 PALMER-JONES, T. Honey bees as pollinators of red clover. New Zeal. J. Agr. 114(1):34-35. Jan.1967. 23 N48J
- 94533 PALMER-JONES, T. Pollination of lucerne still a problem. New Zeal. J. Agr. 114(3):82-83. Mar.1967. 23 N48J  
Bees as pollinators.
- 94534 PANKIW, P. Studies of honeybee preference and behaviour on normal and standardless alfalfa flowers. J. Apicult. Res. 6(2):105-112. Ref. 1967. 424.8 J82  
Canada.
- 94535 SCHOTT, H. M. Denmark's Beekeepers Association [Danmarks Biavlerforening] is 100 years old. (Da) Nord. Bitidskr. 18:25-27. 1966. 424.8 N752
- 94536 SCHWAN, B. Poisoning of honeybees in Sweden in 1963-65. (Sw) Nord. Bitidskr. 18:17-22. 1966. 424.8 N752  
By pesticides.
- 94537 STARCHENOVA, A. Royal jelly and its applications in medicine, beauty treatment and cosmetics. Soap, Perfumery Cosmetics 41(1):31-34. Jan.1968. 307.8 So13
- 94538 VAGT, W. Regulations for migratory beekeeping 1967. (Ge) Obstbauversuchsring Alten Landes. Mitt. 22(3):119. Mar.1967. 85 J76  
As pollinators in orchards.
- 94539 WALSH, B. Advance guard to Niue Island. New Zeal. Beekeeper 29(2):24. May 1967. 424.8 N483  
600 colonies shipped under contract.

## SERICULTURE AND THE SILKWORM

- 94540 ALIEVA, M. I., and FILIPPOVICH, YU. B. Changes in the amino acid composition of proteins of the silkworm haemolymph during the vowing of the cocoon and metamorphosis. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 1(37):44-47. 1967. 442.8 N22
- 94541 ANGUS, T. A. Comparative toxicity of the Parasporal inclusions of three entomogenous bacteria. J. Invertebrate Pathol. 9(2):256-260. Ref. June 1967. 421 J826  
Bacillus thuringiensis thuringiensis, B. t. sotto, B. t. entomocidus tested on Bombyx mori.
- 94542 BASSURMANOVA, O. K., and PANOV, A. A. Structure of the neurosecretory system in Lepidoptera. Light and electron microscopy of type A'-neurosecretory cells in the brain of normal and starved larvae of the silkworm Bombyx mori. Gen. Compar. Endocrinol. 9(2):245-262. Ref. Oct.1967. 444.8 G28
- 94543 BUNGOVA, V. G., and FILIPPOVICH, YU. B. The amino acid balance during the cocoon spinning and metamorphosis of silkworm Bombyx mori L. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 5(41):47-49. 1967. 442.8 N22
- 94544 DALAKISHVILI, M. N. Dynamics of macro- and microelements in leaves of different varieties of mulberry in relation to age of the silkworm and ecological conditions. (Geo) Gruz. Sel'skokhoz. Inst. Tr. 70:79-91. Ref. 1966. 106 T44  
English summary.  
Bombyx mori.
- 94545 EGUCHI, M., and YOSHITAKE, N. Comparative studies on esterase zymograms among various tissues in the silkworm, Bombyx mori L. (Lepidoptera: Bombycidae). Appl. Entomol. Zool. 2(3):163-167. Ref. Sept.1967. SB599.A6 SB599.A6
- 94546 FILIPPOVICH, YU. B., and ALIEVA, M. I. Proteins of the hemolymph of silkworm species (Rus) Prikl. Biokhim. Mikrobiol. 3(2):192-197. Apr.1967. 385 P93  
Bombyx Mori, Antheraea pernyi.
- 94547 GOGELIYA, E. F., and KRATSASHVILI, K. V. Study of causes of increased occurrence of weak-poled cocoons in the cocoon-spinning period. (Geo) Gruz. Sel'skokhoz. Inst. Tr. 70:227-236. 1966. 106 T44  
English summary.  
As affected by feeding and light.
- 94548 GURGENIDZE, A. M. Results of the test on the cocoon-meter, "BK" modernized by B. I. Gakhabadze. (Geo) Gruz. Sel'skokhoz. Inst. Tr. 70:237-241. 1966. 106 T44  
English summary.
- 94549 HATA, S. Communist China's sericultural technology. (Ja) J. Sericult. Sci. Jap. 37(1):69-72. Feb.1968. 425.9 Se6
- 94550 HIMENO, M., and others. Formation of nuclear polyhedral bodies and nuclear polyhedrosis virus of silkworm in mammalian cells infected with viral DNA. Virology 33(3):507-512. Ref. Nov.1967. 448.8 V81  
F. Sakai, K. Onodera, H. Nakai, T. Fukada, and Y. Kawade, joint authors.
- 94551 HOTTA, T. Studies on the conditions of location for sericulture industry. (Ja) Shimane Agr. Coll. Bull. 15(A-5):8-18. Jan.1967. S539.J385  
English summary.
- 94552 ISHIKAWA, S., and HIRAO, T. Susceptibility of the contact chemoreceptors to DDT in the silkworm, Bombyx mori. (Ja) Jap. J. Appl. Entomol. Zool. 11(3):100-106. Ref. Sept.1967. 475 J27  
English summary.  
In larvae.



- 94553 JEUM, D. R., LEE, S. P., and MUN, J. Y. The newly developed silkworm variety, Suwon Jam 101 & Suwon Jam 102. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(6):63-69. Sept. 1967. 22.5 K843  
English summary.
- 94554 KALANDADZE, A. Influence of breeding material polyhedroses infection on quality of silkworm eggs. (Geo) Gruz. Sel'skokhoz. Inst. Tr. 70:215-218. 1966. 106 T44  
English summary.
- 94555 KOBAYASHI, H., and AYUZAWA, C. On the complement-fixation test of the infectious flacherie virus of the silkworm, *Bombyx mori* L. (Ja) J. Sericult. Sci. Jap. 37(1):13-16. Feb. 1968. 425.9 Se6  
English summary.
- 94556 KRUEGER, A. P., and others. Air ion effects on the growth of the silkworm (*Bombyx mori* L.). Int. J. Biometeorol. 10(1):29-37. July 1966. 340.8 In8  
Review of the literature.  
S. Kotaka, K. Nishizawa, Y. Kogure, M. Take-nobu, and P. C. Andriese, joint authors.
- 94557 KULLYEV, P., and MAMEDNIYAZOV, O. N. Biosynthesis of nucleic acids in silk secretory glands of the mulberry silkworm. (Rus) Akad. Nauk Turkm. SSR Izv. Ser. Biol. Nauk 4:3-9. Ref. 1967. 442.9 Ak124
- 94558 KULLYEV, P., and MAMEDNIYAZOV, O. N. Biosynthesis of nucleic acids in silk separating glands of mulberry silk worms. (Rus) Akad. Nauk Turkm. SSR Izv. Ser. Bil. Nauk 3:3-7. Ref. 1967. 442.9 Ak124  
Antheraea pernyi.
- 94559 KURASAWA, H. Selection of the quantitative cocoon characters in the silkworm. I. Changing of quantitative cocoon characters with selection of the floss ratio and the lousiness of fibers. (Ja) J. Sericult. Sci. Jap. 37(1):43-50. Ref. Feb. 1968. 425.9 Se6
- 94560 KURASAWA, H. Selection of the quantitative cocoon characters in the silkworm. II. Changing of quantitative cocoon characters with selection of the weight of cocoon layer and the cocoon layer ratio. (Ja) J. Sericult. Sci. Jap. 37(1):51-56. Feb. 1968. 425.9 Se6
- 94561 KUWATA, K., YAMAMOTO, E., and HAMAMURA, Y.  $\beta$ -carotene and  $\alpha$ -tocopherol on the growth and egg formation of silkworm *Bombyx mori*. (Ja) J. Sericult. Sci. Jap. 37(1):63-65. Feb. 1968. 425.9 Se6
- 94562 LEZHAVA, V. A. Influence of incubation and selection on voltine nature of bivoltine species. (Geo) Gruz. Sel'skokhoz. Inst. Tr. 70:205-213. 1966. 106 T44  
English summary.
- 94563 MOREAU, R., and BOUNHIOL, J. J. Role of exuvial liquid, swallowed before emergence, in the expansion of wings of *Bombyx mori* L. (Fr) Acad. Sci. Compt. Rend. Ser. D, 265(17):1234-1236. Oct. 23, 1967. 505 P21
- 94564 NIKOLEISHVILI, G. V. Economic effectiveness of enlarged repeated rearings of *Bombyx mori*. (Geo) Gruz. Sel'skokhoz. Inst. Tr. 70:291-303. 1966. 106 T44  
English summary.
- 94565 NIKOLAISHVILI, S. P. History of sericultural science. (Rus) Gruz. Sel'skokhoz. Inst. Tr. 70:305-315. 1966. 106 T44
- 94566 ODIKADZE, V. V. Using serological reactions for determination of endogenous infection of *Bombyx mori* with polyhedroses virus. (Geo) Gruz. Sel'skokhoz. Inst. Tr. 70:267-280. Ref. 1966. 106 T44  
English summary.
- 94567 OHSHIMA, K. Experimental design on a sampling inspection method of pebrine control by utilizing the nature characterized by early eclosion of diseased silkworms with pebrine of a lot. V. Relationship between pebrine disease of silkworm moths and their eclosion dates. (Ja) J. Sericult. Sci. Jap. 37(1):17-26. Feb. 1968. 425.9 Se6  
English summary.
- 94568 OVANESYAN, T. T. Selection of polyhedroses-free families for rearing of silkworm. (Rus) Gruz. Sel'skokhoz. Inst. Tr. 70:219-226. Ref. 1966. 106 T44  
English summary.
- 94569 SEVASTYANOVA, G. A., and SMOLIN, A. N. Free nucleotides and their derivatives in fat body of larva of silkworm *Antheraea pernyi* G. (Rus) Biokhimiya 32(2):548-557. Ref. May/June 1967. 385 B523  
English summary.
- 94570 SUGAI, E., and HIRANO, C. Effect of apholate on the wing development of the silkworm, *Bombyx mori* L. (Ja) Jap. J. Appl. Entomol. Zool. 11(1):29-30. Mar. 1967. 475 J27
- 94571 SUGAI, E. Embryonic mortality in the progeny of the male silkworm, *Bombyx mori* L., orally administered apholate in the larval stage (Lepidoptera: Bombycidae). Appl. Entomol. Zool. 2(1):9-12. Mar. 1967. SB599.A6
- 94572 TUKHARELI, I. G., and GOGELIYA, E. F. Influence of mulberry leaf preservation conditions on its nutritive qualities. (Geo) Gruz. Sel'skokhoz. Inst. Tr. 70:157-166. 1966. 106 T44  
English summary.  
Used for *Bombyx mori* feeding.
- 94573 VEREISKAYA, V. N. Development of aneuploid zygotes in female  $3n \times$  male  $2n$  crosses of the silkworm (*Bombyx mori* L.). (Rus) Genetika 2:61-74. Ref. 1967. QH431.A1G4
- 94574 VERMA, A. N., and ATWAL, A. S. Effect of constant and variable temperatures on the development and silk production of *Bombyx mori* L. (Lepidoptera: Bombycidae). Punjab Agr. Univ. J. Res. 4(2):233-239. June 1967. S19.P8
- 94575 WATANABE, H. Autoradiographic studies on the nucleic-acid synthesis in the fat body and some tissues of the silkworm, *Bombyx mori* L. (Lepidoptera: Bombycidae), infected with nuclear-polyhedrosis virus. Appl. Entomol. Zool. 2(3):147-157. Ref. Sept. 1967. SB599.A6
- 94576 WATANABE, H., and KOBARA, R. Studies on the resistance to insecticides in the silkworm, *Bombyx mori* L. III. Relationship between esterase activity and susceptibility of larvae to Sumithion. (Ja) Jap. J. Appl. Entomol. Zool. 11(1):9-14. Ref. Mar. 1967. 475 J27  
English summary.
- 94577 YAMADA, T., YAMAZAKI, H., and KOBAYASHI, A. Effect of wood ash and some manures on the inactivation of the flacherie (F) virus. (Ja) J. Sericult. Sci. Jap. 37(1):66-68. Feb. 1968. 425.9 Se6  
Disease of *Bombyx mori*.
- 94578 YAMAGUCHI, K. Studies on the midgut nuclear polyhedrosis in the silkworm, *Bombyx mori* L. I. The formation site and some nature of the polyhedra. (Ja) J. Sericult. Sci. Jap. 37(1):34-42. Feb. 1968. 425.9 Se6  
English summary.
- 94579 YANKOV, A. Testing the regimen of regulated temperature changes in silkworm breeding. (Bu) Zhivotnovudni Nauk. 4(3):85-97. Ref. 1967. 49 Z65  
English summary.
- 94580 YOSHIMURA, R. Results of the selection of strains resistant to starvation in the late first instar of the silkworm, *Bombyx mori* L. (Ja) J. Sericult. Sci. Jap. 37(1):27-33. Feb. 1968. 425.9 Se6  
English summary.





## FOOD AND HUMAN NUTRITION

Publications of the U. S. Department of Agriculture, State Agricultural Experiment Stations, and State Agricultural Extension Services on cookery and other subjects not ordinarily covered in the Bibliography of Agriculture will be included in this list.

## GENERAL

- 94581 AHMAD, K. Nutritional status of East Pakistan population. Symp. Sci. Prob. Humid Trop. Zone Deltas Implication. Proc. 1966:317-319. GB1205.S3
- 94582 AHMAD, K. Protein needs and its deficiency in Asia. U. S. Agr. Res. Serv. ARS-71-35:46-63. May 1967. A381 R31Ac  
Summaries by L. J. Teply, and L. L. McKinney, p.243-246,256-257.
- 94583 ALEXANDER, M. Nutrition; staff training programs. Washington, 1967. 36 p. (U. S. Office of Economic Opportunity. Project Head Start, 3D). TX346.4 A4  
Child nutrition.
- 94584 AUIL, M. Lactation and nutritional status of 150 Chilean women. Int. Congr. Nutr. Proc., 7th Congr., v.3:312-319. Ref. 1966,pub.1967. TX345.I53 1966
- 94585 AUTRET, M. Cooperation of various disciplines in improving nutrition in developing countries. (Fr) Int. Congr. Nutr. Proc., 7th Congr., v.3:222-223. 1966,pub.1967. TX345.I53 1966
- 94586 BALLANTYNE, M. What will we teach tomorrow? Can. Nutr. Notes 24(3):25-28. Mar.1968. 389.9 C168
- 94587 BASSIR, O. Feasibility studies with a plant protein diet as a relief for animal protein shortages in child nutrition. Int. Congr. Nutr. Proc., 7th Congr., v.5:299-302. 1966,pub.1967. TX345.I53 1966
- 94588 BAVLY, S. Influence of the nutrition educator as consultant at policy making level. Int. Congr. Nutr. Proc., 7th Congr., v.3:267-268. 1966,pub.1967. TX345.I53 1966
- 94589 BAVLY, S. Planning of nutrition education and quantitative evaluation of its effects. Int. Congr. Nutr. Proc., 7th Congr., v.3:80-83. Ref. 1966,pub.1967. TX345.I53 1966  
Includes food habits.
- 94590 BEATON, G. H. Nutrition and public health in Canada. Int. Congr. Nutr. Proc., 7th Congr., v.1:49-52. 1966,pub.1967. TX345.I53 1966
- 94591 BECK, S. Now's the time to go primitive in meat cookery. Agr. Marketing [Washington] 13(7):7. July 1968. A280.38 Ag3
- 94592 BEHAR, M., and ARROYAVE, G. Geographic peculiarities of nutrition; Central America and Panama. Int. Congr. Nutr. Proc., 7th Congr., v.3:291-300. Ref. 1966,pub.1967. TX345.I53 1966
- 94593 BENGGOA, J. M. Priorities in public health nutrition problems. Int. Congr. Nutr. Proc., 7th Congr., v.4:811-822. Ref. 1966,pub.1967. TX345.I53 1966
- 94594 BERGER, S., and PACHELSKA, B. Remarks on protein allowances in relation to physical work. Int. Congr. Nutr. Proc., 7th Congr., v.4:156-161. 1966,pub.1967. TX345.I53 1966
- 94595 BIEGERT, J. Human evolution and nutrition. (Ge) Int. Congr. Nutr. Proc., 7th Congr., v.4:1-15. 1966,pub.1967. TX345.I53 1966  
Review of the literature.
- 94596 BRADFELD, R. B. A public health approach to iron deficiency anemias in tropical areas. Int. Congr. Nutr. Proc., 7th Congr., v.1:68-70. Ref. 1966,pub.1967. TX345.I53 1966
- 94597 BRAIDWOOD, R. J. Human nutrition as influenced by in-settling and village-farming. Int. Congr. Nutr. Proc., 7th Congr., v.4:15-17. 1966,pub.1967. TX345.I53 1966  
Review of the literature.
- 94598 BRESSANI, R. Improvement of nutritional status in developing countries by improved food production; cereals. Int. Congr. Nutr. Proc., 7th Congr., v.3:54-60. Ref. 1966,pub. 1967. TX345.I53 1966
- 94599 BUNNEMANN, R. Nutrition as measure of preventive medicine. (Ge) Int. Congr. Nutr. Proc., 7th Congr., v.1:47-48. 1966,pub.1967. TX345.I53 1966
- 94600 BUTTNER, W. Vitamins and proteins and their role in caries etiology. Int. Congr. Nutr. Proc., 7th Congr., v.1:230-232. Ref. 1966,pub. 1967. TX345.I53 1966
- 94601 CALLOWAY, D. H. Nutrition problems in manned space flight. Int. Congr. Nutr. Proc., 7th Congr., v.4:1063-1068. 1966,pub.1967. TX345.I53 1966
- 94602 CAMPAGNOLI, M. Argentina; a land with peculiar nutritional problems. Int. Congr. Nutr. Proc., 7th Congr., v.3:309-311. 1966,pub.1967. TX345.I53 1966
- 94603 CASTER, W. O. Measurements of physiologic function in the estimation of nutritional requirements. Int. Congr. Nutr. Proc., 7th Congr., v.5:7-10. 1966,pub.1967. TX345.I53 1966
- 94604 CELEJOWA, I. Results of studies on nutrition and energy expenditure of Polish athletes of Olympic groups. Int. Congr. Nutr. Proc., 7th Congr., v.5:48-61. Ref. 1966,pub.1967. TX345.I53 1966
- 94605 CEPEDE, M. Nutrition and socio-economic factors. (Fr) Int. Congr. Nutr. Proc., 7th Congr., v.3:19-27. Ref. 1966,pub.1967. TX345.I53 1966
- 94606 CHAMPAKAM, S. The flashcard—an effective aid in teaching nutrition. Nutrition 2(3):9-12. Apr.1968. TX341.N8  
India.
- 94607 CHAVEZ V., A., and MARTINEZ, C. Value of different approaches for the recovery of malnourished children in rural communities; role of nutrition education in a very poor village. Int. Congr. Nutr. Proc., 7th Congr., v.4:246-250. 1966,pub.1967. TX345.I53 1966  
Mexico.
- 94608 CHRISTAKIS, I. G., and others. Comprehensive nutrition surveys of 642 New York City school children. Int. Congr. Nutr. Proc., 7th Congr., v.4:232. 1966,pub.1967. TX345.I53 1966  
A. Miridjanian, H. Ziffer, and H. Baker, joint authors.
- 94609 CREMER, H. D. International cooperation of various disciplines to improve nutrition in developing countries. Int. Congr. Nutr. Proc., 7th Congr., v.3:220-221. 1966,pub.1967. TX345.I53 1966
- 94610 CRESTA, M. Morphological characteristics of the population of the European Economic Community in relation to their type of nourishment. Int. Congr. Nutr. Proc., 7th Congr., v.4:49. 1966,pub.1967. TX345.I53 1966
- 94611 CROFT, J., and WALTON, W. Food and nutrition. II. Fun with foods. Wyo. Univ. Ext. [4-H Club Circ.] F-10-67,36 p. June 1967. 275.29 W99Fc  
Cookery.
- 94612 DARBY, W. J. Nutrition research for the future. Int. Congr. Nutr. Proc., 7th Congr., v.4:775-779. 1966,pub.1967. TX345.I53 1966
- 94613 DAVEY. Approximate per capita food intakes per day in ounces. USAID/Ghana Agr. Conf. Proc., 7th Conf.:53-54. 1966. S401.U5
- 94614 DEVADAS, R. P., and VIJAYALAKSHMI, R. The effect of an Applied Nutrition Program (ANP) on the nutritional status of expectant mothers. Int. Congr. Nutr. Proc., 7th Congr., v.3:103-112. Ref. 1966,pub.1967. TX345.I53 1966  
India.
- 94615 DONOSO, G., MACCIONI, A., and MONCKEBERG, F. The use of fish flour as sole source of dietary protein in normal infants. Int. Congr. Nutr. Proc., 7th Congr., v.4:572. 1966, pub.1967. TX345.I53 1966
- 94616 DRADJAT, D. P. Improvement of nutritional status in Indonesia through measures and programmes on nutrition education. Int. Congr. Nutr. Proc., 7th Congr., v.3:84-91. 1966,pub. 1967. TX345.I53 1966

- 94617 DURNIN, J. V. G. A., and others. The energy expenditure and food intake of middle-aged and elderly farmers. *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:219. 1966, pub. 1967. TX345.I53 TX345.I53 1966  
M. E. Onergan, J. J. Wheatcroft, N. G. Nor-gan, C. C. Macleod, M. R. S. Macfarlan, and M. Chambers, joint authors.
- 94618 DURNIN, J. V. G. A. Studies on food intake and energy expenditure of elderly people. *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:185-186. 1966, pub. 1967. TX345.I53 1966
- 94619 EBBS, J. C. The importance of nutrition in home economics education in the developing countries. *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:519-520. 1966, pub. 1967. TX345.I53 1966
- 94620 EBBS, J. C. Instruction of mothers in the choice and preparation of additional food for infants. *Int. Congr. Nutr. Proc.*, 7th Congr., v.3:100-102. 1966, pub. 1967. TX345.I53 1966
- 94621 EFREMOV, V. V. The role of vitamins in the process of acclimatization of man to the conditions of the Far North. *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:1049-1051. 1966, pub. 1967. TX345.I53 1966
- 94622 ELDER, A. L. Plant proteins in human nutrition. *Int. Congr. Nutr. Proc.*, 7th Congr., v.5:304-307. 1966, pub. 1967. TX345.I53 1966  
Includes food enrichment in Mexico and Brazil.
- 94623 ERDOS, S. Problems of evaluation of the caloric and nutrient requirements of the worker, depending upon technical development. (Ge) *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:169-171. 1966, pub. 1967. TX345.I53 1966
- 94624 FANCONI, G. Recent advances in infant nutrition; introduction. (Ge) *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:554. 1966, pub. 1967. TX345.I53 1966
- 94625 FERRO-LUZZI, A. Problems in evaluating the nutritional level of ageing people. *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:193-203. 1966, pub. 1967. TX345.I53 1966
- 94626 FINKELSTEIN, B. Concepts of aerospace feeding. *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:1080-1082. 1966, pub. 1967. TX345.I53 1966
- 94627 FISHER, H. Nutrition research in the changing world of agriculture; a case study of the New Jersey program. *Agr. Sci. Rev.* 6(1):24-28. Ref. First Q. 1968. A31.3 Ag393  
Chiefly human nutrition.
- 94628 FOMON, S. J., and FILER, L. J. Requirement for protein by infants between one and four months of age. *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:570. 1966, pub. 1967. TX345.I53 1966
- 94629 FOX, H. C., CAMPBELL, V. S., and LOVELL, H. G. A comparison of nutritional data obtained in Jamaica by twenty-four-hour recall and by weighing. *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:275-281. 1966, pub. 1967. TX345.I53 1966
- 94630 GALEOTTI, G. A wrong methodology in reducing community consumptions into consumptions per-unit. *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:281-287. 1966, pub. 1967. TX345.I53 1966
- 94631 GLATZEL, H. Nutrition in old age. (Ge) *Ernahr.-Umsch.* 15(3):73-76. Mar. 1968. 389.8 Er66
- 94632 GOPALAN, C. Major nutrition problems of India and Southeast Asia. *Int. Congr. Nutr. Proc.*, 7th Congr., v.3:320-326. 1966, pub. 1967. TX345.I53 1966
- 94633 GOPALAN, C. Vegetable mixtures as protein sources for young children. *Int. Congr. Nutr. Proc.*, 7th Congr., v.3:199-207. 1966, pub. 1967. TX345.I53 1966
- 94634 GOUNELLE, H., and BOUDENE, C. The daily amount of boron in the French food ration. (Fr) *Int. Congr. Nutr. Proc.*, 7th Congr., v.5:770-774. 1966, pub. 1967. TX345.I53 1966
- 94635 GRAHAM, G. G. The problem of new protein sources in the nutrition of children. *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:570-571. 1966, pub. 1967. TX345.I53 1966
- 94636 GROOT, E. H. Some remarks on the nutrition of aged people. *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:219-221. 1966, pub. 1967. TX345.I53 1966
- 94637 HALACKA, K. The health aspects of public nutrition in the USSR. (Ge) *Int. Congr. Nutr. Proc.*, 7th Congr., v.1:53-59. Ref. 1966, pub. 1967. TX345.I53 1966
- 94638 HARTOG, C. DEN. Nutritional surveys among the aged in relation to recommended quantities of nutrients. *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:211-213. 1966, pub. 1967. TX345.I53 1966
- 94639 HEISCHKELE-ARTELT, E. Characteristics of human nutrition in antiquity and the middle age. (Ge) *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:29-36. 1966, pub. 1967. TX345.I53 1966
- 94640 HEJDA, S., and MASEK, J. Nutrition of the aged. *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:214-216, map. 1966, pub. 1967. TX345.I53 1966
- 94641 HEYNS, K. Technique and nutrition. (Ge) *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:394-402. Ref. 1966, pub. 1967. TX345.I53 1966  
Effect of changes in cultural methods, harvesting, and processing of food crops.
- 94642 HOLZER, H. Efforts toward complete community provisioning in kindergartens and schools. (Ge) *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:614-618. 1966, pub. 1967. TX345.I53 1966  
Germany.
- 94643 HRUBY, J. Studies in nutritional sampling of workers in the machine construction industry. (Ge) *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:171-175. 1966, pub. 1967. TX345.I53 1966
- 94644 INSTITUTO DE NUTRICION DE CENTRO AMERICA Y PANAMA. Lista de publicaciones [List of publications]. Ed. 3. Guatemala, 1966. 110 p. Z6954.C4I5 1966
- 94645 INTENGAN, C. L. Nutrition problems and programs in the Philippines. *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:288-294. 1966, pub. 1967. TX345.I53 1966
- 94646 INTERNATIONAL CONGRESS OF NUTRITION, 7, HAMBURG 1966. Proceedings. New York, Pergamon Press, 1967. 5 v. TX345.I53 1966  
Text in English, French, or German.
- 94647 IRVING, J. T. Nutrition and dental caries; introductory remarks. *Int. Congr. Nutr. Proc.*, 7th Congr., v.1:212-213. 1966, pub. 1967. TX345.I53 1966
- 94648 JAFFE, W. G. Education and training for nutritional improvement in Latin America. *Int. Congr. Nutr. Proc.*, 7th Congr., v.3:92-95. 1966, pub. 1967. TX345.I53 1966
- 94649 KAPPEL, C., and VAN VELDHOFEN, M. Comparison of import figures with results of a dietary survey in Curacao. *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:243-245. 1966, pub. 1967. TX345.I53 1966
- 94650 KARANJA, A. W. Problems in the education of women in a developing country (Kenya) with regard to an adequate diet. *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:514-518. 1966, pub. 1967. TX345.I53 1966
- 94651 KAUFMANN, O., and FROMBACH, K. Malnutrition, the chief cause of child mortality in Peru. (Ge) *Int. Congr. Nutr. Proc.*, 7th Congr., v.3:357-362. 1966, pub. 1967. TX345.I53 1966
- 94652 KELLER, W. D. Contribution to the medical point of view. *Int. Congr. Nutr. Proc.*, 7th Congr., v.3:224-226. 1966, pub. 1967. TX345.I53 1966  
In nutritional programs, with reference to agriculture.
- 94653 KEMPSKI, H. W. Nutrition and polio-prevention. *Int. Congr. Nutr. Proc.*, 7th Congr., v.5:12-13. Ref. 1966, pub. 1967. TX345.I53 1966
- 94654 KERESZTESI, K. The development of dental caries from prehistoric time to the present. (Ge) *Int. Congr. Nutr. Proc.*, 7th Congr., v.1:213-217. 1966, pub. 1967. TX345.I53 1966  
In relation to nutrition.
- 94655 KERESZTESI, K. Pre- and early history of dental caries. (Ge) *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:36-48. Ref. 1966, pub. 1967. TX345.I53 1966  
In relation to nutrition.



- 94656 KERPEL-FRONTIUS, E. Protein and fat in formula premature infants. *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:573-574. 1966, pub.1967. TX345.153 1966
- 94657 KOFRANYI, E., and JEKAT, F. The minimum N-requirement of man. *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:363-367. 1966, pub.1967. TX345.153 1966
- 94658 KOHN, R., POKORNY, J., and HRUBA, F. Fats in the nutrition of children in Czechoslovakia. (Ge) *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:579-582. 1966, pub.1967. TX345.153 1966
- 94659 KOLBE, M. H., and others. Good apple recipes. N. C. Univ. Ext. Ext. Folder 189, rev., 6 p. July 1967. 275.29 N811Ex  
I. Pritchard, N. Orr, and M. M. Donnelly, joint authors.
- 94660 KOTSOKOANE, J. R. L. The role of agricultural extension in improving nutrition in developing countries. *Int. Congr. Nutr. Proc.*, 7th Congr., v.3:248-251. 1966, pub.1967. TX345.153 1966
- 94661 KRAAK, W. Cooperation between research, economics, technical practice, and public health care as basis of proper nutrition. (Ge) *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:402-411. 1966, pub.1967. TX345.153 1966
- 94662 KRAUS, A. Influence of economic and social developments of the 19th century on nutrition; a contribution to a discussion. (Ge) *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:73-77. 1966, pub.1967. TX345.153 1966
- 94663 KRAUS, W. Nutrition under various geographic and climatic conditions. (Ge) *Int. Congr. Nutr. Proc.*, 7th Congr., v.3:285-290. 1966, pub.1967. TX345.153 1966  
Developing areas.
- 94664 KRONCKE, A. Carbohydrates and caries. (Ge) *Int. Congr. Nutr. Proc.*, 7th Congr., v.1:226-228. 1966, pub.1967. TX345.153 1966  
Review of the literature.
- 94665 LACHANCE, P. A. Soviet space flight food. *Res. Develop. Ass. Activ. Rep.* 19(1):133-136. Ref. Spring 1967. 389.9 As74A
- 94666 LATHAM, M. Malnutrition in Tanzania. *Int. Congr. Nutr. Proc.*, 7th Congr., v.3:349-356. Ref. 1966, pub.1967. TX345.153 1966
- 94667 LAWSON, R. M. Economic preconditions for improving nutrition. *Int. Congr. Nutr. Proc.*, 7th Congr., v.3:261-266. 1966, pub.1967. TX345.153 1966  
Ghana.
- 94668 LEMBKE, A. Nutritional problems of our time. (Ge) *LE (Lebensmittel Ernähr.)* 21(3):7-9. (Concl.) Mar.1968. 389.8 Z34
- 94669 LINDBERG, A. The food in hospitals and nursing homes. (Sw) *Var Naring* 44(12):14-15, 18-19. 1967. 44.8 M692
- 94670 LITCHFIELD, J. H. Nutrition in life support systems for space exploration. *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:1068-1074. Ref. 1966, pub.1967. TX345.153 1966
- 94671 LUHANOVA, Z. Group evaluation of the nutritional status in children and teenagers. *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:294-300. Ref. 1966, pub.1967. TX345.153 1966
- 94672 LUYKEN, R., LUYKEN-KONING, F. W. M., and CAMBRIDGE, T. H. Studies on calcium requirement in Surinam (South America). *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:186-188. 1966, pub.1967. TX345.153 1966
- 94673 MARTINEAUD, M., RICHIR, C., and DUPIN, H. Parallel between the modes of rural nutrition and hospital pathology in the Elaeis guineensis production zone (Republic of Dahomey and Republic of Togo). (Fr) *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:261-270, map. Ref. 1966, pub.1967. TX345.153 1966
- 94674 MATELES, R. I., BARUAH, J. N., and TANNENBAUM, S. R. Growth of a thermophilic bacterium on hydrocarbons; a new source of single-cell protein. *Science* 157(3794):1322-1323. Ref. Sept.15, 1967. 470 Sci2  
A source of protein for human nutrition.
- 94675 MCKENZIE, J. C. Sociology as an aid to nutritional change. *Int. Congr. Nutr. Proc.*, 7th Congr., v.3:269-275. Ref. 1966, pub.1967. TX345.153 1966  
Includes food habits, the use of folklore, and psychological needs of the individual.
- 94676 MCLAREN, D. S. Some salient characteristics of childhood malnutrition in the Near East. *Int. Congr. Nutr. Proc.*, 7th Congr., v.3:340-342. 1966, pub.1967. TX345.153 1966
- 94677 MIETTINEN, J. K. Enrichment of radionuclides by foodstuffs and man in Arctic, nutrient-deficient regions. *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:1051-1060, map. Ref. 1966, pub.1967. TX345.153 1966  
Radionuclides in the food chain and significance for nutrition in space flight.
- 94678 MITCHELL, H. S., and others. The adolescent growth spurt and nutrient intake. *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:132-143. Ref. 1966, pub.1967. TX345.153 1966  
R. B. Reed, I. Valadian, and M. Hoff, joint authors.
- 94679 MITCHELL, L., and ACKER, G. Family food and fun at low cost. *Nutr. News (Chicago)* 31(1):3-4. Feb.1968. 389.8 N957  
Home economic classes.
- 94680 MUSKAT, E., and VALDER, W. Relation between nutrition and economic conditions in Kenya. (Ge) *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:271-275. 1966, pub.1967. TX345.153 1966
- 94681 NANZ, R. A., and LACHANCE, P. A. Acceptability of food items developed for space flight feeding. *Food Technol.* 21(10):71-72, 74, 77. Ref. Oct.1967. 389.8 F7398
- 94682 NESER, M. L., and POTGIETER, J. F. A new approach to the definition and evaluation of nutritional status and its application to adult male labourers. *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:178-182. 1966, pub.1967. TX345.153 1966
- 94683 OYENUGA, V. A. Improvement of nutritional status in developing countries by improved food production; legumes. *Int. Congr. Nutr. Proc.*, 7th Congr., v.3:35-50, map. Ref. 1966, pub.1967. TX345.153 1966
- 94684 PATWARDHAN, V. N. Geographic distribution of malnutrition. *Int. Congr. Nutr. Proc.*, 7th Congr., v.3:27-34. 1966, pub.1967. TX345.153 1966
- 94685 PATWARDHAN, V. N. Vegetable mixtures as protein sources for young children. *Int. Congr. Nutr. Proc.*, 7th Congr., v.3:216-219. 1966, pub.1967. TX345.153 1966
- 94686 PEARSON, P. B. International cooperation by various disciplines to improve nutrition in developing countries. *Int. Congr. Nutr. Proc.*, 7th Congr., v.3:280-284. 1966, pub.1967. TX345.153 1966
- 94687 PEKKARINEN, M. Nutritional surveys in people with muscular work for the purpose of defining international standard values. *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:182-185. 1966, pub.1967. TX345.153 1966
- 94688 PLATT, B. S. Malnutrition and efficiency of assistance to developing countries. *Int. Congr. Nutr. Proc.*, 7th Congr., v.3:15-19. Ref. 1966, pub.1967. TX345.153 1966  
Includes nutritional education.
- 94689 POKROVSKY, A. A. The problem of the influence of nutrition on the health of people. *Int. Congr. Nutr. Proc.*, 7th Congr., v.1:12-24. 1966, pub.1967. TX345.153 1966
- 94690 POLLACK, H. Geographic peculiarities of nutrition—nutrition and its interrelation with social and economic factors. *Int. Congr. Nutr. Proc.*, 7th Congr., v.3:362-370. 1966, pub.1967. TX345.153 1966
- 94691 PUENTES, F. Human nutrition and dental caries in Colombia. (Ge) *Int. Congr. Nutr. Proc.*, 7th Congr., v.1:228-230. 1966, pub.1967. TX345.153 1966
- 94692 RADOVANOVIC, M. Nutrition and cardiovascular diseases in Vojvodina. *Int. Congr. Nutr. Proc.*, 7th Congr., v.5:461-464. 1966, pub.1967. TX345.153 1966
- 94693 RAJALAKSHMI, R., and RAMAKRISHNAN, C. V. Education of the community in the nutritional care of infants and preschool children with vegetable foods. *Int. Congr. Nutr. Proc.*, 7th Congr., v.3:95-100. 1966, pub.1967. TX345.153 1966  
India.



- 94694 RAJALAKSHMI, R., and RAMAKRISHNAN, C. V. A nutritionist's focus on Raipura, a village in western India. *Int. Congr. Nutr. Proc.*, 7th Congr., v.3:275-280. 1966, pub. 1967. TX345.I53 1966 Program.
- 94695 RODAHL, K. Changes in Eskimo nutrition by imported foods. *Int. Congr. Nutr. Proc.*, 7th Congr., v.3:127-128. 1966, pub. 1967. TX346.I53 1966
- 94696 RUTISHAUSER, I. H. E., and WHITEHEAD, R. G. The relative value of some anthropometric and biochemical measurements in the assessment of protein calorie malnutrition in young children in Uganda. *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:188-192. 1966, pub. 1967. TX345.I53 1966
- 94697 RYSER, M. The teaching of nutrition within the frame work of general home management education. (Ge) *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:521-524. 1966, pub. 1967. TX345.I53 1966
- 94698 SAI, F. T. Research and training in relation to development of food and nutrition programmes in tropical Africa. *Int. Congr. Nutr. Proc.*, 7th Congr., v.3:342-346. 1966, pub. 1967. TX345.I53 1966
- 94699 SAI, F. T. Specific protein deficiencies and needs in Africa. U. S. Agr. Res. Serv. ARS-71-35:38-45. May 1967. A381 R31Ac  
Summaries by L. J. Teply, and L. L. McKinney, p.243-246, 256-257.
- 94700 SALDUN DE RODRIGUEZ, M. L. Bases for planning nutrition teaching at the primary, secondary, and higher level. (Fr) *Int. Congr. Nutr. Proc.*, 7th Congr., v.5:73-78. 1966, pub. 1967. TX345.I53 1966
- 94701 SAVARA, B. S. Nutrition and oral health; prediction of dental caries. *Nutr. News* (Chicago) 31(1):1. Feb. 1968. 389.8 N957
- 94702 SCHAEFER, A. E. Assessment of nutritional status. *Int. Congr. Nutr. Proc.*, 7th Congr., v.3:1-9. 1966, pub. 1967. TX345.I53 1966
- 94703 SCHLETTWEIN-GSELL, D. Nutritional surveys in elderly people with respect to the establishment of standard values. *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:217-218. Ref. 1966, pub. 1967. TX345.I53 1966
- 94704 SCHNEIDER, H. A. A new paradigm for nutrition research; a turning away from Liebig's Law of the Minimum. *Int. Congr. Nutr. Proc.*, 7th Congr., v.5:784-786. 1966, pub. 1967. TX345.I53 1966
- 94705 SCRIMSHAW, N. S. Nutrition and infection. *Int. Congr. Nutr. Proc.*, 7th Congr., v.1:7-11. 1966, pub. 1967. TX345.I53 1966
- 94706 SEELIG, R. A. Some less known effects of known vitamin C. *United Fresh Fruit Veg. Ass. Yearbook* 1968:339,341. Ref. 280.3939 Un3  
In human nutrition.
- 94707 SHURPALEKAR, S. R., and others. Plant proteins for supplementary feeding of weaned infants in developing countries. *Int. Congr. Nutr. Proc.*, 7th Congr., v.5:313-318. 1966, pub. 1967. TX345.I53 1966  
O. E. Sunderavalli, M. R. Chandrasekhara, and H. A. B. Parpia, joint authors.
- 94708 SIMIC, B. S. Observation on nutrition and nutritional status of the Ethiopian population. *Int. Congr. Nutr. Proc.*, 7th Congr., v.3:346-348. 1966, pub. 1967. TX345.I53 1966
- 94709 SOEDARMO, P. Geographic peculiarities of nutrition (Indonesia). *Int. Congr. Nutr. Proc.*, 7th Congr., v.3:327-322. 1966, pub. 1967. TX345.I53 1966
- 94710 SOMOGYI, J. C. Composition of a caries-protective diet. *Int. Congr. Nutr. Proc.*, 7th Congr., v.1:236-242. 1966, pub. 1967. TX345.I53 1966
- 94711 SOMOGYI, J. C. Nutritional deficiencies in Switzerland; possibilities and measurements for their prevention and elimination. (Ge) *Int. Congr. Nutr. Proc.*, 7th Congr., v.1:62-66. 1966, pub. 1967. TX345.I53 1966
- 94712 STARE, F. J. The role of nutrition in preventive medicine. *Int. Congr. Nutr. Proc.*, 7th Congr., v.1:71-72. 1966, pub. 1967. TX345.I53 1966
- 94713 STRAUSS, W. Health care through organized food supply in a rapidly growing population with various food customs; research in Israel. (Ge) *Int. Congr. Nutr. Proc.*, 7th Congr., v.1:59-61. 1966, pub. 1967. TX345.I53 1966
- 94714 SVEJCAR, J. Effect of nutritional deficiencies on child development in Czechoslovakia during the second World War. *Int. Congr. Nutr. Proc.*, 7th Congr., v.1:333-335. 1966, pub. 1967. TX345.I53 1966
- 94715 SVEJCAR, J., JODL, J., and DAMBORSKA, M. Long term study of calorie and protein intake of infants on self demand regime in a nursery home. *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:567-569. 1966, pub. 1967. TX345.I53 1966
- 94716 TACHEV, T. Nutrition, physical development, and state of health of the Bulgarian people. (Fr) *Int. Congr. Nutr. Proc.*, 7th Congr., v.1:127-130, map. 1966, pub. 1967. TX345.I53 1966
- 94717 TARJAN, R., and BEDO, M. B. Food hygienic investigations in Hungary for the determination of the calorie and protein requirements due to physical work. *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:175-178. 1966, pub. 1967. TX345.I53 1966
- 94718 TASCHEV, T. Nutrition of the ageing. (Ge) *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:209-210. 1966, pub. 1967. TX345.I53 1966
- 94719 TEUTEBERG, H. J. Some aspects of nutrition as influenced by socio-economic changes in the XIXth century in Germany. *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:77-86. Ref. 1966, pub. 1967. TX345.I53 1966
- 94720 THIMMAYAMMA, B. V. S. The diet of the pre-school child. *Nutrition* 2(3):2-7. Apr. 1968. TX341.N8  
In India.
- 94721 THOMPSON, S. Sarnia's teenage nutrition program. *Can. Nutr. Notes* 23(5):52-54. May 1967. 389.9 C168
- 94722 THOMSON, A. M., and HYTTEN, F. E. Nutrition in relation to maternity in Britain. *Int. Congr. Nutr. Proc.*, 7th Congr., v.1:67-68. 1966, pub. 1967. TX345.I53 1966
- 94723 TOURY, J., and GIORGI, R. African nutrition and foods. (Fr) *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:259-261. 1966, pub. 1967. TX345.I53 1966
- 94724 TREMOLIERES, J. Nutrition, instrument of preventive medicine in France. (Fr) *Int. Congr. Nutr. Proc.*, 7th Congr., v.1:44-46. 1966, pub. 1967. TX345.I53 1966
- 94725 TREUE, W. The history of nutrition in Berlin in the 19th century. (Ge) *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:68-73. Ref. 1966, pub. 1967. TX345.I53 1966
- 94726 TRURNIT, G. Nutritional science and practice. (Ge) *Ernahr. Lehre Praxis* 3:9-10. In *Ernahr.-Umsch.* 15(3). Mar. 1968. 389.8 Er66
- 94727 TUNG, T. C., HUANG, P. C., and WEI, H. Y. Feeding of infants with toasted full fat soybean foods enriched with methionine. *Int. Congr. Nutr. Proc.*, 7th Congr., v.5:325-326. 1966, pub. 1967. TX345.I53 1966
- 94728 VALLEJO, L., and others. Malnutrition in Ecuador and its treatment. *Int. Congr. Nutr. Proc.*, 7th Congr., v.1:122-126. 1966, pub. 1967. TX345.I53 1966  
M. A. Bayas, C. Troncoso, and R. Castillo, joint authors.
- 94729 VELASQUEZ, G. T. A biological approach to the national food sufficiency of the Philippines. *Biologist* 50(3/4):142-147. June 1968. 442.8 B5263  
Food sources.
- 94730 WATKIN, D. M. Poverty dissected; an anatomy lesson in rural Paraguay. *Int. Congr. Nutr. Proc.*, 7th Congr., v.2:162-169. Ref. 1966, pub. 1967. TX345.I53 1966  
In relation to malnutrition.
- 94731 WHITING, M. G. Foods, rituals and taboos as determinants of dietary survey methodology. *Int. Congr. Nutr. Proc.*, 7th Congr., v.2:136-139. 1966, pub. 1967. TX345.I53 1966
- 94732 WILLI, H. The mineral requirements of premature infants. (Ge) *Int. Congr. Nutr. Proc.*, 7th Congr., v.4:584-586. 1966, pub. 1967. TX345.I53 1966



- 94733 WILSON, E. Food for small children. Idaho. Univ. Ext. Idaho. Curr. Inform. Ser. 79,2 p. May 1968. 275.29 Id13Idc
- 94734 ZAITSEV, A. N. Assessment of nutritional status. Int. Congr. Nutr. Proc., 7th Congr., v.3: 9-15. 1966, pub. 1967. TX345.I53 1966
- 94735 ZUHRT, R. The development of dental caries from prehistory to today. (Ge) Int. Congr. Nutr. Proc., 7th Congr., v.1: 217-223. Ref. 1966, pub. 1967. TX345.I53 1966  
In relation to nutrition.

## FOOD HABITS

- 94736 AYLWARD, F. Food habits in western tropical Africa. Int. Congr. Food Sci. Technol. Proc. 5: 173-181. Ref. 1962, pub. 1967. TP368.I5 1962
- 94737 BORGSTROM, G. Changes in human nutrition under the influence of modern civilization. (Ge) Int. Congr. Nutr. Proc., 7th Congr., v.4: 382-393. 1966, pub. 1967. TX345.I53 1966  
Food habits.
- 94738 CHASSY, J. P., VAN VEEN, A. G., and YOUNG, F. W. The application of social science research methods to the study of food habits and food consumption. Int. Congr. Nutr. Proc., 7th Congr., v.4: 86-88. 1966, pub. 1967. TX345.I53 1966  
Based on data for Mexico.
- 94739 CLARK, F. L. Human food habits as determining the basic patterns of economic and social life. Int. Congr. Nutr. Proc., 7th Congr., v.4: 18-24. 1966, pub. 1967. TX345.I53 1966
- 94740 CRAVIOTO, J., ROSALES, L., and FERNANDEZ, G. Food habits in pre-industrial societies in Mezoamerica. Int. Congr. Nutr. Proc., 7th Congr., v.2: 170. 1966, pub. 1967. TX345.I53 1966
- 94741 DEAN, A. Changing food habits. Mich. State Univ. Ext. Bull. 613, 15 p. June 1968. 275.29 M58B
- 94742 DE WIT, J. P. The effects of cultural and social changes on the food habits of the South African Bantu. Int. Congr. Nutr. Proc., 7th Congr., v.4: 88-90. 1966, pub. 1967. TX345.I53 1966
- 94743 DUPIN, H., and AYEVA, R. Food habits and forbidden foods in Black Africa. (Fr) Int. Congr. Nutr. Proc., 7th Congr., v.2: 149-159. 1966, pub. 1967. TX345.I53 1966
- 94744 HAND, D. B., SCHAEFER, A. E., and WILSON, C. S. A comparative study of food consumption patterns in Latin American, Middle Eastern and Far Eastern countries. Int. Congr. Food Sci. Technol. Proc. 5: 251-270, map. Ref. 1962, pub. 1967. TP368.I5 1962
- 94745 HOLTMEIER, H. J. Change of food habits in Germany. (Ge) Int. Congr. Nutr. Proc., 7th Congr., v.5: 71-73. 1966, pub. 1967. TX345.I53 1966
- 94746 JELLIFFE, D. B. Parallel food classification in developing and industrialized countries. Int. Congr. Nutr. Proc., 7th Congr., v.2: 147-149. 1966, pub. 1967. TX345.I53 1966  
Prestige foods in various cultures.
- 94747 LEWIS, H. E., and HARRIES, J. M. Nutritional observations on single handed voyagers. Int. Congr. Nutr. Proc., 7th Congr., v.4: 1061-1062. 1966, pub. 1967. TX345.I53 1966  
Food habits of men in isolation, given free choice of food, and their significance for astronauts.
- 94748 MESCHKAT, A. Improvement of fish consumption in developing countries through influence on food habits with special reference to Africa. Int. Congr. Nutr. Proc., 7th Congr., v.3: 50-54. 1966, pub. 1967. TX345.I53 1966
- 94749 MIRENDA, R. M. A study of the dietary habits of junior high school students with implications for nutrition education. Int. Congr. Nutr. Proc., 7th Congr., v.2: 174-178. Ref. 1966, pub. 1967. TX345.I53 1966
- 94750 MORCOS, S. R., and SALEH, M. A. Cultural, social and religious effects on food patterns and food habits in ancient Egypt (Pharaos). Int. Congr. Nutr. Proc., 7th Congr., v.4: 24-29. 1966, pub. 1967. TX345.I53 1966

- 94751 OOMEN, H. A. P. C. Food patterns in New Guinea. Int. Congr. Nutr. Proc., 7th Congr., v.3: 332-335. 1966, pub. 1967. TX345.I53 1966
- 94752 POTGIETER, J. F., and THERON, J. J. Tribal taboos in the South African Bantu. Int. Congr. Nutr. Proc., 7th Congr., v.2: 159-162. 1966, pub. 1967. TX345.I53 1966  
Food habits.
- 94753 SAI, F. T. Drastic change in food habits in relation to socio-cultural change. Int. Congr. Nutr. Proc., 7th Congr., v.2: 144-146. 1966, pub. 1967. TX345.I53 1966
- 94754 SCHLETTWEIN-GSELL, D. Food habits in elderly people. Int. Congr. Nutr. Proc., 7th Congr., v.2: 170-171. Ref. 1966, pub. 1967. TX345.I53 1966
- 94755 SENSE, E. Inhibitors to food habit development. Int. Congr. Nutr. Proc., 7th Congr., v.5: 14-16. 1966, pub. 1967. TX345.I53 1966
- 94756 SOUND, K. K. Changing food habits in a rural community—a case study. Agr. Situation India 22(4): 379-381. July 1967. 281.9 In23
- 94757 TEULON, H. P. Food habits, attitudes, and tabus. (Fr) Int. Congr. Nutr. Proc., 7th Congr., v.2: 140-143. 1966, pub. 1967. TX345.I53 1966
- 94758 TREMOLIERES, J. Socio-economic implications of food habits. Int. Congr. Food Sci. Technol. Proc. 5: 221-234. 1962, pub. 1967. TP368.I5 1962
- 94759 VAN VELDHOFEN, M. The changes of food habits and their causes during the last half century in Curacao. Int. Congr. Nutr. Proc., 7th Congr., v.4: 91-94. 1966, pub. 1967. TX345.I53 1966
- 94760 WIRTHS, W. A survey of the physiological aspects of nutritional habits on farms in West Germany. (Ge) Z. Ernährungswiss. 8(4): 242-257. Oct. 1967. 389.8 Z35
- 94761 ZAPATA OLIVELLA, J. The fear of food. Int. Congr. Nutr. Proc., 7th Congr., v.2: 172-174. 1966, pub. 1967. TX345.I53 1966  
Food habits and culture in Colombia.

## NUTRITIVE AND VITAMIN CONTENT

- 94762 ACHTZEHN, M. K. Vitamin C and mineral content of present community food services. (Ge) Int. Congr. Nutr. Proc., 7th Congr., v.4: 649-651. 1966, pub. 1967. TX345.I53 1966
- 94763 ADRIAN, J., and GAST, M. Nutritional balance of millet milled products. (Fr) Int. Congr. Nutr. Proc., 7th Congr., v.5: 248-249. 1966, pub. 1967. TX345.I53 1966
- 94764 ALTSCHUL, A. M. Food proteins: new sources from seeds. Science 158(3798): 221-226. Ref. Oct. 13, 1967. 470 Sci2  
For human needs.
- 94765 BAERTL, J. M., and others. Supplementation of a community with noodles enriched with 10% fish protein concentrate. Int. Congr. Nutr. Proc., 7th Congr., v.5: 222-223. 1966, pub. 1967. TX345.I53 1966  
E. Morales, G. Verastegui, A. Cordano, and G. G. Graham, joint authors.
- 94766 BENEDETTI, P. C., and others. The importance of the supplementing level of methionine in vegetable protein mixtures. Int. Congr. Nutr. Proc., 7th Congr., v.5: 318-325. Ref. 1966, pub. 1967. TX345.I53 1966  
A. Mariani, M. A. Spadoni, and B. Tagliamonte, joint authors.
- 94767 BEVERIDGE, J. M. R. The apple. Nova Scotia Fruit Growers Ass. Annu. Rep. 103: 129-131. Dec. 1966. 82 N85  
History and effects on health.
- 94768 BOGDANSKI, C. Physical comparison of foods comprising cells in the biotic state or not. (Fr) Int. Congr. Nutr. Proc., 7th Congr., v.5: 855-857. Ref. 1966, pub. 1967. TX345.I53 1966
- 94769 BONADONNA, T., and SUCCI, G. Present dietetic problems about the utilization of meat. (Fr) World Rev. Anim. Prod. 3(12): 76-86. Apr./June 1967. 49 W89  
English summary.

- 94770 BRESSANI, R. Soybeans as a source of protein for human feeding in Latin America. U. S. Agr. Res. Serv. ARS-71-35:28-37. Ref. May 1967. A381 R31Ac  
Summaries by L. J. Teply, and L. L. McKinney, p.243-246,256-257.
- 94771 CHANDRASEKHARA, M. R., and others. Foods based on vegetable proteins for infant nutrition. Int. Congr. Nutr. Proc., 7th Congr., v.3:165-172. Ref. 1966, pub.1967. TX345.153 1966  
S. R. Shurpalekar, S. Aswathanayana, and H. A. B. Parpia, joint authors.
- 94772 CHOWANIEC, K. Use of eggs in dietetics. (Pol) Drobiarstwo 15(5):14. May 1967. 47.8 P953
- 94773 CONSOLAZIO, C. F. Vitamin supplementation of rice for group feeding. Int. Congr. Nutr. Proc., 7th Congr., v.4:658-662. 1966, pub.1967. TX345.153 1966
- 94774 DEBLING, G. B. Nutritional value of dried yeast and yeast extract. Food Mfr. 43(5):61-62. May 1968. 389.8 F736
- 94775 DVORAK, Z., and VOGNAROVA, I. Biological evaluation of meat and meat products. (Cz) Zpravod. Masneho Prum., Mar.1966:16-17. TS1950.Z6  
English summary.  
Chiefly nutritive value and proteins.
- 94776 EKMAN, J. Enriched milk, a new dairy product which is better and tastier than skim milk. (Sw) Var Naring 44(12):21,23. 1967. 44.8 M692
- 94777 FOX, H. C., and WATERLOW, J. C. Nutritive value of leaf protein concentrates for children. Int. Congr. Nutr. Proc., 7th Congr., v.3:173-178. 1966, pub.1967. TX345.153 1966
- 94778 GRAHAM, G. G. Dietary protein quality in malnourished infants: Soy proteins. U. S. Agr. Res. Serv. ARS-71-35:64-66. May 1967. A381 R31Ac  
Summary by J. C. Cowan, p.247-248.
- 94779 GRAHAM, G. G. Nutritional quality of vegetable protein in young children. Int. Congr. Nutr. Proc., 7th Congr., v.3:208-216. 1966, pub. 1967. TX345.153 1966
- 94780 GRAHAM, G. G. Nutritional quality of vegetable protein in young children. Int. Congr. Nutr. Proc., 7th Congr., v.3:301-308. 1966, pub. 1967. TX345.153 1966
- 94781 GREGORY, M. E. Reviews of the progress of dairy science. Section D. Nutritive value of milk and milk products. Water-soluble vitamins in milk and milk products. J. Dairy Res. 34(2):169-187. Ref. June 1967. 44.8 J823
- 94782 GUGGENHEIM, K., and SZMELCMAN, S. A protein-rich mixture from vegetable sources: assessment of nutritive value on animals infants and in vitro. Int. Congr. Nutr. Proc., 7th Congr., v.3:150-154. Ref. 1966, pub.1967. TX345.153 1966
- 94783 HENDERICKX, H. K., and VANNESTE, G. Maize-soybean mixtures as protein sources of high biological value. Z. Ernährungswiss. 8(4):209-215. Oct.1967. 389.8 Z35
- 94784 HILL, R. A. Potential and use of soy protein for low-cost infant foods in India. U. S. Agr. Res. Serv. ARS-71-35:223-224. May 1967. A381 R31Ac  
Products.  
Discussion By M. Milner, p.263-265.
- 94785 ISAKSSON, B. Water economy and the osmotic load of emergency diets. Int. Congr. Nutr. Proc., 7th Congr., v.4:528-532. Ref. 1966, pub. 1967. TX345.153 1966  
Includes nutritive value.
- 94786 KAPSIOTIS, G. D. Protein-rich food mixtures for infants and young children. Int. Congr. Nutr. Proc., 7th Congr., v.3:178-182. 1966, pub. 1967. TX345.153 1966
- 94787 KNAPP, J. A., and others. Nutritive value of plant proteins in infants. Int. Congr. Nutr. Proc., 7th Congr., v.5:307-313. 1966, pub.1967. TX345.153 1966  
L. L. Hill, R. Kaye, L. A. Barness, and R. J. Blattner, joint authors.
- 94788 LACHANCE, P. A. The development of space food and the nutritional aspects of space feeding. Amer. Feed Manufacturers Ass. Nutr. Counc. Proc., 27th Semi-Annu. Meeting:18-21. Ref. 1967. 389.79 Am32
- 94789 LAUERSEN, F. The importance of protracted carbohydrate addition to emergency food. (Ge) Int. Congr. Nutr. Proc., 7th Congr., v.4:533-534. 1966, pub.1967. TX345.153 1966
- 94790 LEVERTON, R. M. Soybean protein in mixed foods. U. S. Agr. Res. Serv. ARS-71-35:75-80. May 1967. A381 R31Ac  
Summary by J. C. Cowan, p.247-248.
- 94791 MCCAY, C. M., and MCCAY, J. B. The nutritive value of potatoes. Potato Handbook 12:54-56. 1967. 75.8 P842P
- 94792 MCLAREN, D. S. A criticism of the rationale for the development of vegetable food mixtures for the prevention of protein-calorie malnutrition in young children. Int. Congr. Nutr. Proc., 7th Congr., v.3:149. 1966, pub.1967. TX345.153 1966
- 94793 MCLAREN, D. S., and others. Further development of Laubina mixtures in the Middle East. Int. Congr. Nutr. Proc., 7th Congr., v.3:155-165. Ref. 1966, pub.1967. TX345.15 1966  
R. Y. Asfour, J. W. Cowan, P. L. Pellett, and R. I. Tannous, joint authors.  
Vegetable protein mixtures, their chemical evaluation and nutritive value.
- 94794 MOORE, T. The deficiency of canned beef in vitamin B1. Int. Congr. Nutr. Proc., 7th Congr., v.5:537-539. 1966, pub.1967. TX345.153 1966
- 94795 NAGARAJAN, V. Milk. Nutrition 2(3):25-30. Apr.1968. TX341.N8  
Nutritive value, chiefly.
- 94796 N'DOYE, T. A propos of the F.A.O. report (W. R. Aykroyd and Joyce Dougility) on legumes in human nutrition. (Fr) Int. Congr. Nutr. Proc., 7th Congr., v.5:289-293. 1966, pub.1967. TX345.153 1966
- 94797 OKE, O. L. Nutritive value of edible parts of Fulani cattle. J. Food Sci. 32(4):453-454. July/Aug.1967. 389.8 F7322
- 94798 PAOLIS, P. DE, CASILLI, L., and RINALDI, G. Vitamin B in buffalo's milk and the changes in related products; experimental research. (It) Acta Med. Vet. 13(1/2):75-88. Ref. Jan./Apr. 1967. 41.8 Ac84
- 94799 PARPIA, H. A. B., CHANDRASEKHARA, M. R., and SWAMINATHAN, M. Mutual and amino acid supplementation of vegetable proteins for combating protein malnutrition in preschool children. Int. Congr. Nutr. Proc., 7th Congr., v.4: 606-613. Ref. 1966, pub.1967. TX345.153 1966
- 94800 RAJALAKSHMI, R., and RAMACHANDRAN, K. Calcium incorporation in foodstuffs. Int. Congr. Nutr. Proc., 7th Congr., v.1:298-303. 1966, pub.1967. TX345.153 1966  
Fortification.
- 94801 SHURPALEKAR, K. S., SINGH, N., and SUNDARAVALLI, O. E. Nutritive value of leaf protein concentrates from Medicago sativa. Int. Congr. Nutr. Proc., 7th Congr., v.5:285-289. 1966, pub.1967. TX345.153
- 94802 SIDWELL, V. D. FPC [fish protein concentrate] in foods. Res. Develop. Ass. Activ. Rep. 19(1):118-124. Ref. Spring 1967. 389.9 As74A  
In cooking and as food supplement.
- 94803 STILLINGS, B. R. Nutritional evaluation of fish protein concentrate. Res. Develop. Ass. Activ. Rep. 19(1):109-117. Ref. Spring 1967. 389.9 As74A
- 94804 TANNOUS, R., and COWAN, J. Nutritive value of lupine protein. Int. Congr. Nutr. Proc., 7th Congr., v.5:272-276. 1966, pub.1967. TX345.153 1966  
Used in human nutrition.
- 94805 WIRTHS, W. Nutritional composition of school-breakfasts with regard to thiamin supply. Int. Congr. Nutr. Proc., 7th Congr., v.4:604-606. Ref. 1966, pub.1967. TX345.153 1966  
Germany.



## FORESTRY

## GENERAL

- 94806 BASTIN, E. W. In the Olympic rain forest. Watersheds 2(3):7,14. Fall 1967. S900 W3 Washington state.
- 94807 BLAND, D. E. Tracer activation in forestry research. CSIRO (Commonwealth Sci. Indus. Res. Organ.) Forest Prod. Newslett. 347:3. Dec.1967. 99.9 Au722F
- 94808 BORTNES, G. How much do we know about the forestry of the west part of the country? (No) Skogeieren 11:35. Nov.1967. 99.81 SK5 Forestry prospects in Norway.
- 94809 BOUCSEIN, H. The foundation of forest historical atlas production as part of a national forest history prepared with Hesse as an example. (Ge) Z. Agrargesch. Agrarsoziol. 15(1):14-22. Apr.1967. 30.98 Z3
- 94810 CLEPPER, H. The Forest Service backlashed. Forest Hist. 11(4):6-15. Jan.1968. 99.8 F7698 Forestry and politics, 1910.
- 94811 CONNAUGHTON, C. A. The forestry profession, the public, and you. J. Forest. 65(12): 876-879. Dec.1967. 99.8 F768
- 94812 COWEN, W. F. Ohio trees; folklore and medicinal uses. Ohio Woodlands 5(4):16-17. Aug./Oct.1967. 99.8 Oh34
- 94813 DONITA, N. The reality of forestry in Switzerland. (Rum) Rev. Padurilor 83(1):43-44. Jan. 1968. 99.8 R327
- 94814 ENDER, R. Forestry and lumber industry. (Ge) Forderungsdienst 15(2):52-58. Feb.1967. 19 F75 Austria.
- 94815 ENGINEERING aspects that limit the economics of thinning. (Condensed.) New Zeal. J. Forest. 12(2):163-173. 1967. 99.8 C162 Panel discussion; Moderator: C. H. Brown; members: O. A. Boyd, M. C. Goudie, J. J. K. Spiers, and R. Wren.
- 94816 FLEROV, B. A., and MOISEEV, N. A. Forestry in Finland. (Rus) Les. Khoz. 1:82-88. Jan. 1967. 99.8 L5622
- 94817 GEMBARZEWSKI, A. On the specialization of the forestry cadre. (Pol) Las Polski 41(11):3-6. Dec.1/15,1967. 99.8 L33 Foresters.
- 94818 GREAT BRITAIN. FORESTRY COMMISSION. Report on forest research for the year ended March 1967. Great Brit. Forest. Comm. Rep. Forest Res. 1967,194 p. 99.9 G795Re
- 94819 GULISASHVILI, V. Z. Forestry and forest resources of Spain. (Rus) Les. Khoz. 3:88-91. Mar.1967. 99.8 L5622
- 94820 JANECKO, E. The forestry of Austria. (Cz) Les [Bratislava] 22(8):370-372. 1966. 99.8 L5632
- 94821 KERNAN, H. S. Forest or field in the Amazon basin. Yale Rev. 57(4):571-576. Summer 1968. 110 Y1 Chiefly on forestry possibilities.
- 94822 KNIGHT, V. J. Tomorrow's forester--what will he be like? Amer. Pulpwood Ass. Tech. Pap., Oct.1967:20-21. 99.9 Am33Te
- 94823 KOCH, R. Forestry situation in the Saar and suggestions for forestry legislation and policy of the Federal Republic. (Ge) Forst- Holzwirt 22(12):259-262. June 23,1967. 99.8 F7724
- 94824 LARROSA, A. Forests in the economy of Finland. (It) Agri Forum 9(4):130-133, map. Apr.1968. 16 Ag8233
- 94825 LAVRINENKO, D. D., VERBIN, A. E., and CHONI, G. P. Appraisal of different rowspacing in mixed oak cultures in the steppes of Ukrainian SSR under mechanized cultivation. (Rus) Lesovod. Agrolesomeliior. 11:113-119. 1967. SD1.L44
- 94826 LEBOLD, W. R. Professional foresters in Ohio. Ohio Woodlands 6(3):9. May/July 1968. 99.8 Oh34 Society of American Foresters.
- 94827 MANTEL. Forestry under the influence storm catastrophes in forests and the wood marketing situation. (Ge) Forst- Holzwirt 22(12):250-258. (Condensed) June 23,1967. 99.8 F7724 Economic situation on forestry.
- 94828 MIKHAILOV, L., BOTOLOV, N., and YUDIN, A. Forestry in German Democratic Republic. (Rus) Les. Khoz. 6:82-86. June 1967. 99.8 L5622
- 94829 MUZZI, S. Opening of the sixteenth year of the Italian Academy of Forestry Science [Accademia Italiana di Scienze Forestali]. (It) Ital. Forest. Mont. 22(3):109-139. May/June 1967. 99.8 It12
- 94830 OSBORN, K. H., YODER, R. A., and WEST, W. I. Forestry theses accepted by colleges and universities in the United States; supplement July 1965--June 1966 including additions for previous years. Forest Sci. 13(2):213-221. June 1967. 99.8 F7632
- 94831 REMY, K. H. Timber improvement is goal of Ohio forestry research. Ohio Woodlands 6(3):12-13,15. May/July 1968. 99.8 Oh34 Department of Forestry, Ohio Agricultural Research and Development Center.
- 94832 SCHWEIZERISCHER Forstkalender [Swiss forestry almanac], 1968. Frauenfeld, 1967. 320 p. 99.83 Sch9
- 94833 SMOLSKI, S. Action by the Polish Forest Society in favour of the creation of the National Museum of Forestry and Wood Science. (Pol) Sylwan 111(5):81-83. May 1967. 99.8 Sy52
- 94834 SOCIETE ROYALE FORESTIERE DE BELGIQUE. List of members and subscribers, 1968. (Fr) Soc. Roy. Forest. Belg. Bull. 75(1):28-96. Jan.1968. 99.9 B83
- 94835 SOUTH CAROLINA. FORESTRY STUDY COMMITTEE. Report, January 1968. n.p., 1968. 42 p. 99.9 So833
- 94836 STANISIC, Z., and CURIC, R. Forestry of People's Republic Bulgaria. (Se) Nar. Sumar 20(7/8):306-321, map. July/Aug.1966. 99.8 N16
- 94837 SUSKA, M. What must be done for the application of cybernetics in forestry. (Cz) Les [Bratislava] 22(8):357-359. (Concl.) 1966. 99.8 L5632
- 94838 TAMOLANG, F. N. "Miracle" tree. Philippine Farms Gard. 4(5):26-27-28. May 1967. 25 P5323 Anthocephalus cadamba as forest species.
- 94839 THOMPSON, R. C. Preservation, recreation, and the premise of forestry. J. Forest. 65(6): 372-377. June 1967. 99.8 F768
- 94840 TOMASSONE, R. An investigatory method: the orthogonal regression. (Fr) Nancy Ecole Nat. Eaux Forets Ann. 24(3):233-258. Ref. 1967. 99.9 F845 English summary.
- 94841 TRAVERS, W. W. G. Australia and New Zealand should have a joint approach to forest planning and management, research, timber, pulp, paper and plywood & fibreboard production and marketing. (Extracts) Australian Timber J. Building Prod. Merchandiser 33(5): 72,74,77. June 1967. 99.81 Au7
- 94842 U. S. FOREST SERV. PACIFIC NORTHWEST REGION. Snoqualmie National Forest; 1967 letter to the stockholders. Washington, 1968? 25 p. A99.9 Sh5
- 94843 VICTORIA. FORESTS COMMISSION. Forestry research. Forest. Res. 8,18 p. Feb.1967. SD111.V5F6
- 94844 VINEY, R. The daily life of a chief of water and forests in the XVIII century. (Fr) Rev. Forest. Franc. 20(4):237-244. Apr.1968. 99.8 R329 Ernest Desjoberet.

- 94845 WHITMORE, T. C. Plans and progress on a manual of Malayan timber trees. *Malayan Forest*, 29(4):282-289. Ref. Oct.1966. 99.8 M292
- 94846 WILSON, E. Through Canadian wilds; three sketches of early forestry in Quebec. *Forest Hist.* 11(4):16-25. Jan.1968. 99.8 F7698
- 94847 YAMASHINA, K. On the method of forest study. (Ja) *Shimane Agr. Coll. Bull.* 15(A-1):1-8. Ref. Jan.1967. S539.J3S5  
English summary.
- 94848 ZACHAR, D. From the activity of Forestry Research Institute [Vyzkumny ustav lesneho hospodarstva] at Zvolen. (Cz) *Prague. Vyzk. Ustav Zemed. Vestn.* 13(12):572-575. 1966. 19.5 C333

## EDUCATION

- 94849 BENTZ, F. Forestry studies at the Institute for Soil Culture [Vienna Hochschule fur Bodenkultur] after World War I. (Ge) *Allg. Forstzeitung* 78(11):235. Nov.1967. 99.8 AL53
- 94850 FABIA, M. P. Forestry education in Sabah. *Malayan Forest*, 29(4):239-250. Oct.1966. 99.8 M292
- 94851 FLETCHER, P. W., and GEORGE J. L. What's happening in forestry education. *Cross Tie Bull.* 49(1):14-21. Jan.1968. 99.82 C87
- 94852 FORBES, R. H. Technical training readies B.C. youth for wood jobs. *Forest Indus.* 94(13):36-37. Dec.1967. 99.81 W52  
Courses in forestry at the British Columbia Institute of Technology in Burnaby.
- 94853 GAINES, B. R. Job corpsmen gain forestry skills. *Our Public Lands* 18(1):10-11. Winter 1968. 156.55 Ou7
- 94854 HAFNER, F. Austrian forest academicians and forest scholars abroad. (Ge) *Allg. Forstzeitung* 78(11):237-239. Nov.1967. 99.8 AL53  
Activities in Europe.
- 94855 HEDEMANN-GADE, E. When old Skogis became college. (Sw) *Sveriges Skogsvardsforb.* Tidskr. 64(7):665-680. Nov.1966. SD1.S952  
The Forestry College [Skogshogskolan] in Stockholm.
- 94856 KAUFERT, F. H. Graduate education and research in forestry. *Lumberman* [Manila] 13(5):26-33,35. Ref. May 1967. 99.81 L9793  
In the U. S.
- 94857 KILLIAN, H. Mariabrunn Forstlehranstalt [Mariabrunn School for Forestry Education] in the revolutionary days of 1848. (Ge) *Allg. Forstzeitung* 78(11):239-243. Nov.1967. 99.8 AL53
- 94858 LINDE, S., and LINDSTROM, I. Forest road surveyor. (Sw) *Skogen* 54(20):502-504. Oct.12, 1967. 99.8 Sk51  
Forestry teaching.
- 94859 MATIBAG, S. A. Nasipit School for Forest Workers. *Lumberman* [Manila] 13(8):45-46. Aug.1967. 99.81 L9793
- 94860 POLAK, O. On the problem of forest education. (Cz) *Lesnicka Prace* 45(5):207-212. (Concl.) May 1966. 99.8 L56
- 94861 PURRER, W. Forestry studies at the Institute for Soil Culture [Vienna Hochschule fur Bodenkultur] 1946 to 1950. (Ge) *Allg. Forstzeitung* 78(11):236-237. Nov.1967. 99.8 AL53
- 94862 SAGL, W. One hundred years of forest studies at the academy in Austria. The festivities and arrangements for the occasion. (Ge) *Allg. Forstzeitung* 79(1):18. Jan.1968. 99.8 AL53
- 94863 TSCHERMAK, L. Three generations of academic forest studies. Memories of the green alma mater of the pre-World War I period. (Ge) *Allg. Forstzeitung* 78(11):233-235. Nov.1967. 99.8 AL53  
Vienna Hochschule fur Bodenkultur.

## FOREST RESOURCES

- 94864 BORSET, O. Virgin forests and national parks in Yugoslavia. (No) *Norsk Skogbruk* 13(18):451-454. Sept.1967. 99.8 N815
- 94865 FRANCE. DIRECTION DE LA DOCUMENTATION. Forêts et bois tropicaux d'Afrique [Forests and tropical woods of Africa]. France. Dir. Doc. Notes Etudes Doc. 3447, 36 p. Dec.20,1967. 280.9 F843
- 94866 GÜSEV, N. N., and GUREVICH, I. G. Present forest resources and their utilization in Udmurt ASSR. (Rus) *Les. Khoz.* 1:39-41. Jan. 1967. 99.8 L5622
- 94867 ILVESALO, M. Lehtipuuvaltaiset metsävarat janiiden kehittämisen ongelma Pertunmaan pitäjän koeinventoinnin valossa [Growing stock of forests with dominant hardwood stand and their development problems in light of sampling inventory of the Pertunmaa district]. Finland. Metsäntutkimuslaitos. Julkaisuja 60(7),61 p., map. 1966. 99.9 F493  
German summary.
- 94868 KARLBERG, S. The forest land Japan. (Sw) *Sveriges Skogsvardsforb.* Tidskr. 64(7):637-648, map. Nov.1966. SD1.S952
- 94869 KRAJSKI, W. The forests of White Russia and the problem of increasing their resources. (Pol) *Sylvan* 11(8):57-63. 1967. 99.8 Sy52
- 94870 NATONTON, J. M. Forests of Southeast Asia. *Lumberman* [Manila] 13(8):20,22,28. Aug.1967. 99.81 L9793
- 94871 QUIGLEY, K. L. A new look at Ohio's forest resources and industries. *Ohio Woodlands* 6(3):5-8. May/July 1968. 99.8 Oh34
- 94872 TIHONEN, P. IV valtakunnan metsien inventointi. 3. Maan pohjoispuoliskon vesistöjen ja metsänhoitolautakuntien alueryhmät. Fourth national forest inventory in Finland. 3. Northern water system areas and forestry board districts. Finland. Metsäntutkimuslaitos. Julkaisuja 60(6),67 p., map. 1966. 99.9 F493  
English summary.
- 94873 TIHONEN, P. Suomen eteläpuoliskon metsien puuston rakenne kehitysuokittain vuosina 1960-61; valtakunnan metsien iv inventoinnin tuloksia. The structure of the growing stock of the forests in the southern half of Finland by development classes in 1960-61; results of the fourth national forest inventory. Finland. Metsäntutkimuslaitos. Julkaisuja 60(1),35 p., map. 1966. 99.9 F493  
English summary.

## FOREST INFLUENCES

- 94874 BATJER, D., NESS, R., and LUCKEN, J. VON. Windschutz in der Landwirtschaft [Wind protection in agriculture]. *Aktuelle Fragen Landbaus* 3,52 p. 1967. S465.A4  
Includes windbreak planting.
- 94875 BOGER, L. Trees against the wind. *Ohio Woodlands* 6(3):10-11. May/July 1968. 99.8 Oh34  
Windbreak plantings in Ohio.
- 94876 CHOU, H. Test on the distribution of precipitation and soil moisture content under various stands. (Ch) *J. Agr. Forest.* 15:129-152. Oct. 1956. 22.5 J823  
English summary.
- 94877 CHUBATYY, O. V., and TELESHEK, YU. K. Some results of research on the water conservation anti-erosion role of beech forests on the Svalyava timber reservation. (Rus) *Lesovod. Agrolesomeliator.* 12:79-90. 1967. SD1.L44
- 94878 COSTA, W. Care and management of shelter belts. (Ge) *Bayer. Landwirt. Jahrbuch* 44(5):626-636. Ref. 1967. 18 L24  
Includes chemical weed control.
- 94879 FLEMMING, G. Velocity of wind on clearings surrounded by forests. (Ge) *Arch. Forstwesen* 17(1):5-16. Ref. 1968. 99.8 Ar22  
English summary.



- 94880 GARTLAND, H. M., and SERRA, O. E. Information on forest plantations in the maritime dunes of Miramar, Province of Buenos Aires. (Sp) Rev. Forest. Argentina 11(1):5-9. Jan./Mar.1967. 99.8 R3252  
Effectiveness of fixation of the dunes over a period of 30 years.
- 94881 GHANI, Q. Influence of forests on the soil and microclimate in the humid tropics. Symp. Sci. Probl. Humid Trop. Zone Deltas Implications. Proc. 1966:243-246. GB1205.S3
- 94882 GLASCOCK, H. R. Foresters and environmental quality. J. Forest. 65(5):378-380. Ref. June 1967. 99.8 F768
- 94883 HELVEY, J. D. Interception by eastern white pine. Water Resources Res. 3(3):723-729. Ref. 1967. 292.8 W295  
In North Carolina.
- 94884 KARYSHEV, V. E., and KRAVTSOV, M. V. Spruce windbreaks for Belorussian highways. (Rus) Les. Khoz. 6:21-23. June 1967. 99.8 L5622  
Planting scheme and influences.
- 94885 KHARITONOV, G. A. Meliorative role of group-planted shelterbelts in forest-steppe Transural area. (Rus) Les. Khoz. 6:17-21. June 1967. 99.8 L5622  
Influences.
- 94886 LAWSON, E. R. Throughfall and stemflow in a pine-hardwood stand in the Ouachita Mountains of Arkansas. Water Resources Res. 3(3):731-735. 1967. 292.8 W295  
Related to weather.
- 94887 LESHCHILOVSKII, I. F., and TEZIKOV, S. D. Unacceptable proposition. (Rus) Les. Khoz. 3:42-45. Mar.1967. 99.8 L5622  
Roadside planting of shelterbelts.
- 94888 LEVSHUKOV, A. B. Snow density in relation to various structure of shelterbelts. (Rus) Les. Khoz. 3:45-47. Mar.1967. 99.8 L5622  
Roadside planting.
- 94889 LYAKHOVICH, V. B., and others. From the experience of west-Siberian railroad construction. (Rus) Les. Khoz. 3:49-51. Mar.1967. 99.8 L5622  
I. Z. Fradkin, I. I. Solopov, and S. N. Kurbatov, joint authors.  
Windbreak planting for snow protection.
- 94890 MOLOKANOV, A. N. Forest plantings as reliable means of reservoir protection. (Rus) Les. Khoz. 6:23-24. June 1967. 99.8 L5622
- 94891 PAVLOVSKII, E. S. G. F. Morozov in Kamēnaya Steppe. (Rus) Les. Khoz. 1:24-25. Jan. 1967. 99.8 L5622  
Establishment of shelterbelts.
- 94892 PODZOROV, N. V. Industrial fumes and protective role of forest plantings. (Rus) Les. Khoz. 6:39-40. June 1967. 99.8 L5622
- 94893 ROGERSON, T. L., and BYRNES, W. R. Net rainfall under hardwoods and red pine [*Pinus resinosa*] in central Pennsylvania. Water Resources Res. 4(1):55-57. Feb.1968. 292.8 W295
- 94894 RYZHIKOV, D. P. Control of dust storms. (Rus) Les. Khoz. 1:45-48. Jan.1967. 99.8 L5622  
By planting of windbreaks.
- 94895 SIMUNOVIC, N. Properties and use of poplars in the establishing of forest windbreaks. (Se) Sumarski List 91(5/6):244-252. Ref. May/June 1967. 99.8 Su6  
German summary.
- 94896 SIMUNOVIC, N. Reduction of the velocity of wind by windbreaks. (Se) Savremena Poljoprivreda 15(4):375-384. Ref. Apr.1967. 21 P75
- 94897 TOKAMACHI EXPERIMENT SITE LABORATORY OF FORESTRY IN HEAVY SNOW REGION II. Data of properties of snow deposit. 2. (Ja) Jap. Forest Exp. Sta. Bull. 199:1-46. Mar. 1967. 99.8 R47  
Effects on forests.
- 94898 VSHIVTSEV, V. A. Groundless conclusions. (Rus) Les. Khoz. 3:47-48. Mar.1967. 99.8 L5622  
Roadside planting of windbreaks for snow protection.
- 94899 YABLOKOV, A. S. The acclimatization of forest species for windbreak plantings in afforestation and landscape gardening. (Rus) Vestnik Sel'skokhoz. Nauk [Moscow] 12:82-88. 1967. 20 V633  
English summary.
- 94900 ZAVALEV, I. Windbreaks as crop protectors. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 8: 22. Aug.1967. 281.8 Se4  
Grain.

## FOREST INJURIES AND PROTECTION

- 94901 ATTIKOV, M. A. Resistance of poplar trees to temporary inundation. (Rus) Les. Khoz. 1-52. Jan.1967. 99.8 L5622
- 94902 BAILEY, W. F., and CHANSLER, J. F. Central Rocky Mountains. U. S. Forest Serv. Forest Insect Cond. U. S., May 1968:19-24. A423.9 F763  
Forest pests.
- 94903 BASSUS, W. On the condition of Cambodia forests. (Ge) Arch. Forstwesen 17(1):39-52. 1968. 99.8 AR22  
English summary.  
Droughts and fires as factors.
- 94904 BELL, J. C., DRAKE, L. E., and OVERGAARD, N. A. Southern and Southeastern States. U. S. Forest Serv. Forest Insect Cond. U. S., May 1968:29-34. A423.9 F763  
Forest pests.
- 94905 BERNHARD, J., and CERNUSCA, G. Recording and documentation of wind and snow conditions in avalanche areas. (Ge) Allg. Forstzeitung 79(1):19-20. Jan.1968. 99.8 AL53  
In Austria.
- 94906 BURIAN, A. Problem of the protection of forests in the Vratna valley in view of their increased use for recreational purposes. (Cz) Les [Bratislava] 22(8):343-345. 1966. 99.8 L5632
- 94907 BYSTRAN, J. Wind injuries to forests. (Cz) Les [Bratislava] 22(8):351-356. 1966. 99.8 L5632
- 94908 CROSBY, D. Forest insect conditions in the various regions. U. S. Forest Serv. Forest Insect Cond. U. S., May 1968:5-6. A423.9 F763  
Forest pests in Alaska.
- 94909 DE BELLIS, E., and CAVALCASELLE, B. Importance of damages of poplar caused by *Paranthrene tabaniformis* and *Semasia aceriana* in some nurseries of the ENCC [Ente Nazionale per la Cellulosa e per la Carta] in central and southern Italy. (It) Cell. Carta 19(1):29-32. Jan.1968. 302.9 En8  
English summary.
- 94910 DIMOND, J. B., and BISHOP, R. H. Susceptibility and vulnerability of forests to the pine leaf aphid *Pineus pinifoliae* (Fitch) (Adelgidae). Maine. Agr. Exp. Sta. Bull. 658, 16 p., map. Ref. Mar.1968. 100 M285
- 94911 DRAGUT, N. *Pyrrocoris apterus* L. as an enemy of the regeneration of *Tilia* from seeds. (Rum) Rev. Padurilor 83(1):22-28. Jan.1968. 99.9 R327  
Includes control.
- 94912 EDWARDS, W. R. N. Protection of conservation pole plantings. Soil Water 4(1):23-24. Sept.1967. 56.8 So323  
Protection from damage by cattle in New Zealand.
- 94913 HENRIKSEN, O. The susceptibility of trees to air pollution. (Sw) Skogsbruket 37(6):169-172. 1967. 99.8 Sk59

- 94914 HONING, F. W., TUNNOCK, S., and MCGREGOR, M. D. Northern Rocky Mountains. U. S. Forest Serv. Forest Insect Cond. U. S., May 1968:16-19. A423.9 F763  
Forest pests.
- 94915 HOWIE, E. L. Budworm and management—the voice of experience. Pulp Pap. Mag. Can. 68 (6):WR-282. June 1967. 302.8 P96  
Spruce and balsam fir pest control.
- 94916 KESSLER, K. J. Dieback not a cause of mortality or reduction of growth or quality in Lake States northern hardwoods. J. Forest. 65(12): 892-893. Ref. Dec.1967. 99.8 F768
- 94917 KLEIN, W. H. Intermountain States. U. S. Forest Serv. Forest Insect Cond. U. S., May 1968:13-16. A423.9 F763  
Forest pests.
- 94918 KORODI, J. The role of birds in the control of forest insect pests. (Rum) Rev. Padurilor 83: (1):18-22. Jan.1968. 99.8 R327
- 94919 LANGHAMMER, A. A. Injuries of the forest. (No) Norsk Landbruk 2:8-9,30. Jan.26,1968. 11 N8122
- 94920 LINGO, H. Current methods of beaver control and their effectiveness. Ala. Forest Prod. 10(11):10-11. Nov.1967. 99.82 AL1  
Damaging trees.
- 94921 LUCANIK, V. The role of forest improvement measures and program for their implementation. (Cz) Les [Bratislava] 22(8):337-340. 1966. 99.8 L5632  
Chiefly regulation of torrents.
- 94922 LUCHT, D. D. Southwestern States. U. S. Forest Serv. Forest Insect Cond. U. S., May 1968:24-29. A423.9 F763  
Forest pests.
- 94923 MACLEOD, J. C. Problems, problems, problems in forest protection. Pulp Pap. Mag. Can. 68(6):WR-274-WR-277. June 1967. 302.8 P96  
Insects, diseases, fires.
- 94924 MANTEL, K. Windfall 400 years ago. (Ge) Forst- Holzwirt 22(18):374-375,378. Sept.23, 1967. 99.8 F7724
- 94925 MCCOWAN, V. F. Northeastern States. U. S. Forest Serv. Forest Insect Cond. U. S., May 1968:34-36. A423.9 F763  
Forest pests.
- 94926 MELJER, W. Poison-girdling. Malayan Forest. 29(4):305-306. Oct.1966. 99.8 M292
- 94927 NITU, G., and NITU, C. Determination of the degree of flooding in the Danube Delta. (Rum) Rev. Padurilor 82(6):291-293. June 1967. 99.8 R327  
Includes effect on forests.
- 94928 PETTINGER, L. F., and DOLPH, R. E. Oregon and Washington. U. S. Forest Serv. Forest Insect Cond. U. S., May 1968:6-9. A423.9 F763  
Forest pests.
- 94929 PIERCE, J. R. California. U. S. Forest Serv. Forest Insect Cond. U. S., May 1968:9-13. A423.9 F763  
Forest pests.
- 94930 REINECKE, H. A temporary fence does not have to be expensive. (Ge) Forst- Holzwirt 22(18):376-377. Sept.23,1967. 99.8 F7724
- 94931 SHARMA, D. G. The problems of forest protection in India with special reference to Madhya Pradesh. Indian Forest. 93(6):407-410. June 1967. 99.8 In2  
Against damages of various causes.
- 94932 SIDOR, C., and NIKOLIC, V. Viroses of the Diprion spp. in Yugoslavia and their application in the control of the European pine sawfly. I. Polyhedrosis of Neodiprion sertifer Geoffr. (Se) Novi Sad Poljopr. Fak. Letop. Naucnih Rad. 10:37-53. Ref. 1966. 106.6 N85  
English summary.
- 94933 SIMPSON, A. W. Relation between windthrow and top height at Baronscourt forest. Forester 8(3):31-33. Dec.1967. 99.8 F7635
- 94934 SZUKIEL, E. Status of experiments in chemical control against wildlife peeling damages in the German Democratic Republic and Poland. (Pol) Las Polski 41(11):11-14. Dec.1/15,1967. 99.8 L33
- 94935 TABACARU, I. Technical and economic efficiency of the works on the control of soil erosion in the watershed of Ampoiul valley. (Rum) Rev. Padurilor 82(6):305-309, map. June 1967. 99.8 R327  
English summary.  
Reforestation and control of torrents.
- 94936 TAKATOI, I., WATANABE, T., and KAMADA, U. Frost damage in forest trees. IX. Frost hardness in Todo fir (*Abies sachalinensis* Fr. Schm. and white spruce (*Picea glauca* Voss) Hakkaido. Forest Exp. Sta. Annu. Rep. 1965:56-80. Ref. Dec.1966. 99.9 J2724A  
English summary, p.64-65.
- 94937 THALENHORST, W. German forest protection literature 1965/66. I. Injuries from wildlife. (Ge) Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz 74(9):562-565. Sept.1967. 464.8 Z3
- 94938 TINGA, J. H., and GARRETT, F. W. Rodent girdling of Virginia pine [*Pinus virginiana*] related to amount of ground cover herbs [*Lespedeza sericea*]. Tree Planters' Notes 77:17-19. Aug.1966. 1.962 C5T71  
Virginia.
- 94939 TRESHOW, M., ANDERSON, F. K., and HARNER, F. Responses of Douglas-fir [*Pseudotsuga menziesii*] to elevated atmospheric fluorides. Forest Sci. 13(2):114-120. June 1967. 99.8 F7632  
Injuries.
- 94940 U. S. FOREST SERV. Forest insect conditions in the United States, 1967. Washington, 1968. 39 p., map. A423.9 F763
- 94941 U. S. FOREST SERV. PACIFIC NORTHWEST REGION. DIV. OF TIMBER MANAGEMENT. INSECT AND DISEASE CONTROL BR. Forest insect conditions in the Pacific Northwest during 1967, by R. E. Dolph, and L. F. Pettinger. Washington, 1968. 73 p., map. 1.967 F4F76  
Oregon State Board of Forestry, and Washington Department of Natural Resources, cooperating.  
Chiefly as pests.
- 94942 WARREN, L. O. Controlling Nantucket pine tip moth on shortleaf and loblolly pines. Ark. Farm Res. 17(2):6. Mar./Apr.1968. 100 Ar42F  
*Rhyacionia frustrana*.

#### Forest Fire Prevention and Control

- 94943 BASTIDE, R. Fire control in Mont Aigoual. (Fr) Rev. Forest. Franc. 19(6):397-408. June 1967. 99.8 R329
- 94944 CHAUTRAND, L. For the D. F. C. I. [Defense des Forests contre l'Incendie] Forest Fire Protection in Provence, the pilot section in the Maures. (Fr) Rev. Forest. Franc. 19(6):386-396, map. June 1967. 99.8 R329
- 94945 COBB, S. S. Development of aircraft use for fire control in Pennsylvania. J. Forest. 65(6): 394-397. June 1967. 99.8 F768
- 94946 DROZHALOV, M. M. Calculation of time needed for delivery of forest fire suppression means. (Rus) Les. Khoz. 6:51-54. June 1967. 99.8 L5622
- 94947 KHBARIN, B. Explosives in the control of forest fires. (Rus) Les. Khoz. 2:84-85. Feb. 1967. 99.8 L5622
- 94948 KOURTZ, P. Lightning behaviour and lightning fires in Canadian forests. Can. Dep. Forest. Publ. 1179, 33 p. Ref. 1967. 99.9 C1628P
- 94949 LOSENSKY, B. J. A preliminary report on the infrared lightning fire patrol study. Fire Contr. Notes [Washington] 29(2):4-6, 16. Apr.1968. 1 F766Fi  
For early detection of fires caused by lightning.



- 94950 MARLIN, C. B. How should the cost of forest fire protection be shared? La. Agr. Exp. Sta. Bull. 625, 19 p. Feb. 1968. 100 L93
- 94951 PHILLIPS, D. C. Tips on appearing as Smokey Bear. Fire Contr. Notes [Washington] 29(2):10-11, 16. Apr. 1968. 1 F766Fi
- 94952 RYAN, P. W., and PACHENCE, A. M. An analysis of 1966 forest fires and fire danger in Georgia. Ga. Forest Res. Counc. Ga. Forest Res. Pap. 47, 21 p., map. Ref. Aug. 1967. 99.9 G299G
- 94953 SHESHUKOV, M. A. Classification of forest fires according to size of burned area. (Rus) Les. Khoz. 1:53-57. Jan. 1967. 99.8 L5622
- 94954 ZIMMERMAN, S. A breakthrough in effective low-cost fire simulation. Fire Contr. Notes [Washington] 29(2):3, 15. Apr. 1968. 1 F766Fi For teaching.
- 94955 ZVONKOVA, A. A., KIBLER, V. F., and TOPORKOV, S. S. Peculiarities of fires in cutover areas overgrown with heather. (Rus) Les. Khoz. 3:63-64. Mar. 1967. 99.8 L5622
- FOREST MANAGEMENT**
- 94956 ARESHCHENKO, V. D. Scientific Organization of Labor [Nauchnaya Organizatsiya Truda] in forestry. (Rus) Les. Khoz. 2:35-37. Feb. 1967. 99.8 L5622
- 94957 BAITIN, A. A., and STOLYAROV, D. P. Improving methods of forest management. (Rus) Les. Khoz. 1:37-39. Jan. 1967. 99.8 L5622
- 94958 BATTEN, C. R. Railroads are active conservationists. Cross Tie Bull. 48(9):8-11. Sept. 1967. 99.82 C87
- 94959 BEGEMANN, W. The technique of social functions. (Ge) Forst- Holzwirt 22(16):335-336. Aug. 23, 1967. 99.8 F7724 Multiple use.
- 94960 BOLGOV, I. V., and KAZARTSEV, I. S. Technical maintenance of forestry equipment. (Rus) Les. Khoz. 2:51-54. Feb. 1967. 99.8 L5622
- 94961 BORSET, O. Now what about the owners of small forests? (No) Norsk Landbruk 3:6-7, 23. Feb. 9, 1968. 11 N8122 Economic aspects of lumber production on farm woodlands in Norway.
- 94962 BRABANDER, H. D. Obtaining forest management indices and establishing management typology. (Ge) Forst- Holzwirt 22(20):427-428, 430. Ref. Oct. 23, 1967. 99.8 F7724
- 94963 BRATHEN, H. Accidents involving forest workers. (No) Norsk Skogbruk 13(17):39. Sept. 1967. 99.8 N815
- 94964 BUFF, J. Osterode state forest in the Harz nature park; versatile use between economy, recreation and beauty. (Ge) Forst- Holzwirt 22(16):325-328. Aug. 23, 1967. 99.8 F7724
- 94965 BYLUND, N. Salary-employed forestry workers. (Sw) Lantmannen 78(20):27-28. Sept. 1967. 11 L234 Housing, recruiting, education of forest workers in Sweden.
- 94966 CESTAR, D. A contribution to the problem of application of typology in the modern management of forests. (Se) Sumarski List 91(5/6):181-185. Ref. May/June 1967. 99.8 Su6 German summary.
- 94967 COSICO, A. B. The need for Timber Industry Development Bank. Lumberman [Manila] 13(5):8. May 1967. 99.8 L9793
- 94968 CUNNINGHAM, A. The role of engineering in New Zealand protection forest management. New Zeal. J. Forest. 12(2):91-101. Ref. 1967. 99.8 C162 In supplying better maps and access roads.
- 94969 DAVIS, L. S. Investments in loblolly pine clonal seed orchards; production costs and economic potential. J. Forest. 65(12):882-887. Dec. 1967. 99.8 F768
- 94970 DEETLEFS, P. P. DU. T. Co-operative forestry. S. Afr. Forest. J. 61:14-17. June 1967. 99.9 So82
- 94971 DIETERICH, V. Forest mindedness and forest value thoughts. (Ge) Allg. Forstzeitung 79(1):7-10. Jan. 1968. 99.8 AL53 Forest management and valuation in Austria.
- 94972 FLORIDA BOARD OF FORESTRY. The nineteenth biennial report, 1964-1966. n.p. 26 p. 1966. 99.9 F662W
- 94973 FRAUENDORFER, R. The future of the management. (Ge) Allg. Forstzeitung 79(1):1-6. Jan. 1968. 99.8 AL53 Economic aspects in Austria.
- 94974 FRIDELL, I., and LARSSON, U. News about consolidation. (Sw) Skogen [Stockholm] 54(23):600-601, map. Nov. 23, 1967. 99.8 Sk51 Forest land improvement policies in Sweden.
- 94975 GEIGER, F. Management indices as means for rationalization of the forest enterprise. (Ge) Forst- Holzwirt 22(20):430-433. Oct. 23, 1967. 99.8 F7724
- 94976 GEYER, K., and RUMPF, W. The French forest management. (Ge) Deut. Forstmann 7(8):8-10. Aug. 1967. 99.8 D486
- 94977 GROX, A. DE. Excursion into the Werbomont region. (Fr) Soc. Roy. Forest Belg. Bull. 74(8-9):372-379. Aug./Sept. 1967. 99.9 B83 Private forests in Belgium.
- 94978 HAUTECLOQUE, L. DE. The private forest confronted with economic problems. (Fr) Paris. Acad. Agr. France. Compt. Rend. Hebd. Seances 53(17):1340-1352. Dec. 6/13, 1967. 14 P215Bc Includes discussion.
- 94979 HEDRICK, D. W., and others. Effects of forest and grazing practices on mixed coniferous forests of northeastern Oregon. Oreg. Agr. Exp. Sta. Tech. Bull. 103, 24 p. Feb. 1968. 100 Or3S J. A. Young, J. A. B. McArthur, and R. F. Keniston, joint authors.
- 94980 HELLEN, E. The forest industry and the devaluation. (Sw) Skogsbruket 37(12):324-325. 1967. 99.8 Sk59 Finland.
- 94981 HOKKAIDO. FOREST EXPERIMENT STATION. Annual report, 1965. Sapporo, 1966. 252 p. 99.9 J2724A
- 94982 IEVIN', I. K. Introducing scientific recommendations into forestry practice. (Rus) Les. Khoz. 6:71-73. June 1967. 99.8 L5522 In relation to mechanization in Latvia.
- 94983 IRVING, F. D. Forest resource administration, the search for greater efficiency. Minn. Sci. 23(3):37. Apr. 1967. 100 M668
- 94984 JACOBSEN, M. W. Some experiences with culture of Abies nordmanniana in Svenstrup forest district. (Da) Dansk Skovfor. Tidsskr. 52(10):335-372. Oct. 1967. 99.8 D23 Economic aspects.
- 94985 JANSSON, G. Towards better land consolidation. (Sw) Skogen (Stockholm) 54(22):565-566. Nov. 9, 1967. 99.8 SK51
- 94986 KAMINSKI, E. Statistics of forestry 1964 and 1965. (Pol) Sylwan 111(8):49-53. 1967. 99.8 Sy52
- 94987 KAPLUNOVSKIY, P. S. The present status of selectively lumbered timber stands. (Rus) Lesovod. Agrolesomeliar. 12:23-29. 1967. SD1.L44 Forest conservation, U.S.S.R.
- 94988 KATAOKA, H. Some problems of National Forest management from a practical point of view. (Ja) Forest Econ. 20(10):21-27. Oct. 1967. 99.8 R474
- 94989 KITAGAWA, I. Social condition of forestry laborers. (Ja) Shimane Agr. Coll. Bull. 15(A-5):63-72. Jan. 1967. S539.J3S5
- 94990 KOROBEVSKII, L. A. Necessary economic experiment. (Rus) Les. Khoz. 6:13-16. June 1967. 99.8 L5622 Management of forests.

- 94991 KRALOBA, J. From the activity of the Research Station for Forest Seed Production [Vyskumna Stanice Lesneho Semennarstva] at Lip-tovsky Hradok. (Cz) Prague. Vyzk. Ustav Zemed. Vestn. 13(7):340-343. 1966. 19.5 C333
- 94992 KULIKOVA, T. A. Standards of effectiveness of forest management measures. (Rus) Les. Khoz. 1:29-35. Jan.1967. 99.8 L5622
- 94993 KWAN, W. Y. A case for making part of Bubu Forest Reserve into a nature reserve. Malaysian Forest. 29(4):273-275. Oct.1966. 99.8 M292
- 94994 LARSSON, U. Forest valuation. (Sw) Skogen (Stockholm) 54(22):560-562. Nov.9,1967. 99.8 SK51  
Includes problems of ownership and legal aspects.
- 94995 LEVCHENKO, V. P. Work organization in smaller state timber yards with productive volumes of 10,000-15,000 cubic meters yearly. (Rus) Lesovod. Agrolesomelior. 11:61-64. 1967. SD1.L44
- 94996 LINKOLA, M. Pyha-Hakki National Park--a piece of primeval Finnish forest. (Sw) Skogsbruket 38(1):22-24. 1968. 99.8 Sk59
- 94997 MALYUGIN, T. T. Investigation of power balance in forest planting units. (Rus) Lesovod. Agrolesomelior. 11:27-35. 1967. SD1.L44  
Forestry mechanization.
- 94998 NAKAO, H. Economic structure of the forestry worker's household. (Ja) Shimane Agr. Coll. Bull. 15(A-5):45-62, map. Jan.1967. S539.J3S5
- 94999 NARTOV, P. S. Justification of parameters of working parts of forest disk implements. (Rus) Les. Khoz. 3:54-59. Mar.1967. 99.8 L5622
- 95000 NAUTIYAL, J. C., and PEARSE, P. H. Optimizing the conversion to sustained yield-- a programming solution. Forest Sci. 13(2):131-139. Ref. June 1967. 99.8 F7632
- 95001 NEDASHKOVSKIY, A. N. Mechanization of forest culture works in mountain areas. (Rus) Lesovod. Agrolesomelior. 11:10-20. 1967. SD1.L44
- 95002 NEDASHKOVSKIY, A. N. Motorized equipment trials for forestry works. (Rus) Lesovod. Agrolesomelior. 11:36-41. 1967. SD1.L44
- 95003 NERINCX, E. The private forest and protection of birds. (Fr) Soc. Roy. Forest. Belg. Bull. 73(12):510-518. Dec.1966. 99.9 B83
- 95004 NILSSON, B. Forestry research. (Sw) Skogen (Stockholm) 54(11):308-309, 320. May 25, 1967. 99.8 Sk51  
Management, mechanization, logging costs in Sweden.
- 95005 NOER, H. Economic planning of farm woodland. (No) Norsk Landbruk 12(1):12, 29. Jan. 1968. 11 N8122
- 95006 NORDBO, T. Spruce grow very well at Vestlandet. (No) Skogeieren 5:6-7. May 1967. 99.81 Sk5  
Forest management.
- 95007 PALADIAN, M. Forest buildings and the development of tourism in Romania. (Rum) Rev. Padurilor 82(10):546-551. Oct.1967. 99.8 R327
- 95008 REYNOLDS, H. G. Chemical constituents and deer use of some crown sprouts in Arizona chaparral. J. Forest. 65(12):905-908. Dec. 1967. 99.8 F768  
Management aspects.
- 95009 RICHEN, C. W. Forest resources - multiple use concepts. Nat. Res. Counc. Agr. Res. Inst. Proc. Oct.16-17, 1967:137-145. 4 N2122
- 95010 RIPLEY, T. H., and HALLS, L. K. Measuring the forest wildlife resource. La. State Univ. Annu. Forest. Symp., 15th Annu. Symp.:163-184. Ref. 1966. 99.9 L935
- 95011 RUMYANTSEV, G. T. Determination and analysis of production costs in forestry. (Rus) Les. Khoz. 2:40-42. Feb.1967. 99.8 L5622
- 95012 SAMUELSSON, E. Is efficient forestry ugly? (Sw) Lantmannen 78(20):22-24. Sept.1967. 11 L234  
Forest conservation in Sweden.
- 95013 SHLAPAKOV, P. I. Some considerations on applying economic accounting in forestry. (Rus) Les. Khoz. 6:11-13. June 1967. 99.8 L5622  
Includes costs and returns.
- 95014 SPURR, S. Wilderness management. Calif. Univ. Sch. Forest. H. M. Albright Conserv. Lect. 6, 17 p. May 3, 1966. 279.9 C126
- 95015 STACKELBERG S., FREIHERR VON. Time consumption comparison in bundling and stacking of beech cordwood. (Ge) Allg. Forst- Jagdzeitung 138(4):76-81. Ref. Apr.1967. 99.8 AL3  
English summary.
- 95016 SYMPOSIUM ON FOREST ENGINEERING TO THE MILL DOOR. [Papers.] New Zeal. J. Forest. 12(2):91-172. 1967. 99.8 C162
- 95017 TAKESHITA, K., FUKUSHIMA, T., and TAKAGI, J. Forest--land productivity of the basin of Onga river in Fukuoka prefecture. (Ja) Fukuoka-ken Forest Exp. Sta. Bull. 19:53-69, map. Mar.1967. 99.9 F95  
English summary.
- 95018 TIMOFEEV, V. P. Importance of G. F. Morozov in the development of experimental forestry. (Rus) Les. Khoz. 1:18-21. Jan.1967. 99.8 L5622
- 95019 UYEMURA, T., ISAKA, S., and SAITO, H. Studies on prefabricated wooden houses. 4. On the dwelling availabilities of houses trially built. (Ja) Jap. Forest Exp. Sta. Bull. 200:1-32. Mar.1967. 99.8 R47  
English summary.  
Dwellings for forest workers.
- 95020 VORONIN, I. V. Ways and possibilities of realization of economic reform in forestry. (Rus) Les. Khoz. 3:8-14. Mar.1967. 99.8 L5622  
Includes accounting.
- 95021 YAMASAKI, T. The modernization of forestry labor--a memorandum. (Ja) Konan Keizaigaku Ronshu 7(4/5):27-43. Ref. Mar.1967. 280.9 K8323  
In Japan.
- 95022 ZIMA, I. M., and MALYUGIN, T. T. Basic mechanization problems of complexes for forest clearing and work-saving devices in Ukrainian SSR. (Rus) Lesovod. Agrolesomelior. 11:3-9. Ref. 1967. SD1.L44

#### Forest Description and Mensuration

- 95023 ANUCHIN, N. P. A new method of the determination of average tree stand diameters. (Rus) Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina. Dokl. 6:6-9. June 1967. 20 Ak1
- 95024 AVERY, T. E. Aerial photos--tools for forest measurement. La. State Univ. Annu. Forest. Symp., 15th Annu. Symp.:93-104. Ref. 1966. 99.9 L935  
Includes discussion.
- 95025 BAKER, R. D. Aerial photographs in the forest. Photogram. Eng. 33(12):1373-1376. Dec.1967. 325.28 P56
- 95026 BARTON, W. J. Weight vs. volume for use in measuring forest products. La. State Univ. Annu. Forest. Symp., 15th Annu. Symp.:30-42. 1966. 99.9 L935  
Logs.  
Includes discussion.
- 95027 BARTON, W. W. Use and misuse of statistics in forestry. La. State Univ. Annu. Forest. Symp., 15th Annu. Symp.:71-82. 1966. 99.9 L935  
In relation to mensuration.
- 95028 BEICHEL, F. On the theory of visual line plot survey. (Ge) Arch. Forstwesen 17(1):75-88. 1968. 99.8 AR22  
English summary.



- 95029 BENNETT, F. A. Construction and use of volume and yield tables. La. State Univ. Annu. Forest. Symp., 15th Annu. Symp.:17-29., map. 1966. 99.9 L935  
Includes discussion.
- 95030 BENSON, M. K., and EINSPAH, D. W. Early growth of diploid, triploid and triploid hybrid aspen. Forest Sci. 13(2):150-155. Ref. June 1967. 99.8 F7632  
*Populus tremuloides*.
- 95031 BHIMAYA, C. P., and others. A study of age and habitat differences in the fuel yield of *Prosopis juliflora*. Indian Forest. 93(6):355-359. June 1967. 99.8 In2  
M. B. Jain, R. N. Kaul, and B. N. Ganguli, joint authors.  
Mensuration data for fuelwood exploitation.
- 95032 BICKFORD, C. A. Sampling methods in relation to forest inventory. La. State Univ. Annu. Forest. Symp., 15th Annu. Symp.:121-135. Ref. 1966. 99.9 L935  
Includes discussion.
- 95033 BITTERLICH, W. Angle count sampling. 22 p. (FS-566) Transl. 16879  
Translation from Zentralblatt für Gesamte Forst- und Holzwirtschaft 71(3):191-205. n.d.
- 95034 BLOM, T. Determination of site quality of forests. (Sw) Sveriges Skogsvårdsförb. Tidskr. 64(6):595-600. Oct.1966. SD1.S952
- 95035 BRUCE, D. New tools and methods in forest mensuration. La. State Univ. Annu. Forest. Symp., 15th Annu. Symp.:83-92. 1966. 99.9 L935
- 95036 BUGAEV, V. A. Indices of forest productivity. (Rus) Les. Khoz. 2:38-40. Feb.1967. 99.8 L5622
- 95037 CARBONNIER, C. Pro memoria on the determination of site quality of forests. (Sw) Sveriges Skogsvårdsförb. Tidskr. 64(6):601-607. Oct.1966. SD1.S952
- 95038 CESTAR, D., and HREN, V. A contribution to the definition of forms of forest stands for cultivation. (Se) Sumarski List 91(5/6):186-191. Ref. May/June 1967. 99.8 Su6  
German summary.
- 95039 CHOONG, L. P. The use of aerial photographic interpretation in forest ecology and forest inventory in Malaya. Malayan Forest. 29(4):276-281. Oct.1966. 99.8 M292
- 95040 EBELING, F. Biological production qualifications of the Norrland forests. (Sw) Sveriges Skogsvårdsförb. Tidskr. 64(6):579-591. Ref. Oct.1966. SD1.S952  
Site classification.
- 95041 ENKOVA, E. I., EFIMOV, YU. P., and SHIRININ, V. K. Effect of phenological oak forms on quality of oak-type forests. (Rus) Les. Khoz. 6:25-29. June 1967. 99.8 L5622  
Yield tables.
- 95042 FURNIVAL, G. M. Computers and forest measurements. La. State Univ. Annu. Forest. Symp., 15th Annu. Symp.:64-70. 1966. 99.9 L935  
Includes discussion.
- 95043 GINGRICH, S. F. Measuring the growth of trees. La. State Univ. Annu. Forest. Symp., 15th Annu. Symp.:3-16. 1966. 99.9 L935  
Includes discussion.
- 95044 GOODCHILD, N. A. Reliability of methods of assessing tree height and spread. East Malling Res. Sta. Annu. Rep. Apr.1968:99-100. 103 Ea7  
Statistics, equipment, and aerial photography.
- 95045 GOOSSENS, R. The adjustment of the growth-and increment formulas from Backman in the case of missing data for the first years of growth. (Fl) Ghent. Rijksfac. Landbouwwetensch. Meded. 31(4):1171-1188. 1966. 105.1 G344  
English summary.  
*Populus euramericana*.
- 95046 GOOSSENS, R. Theoretical calculation of the systematic errors made during the determination of the basal area. (Fl) Ghent. Rijksfac. Landbouwwetensch. Meded. 31(4):1189-1207. 1966. 105.1 G344  
English summary.  
Trees.
- 95047 GORSKI, P. V. Study of dynamics and general productivity of forest stands. (Rus) Les. Khoz. 3:37-41. Mar.1967. 99.8 L5622
- 95048 GUNTER, J. E. An improved hook for altimeter targets. J. Forest. 65(12):908. Dec.1967. 99.8 F768
- 95049 HAGGSTROM, B. Practical use of site quality determination. (Sw) Sveriges Skogsvårdsförb. Tidskr. 64(6):593-594. Oct.1966. SD1.S952
- 95050 HALL, O. F. Planning the inventory to meet management needs. La. State Univ. Annu. Forest. Symp., 15th Annu. Symp.:105-120. 1966. 99.9 L935  
Includes discussion.
- 95051 HART, J. B., CUNNINGHAM, R. A., and LEAF, A. L. Photogrammetric determination of red pine [*Pinus resinosa*] terminal leader elongation. Forest Sci. 13(2):203-206. June 1967. 99.8 F7632
- 95052 HREN, V. Relation between the volume and height distribution of trees in pure beech stands of some forest communities in southwestern Croatia. (Se) Sumarski List 91(5/6):192-197. May/June 1967. 99.8 Su6  
German summary.
- 95053 HUTADJULU, S. P. Volume table for *Rhizophora mucronata* Linn. (In) Rimba Indonesia 12(1):57-63. Mar.1967. 99.8 R46  
English summary.
- 95054 JONES, E. P. Performance of some non-native pines—ponderosa [*Pinus ponderosa*], pitch [*Pinus rigida*], pinyon [*Pinus edulis*], Scotch [*Pinus sylvestris*], and Corsican [*Pinus nigra polretiana*]. Tree Planters' Notes 77:4-5. Aug. 1966. 1.962 C5T71  
Mensuration-survival studies.
- 95055 KARMAZIN, A. U. Helicopters used in aerial survey of forests, damaged by silkworm moths or burnt. (Rus) Les. Khoz. 3:35-37. Mar. 1967. 99.8 L5622
- 95056 KIM, D. C., and LEE, C. K. Preparation of a stem volume table for standing tree of Japanese larch (*Larix kaempferi* Seag.) (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 9(2):69-83. Ref. Dec.1966. 22.5 K843  
English summary.
- 95057 KIM, D. C., and YOO, J. K. Relation between d.b.h. [diameter at breast height] and diameter. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 9(2):43-50. Dec.1966. 22.5 K843  
English summary.
- 95058 KIM, D. C., LEE, H. K., and KIM, T. O. The report of the forest inventory by sampling methods. 2. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 9(2):29-41. Ref. Dec.1966. 22.5 K843  
English summary.
- 95059 KIM, D. C., and LEE, H. K. A study on the yield and growth of the Korean whitepine (*Pinus koraiensis* S. et z.). (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 9(2):1-19. Ref. Dec.1966. 22.5 K843  
English summary.
- 95060 KING, D. B. Station director reviews timber volume trends in North Central Region. Amer. Pulpwood Ass. Tech. Pap., Oct.1967:14-16. 99.9 Am33Te
- 95061 KOIVISTO, P. On the systematic error in basal area caused by digression from the survey line. Finland. Metsantutkimuslaitos. Julkaisuja 60(5), 11 p. 1966. 99.9 F493
- 95062 KORSUN, F. D. Methods of compilation of increment tables. (Rus) Les. Khoz. 6:49-50. June 1967. 99.8 L5622

- 95063 KURTH, A. A forestry state inventory as the basis of Swiss forestry policy. (Ge) Wald Holz 49(4):94-99. Dec.1967. 99.8 W14
- 95064 KUUSELA, K. A method for estimating the volume and taper curve of tree stem and for preparing volume functions and tables. Finland. Metsantutkimuslaitos. Julkaisuja 60(2), 18 p. 1966. 99.9 F493
- 95065 KWAN, W. Y. Possibility of using a multi-species local volume table to estimate the total volume in lowland dipterocarp forest. Malayan Forest. 29(4):259-267. Oct.1966. 99.8 M292
- 95066 LAZAREV, N. A., and NADUTKIN, V. D. Second growth and smallwood as basis of formation of new stands. (Rus) Les. Khoz. 6: 33-38. June 1967. 99.8 L5622  
Increment studies.
- 95067 LOUISIANA STATE UNIVERSITY. SCHOOL OF FORESTRY AND WILDLIFE MANAGEMENT. Measuring the southern forest; 15th annual forestry symposium, 1966, edited by T. D. Keister. Baton Rouge, 1966. 184 p. 99.9 L935  
Louisiana State University, School of Forestry, General Extension Div., cooperating.
- 95068 LUNDMARK, J. Influence of various site factors on forest site quality. (Sw) Sveriges Skogsvardsforb. Tidskr. 64(6):609-634. Oct.1966. SD1.S952
- 95069 MAGOMEDMIRZAEV, M. M. Some structural features of pine forests in Central Daghestan. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 2 (38):80-84. 1967. 442.8 N22
- 95070 MANABE, A. Methods for discriminating the height growth pattern by multivariate analysis and its application to soil study for Todo fir plantations. (Ja) Hokkaido. Forest Exp. Sta. Annu. Rep. 1965:81-106. Dec.1966. 99.9 J2724A  
English summary.  
Abies sachalinensis.
- 95071 MAWSON, J. C. Form-class volume tables for white pine in southern New England. Mass. Agr. Exp. Sta. Bull. 566, 20 p. Oct.1967. 100 M38H
- 95072 MAYER, H. Silvicultural interpretation of new results of yield informational studies on spruce (Ge) Allg. Forstzeitung 79(1):10-17. Ref. Jan. 1968. 99.8 AL53  
Statistical increment study.
- 95073 NEGI, G. S. The accuracy of basal area increment with increment borer. Indian Forest. 93(6):377-382. June 1967. 99.8 In2
- 95074 ŌSANAI, T. An application of the scaling method on the analysis of natural forest. (Ja) Hokkaido. Forest Exp. Sta. Annu. Rep. 1965: 107-135. Dec.1966. 99.9 J2724A  
English summary.  
Application of statistical methods.
- 95075 PARKIN, A. I. Is the IV category in forest inventory necessary? (Rus) Les. Khoz. 1:43-44. Jan.1967. 99.8 L5622
- 95076 POLYAKOVA, G. A., and IVANOVA, S. S. Growth of hazelnut trees in Moscow area. (Rus) Les. Khoz. 1:42-43. Jan.1967. 99.8 L5622  
As forest species, includes increment tables.
- 95077 RINFRET, R. Forest inventory. Pulp Pap. Mag. Can. 68(6):WR-278-WR-280. June 1967. 302.8 P96
- 95078 SAFAR, J. Functional formation of beech stands in Dinaric Alps. (Se) Sumarski List 91(5/6):198-204. May/June 1967. 99.8 Su6  
German summary.
- 95079 SANDRASEGARAN, K. Quantitative assessment of various crown parameters of single trees. Malayan Forest. 29(4):268-272. Oct.1966. 99.8 M292
- 95080 SHAVNIN, A. G. Determination of the age of spruce and fir trees by their morphological characteristics. (Rus) Les. Khoz. 3:33-35. Mar.1967. 99.8 L5622
- 95081 SHIKOV, K. On the question of determining the percentage of volume increment of spruce stems. (Bu) Gorskostopanska Nauk. 4(2):29-37. 1967. 99.8 G683  
German summary.
- 95082 SIMS, W. G., and BENSON, M. L. Color aerial photography in forest photo interpretation. Australian Forest Res. 2(2):43-48. 1966. 99.8 Au76
- 95083 SIMS, W. G. A comparison of color and black and white copies from aero film for purposes of interpretation. Australian Forest Res. 2(1):28-34. 1966. 99.8 Au76
- 95084 SMELKO, S. Possibilities of increasing accuracy and economy of forest mensuration. (Cz) Les [Bratislava] 22(8):360-366. 1966. 99.8 L5632
- 95085 SOEHARLAN, A. Preliminary stand table of Anthocephalus cadamba Miq. (In) Rimba Indonesia 12(1):37-46. Mar.1967. 99.8 R46  
English summary.
- 95086 STRATTON, K. G., and STRUCHTEMEYER, R. A. Evaluation of soil sites for white pine [Pinus strobus] in Maine. Maine. Agr. Exp. Sta. Tech. Bull. 32, 17 p., map. Apr.1968. 100 M28B
- 95087 SURANGGADJIWA, M. H. Inventory of teak and other industrial wood species. (In) Rimba Indonesia 12(1):18-36. Mar.1967. 99.8 R46  
English summary.
- 95088 SVALOV, N. N. Methods of compilation of site class tables. (Rus) Les. Khoz. 6:46-49. June 1967. 99.8 L5622
- 95089 SWINFORD, K. R. Plantation measurements. La. State Univ. Annu. Forest. Symp., 15th Annu. Symp.:136-162. 1966. 99.9 L935  
Statistical research methods.
- 95090 TADAKI, Y., OGATA, N., and NAGATOMO, Y. Studies on production structure of forest. XI. Primary productivities of 28-year-old plantations of Cryptomeria of cuttings and of seedlings origin. (Ja) Jap. Forest Exp. Sta. Bull. 199:47-65. Ref. Mar.1967. 99.8 R47  
English summary.  
Cryptomeria japonica.
- 95091 VERSTEEGH, P. J. D. Aerial photo interpretation and its application in tropical forest development. Indian Forest. 93(9):624-632. Sept.1967. 99.8 In2
- 95092 VUCHOVSKI, KH. Growth, structure and productivity of certain pure and mixed oak and oriental beech (Fagus orientalis Lipski) stands in the Strandja Mountain. (Bu) Gorskostopanska Nauk. 4(2):39-50. 1967. 99.8 G683  
Germany summary.  
In Bulgaria.
- 95093 VUOKILA, Y. Functions for variable density yield tables of pine based on temporary sample plots. Finland. Metsantutkimuslaitos. Julkaisuja 60(4), 86 p. Ref. 1966. 99.9 F493  
Pinus sylvestris.
- 95094 VYSKOT, M. Increment and development of young larch stands of different provenances. (Ge) Silvae Genet. 15(5/6):173-181. Ref. Sept./Dec.1966. 99.8 Z36  
English summary.  
Czechoslovakia.
- 95095 WARE, K. D. Measuring tree quality. La. State Univ. Annu. Forest. Symp., 15th Annu. Symp.:43-63. Ref. 1966. 99.9 L935  
Includes discussion.
- 95096 YASUI, H., and MORINAGA, J. A log volume table of Chamaecyparis obtusa by measuring the standing trees. (Ja) Shimane Agr. Coll. Bull. 15(A-2):9-14. Jan.1967. S539.J385  
English summary.

#### Policies and Programs

- 95097 AMMER, U. Tasks and goals of forestry branch developmental plans. (Ge) Forst-Holz wirt 22(18):369-372. Sept.23,1967. 99.8 F7724



- 95098 KOROLEV, V. K. Efficient utilization of forest resources of Karelia. (Rus) Les. Khoz. 2: 2-4. Feb.1967. 99.8 L5622 Policies.
- 95099 NIKOLAYUK, V. A. Urgent tasks of the second year of Five-Year Plan. (Rus) Les. Khoz. 1: 2-5. Jan.1967. 99.8 L5622 Forestry policies.
- RUBNER, H. Untersuchungen zur forstverfassung des mittelalterlichen Frankreichs [Investigations on forest conditions in medieval France. France]. Wiesbaden, 1965. 232 p.,map. (Vierteljahrsschrift für Sozial- und Wirtschaftsgeschichte. No. 49) SD615.R8 Bibliography, p.194-211. Policy.
- 95101 VOLF, M. The long-term planning in forestry. (Cz) Lesnicka Prace 45(5):198-200. May 1966. 99.8 L56

#### Legislation and Taxation

- 95102 CHONG, T. P. Revision of royalty rates. Malayan Forest. 29(4):254-258. Oct.1966. 99.8 M292
- 95103 GRENNAN, L. Thoughts about our forest taxation. (Sw) Skogsbruket 37(6):160-162. 1967. 99.8 Sk59
- 95104 NORDQUIST, M. Settling of the legal relations of the mining industry forests. (Sw) Sveriges Skogsvårdsförb. Tidskr. 64(5):451-460. Sept.1966. SD1.S952 Use of crown forests by the mining industry.
- 95105 ROSS, D. M. Farm trees and taxation. New Zeal. J. Agr. 115(2):103-104. Aug.1967. 23 N48J Farm woodland valuation New Zealand.
- 95106 RUTHERFORD, B. M. Trees and the law. Forester 8(3):1-9. Dec.1967. 99.8 F7635

#### FOREST PRODUCTS AND UTILIZATION

- 95107 ANDERSON, C. Quality or quantity? S. Afr. Forest. J. 61:7-10. June 1967. 99.9 So82 Forest products and forestry.
- 95108 BLUDOVSKY, Z. Prices of forest products under new system of management. (Cz) Lesnicka Prace 45(5):195-197. May 1966. 99.8 L56
- 95109 ELEKES, L., and TUSA, G. Price formulations of forestry and primary forest industrial products. (Hu) Faipar 17(7):205-213. July 1967. 99.82 F14
- 95110 EZRI, H. A. The timber buyer's slant. Ohio Woodlands 5(4):11-12. Aug./Oct.1967. 99.8 Oh34
- 95111 HALLGREN, A. R. Timber sales on State land. Minn. Sci. 24(2):22-23. Winter 1968. 100 M668
- 95112 HOSSFELD, R. L., and HAYGREEN, J. G. Forest product research for more complete utilization of Minnesota's wood resource. Minn. Sci. 23(3):40-41. Apr.1967. 100 M668
- 95113 JOHNSON, W. H. Utah's little known forest industries. Utah Sci. 28(2):70-74, map. June 1967. 100 Ut1F
- 95114 KUMAZAKI, M. Long term trends in wood consumption in Japan. Rural Econ. Probl. 4(1):56-74. Ref. Dec.1967. 281.28 R8822 Fuelwood, structural wood, pulpwood.
- 95115 KUMAZAKI, M. A survey of forestry economics. Price analysis of forest products. 2. (Ja) Forest Econ. 20(10):1-13. Oct.1967. 99.8 R474
- 95116 LANGE, O. Price development in poplar wood market in the last 8 years. (Ge) Holzzucht 21 (3/4):36. Oct.1967. 99.8 H743
- 95117 MAISENBACHER, H. Future marketing outlook of light and heavy conifer wood. (Ge) Forst- Holzwirt 22(19):406-408. Oct.8,1967. 99.8 F7724
- 95118 MCCracken, E. Timber for sale in the six counties, 1730-80. Forester 8(3):23-30. Dec.1967. 99.8 F7635

- 95119 MITCHELL, H. L. Profitable use of low-grade timber. Walnut Workshop. Papers 1966:72-76. aSD397.W3W3
- 95120 REHMAN, M. A. Planning for wood-based industries. Indian Forest. 93(9):646-648. Sept. 1967. 99.8 In2
- 95121 SCHULZE, W. About the question of scientific preparation-long range plans in the wood industry. (Ge) Holzindustrie 21(2):33-36. Feb.1968. 99.82 H742
- 95122 SEKOYAN, S. Growth of the woodworking industry in Armenia. U. S. Joint Publ. Res. Serv. Transl. USSR Consum. Goods Dom. Trade 191:25-27. Sept.1,1967. (JPRS 42,365; TT 67-32994) 173 J663Tro Translation from Kommunist, July 26,1967: 2. Issued by CFSTI.
- 95123 SKOK, R. A., and THOMPSON, R. D. Increasing forest marketing opportunities. Minn. Sci. 23(3):44-45. Apr.1967. 100 M668 Timber.
- 95124 SOTEC, L. C. Contributions to the problem for the reduction, by recirculation, of industrial water consumption in the wood industrialisation aggregate-works. (Rum) Hidroteh. Gospod. Apelor Meteorol. 12(5):252-254. May 1967. 345 M562 English summary, Suppl., p.3.
- 95125 SULENTIC, F. The objective evaluation of forest products as an important factor for the improvement of conditions in forestry. (Se) Drvna Indus. 18(6/7):87-96. June/July 1967. TS840.D7 German summary. Policies and marketing. --
- 95126 TAMOLANG, F. N. Spectrum of forest products research in the Philippines. Forest. Leaves 18(1/2):57-74. Ref. Feb.1967. 99.8 P532 Accomplishments of Forest Products Research Institute.

#### Lumbering and Logging

- 95127 ARVESEN, A. Transportation of logs with tractor. (No) Norsk Skogbruk 13(23/24):605-608. Dec.1967. 99.8 N815
- 95128 BAGAEV, N., and AIZENBERG, A. The latest in the mechanization of timber logging. (Rus) Les. Prom. 9:17-19. Sept.1967. 99.82 L56
- 95129 BANDT, W. The determination of physical key figures for full tree hauling of spruce. (Ge) Arch. Forstwesen 17(1):33-38. 1968. 99.8 AR22 English summary.
- 95130 BELYAEV, N. I. Wider applications of aerial methods. (Rus) Les. Prom 12:16-17. Dec.1967. 99.82 L56 Aerial photographic surveying for forest roads.
- 95131 BENDZ, M. Logging in the Amazon. (Sw) Skogen [Stockholm] 54(16):412-413. Aug.17, 1967. 99.8 Sk51 Includes forest industry in Peru.
- 95132 BJORKELL, B. The forest is a demanding place. (Sw) Skogsbruket 38(1):19-20. 1968. 99.8 Sk59 Chiefly logging and equipment.
- 95133 BJORKLUND, E. Drag in tree and branch skidding. (Sw) Skogen (Stockholm) 55(1):12-13. Jan.4,1968. 99.8 Sk51
- 95134 BOCHKAREV, V., and EREMIN, N. Full tree logging as method of preparation of forest site for future planting. (Rus) Les. Khoz. 1:66-68. Jan.1967. 99.8 L5622
- 95135 BROWN, B. A. Mechanized logging has impact on forest resources. Minn. Sci. 23(3):38-39. Apr.1967. 100 M668
- 95136 BRUUN, S. What is happening in the field of logging? (Sw) Lantmannen 78(20):15-16. Sept. 1967. 11 L234 Labor and mechanization in Sweden.

- 95137 CHAVASSE, C. G. R. Forest roads; standards, density, timing and costs. *New Zeal. J. Forest.* 12(2):125-144. Ref. 1967. 99.8 C162
- 95138 CHIRILA, A., and GEORGESCU, N. An imperative of the technical progress; teaching the construction of forest roads on the site. (*Rum*) *Rev. Padurilor* 82(6):314-316. June 1967. 99.8 R327
- 95139 CREQUER, P. C. Planning large-scale logging operations. *New Zeal. J. Forest.* 12(2):119-124. 1967. 99.8 C162
- 95140 DIDKOVSKAYA, L. M., MATVEEV, G. K., and PARFENOV, G. M. Increasing the productivity of skidding tractors. (*Rus*) *Les. Prom.* 9:6-8. Sept. 1967. 99.82 L56
- 95141 DUNAREANU, V., and PETRESCU, T. New methods in the standardization of labor productivity. (*Rum*) *Indus. Lemnului* 19(2):71-75. Feb. 1968. 99.82 In23
- 95142 EBELING, F. Thoughts around two cost-diagrams and some histograms. (*Sw*) *Skogen [Stockholm]* 54(23):590-591. Nov. 23, 1967. 99.8 Sk51  
Economic aspects of lumbering.
- 95143 ENGELS, J. D. The "parallax table"—a one-man method of checking grade line in forest road construction. *J. Forest.* 65(6):404-405. June 1967. 99.8 F768
- 95144 FISCHER, K. The application of cable-jacks in forestry. (*Ge*) *Lohnunternehmen Land-Forstwirtschaft.* 23(1):4-7. Jan. 1968. 58.8 D81  
Log hauling.
- 95145 GASPERSIC, F. Problems of the intensification in economies of private forests in the Postojna forest district. (*Sl*) *Soc. Kmetijstvo Gozdarstvo* 18(1):17-19. Jan. 20, 1967. 21.5 So14  
Chiefly logging.
- 95146 GORDIENKO, V. Our experience with introducing cable log transporting installations. (*Rus*) *Les. Prom.* 12:14-16. Dec. 1967. 99.82 L56
- 95147 GORDIENKO, V. A., MARCHENKO, N. D., and ZHAROV, V. I. Slash removal in mountain cutover forests. (*Rus*) *Les. Khoz.* 3:27-28. Mar. 1967. 99.8 L5622  
Work management of forest labor.
- 95148 GRIPENBERG, N. The distant transports of the private forestry of North-Sweden. (*Sw*) *Skogen [Stockholm]* 54(16):404-405. Aug. 17, 1967. 99.8 Sk51  
Transportation of lumber by water versus by truck.
- 95149 HAKKARAINEN, A. E., and NIKUNEN, A. Development of truck transport in 1957-67. (*Fi*) *Metsätaloudellinen Aikakauslehti* 84(9):255-258. Sept. 1967. 99.9 F49  
English summary.  
Log transportation.
- 95150 HEIKKERO, T. E. A forester's view on logging. (*Sw*) *Skogsbruket* 37(5):127-129, 140-143. 1967. 99.8 Sk59  
Logging costs in Finland.
- 95151 HORNCastle, D. C. Logging Research Associates' goals and accomplishments. *Amer. Pulpwood Ass. Tech. Pap.*, Oct. 1967:4-5. 99.9 Am33Te
- 95152 HORNE, A. R. A light portable ropeway system for timber extraction to suit South African conditions. *S. Afr. Forest J.* 65:5-11. 1967. 99.9 So82
- 95153 IONESCU, M. Forest roads and tourism in the Arges region. (*Rum*) *Rev. Padurilor* 82(10):526-530, map. Oct. 1967. 99.8 R327  
English summary.
- 95154 JACHWITZ, E. The development in the power saw market. (*No*) *Norsk Skogbruk* 13(17):41-42. Sept. 1967. 99.8 N815
- 95155 JACOB, W. Technological suggestions for removing of uprootings and stem breaks in wind damaged areas. (*Ge*) *Sozialistische Forstwirtschaft.* 17(6):187-189. June 1967. 99.8 W143
- 95156 JANKOWSKI, A. Primary transport; mechanized logging and forwarding wood from the stump. *Pulp Pap. Mag. Can.* Jan. 1968:75-78. 302.8 P96
- 95157 KARLSEN, K. What is the net income for butt logs? (*No*) *Norsk Landbruk* 2:11-13, 20. Jan. 26, 1968. 11 N8122  
Cost of logging and prices.
- 95158 KERRUISH, C. M. Loading long lengths. *Australian Timber J. Building Prod. Merchandiser* 33(9):32, 35-36, 38. (Cont.) Oct. 1967. 99.81 Au7
- 95159 KOCZWANSKI, S. Economy objects in forest slope roads. (*Pol*) *Sylvan* 111(8):23-33. 1967. 99.8 Sy52  
English summary.
- 95160 KOWALSKI, J. A new method of determination of the number of surveys of the working day at studying the worktime of chain saws. (*Pol*) *Sylvan* 111(8):35-40. 1967. 99.8 Sy52  
English summary.
- 95161 KREUTZINGER, M., and MATUSZ, S. Metoda obalania drzew wraz z korzeniami i jej znaczenie dla kompleksowej mechanizacji prac przy odnowieniu i pielęgnowaniu lasu [Tree uprooting experiments and its importance for complex work mechanization in regeneration and care of forest]. (*Pol*) *Warsaw. Inst. Badawczy Lesnictwa Prace* 343, 74 p. Ref. 1967. 99.9 W263  
German summary.
- 95162 LARSSON, A. Power saws and noise injuries. (*Sw*) *Skogen* 54(17):426-427. Aug. 31, 1967. 99.8 SK51
- 95163 LAWRENCE, D., and DYSON, P. J. Estimating logging cost based on rate of output. *Ga. Forest Res. Council. Ga. Forest Res. Pap.* 48, 5 p. Sept. 1967. 99.9 G299G
- 95164 LOHMAN, T. An industrial engineer looks at mechanized pulpwood harvesting. *Amer. Pulpwood Ass. Tech. Pap.*, Oct. 1967:11-12. 99.9 Am33Te
- 95165 MALAKHOV, I. P. Large-scale log loading in successive fellings. (*Rus*) *Les. Prom.* 12:11. Dec. 1967. 99.82 L56
- 95166 MARCHENKO, N. D., KONONENKO, M. P., and LAZDAN, V. S. Effect of hauling tractor wheels on damage of young growth and soils. (*Rus*) *Les. Khoz.* 6:61-63. June 1967. 99.8 L5622  
Effect on soil structure.
- 95167 MARTYN, H. S. Wood harvesting, logging and transport in Sabah. *Malayan Forest.* 29(4):296-301. Oct. 1966. 99.8 M292
- 95168 MASCHER, R. Use of horses in hauling by farm contractor. (*Ge*) *Forst- Holzwirt* 22(17):350-353. Sept. 8, 1967. 99.8 F7724
- 95169 MIKHOVICH, A. I. Felling of trees by the roots in preparing route lines of drainage canals. (*Rus*) *Lesovod. Agrolesomeliar.* 11:59-60. 1967. SD1.L44
- 95170 MOROSANU, D. V., RADULESCU, H., and STANESCU, D. Forest roads and the development of tourism. (*Rum*) *Rev. Padurilor* 82(10):531-542, map. Oct. 1967. 99.8 R327
- 95171 MUSHTA, V., LAPTEV, B., and GRIGOR'YANTS, R. Machinery for mechanization of loading-unloading and transportation works. (*Rus*) *Les. Khoz.* 2:60-61. Feb. 1967. 99.8 L5622  
Logs.
- 95172 OCKLIND, S. Road transports. (*Sw*) *Skogen [Stockholm]* 54(16):398-401, 420. Aug. 17, 1967. 99.8 Sk51  
Transportation of logs by trucks.
- 95173 OEHLCKER, H. Horse rearing and wood hauling. (*Ge*) *Forst- Holzwirt* 22(17):353-355. Ref. Sept. 8, 1967. 99.8 F7724
- 95174 OPRITA, V., and PORIRNICHE, Z. The economic efficiency of the mechanization of forest roads construction expressed by the degree of complex mechanization of works performed. (*Rum*) *Rev. Padurilor* 83(1):34-39. Jan. 1968. 99.8 R327
- 95175 PIEST, K. H. Principles of forest accessibility with emphasis on modern hauling technique. (*Ge*) *Forst- Holzwirt* 22(19):408-412. Oct. 8, 1967. 99.8 F7724  
Roads.



- 95176 PONIECKI, W. Remarks on the problem of compensation for accidents during work. (Pol) *Las Polski* 41(11):14-15. Dec.1/15,1967. 99.8 L33  
Logging.
- 95177 RAILWAY TIE ASSOCIATION. COMMITTEE ON TIMBER RESOURCES. Report; changes in lumber industry situation. *Cross Tie Bull.* 49(1):26-28,37. Jan.1968. 99.82 C87
- 95178 RAMANAUSKAS, R. P. Analysis of hauling equipment. (Rus) *Les. Khoz.* 2:54-58. Feb. 1967. 99.8 L5622  
Operation.
- 95179 ROSKO, P. Why is the hauling of logs by cables insufficiently utilized in logging. (Cz) *Les [Bratislava]* 22(8):348-350. 1966. 99.8 L5632
- 95180 SAKURAI, T., NAKAMURA, S., and TAKAHASHI, A. On the mechanical vibration of chain saw. (Ja) *Shimane Agr. Coll. Bull.* 15(A-2):28-33. Jan.1967. S539J35  
English summary.
- 95181 SAMSET, I., and STROMNES, R. Results from the tree cutting investigation 1965. (No) *Norsk Skogbruk* 13(23/24):595-603, map. Dec.1967. 99.8 N815  
Tree cutting systems, time consumption and labor wages.
- 95182 SCHIRMER, R. Economical use of horses in wood hauling. (Ge) *Forst- Holzwirt* 22(17):355-360. Sept.8,1967. 99.8 F7724
- 95183 SCHLEICHER, H. Wood hauling with horses; experiences and suggestions. (Ge) *Forst- Holzwirt* 22(17):349. Sept.8,1967. 99.8 F7724
- 95184 SEDIVY, K. Forest roads from the point of view of principles of the new system of management. (Cz) *Lesnicka Prace* 45(5):200-202. May 1966. 99.8 L56
- 95185 SHCHERBAKOV, A. I. Mechanical clamp cranes for log loading. (Rus) *Les. Prom.* 9:22-24. Sept.1967. 99.82 L56
- 95186 SKAAR, R. Preliminary results from experiments with tractor transported whole logs. (No) *Norsk Skogbruk* 13(23/24):615-617,619,621,623. Dec.1967. 99.8 N815
- 95187 SOLBERG, P. Bogie-system for the trailer. (No) *Norsk Landbruk* 12:18-21. June 16,1967. 11 N8122  
Tractor trailers with free-moving wheels in log transportation.
- 95188 SSORIN, V. A. Calculation of forest utilization for long-term planning. (Rus) *Les. Khoz.* 3:15-20. Mar.1967. 99.8 L5622  
Economic aspects of logging.
- 95189 STUPNEV, G. K., and MOZHAEV, D. V. Attention to cable hauling. (Rus) *Les. Prom.* 12:12-14. Dec.1967. 99.82 L56
- 95190 SVENDA, A. Intermediate felling as a problem of years to come. (Cz) *Lesnicka Prace* 45(5):203-207. May 1966. 99.8 L56
- 95191 TOLOKONNIKOV, V. B. Efficient utilization of forest resources in Moscow Region. (Rus) *Les. Khoz.* 6:69-71. June 1967. 99.8 L5622  
Logging.
- 95192 VERNER, V., and USANOV, YU. Scientific labor organization plans in lumbering operations. (Rus) *Les. Prom.* 9:27-28. Sept.1967. 99.82 L56
- 95193 VINCENT, A. B., and HAAVISTO, V. F. Logging damage to black spruce and balsam fir reproduction. *Pulp Pap. Mag. Can.* 68(6):WR-283,WR-286,WR-293. June 1967. 302.8 P96
- 95194 WECKSTEN, P. The need for roads in the forest. (Sw) *Skogsbruken* 37(12):310-312. 1967. 99.8 Sk59  
Log transportation by truck in Finland.
- 95195 WESTERBERG, I. Forest management in north and south. (Sw) *Lantmannen* 78(20):20-21. Sept.1967. 11 L234  
Logging methods in Sweden.
- 95196 WIKLUND, M. Forces and injuries when felling and cutting. (Sw) *Skogen (Stockholm)* 54(22):568-569. Nov.9,1967. 99.8 SK51  
Logging equipment and tree injuries.
- 95197 ZILENKOV, N. The organization and execution of works in the construction and maintenance of forest truck roads. (Se) *Sumar. Glas.* 11(9-12):235-262. (Cont.) 1966. SD1.S92

## Sawmills

- 95198 ALEXANDRU, S., and others. Blade tensioning in band saws used in the lumber industry. 8 p. Transl. 16888  
Translation from *Industria Lemnului* 17(6):221-225. 1966.
- 95199 AUSTRALIA. BUR. OF CENSUS AND STATISTICS. Manufacturing industries 1965-66. No. 27, Sawmilling. Canberra, 1968. 17 p. 271 Au72Ma
- 95200 AUSTRALIA. FORESTRY AND TIMBER BUR. TIMBER SUPPLY ECONOMICS BR. Chain saw catalogue. Australian Timber J. Building Prod. Merchandiser 33(9):41,43,45,49. Oct. 1967. 99.81 Au7
- 95201 KATO, H. Sawmill industries of American timber at Shimizu, Osaka, and Nagoya. (Ja) *Forest Econ.* 20(10):28-30. Oct.1967. 99.8 R474
- 95202 KOO, L. K. The future of the sawmilling and plywood industries in west Malaysia. *Malayan Forest.* 29(4):245-250. Oct.1966. 99.8 M292
- 95203 KRONIS, H., and HOLDER, D. A. Drum barker effluent - its characterization and treatment. *Pulp Pap. Mag. Can.* Feb.2,1968:62-67. 302.8 P96
- 95204 MCKILLOP, W., and HOYER-NIELSEN, S. Production and inventory planning in lumber manufacturing. *Calif. Agr. Exp. Sta. Bull.* 837,32 p. Mar.1968. 100 C12S  
Cost and return factors of sawmill management.
- 95205 NESTERENKO, V. G. Power cutting of knots. (Rus) *Les. Prom.* 9:8-10. Sept.1967. 99.82 L56
- 95206 PAHLITZSCH, G., and ROWINSKI, B. On the vibration behaviour of circular sawblades. III. (Ge) *Holz Roh- Werkstoff* 25(9):348-357. Sept.1967. 99.81 H74  
English summary.
- 95207 SMITH, H. D., and BURNETT, J. O. Market structure of the sawmill industry in the handling of forest products in Maryland. *Md. Agr. Exp. Sta. Misc. Publ.* 645,19 p. Apr.1968. 100 M36M
- 95208 SZABO, K. Application of mathematical method in the sawmill industry for programming production. (Hu) *Faipar* 17(6):174-180. June 1967. 99.82 F14
- 95209 WERNER, H. The hard metal circular saw-differing successes upon its application. I. (Ge) *Holzindustrie* 21(2):42-43. Feb.1968. 99.82 H742
- 95210 YAMAGUCHI, K. Electroarc depositing of hard metal on saw tooth. (Ja) *Jap. Forest Exp. Sta. Bull.* 200:213-226. Mar.1967. 99.8 R47  
English summary.  
Chiefly band-sawing of *Pinus densiflora*.

## Processing and Woodworking

- 95211 BONOAN, L. S. Wood plastic combinations. *Forest. Leaves* 18(1/2):54-56. Feb.1967. 99.8 P532
- 95212 CASIN, R. F. Chemical treatment minimizes the cracking of wood carvings. *TDA (Timber Develop. Ass.) India J.* 13(2):16-19. Apr.1967. 300.9 T48J  
With polyethylene glycol.
- 95213 FERNEA, V. Study of the loading degree of lumber processing and handling equipment by means of instantaneous observation. (Rum) *Indus. Lemnului* 19(1):1-6. Jan.1968. 99.82 In23  
English summary.

- 95214 QUIRK, J. T., BLOMQUIST, R. F., and KOZ-  
LOWSKI, T. T. Transverse bonding of slash  
pine [*Pinus elliottii*] joints. Forest Prod. J.  
17(12):40-42. Dec.1967. 99.9 F7662J
- 95215 SCHYMALA, J. Carpentry work. (Pol) Bu-  
downictwo Wiejskie 19(10):14-16. Oct.1967.  
196.8 B85
- 95216 TAKAGI, J. Study on treated wood with synthet-  
ic resin. Relation between concentration of res-  
in solution used for impregnation and resin  
content in treated wood, and effect of treatment  
on abrasion resistance and hardness. (Ja)  
Jap. Forest Exp. Sta. Bull. 200:121-129. Mar.  
1967. 99.8 R47  
English summary.  
*Fagus crenata*.
- 95217 WACKER, H. Modern planing mills. (Ge)  
Holz Roh- Werkstoff 25(9):329-348. Ref.  
Sept.1967. 99.81 H74  
English summary.

#### Seasoning, Conditioning, and Finishing

- 95218 AMEMIYA, S., and INOUE, M. Research on  
wood preserving treatment. 10. Drying of pre-  
servative treated hemlock timbers by steaming.  
(Ja) Jap. Forest Exp. Sta. Bull. 200:131-154.  
Ref. Mar.1967. 99.8 R47  
English summary.
- 95219 ASHTON, H. E. Clear finishes for exterior  
wood. J. Paint Technol. 39(507):212-224.  
Apr.1967. 306.9 F31  
Field exposure tests.
- 95220 BANEILA, M. A two disk finishing equipment.  
(Rum) Indus. Lemnului 19(1):19-20. Jan.1968.  
99.82 In23
- 95221 CHRISTENSEN, F. J., and BARNACLE, J. E.  
Kiln drying of *Pinus radiata* poles and posts.  
CSIRO (Commonwealth Sci. Indus. Res. Organ.)  
Forest Prod. Newslett. 342:1-3. July 1967.  
99.9 Au722F
- 95222 MIHUT, I., and RUSU, I. The drying of lumber  
sawn in elements. (Rum) Indus. Lemnului 19  
(1):6-9. Jan.1968. 99.82 In23
- 95223 POUND, J. Practical RF heating. Wood [Lon-  
don] 32(11):32-34. Nov.1967. 99.82 W855
- 95224 SEBREE, K. G. Wood floors finished for beauty.  
Ky. Univ. Ext. H.E. 4-203 B, rev., 5 p. Apr.  
1968. 275.29 K415H
- 95232 JONES, D. S. The relationship between blue-  
stain dips and fruit burning in Queensland.  
Australian Timber J. Building Prod. Merchan-  
diser 33(4/5):103-104. May/June 1967.  
99.81 Au7  
Effect of sodium pentachlorophenate treated  
softwood timber containers on fruit.
- 95233 PANDE, J. N., and JAIN, J. K. A preliminary  
note on the penetration and absorption of nor-  
mal creosote and low-temperature coal-tar  
creosote in different species of timber under  
different processes. TDA (Timber Develop.  
Ass.) India J. 13(2):9-15. Apr.1967.  
300.9 T48J
- 95234 ROONWAL, M. L. Wood-boring teredinid  
shipworms (Mollusca) of mangroves in the  
sunderbans (West Bengal). Symp. Sci. Probl.  
Humid Trop. Zone Deltas Implications. Proc.  
1966:277-283, map. Ref. GB1205.S3
- 95235 SCHEFFER, T. C., and CLARK, J. W. On-site  
preservative treatments for exterior wood of  
buildings. Forest Prod. J. 17(12):21-29. Dec.  
1967. 99.9 F7662J  
With pentachlorophenol.
- 95236 SHIRIBAN, F. R. Economic perspective of  
preserved wood. Forest. Leaves 18(1/2):35-  
38. Feb.1967. 99.8 P532  
In Philippines.
- 95237 SLOCOMB, J. T. Wood preserving industry--  
a brief history. Cross Tie Bull. 48(9):13-14,  
16-17. Sept.1967. 99.82 C87
- 95238 SMITH, D. N., and COCKCROFT, R. The re-  
medial treatment of telephone and electric  
transmission poles. 3. Treatment of internal  
decay. Wood [London] 32(11):29-31. Ref.  
Nov.1967. 99.82 W855  
Sodium fluoride control of *Lentinus lepi-  
deus*.
- 95239 TSYLYURYK, A. B. Resistance of wood in  
green-bark and dark-bark forms of aspen to  
the false spunk (*Phellinus tremulae* Bond. et  
Boriss.) under artificial conditions. (Rus) Ukr.  
Bot. Zh. 25(1):29-34. Ref. 1968. 450 J821J  
English summary.
- 95240 VERRALL, A. F. *Poria incrassata* rot; pre-  
vention and control in buildings. U. S. D. A.  
Tech. Bull. 1385.27 p. Ref. 1968. 1 A84Te
- 95241 VICK, C. B., GABY, L. L., and BAECHLER,  
R. H. Treatment of hardwood fence posts by  
the double-diffusion process. Forest Prod. J.  
17(12):33-35. Dec.1967. 99.9 F7662J

#### Wood Preservation and Damage

- 95225 BECKER, H. The protection of wooden cooling  
towers. (Ge) Seifen-Ole-Fette-Wachse 94(3):  
71-74. (Cont.) Jan.31,1968. 307.8 Se4  
English summary.
- 95226 BECKER, H. Wood protection and health prob-  
lems (a literature review). (Ge) Seifen-Ole-  
Fette-Wachse 93(11):363-367. May 24,1967.  
307.8 Se4
- 95227 BEESLEY, J. Marine borer tests with pres-  
sure-treated timber. CSIRO (Commonwealth  
Sci. Indus. Res. Organ.) Forest Prod. Newslett.  
341:1-3. June 1967. 99.9 Au722F
- 95228 BORS, J., and GLUBRECHT, H. Investigations  
on radiation resistance of wood-destroying  
fungi. (Ge) Holzforschung 21(5):129-135.  
Ref. Oct.1967. 99.8 H74  
English summary.  
*Merulius lacrymans* and *Coniophora cere-  
bella* studied.
- 95229 CHRISTIANSEN, E. Striped ambrosia beetle  
[*Trypodendron lineatum*]; winter cut lumber is  
strongest attacked. (No) Skogeieren 11:21,45.  
Nov.1967. 99.81 SK5
- 95230 DURST, J. Wood preservative agent in building.  
(Ge) Der praktische Schaedlingsbekaempfer  
19(10):129-133. Oct.1967. 421 P882
- 95231 JOHNSTONE, R. S. Pre-steaming an aid to  
pressure preservation of green radiata [*Pinus  
radiata*] pine. Australian Timber J. Building  
Prod. Merchandiser 33(9):95,97,99-100. Ref.  
Oct.1967. 99.81 Au7
- 95242 BREITHAUPT, G., and MUECKE, W. Research  
in utilization of broadleaf cordwood sorts which  
are difficult to sell. (Ge) Holzindustrie 21(1):  
11-14. Jan.1968. 99.82 H742
- 95243 BUDNIAK, F., and WALKOWIAK, M. Initial  
data necessary for programming lumber pro-  
duction. (Pol) Przem. Drzewny 19(1):1-2.  
Jan.1968. 99.82 P95
- 95244 CHRISTOPHER, J. F., and GUTTENBERG, S.  
Timber conversion factors and economic  
break-even points. Amer. Pulpwood Ass.  
Tech. Pap., Oct.1967:21-23. 99.9 Am33Te
- 95245 FREEMAN, E. E. Quality requirements for  
sawlogs. Walnut Workshop. Papers 1966:68-71.  
aSD397.W3W3
- 95246 GARCIA, J. J. M. Moisture content changes in  
*Eucalyptus viminalis* logs. 9 p. Transl. 16855  
Translation from Argentina. Administracion  
Nacional de Bosques. Direccion de Investiga-  
ciones Forestales. Notas Tecnologicas Fore-  
stales No. 20. 1962.
- 95247 GATEWOOD, E. H. Log supplies for the future.  
Walnut Workshop Papers 1966:4-5.  
aSD397.W3W3  
Synopsis of the banquet address.
- 95248 GRGURIC, S. The economic and historic devel-  
opment of lumber industry in Croatia. (Se)  
Drvna Indus. 18(6/7):71-86. Ref. June/July  
1967. TS840.D7  
French summary.



- 95249 GRONKVIST, A. Receiving shipments and measurement in U. S. A. (Sw) Skogen 54(17): 432-435. Aug.31,1967. 99.8 SK51  
By sawmills and pulp factories.
- 95250 HEINRICHS. Mine timber utilization in the German bituminous coal mining and prospects. (Ge) Forst- Holzwirt 22(12):262,264. (Condensed) June 23,1967. 99.8 F7724
- 95251 HUTCHESON, T. B. Merger & cross ties. Cross Tie Bull. 48(11):38,4-44. Nov.1967. 99.82 C87  
Industry.
- 95252 JANSSEN, T. The abandonment of railroad lines increases the cost of log transportation. (Sw) Jord Skog 19(6):16-19. 1967. 58.8 M373
- 95253 KISLYI, V. V. The sawing of larch wood. (Rus) Les. Prom. 12:28-29. Dec.1967. 99.82 L56
- 95254 KUBIS, T. An attempt of developing the method for determining costs involved in the transport of sawlogs from the raw material base to the sawmill. (Pol) Przem. Drzewny 19(1):3. Jan. 1968. 99.82 P95
- 95255 MAGEE, G. M. Third progress report of co-operative research on wood ties of the Railway Tie Association and the AAR [Association of American Railroads] Research Center. Cross Tie Bull. 48(11):48-53. Nov.1967. 99.82 C87
- 95256 MILANOVIC, B. The supply of the population in FR Bosnia and Herzegovina with fuel-wood from national forests. (Se) Sumar. Glas. 11(9-12):193-215. (Cont.) 1966. SD1.S92
- 95257 MILLER, I. M. The role of the A.W.P.A. [American Wood Preservers' Association] in cross tie manufacture and preservative treatment. Cross Tie Bull. 49(2):9-12. Feb.1968. 99.82 C87
- 95258 MONCK, W. Design, construction and technology of glued wood support. (Ge) Holzindustrie 21(2):39-42. Feb.1968. 99.82 H742
- 95259 NOREEN, P. A., and HUGHES, J. M. Some economic guides for alternative uses of aspen [Populus tremuloides and P. grandidentata] logs. Minn. Agr. Exp. Sta. Tech. Bull. (ser.3) 260,19 p. Ref. June 1968. 100 M66
- 95260 OPRISAN, M., and VADUVA, I. The application of statistical control of the quality of lumber sawn in sawmills. (Rum) Indus. Lemnului 19(2): 41-47. Feb.1968. 99.82 In23  
English summary.
- 95261 ORESKOVIC, M. The economics of the production of standardized poplar sawmilling products. (Se) Drvna Indus. 18(6/7):97-99. June/July 1967. TS840.D7  
German summary.
- 95262 PHILIPPINE LUMBER PRODUCERS' ASSOCIATION. Annual report. Lumberman [Manila] 13(5):16,18,20,22,24. May 1967. 99.81 L9793
- 95263 RAILWAY TIE ASSOCIATION, COMMITTEE ON RESEARCH AND PRODUCT DEVELOPMENT. Report. Cross Tie Bull. 49(2):31-32. Feb.1968. 99.82 C87
- 95264 ROOSEN, J. Trials of mine timbers. (Fr) Bull. Rech. Agron. Gembloux 2(2):294-354. 1967. S5.B8  
Mechanical properties.
- 95265 SENFT, J. F., and SUDDARTH, S. K. Critical shear stress in light framing lumber. Forest Prod. J. 17(12):48-49. Dec.1967. 99.9 F7662J
- 95266 SKJELMERUD, H. Changes in the design and the extent of the lumber industry. (No) Norsk Skogbruk 13(17):65-69. Sept.1967. 99.8 N815  
Includes lumber marketing in Norway.
- 95267 STERN, E. G. Observations in Poland during 1967. Cross Tie Bull. 48(11):28-30,32. Nov. 1967. 99.82 C87  
Railway ties in Poland and Germany.
- 95268 SVEEN, F. The effect of the new lumber prices on Nordmore. (No) Skogeieren 11:31. Nov.1967. 99.81 SK5
- 95269 TAKAHASHI, A., and SAKURAI, T. The relationship between span-depth ratio and bending characters of wood beams. (Ja) Shimane Agr. Coll. Bull. 15(A-2):34-40. Ref. Jan.1967. S539.J3S5  
English summary.
- 95270 TONE, M., and EMANOIL, C. Study of the international standardization of dimensions of sawn conifer lumber. (Rum) Indus. Lemnului 19(2):47-51. Feb.1968. 99.82 In23  
English summary.
- 95271 VASIL'EV, G., and SHALAVIN, V. Work intensification of semi-automatic lines for cross-cutting logs. (Rus) Les. Prom. 9:19-20. Sept. 1967. 99.82 L56
- 95272 WINKELMANN, H. G. Current marketing and forestry problems. (Ge) Wald Holz 49(3):58-64. Nov.1967. 99.8 W14
- Construction
- 95273 CHIRILA, A., and GEORGESCU, N. The bark of trees as materials in the construction of buildings. (Rum) Rev. Padurilor 83(1):40-42. Jan. 1968. 99.8 R327
- 95274 EGNER, K., JAGFELD, P., and KOLB, H. Experiments on the use of finger joints in window frames. 21 p. Transl. 16869  
Translation from Berichte aus der Bauforschung 47:24-55. 1966.
- 95275 FRANCIS, C. R. Why some engineers avoid using timber. New Zeal. Timber J. 14(3):37. Nov.1,1967. 99.81 N482
- 95276 PETRI, L. Some economical and technical problems in the utilization of the increased native raw material supply. (Hu) Faipar 17 (9):261-267. Sept.1967. 99.82 F14  
Constructional use of lumber.
- 95277 SIOPONGCO, J. O., and RAMOS, A. N. Proper use of wood in house construction. Forest. Leaves 18(1/2):11-15. Feb.1967. 99.8 P532  
In Philippines.
- Veneers, Plywood, and Adhesives
- 95278 BALLOUX, M. The continuous drying of peeled veneer leaves. (Fr) Bois Forests Trop. 112: 53-56. Mar./Apr.1967. 99.8 B632  
English summary.
- 95279 FUJITA, S., and GOTO, T. On the physical properties of heat - and radiation-polymerized wood-plastic combinations. (Ja) Shimane Agr. Coll. Bull. 15(A-2):41-51. Ref. Jan.1967. S539.J3S5  
English summary.
- 95280 GEORGE, V. Painted plywood gets the radiation treatment. Woodworking Dig. 69(11):43-44. Nov.1967. 99.82 W87
- 95281 GOTO, T., SAKUNO, T., and ONISHI, H. Studies of wood gluing. I. On the gluability of tropical woods (Part 1). (Ja) Shimane Agr. Coll. Bull. 15(A-2):53-60. Jan.1967. S539.J3S5  
English summary.
- 95282 GUTTENBERG, S. Veneer yields from southern pine bolts. Forest Prod. J. 17(12):30-32. Dec.1967. 99.9 F7662J
- 95283 HAYASHI, D., and TOCHIGI, T. Effects of nosebar shape in veneer cutting. I. Force analysis during the orthogonal cutting process. (Ja) Wood Indus. 22(12):14-18. 1967. 99.82 M72  
English summary.
- 95284 MANZO, P. M. Research on veneer and lumber gluing at FPRI [Forest Products Research Institute]. Lumberman [Manila] 13(8):34-35, 39. Aug.1967. 99.81 L9793
- 95285 MATHERS, R. Quality requirements for veneer. Walnut Workshop. Papers 1966:66-67. ASD397.W3W3

- 95286 MORIYA, K., NISHIHARA, M., and SUGANO, M. Studies on laminated wood. XII. Gluing faculties of laminated decorative wood glued with various kinds of adhesives. (Ja) Jap. Forest Exp. Sta. Bull. 200:69-80. Mar.1967. 99.8 R47  
English summary.  
Testing urea resin adhesives.
- 95287 NISHIHARA, M., MORIYA, K., and SUGANO, M. Studies on laminated wood. XI. Test methods of gluing faculties of laminated decorative wood. (Ja) Jap. Forest Exp. Sta. Bull. 200:57-68. Mar.1967. 99.8 R47  
English summary.
- 95288 SHINOHARA, T., GOTO, T., and SAKUNO, T. Studies of wood gluing. II. Microscopic observation of glue line in tropical woods glued with phenol-formaldehyde resin adhesive. (Preliminary report). (Ja) Shimane Agr. Coll. Bull. 15(A-2):61-67. Jan.1967. S539.J3S5  
English summary.
- 95289 SUGANO, M., NISHIHARA, M., and MORIYA, K. Studies on laminated wood. XIII. Gluing faculties of laminated decorative woods produced by several manufactures. (Ja) Jap. Forest Exp. Sta. Bull. 200:81-91. Mar.1967. 99.8 R47  
English summary.
- 95290 U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. List of publications on glue, glued products, and veneer. Madison, 1968. 32 p. A241.4 F762Fo
- Furniture
- 95291 ECKELMAN, C. A., and GOODRICK, F. E. Computer analysis of member stresses in chair side frames. Ind. Agr. Exp. Sta. Res. Progr. Rep. 325,11 p. Jan.1968. 100 In2Res
- Containers
- 95292 HAUSHOFER, H., and RETHALLER, A. Results of tests to determine the suitability of the wood impregnating agent "Wolmanit m" for preserving the outsides of wooden casks. (Ge) Klosterneuburg. Hoheren Bundeslehr- Versuchsanst. Wein- Obstbau. Mitt. 16(1):35-39. Jan.1966. 105.9 K696  
English summary.  
For wine.
- Pulp and Paper
- 95293 AMERICAN PULPWOOD ASSOCIATION. LAKE STATES TECHNICAL DIV. Meeting held June 8, 1967, at Houghton, Michigan. Amer. Pulpwood Ass. Tech. Pap., Oct.1967:14-16, 18-21. 99.9 Am33Te  
Selected papers presented.
- 95294 AMERICAN PULPWOOD ASSOCIATION. NORTHEASTERN TECHNICAL DIV. Meeting held May 11, 1967, at North Conway, N. H. Amer. Pulpwood Ass. Tech. Pap., Oct.1967:3-14. 99.9 Am33Te  
Selected papers presented.
- 95295 AMERICAN PULPWOOD ASSOCIATION. SOUTHWESTERN TECHNICAL DIV. Meeting held May 24, 1967, at Baton Rouge, Louisiana. Amer. Pulpwood Ass. Tech. Pap., Oct.1967:21-26. 99.9 Am33Te  
Selected papers presented.
- 95296 ARMSTRONG, D. B. The history of paper, pulpwood production and future pulpwood requirements. Amer. Paper Indus. 49(6):66-69, 73. Ref. June 1967. 302.8 P1923
- 95297 BALODIS, V. Electrokinetic properties of fibre surfaces. Appita Australian Pulp Pap. Indus. Tech. Ass. 21(3):96-103. Ref. Nov. 1967. 302.8 Au7  
Pulp.
- 95298 BELOVA, T. A., and LASKEEV, P. KH. White wood pulp from pine. (Rus) Bum. Prom. 5:7-9. May 1967. 302.8 B88  
English summary.  
Groundwood pulp production.
- 95299 BESLEY, L. Crystal balling future of pulp and paper industry. Amer. Pulpwood Ass. Tech. Pap., Oct.1967:5-9. 99.9 Am33Te
- 95300 CABOTAGE-SALUD, E., and NICOLAS, P. M. Dissolving pulps from Kaatoan bangkal (Anthocephalus cadamba Mig., Rub.). Lumberman [Manila] 13(8):10,12,14,16. Aug.1967. 99.81 L9793
- 95301 CHAWLA, J. S., SHARMA, A., and KRISHNASWAMI, S. P. High alpha cellulose pulp from poplar [Populus ciliata, P. alba, and P. nigra]. Indian Pulp Pap. 22(4):263-265. Oct.1967. 302.8 In23
- 95302 CHRISTENSEN, P. K. Bleaching of very-high-yield sulphite pulp. Pulp Pap. Mag. Can. Jan.1968:64-68. Ref. 302.8 P96
- 95303 ELDER, R. A., JOB, J. G., and PEARSON, A. J. The production of eucalypt groundwood from impregnated billets (G.I.B. process). Appita Australian Pulp Pap. Indus. Tech. Ass. 21(3):60-70. Ref. Nov.1967. 302.8 Au7
- 95304 ELIASHBERG, M. G. Cooking of sulfite pulps with acid containing ammonium base. (Rus) Bum. Prom. 2:23-24. Feb.1967. 302.8 B88
- 95305 FISCHGOLD, S., and NICOLAIC, S. Bleaching the pulp with a 52% yield after boiling. (Rum) Celul. Hirtie 15(9):329-333. Sept.1966. 309.8 C334  
English summary, sup., p.2.
- 95306 FLEURY, R. A., and RAPSON, W. H. Characterization of chromophoric groups in groundwood and lignin model compounds by reaction with specific reducing agents. Pulp Pap. Mag. Can. 69(6):62-68. Ref. Mar.15,1968. 302.8 P96
- 95307 GOYAL, A. K. Guar gum in paper industry. Indian Pulp Pap. 22(4):237,241. Oct.1967. 302.8 In23  
Galactomannans in India.
- 95308 GROMOV, V. S., and ANDABURSKII, S. I. Effect of organic acids on cooking of sulfite pulp. (Rus) Bum. Prom. 2:16-18. Feb.1967. 302.8 B88
- 95309 GUHA, S. R. D., and others. Chemical semi-chemical and mechanical pulps from Eucalyptus grandis. Indian Forest. 93(6):360-372. June 1967. 99.8 In2  
S. N. Dhoundiyal, R. Nath, G. M. Mathur, and Y. K. Sharma, joint authors.
- 95310 HIGGINS, H. G. The pulp and paper industry. CSIRO (Commonwealth Sci. Indus. Res. Organ.) Forest Prod. Newslett. 347:1-3. Dec.1967. 99.9 Au722F
- 95311 HIGGINS, H. G., MITCHELL, A. J., and WATSON, A. J. Some basic aspects of NSSC [neutral sulphite semi-chemical pulping]. Appita (Australian Pulp Pap. Indus. Tech. Ass.) 20(6):126-136. Ref. May 1967. 302.8 Au7  
Eucalyptus.  
Includes discussion.
- 95312 IVIN, P. C. Pulp metering -- measurement of stock consistency. Appita Australian Pulp Pap. Indus. Tech. Ass. 21(3):71-78. Ref. Nov. 1967. 302.8 Au7
- 95313 JAMES, L. M. Looking to future pulpwood production in the Lake States. Amer. Pulpwood Ass. Tech. Pap., Oct.1967:16,18-20. 99.9 Am33Te
- 95314 KARLSEN, K. Considerable deliveries of wood chips to the cellulose industry of Finland. (No) Skogeieren 11:14,49. Nov.1967. 99.81 SK5  
For pulp.
- 95315 KARTH, S. W. Factors affecting wood quality and quantity and consequently pulp manufacture. S. Afr. Forest J. 63:17-24. 1967. 99.9 So82
- 95316 KEAYS, J. L. Confidence in pulp demand prompts new laboratory in British Columbia. Pulp Pap. Mag. Can., Feb.2,1968:34-36. 302.8 P96
- 95317 KLEINERT, T. N. Thermal delignification in ethanol-water mixtures. (Ge) Holzforsch. Holzverwertung 19(4):60-65. Ref. Aug.1967. 99.9 Os72  
English summary.  
Beech wood.



- 95318 KOBAYASHI, A., HAGA, T., and SATO, K. On the dispersing effect of lignosulfonate and carbohydrate sulfonate in sulfite pulping waste liquor. 2. (Ja) Jap. Wood Res. Soc. J. 13(3):113-117. June 1967. 99.9 J2793 English summary.
- 95319 LEA, R. V. Competitive position of pulp and paper in northeastern region. Amer. Pulpwood Ass. Tech. Pap., Oct.1967:9-10. 99.9 Am33Te
- 95320 LEASK, R. A. Some recent developments in the field of high consistency refining. Appita (Australian Pulp Pap. Indus. Tech. Ass.) 20(6):xxi-xxviii. May 1967. 302.8 Au7
- 95321 LORAS, V. Bleaching and stabilizing of flash-dried mechanical pulp. Pulp Pap. Mag. Can. Jan.1968:57-63. Ref. 302.8 P96
- 95322 MEYER, K. R. Overseas development of pulp and paper projects. Pulp Pap. Mag. Can. 68(6):110-113. June 1967. 302.8 P96
- 95323 MIYAO, S., and others. Studies on polysulfide cooking. V. Stabilization of hemicellulose to hot alkaline solution by treatment with polysulfide. (Ja) Jap. Wood Res. Soc. J. 13(5):202-207. Aug.1967. 99.9 J2793 J. Nakano, C. Takatsuka, and N. Migita, joint authors. English summary.
- 95324 MOLYAKOV, G. A. Production of neutral sulfite semichemical pulps. (Rus) Bum. Prom. 6:18-20. June 1967. 302.8 B88
- 95325 MONSALUD, M. R. Traditional and new uses of Philippine woods. Forest. Leaves 18(1/2):1-10. Ref.1967. 99.8 P532 Papermaking characteristics of hardwoods and conifers.
- 95326 NYLINDER, P. Weight measurement of pulpwood. Stockholm. Skogshogsk. Inst. Virkeslara. Rapp. R57,25 p. Ref. 1967. 99.9 St632
- 95327 PALENIUS, I. The bleaching response of ultra-high-yield birch pulp. Pulp Pap. Mag. Can. Jan.1968:52-56. Ref. 302.8 P96
- 95328 PHILLIPS, F. H. Assessing the pulping potential of western Australian timbers. CSIRO (Commonwealth Sci. Indus. Res. Organ.) Forest Prod. Newslett. 345:2-3. Oct.1967. 99.9 Au722F
- 95329 PLATON, M., and CONSTANTINESCU, O. The influence of the boiling lye sulphidity on the quality of sulphate pulp for electrotechnical papers. (Rum) Celul. Hirtie 15(9):334-338. Sept.1966. 309.8 C334 English summary, sup., p.2.
- 95330 RENEAUT, J. L. A study of chlorine dioxide stages in the bleaching sequence CEHDED. Pulp Pap. Mag. Can. 69(6):55-61. Mar.15,1968. 302.8 P96
- 95331 ROZENBERGER, N. A., and NAPKHANENKO, Z. S. Kinetics of bisulfite cooking of spruce wood. (Rus) Bum. Prom. 6:3-5. June 1967. 302.8 B88 English summary.
- 95332 ROZENBERGER, N. A. Retardation mechanism of sulfite pulping. (Rus) Bum. Prom. 2:3-6. Feb.1967. 302.8 B88 English summary.
- 95333 SERVICE, G. Groundwood from sawdust. Pulp Pap. Mag. Can. 68(6):118-121. June 1967. 302.8 P96
- 95334 SOTELAND, N., and KRINGSTAD, K. The effect of ozone on some properties of high yield pulps. Norsk Skogindus. 22(2):46-52. Ref. Feb.1968. 99.82 N81
- 95335 STRANGE, B. C. Pulp and paper tomorrow. Amer. Paper Indus. 49(8):76-81,84. June 1967. 302.8 P1923 Technology and use.
- 95336 SUGDEN, E. A. N. Wood characteristics and wood-pulp quality. Pulp Pap. Mag. Can. 68(6):T-273-T-279. Ref. June 1967. 302.8 P96
- 95337 TECHNICAL ASSOCIATION OF THE PULP AND PAPER INDUSTRY. 53rd annual meeting. Southern Pulp Pap. Manufacturer 31(3):84-86, 88,90-93,96-98. Mar.10,1968. 302.8 So8 Includes abstracts of some papers.
- 95338 TYMINSKI, A. Hydrosulphite bleaching. Part II. Effect of reaction conditions on the brightness of hydrosulphite-bleached groundwood. Pulp Pap. Mag. Can. 68(6):T-268-T-272. June 1967. 302.8 P96
- 95339 VOLKOV, V. O. Increased utilization of larch for pulpwood. (Rus) Bum. Prom. 2:28-30. Ref. Feb.1967. 302.8 B88
- 95340 V'YUKOV, I. E., GYUSUMYAN, A. M., and KOVTUN, N. M. Experimental study of continuous washing of sulfate pulps. (Rus) Bum. Prom. 6:12-14. June 1967. 302.8 B88
- 95341 WOOD, C. E. Versatile dispersant aids paper-makers in tall oil recovery and pitch control. Resin Rev. 17(3):10-13. 1967. 309.8 R313
- 95342 YNALVEZ, L. A., and NICOLAS, P. M. Some aspects on long-fiber research. Forest. Leaves 18(1/2):17-25. Feb.1967. 99.8 P532 Softwood pulps in the Philippines.
- 95343 YNALVEZ, L. A., and others. Some aspects of long-fiber research. Lumberman [Manila] 13(8):23,26,28. Aug.1967. 99.81 L9793 P. M. Nicolas, E. C. Amio, and A. A. Pablo, joint authors. Pulp properties of *Pinus insularis* and some other plants.

## Chemical Products and Distillates

- 95344 ANDERSON, D. M. W., and SMITH, R. N. Studies on uronic acid materials. XIX. The composition of the gum from *Acacia laeta* var. hashab. Carbohydr. Res. 4(1):55-62. Ref. Mar. 1967. 385 C172
- 95345 HIROTA, N., and HIROI, M. The later studies on the camphor tree [*Cinnamomum camphora*], on the leaf oil of each practical form and its utilisation. Perfumery Essent. Oil Rec. 58(6):364-367. Ref. June 1967. 308.8 P41 Includes morphology.
- 95346 MIYAZAKI, M., and others. Quantitative gas chromatography of sugars. (Ja) Jap. Forest Exp. Sta. Bull. 199:181-188. Mar.1967. 99.8 R47 S. Takahashi, N. Furuya, and K. Shimada, joint authors. English summary. Wood sugar.
- 95347 WALLS, G. A., comp. Bibliography of wood distillation. Oreg. State Univ. Forest Res. Lab. Bibliogr. Ser. 5,67 p. Oct.1966. Z5991.B52

## Naval Stores

- 95348 CLEMENTS, R. W. Acid paste method highly successful in commercial operations. Nav. Stores Rev. Terpene Chem. 77(6):4,6,9. Sept. 1967. 99.81 N22 Gum extraction at the Southeastern Forest Experiment Station.

## Other Forest Products

- 95349 BARBASCH, S. Preliminary study of substances soluble in wood used in the moist method of manufacturing of fiberboard. (Rum) Indus. Lemnului 19(2):61-64. Feb.1968. 99.82 In23
- 95350 BERGMAN, O., and NILSSON, T. Studier over utomhuslagring av aspedsfliis vid Hornefors sulfittfabrik. On outside storage of aspen chips at Hornefors' sulphite mill. Stockholm. Skogshogsk. Inst. Virkeslara. Rapp. R55,60 p. Ref. 1967. 99.9 St632 English summary. *Populus tremula*.
- 95351 CHALK, R. Wood deterioration during outside chip storage. Pulp Pap. Mag. Can. 69(6):75-85. Ref. Mar.15,1968. 302.8 P96
- 95352 DINULESCU, A. On the harvesting of birch and hornbeam saps. (Rum) Rev. Padurilor 83(2):90-95. Ref. Feb.1968. 99.8 R327

- 95353 ENOMOTO, S., and KOJIMA, K. Studies on the mechanism of dry process board formation. V. Experimental proofs on the theory of dry process board formation. II. (Ja) Jap. Wood Res. Soc. J. 13(3):82-86. June 1967. 99.9 J2793  
English summary.
- 95354 ENOMOTO, S., and KOJIMA, K. Studies on the mechanism of dry process board formation. VI. Density distribution of board at thickness direction and essence of "rock-like structure." (Ja) Jap. Wood Res. Soc. J. 13(3):87-90. June 1967. 99.9 J2793  
English summary.
- 95355 ENOMOTO, S. Studies on the mechanism of dry process board formation. IX. Improvement of dry process hardboard. I. (Ja) Jap. Wood Res. Soc. J. 13(5):183-187. Aug. 1967. 99.9 J2793  
English summary.
- 95356 FELICESCU, A., and NAUC, A. Possibilities for the utilization of stratified and densified wood in the construction of parts of equipment. (Rum) Indus. Lemnului 19(2):56-60. Feb. 1968. 99.82 In23
- 95357 FORBES, W. H. B. Forest utilisation. Forester 8(3):18-22. Dec. 1967. 99.8 F7635  
Making beverages from silver birch and spruce saps.
- 95358 HIRATA, T., ABE, H., and FUKUI, Y. Study on fireproof chemicals. II. Effects of various chemicals on the combustion and the pyrolysis of hardboard. (Ja) Jap. Forest Exp. Sta. Bull. 200:155-184. Ref. Mar. 1967. 99.8 R47  
English summary.
- 95359 IWASHITA, M. Studies on particle board. IX. Suitability of species as raw material for particle board production. 2. Manufacture of particle board using larch wood extracts for particle bonding. 2. Jap. Forest Exp. Sta. Bull. 200:93-103. Mar. 1967. 99.8 R47
- 95360 IWASHITA, M., AOKI, T., and UGAWA, N. Studies on particle board. X. Study on dowel joint of particle board, and influence of tensile strength perpendicular to surface of particle board on dowel joint strength. (Ja) Jap. Forest Exp. Sta. Bull. 200:105-119. Mar. 1967. 99.8 R47  
English summary.
- 95361 JAGER, E. A. Rational utilization of manufacturable wood residues. (Ge) Holzindustrie 20(8):217-224. Aug. 1967. 99.82 H742
- 95362 KARNSTEDT, H. Economical advantage of integration between the board and furniture industry. (Ge) Holzindustrie 20(7):185-187. July 1967. 99.82 H742
- 95363 KEHR, E., and SCHILLING, W. Investigations on utilization manufacture residues in particle board manufacture. I. (Ge) Holzindustrie 20(7):188-193. Ref. July 1967. 99.82 H742
- 95364 KEHR, E., and others. The particle board industry in the Social Republic of Romania. (Ge) Holzindustrie 21(1):15-21. Jan. 1968. 99.8 H742  
W. Friedrich, D. Nix, A. Kortum, joint authors.
- 95365 KLAUDITZ, W., and MEIER, K. The analysis of amide-nitrogenous adhesives in particle board. (Ge) Holz Roh- Werkstoff 25(9):358-359. Sept. 1967. 99.81 H74
- 95366 KREJCI, O., GRIMM, H., and LAMPERT, H. New ideas for the fiberboard industry. (Ge) Holzindustrie 21(2):48-52. Feb. 1968. 99.82 H742  
Sweden.
- 95367 KRZYSIK, F. Problems of resonant wood sorting and utilization. (Ge) Holzindustrie 21(1):3-6. Jan. 1968. 99.82 H742  
Utilization for musical instruments.
- 95368 LIAO, K. F. A study of the factors influenced on the properties of flake boards made with urea and phenolic resin. (Ch) J. Agr. Forest. 15:91-111. Ref. Oct. 1966. 22.5 J823
- 95369 MATAKI, Y., and OTA, M. Studies on the mechanism of thermal conversion in the pulp sheet during hot pressing of fiberboard. V. Effects of hot pressing condition on the structure of fiberboard. (Ja) Jap. Wood Res. Soc. J. 13(5):188-193. Aug. 1967. 99.9 J2793  
English summary.
- 95370 SANO, Y., NAGASAWA, S., and MATSUDA, T. On the manufacture of fiberboards from forest residues. (Ja) Jap. Forest Exp. Sta. Bull. 199:163-180. Mar. 1967. 99.8 R47
- 95371 SEGAL, A. Engineering tools for particle-board. Woodworking Dig. 69(12):30-31. Dec. 1967. 99.82 W87
- 95372 SOKOLOV, A. Wooden slabs from sawmill wastes. (Rus) Les. Prom. 9:26-27. Sept. 1967. 99.82 L56  
Plasticizing wood.
- 95373 STEGMANN, G., and BISMARCK, C. VON. Press time reduction in the manufacture of particle boards with urea-formaldehyde resins. 1. (Ge) Holzforsch. Holzverwertung 19(4):53-60. Ref. Aug. 1967. 99.9 Os72  
English summary.
- 95374 STROBL, K. Development of modern surface improvement methods. (Hu) Faipar 17(9):268-271. Sept. 1967. 99.82 F14  
Chiefly fiberboard and veneer finishing.
- 95375 SUZUKI, I. Fundamental physical and chemical research on raw materials for fiberboard. 5. Effect of the chemical components in the raw material. V. (Ja) Jap. Forest Exp. Sta. Bull. 199:109-140. Ref. Mar. 1967. 99.8 R47  
English summary.
- 95376 SZEKELY, E. Automation of basic material in the chipboard industry. (Hu) Faipar 17(9):288-290. Sept. 1967. 99.82 F14
- 95377 TAKAMURA, N. Studies on hot pressing and drying process in the production of fiberboard. 2. Chemical degradation of the components in hot pressing of fibre mat for hardboard making. (Ja) Jap. Forest Exp. Sta. Bull. 199:141-161. Ref. Mar. 1967. 99.8 R47  
English summary.
- 95378 TOMEK, A. Improvement of fiberboard manufactured with wet process with drying oils. (Hu) Faipar 17(7):189-197. Ref. July 1967. 99.82 F14
- 95379 TUSTIN, J. R. The significance of the wood particle board industry to other wood-based industries and to forest management. Oxford Univ. Imp. Forest. Inst. Inst. Pap. 38, 53 p. Ref. 1968. 99.9 Ox23
- 95380 ZUKOWSKI, L. Delamination of fiberboard and its cohesion. (Pol) Przem. Drzewny 19(1):7-10. Jan. 1968. 99.82 P95

## SILVICULTURE

- 95381 ALL, I. B. H. A critical review of Malayan silviculture in the light of changing demand and form of timber utilisation. Malayan Forest. 29(4):228-233. Oct. 1966. 99.8 M292
- 95382 ALL, I. B. H. Prospects of *Agathis alba* as a plantation species. Malayan Forest. 29(4):251-253. Oct. 1966. 99.8 M292
- 95383 ANDERSON, O. On the stump formation of birch [*Betula pubescens*]. (Sw) Sveriges Skogsvardsforb. Tidskr. 64(5):441-450. Ref. Sept. 1966. SD1.S952  
Study of felling date in relation to control.
- 95384 ANDERSSON, S. O. Thinning for more lumber. Skogen [Stockholm] 54(23):594-596, 599. Nov. 23, 1967. 99.8 Sk51
- 95385 ANDONOV, A. D. Maturity and cutting cycles in mixed stands of spruce, fir and beech trees. (Bu) Gorskostopanska Nauk. 4(2):51-63. Ref. 1967. 99.8 G683  
Germany summary.  
In Bulgaria.
- 95386 BARRING, U. Facts about the need for thinning of young stands. (Sw) Skogen [Stockholm] 54(23):591, map. Nov. 23, 1967. 99.8 Sk51



- 95387 BERGMANN, J. Chemical chain-tending of oak plantations by means of herbicides. (Ge) Arch. Forstwesen 17(1):89-117. Ref. 1968. 99.8 Ar22  
English summary.  
Atrazine and KClO<sub>3</sub>.
- 95388 BLANCKMEISTER, J. Silviculture research and its methodology in forest protection areas. (Ge) Arch. Naturschutz Landschaftsforsch. 6 (4):227-248. Ref. 1966. 279.8 Ar2  
English summary.
- 95389 BONNEMANN, A., comp. Waldbauliche Terminologie mit Übertragungen der Fachausdrücke in Englisch, Französisch, Norwegisch, Tschechisch [Silvicultural terminology with translations of the technical expressions in English, French, Norwegian, Czech]. Göttingen. Univ. Forstl. Fak. Schriftenreihe 40, 44 p. Ref. 1967. 99.9 G71
- 95390 BORSET, O. American pine. (No) Norsk Landbruk 12(1):7, 29. Jan. 1968. 11 N8122  
Pinus contorta.
- 95391 BUSH, K. K., and BALSAR, E. YA. Experiment in application of closed drainage. (Rus) Les. Khoz. 2:20-21. Feb. 1967. 99.8 L5622  
In Latvian forests.
- 95392 BUZUN, V. A. Conservation of beech advance growth by technological variations of shelterwood felling. (Rus) Lesovod. Agrolesomeliior. 11:65-69. 1967. SD1.L44
- 95393 CARMEAN, W. H. Soil and water requirements. Walnut Workshop. Papers 1966:32-34. aSD397.W3W3  
As forest species.
- 95394 CATINOT, R. Tropical silviculture in the dry zones of Africa. (Fr) Bois Forêts Trop. 112: 3-29. (Cont.) Mar./Apr. 1967. 99.8 B632  
English summary.
- 95395 CHOPENKO, V. F. Methods of establishment of forest stands in Sakhalin area. (Rus) Les. Khoz. 3:51-53. Mar. 1967. 99.8 L5622  
Culture.
- 95396 CLARK, F. B. Culture of immature trees. Walnut Workshop. Papers 1966:42-46. aSD397.W3W3  
As forest species.
- 95397 CLARK, F. B. Pole-sized black walnut [*Juglans nigra*] respond quickly to crown release. J. Forest. 65(6):406-408. June 1967. 99.8 F768
- 95398 CLIFF, E. P. The increasing challenge of decreasing quality. Walnut Workshop Papers 1966:1-3. aSD397.W3W3  
Keynote speech; includes wood quality.
- 95399 CROSBY, J. S. How thinning affects fuel weights in shortleaf pine stands in southeast Missouri. J. Forest. 65(12):901-902. Dec. 1967. 99.8 F768  
In relation to fire hazard of slash.
- 95400 DE GEUS, H. L. Notes on the growing of *Eucalyptus cloeziana* for production of poles. S. Afr. Forest J. 63:12-16. 1967. 99.9 S082
- 95401 DELOCHE, P. The nettle tree [*Celtis australis*]: raw material for hay forks. (Fr) Potasse 42(352):46-47. Feb. 1968. 57.8 P84  
Chiefly culture.
- 95402 DELVAUX, J. Types of soils, rootings and growth; notes on spruce, fir and Douglas fir. (Fr) Soc. Roy. Forest. Belg. Bull. 75(1):3-6. Jan. 1968. 99.9 B83
- 95403 DE PHILIPPIS, A. Silviculture in face of growing demand for wood products. (It) Ital. Forest. Mont. 22(3):140-151. Ref. May/June 1967. 99.8 It12  
French summary.
- 95404 EDLUND, E. The Siberian larch in Norrland and Dalarna as forest tree and industrial raw material. I-II. (Sw) Sveriges Skogsvårdsförb. Tidskr. 64(5):461-519; (6):521-560, map. Ref. Sept./Oct. 1966. SD1.S952  
*Larix sibirica* culture and utilization for pulp and board.
- 95405 ELIASSON, L. Supply of herbicides to lower parts of plant in foliar spraying of aspen. (Sw) Sveriges Skogsvårdsförb. Tidskr. 64(5):429-439. Ref. Sept. 1966. SD1.S952  
English summary.  
2,4-D and 2,4,5-T for the control of *Populus tremula*.
- 95406 FOULDS, R. T. How to shear spruce and fir Christmas trees. Vt. Univ. Ext. Brieflet 1156, 2 p. 1967? 275.29 V59E  
*Abies balsamea* and *Picea*.
- 95407 FROHLICH, H. J. Poplar research and poplar management. (Ge) Holzzucht 21(3/4):25-29. Ref. Oct. 1967. 99.8 H743
- 95408 GANGULI, B. N. Mexican pines and their possibilities in India. Indian Forest. 93(9):633-645, map. Sept. 1967. 99.8 In2
- 95409 GAVRUSEVICH, A. N. Cultures of basket oak in beech forest zone of the Transcarpathians. (Rus) Lesovod. Agrolesomeliior. 12:91-98. 1967. SD1.L44
- 95410 GIURGIU, V. The pollard problem in spruce trees. (Rum) Rev. Padurilor 82(6):297-298. June 1967. 99.8 R327
- 95411 HAARILAA, R. Mapping terrain difficulties. (Fi) Metsätaloudellinen Aikakauslehti 84(9): 259-260. Sept. 1967. 99.9 F49  
English summary.  
Forest areas.
- 95412 HAMILTON, W. D., and DAVIS, W. B. Chemical growth control of Chinese elm [*Ulmus parvifolia*] trees. Calif. Agr. 21(2):4-5. Feb. 1967. 100 C12Cag  
Use of maleic hydrazide.
- 95413 HATCHER, R. J. Response of balsam fir and red spruce to release from hardwood competition. Pulp Pap. Mag. Can. 68(6):WR-287-WR-293. June 1967. 302.8 P96
- 95414 HILF, H. H. Growing of high quality timber as a production goal of our forestry; forestry decisions and measures. (Ge) Forst- Holzwirt 22(19):389-393. Ref. Oct. 8, 1967. 99.8 F7724
- 95415 HOLT, L. Silvicultural problems relating to the future supply of wood products. Pulp Pap. Mag. Can. 68(6):WR-267-WR273. June 1967. 302.8 P96
- 95416 IMMEL, R. The beginning of pine culture in the forest district of Spredlingen, the former Iseburg-Birstein "Drei-Eich" office in the plain of Rhine and Main and the origin of seeds used. (Ge) Allg. Forst- Jagdzeitung 138(4):82-86. Ref. Apr. 1967. 99.8 AL3  
English summary.
- 95417 JACKOWSKI, J. The problems of management of beech stands in Szczecin province in the light of results obtained so far. (Pol) Sylwan 111(8):1-11. 1967. 99.8 Sy52  
English summary.
- 95418 JELEM, H. Boden und Waldgesellschaften im Revier Merkenstein Schwarzföhren-Kalkvorallen (Kalkwienerwald); Anhang zu Heft 4/1961 Standortserkundung Hoher Lindkogel [Soils and forest associations in Merkenstein forest district, black pine-lime-subalpine region; supplement to no. 4/1961, site survey, Hoher Lindkogel]. Vienna. Forstl. Bundesversuchsanst. Inst. Standort. [Veroff.] 21, 43 p., map. Ref. 1967. 99.9 V673  
Soil types and ecology.
- 95419 JONDELIUS, B. Thin your forest—more and harder. (Sw) Skogen [Stockholm] 54(23):592. Nov. 23, 1967. 99.8 Sk51
- 95420 KRAMER, H. Care of young stands and establishment of culture in spruce. (Ge) Forst- Holzwirt 22(19):400-405. Ref. Oct. 8, 1967. 99.8 F7724
- 95421 KREMSER, W. Origin, basic thoughts, tradition and future of care of stands. (Ge) Forst- Holzwirt 22(19):394-400. Oct. 8, 1967. 99.8 F7724
- 95422 LAMPRECHT, H. Considerations on silvicultural planning in the Tropics. (Sp) Rev. For- est. Argentina 11(1):10-15. Jan./Mar. 1967. 99.8 R3252

- 95423 LAVRINENKO, D. D., and STARUSEVA, N. G. Silvicultural effectiveness of mechanized soil preparation of cutover forest with stumps left on in northern forest - steppe zone of Ukrainian SSR. (Rus) Lesovod. Agrolesomeliior. 11: 103-112. 1967. SD1.L44
- 95424 LE TACON, F. An experiment for the application of soil cartography; need for knowing the production factors. (Fr) Rev. Forest. Franc. 20(4):264-274. Apr. 1968. 99.8 R329
- 95425 MAL'TSEV, G. I. Establishment of seed stands of Crimean pine. (Rus) Les. Khoz. 1:48-50. Jan. 1967. 99.8 L5622  
Seed tree cutting.
- 95426 MANN, H. J. Special cultivation of softwood (Coniferae). (Ge) Mitt. Deut. Landwirt.-Ges. 83(15):535-536. Apr. 11, 1968. 18 N39
- 95427 MARTYN, H. S. Silvicultural technique in Sabah. Malayan Forest. 29(4):234-238. Oct. 1966. 99.8 M292
- 95428 MEYER, R. Patch cutting on the Apache National Forest. Ariz. Watershed Symp. Annu. Proc. Sept. 1967:16-19, map. 292.9 Ar425
- 95429 MOIR, T. Safe methods of carrying out controlled burning. New Zeal. Timber J. 14(5):43-45. Jan. 1, 1968. 99.81 N482  
Land clearing in New Zealand.
- 95430 NARTOV, P. S. Forces affecting working parts of forest disk implements. (Rus) Les. Khoz. 6:65-68. June 1967. 99.8 L5622  
Cultivators and plows.
- 95431 NIKITIN, V. I. Mechanized work in preparing growing trees for injection. (Rus) Lesovod. Agrolesomeliior. 11:54-58. 1967. SD1.L44  
To change color of wood.
- 95432 OVEZLIEV, A., YAROSHENKO, S. V., and BERDYEV, A. Forest irrigation experiments in the subhill regions of Turkmenistan. (Rus) Akad. Nauk Turkm. SSR Izv. Ser. Biol. Nauk 3:50-56. 1967. 442.9 Ak124
- 95433 PAA, N. F., and GERARDO, J. A. Silvical characteristics of kaotoan bangkal [Anthocephalus cadamba Roxb.]. Forest. Leaves 18(1/2):39-46. Ref. Feb. 1967. 99.8 P532
- 95434 PRIEN, S. Rational care of mountainash [Sorbus] outer forest. (Ge) Sozialistische Forstwirtschaft. 17(6):176-180. June 1967. 99.8 W143  
English summary, p. 192.
- 95435 RAIDU, S. On the culture of Salix alba in the region of dams. (Rum) Rev. Padurilor 83(1): 11-15. Jan. 1968. 99.8 R327
- 95436 RUBTSOV, L. I., ATAMANYUK, YU. A., and KOLYBINA, N. F. Aesthetic arrangement of forest stands during improvement cutting. (Rus) Les. Khoz. 3:28-31. Mar. 1967. 99.8 L5622
- 95437 RUDOLF, P. O. Silviculture for recreation area management. J. Forest. 65(6):385-390. Ref. June 1967. 99.8 F768  
Lake States.
- 95438 SABADASH, V. P., and KONOPADSKII, I. A. Efficiency of tractor units in preparing sandy soils by means of deep plowing. (Rus) Lesovod. Agrolesomeliior. 11:70-75. 1967. SD1.L44
- 95439 SAMEK, V. General panorama on silviculture of the pine forests of Cuba. (Sp) Rev. Agr. [Havana] 1(2):89-98. Ref. May/Aug. 1967. S15.R4  
English summary.
- 95440 SARGENT, J. E. Growing quality Christmas trees. Forest Notes 96:29-31, 35. Winter 1967/68. 99.8 F7691  
Abies balsamea, Picea glauca, Pinus sylvestris.
- 95441 SARVAS, R. The planted forest. (Sw) Skogsbruken 37(11):276-277, 298-301. 1967. 99.8 Sk59
- 95442 SCHMIDTKUNZ, O. Landscape architecture and poplar culture in Rhineland. (Ge) Holzwirtschaft 21(3/4):29-33. Oct. 1967. 99.8 H743
- 95443 SENNOV, S. N. Selection of young forest plots for improvement cutting. (Rus) Les. Khoz. 3: 31-32. Mar. 1967. 99.8 L5622
- 95444 SHUMAKOV, V. S. Soils in the forestry teaching of G. F. Morozov. (Rus) Les. Khoz. 1:21-24. Jan. 1967. 99.8 L5622
- 95445 SILEN, R. R. Earlier forecasting of Douglas-fir cone crop using male buds. J. Forest. 65 (12):888-892. Dec. 1967. 99.8 F768
- 95446 SMAGLYUK, K. K. Experience in lumban cutting in the beech forests of northern Bukovina. (Rus) Lesovod. Agrolesomeliior. 12:30-39. Ref. 1967. SD1.L44  
Selective cutting in forest conservation in U.S.S.R.
- 95447 SPRANGARE, B., and TROEDSSON, H. Thinning of young stands for future logging system. (Sw) Skogen [Stockholm] 54(23):598-599. Nov. 23, 1967. 99.8 Sk51
- 95448 STOLYAROV, D. P. Merchantable structure of timber selected for cutting during improvement cuttings. (Rus) Les. Khoz. 3:25-26. Mar. 1967. 99.8 L5622
- 95449 SVANDIZE, G. R. New cultivator for mountain slopes. (Rus) Les. Khoz. 6:63-64. June 1967. 99.8 L5622
- 95450 SVOBODA, A. M. New notions on the culture of white spruce [Picea glauca]. (Cz) Ziva 16(1): 14-15. Jan. 1968. 409.6 Z6
- 95451 SVOBODOVA, D. Rare cultivated variety of Acer platanoides L. cv. Stollii. (Cz) Ziva 16 (1):13-14. Jan. 1968. 409.6 Z6
- 95452 TAGUDAR, E. The response of Dipterocarp seedlings when released from competing vegetation. Forest. Leaves 18(1/2):47-53. Feb. 1967. 99.8 P532
- 95453 TELESHEK, YU. K. Peculiarities of preparing stoney soils for tree planting in Crimean mountains. (Rus) Lesovod. Agrolesomeliior. 11:81-93. 1967. SD1.L44  
Windbreak planting.
- 95454 TRIBUN, P. A. Waterlogging of foothills for forest in the Ivan-Franko area and measures for combating it. (Rus) Lesovod. Agrolesomeliior. 12:65-78. Ref. 1967. SD1.L44  
Drainage.
- 95455 TSYGANENKO, L. G. Peculiarities of cultivator sweep work on stony soils of the Crimea. (Rus) Lesovod. Agrolesomeliior. 11:51-53. 1967. SD1.L44
- 95456 VACKOVA, M. The Amur corktree at the Postrekovo. (Cz) Ziva 16(1):16. Jan. 1968. 409.6 Z6  
Phellodendron amurense; culture and growth.
- 95457 VAKUROV, A. D. Improvement cuttings in pine plantations of various stocking. (Rus) Les. Khoz. 2:24-25. Feb. 1967. 99.8 L5622
- 95458 VAN, S. H., and GALLAGHER, D. G. Disposal of logging slash with a "rolling chopper." Fire Contr. Notes [Washington] 29(2):7-8. Apr. 1968. 1 F766Fi
- 95459 VRDOLJAK, Z. Study of the culture of seedlings of European hackberry [Celtis australis] and Mahaleb cherry [Prunus mahaleb]. (Se) Sumarski List 91(5/6):232-243. May/June 1967. 99.8 Su6  
French summary.
- 95460 WHITESELL, C. D., and LANDGRAF, M. F. Growing Queensland-maple [Flindersia brayleyana] on lava rocklands in Hawaii. Tree Planters' Notes 77:1-3. Aug. 1966. 1.962 C5T71
- 95461 WYLIE, J. E. Nuts and wood—dual crops for management. Walnut Workshop. Papers 1966: 91-94. ASD397.W3W3
- 95462 YADAV, J. S. P. Soil studies in Andaman evergreen forests. Indian Forest. 93(9):649-656. Sept. 1967. 99.8 In2
- 95463 ZHEREBTSOV, V. H. Thinning young oak stands in the steppe. (Uk) Visn. Sil's'kohospod. Nauk. 1:71-75. Jan. 1967. 20 V82  
Russian summary.
- 95464 ZUMER, M. Ash and oak can very well be pruned. (No) Skogeieren 8:12-13. Aug. 1967. 99.81 Sk5



- 95465 ZUMER, M. Birch must be carefully pruned. (No) Skogeieren 5:14,52. May 1967. 99.81 Sk5

### Regeneration

- 95466 AKSOY, H., and WEBER, E. Effects of heredity and environment on the development of conifer planting stock. (Ge) *Silvae Genet.* 15(5/6):181-189. Sept./Dec.1966. 99.8 Z36  
English summary.
- 95467 AMADA, S. Reforestation in privately-owned forests is a good investment. (Ja) *Forest Econ.* 20(10):14-20. Oct.1967. 99.8 R474
- 95468 BALAKIR, V. Experiments of preparation of seeds for planting. (Rus) *Les. Khoz.* 2:82-83. Feb.1967. 99.8 L5622  
Treatment of forest tree seeds.
- 95469 BALDWIN, H. I. Tools for hand planting. *Tree Planters' Notes* 77:20-24. Aug.1966. 1.962 C5T71
- 95470 BERGAN, J. The edaphical and climatical growth factors in Nordland and Troms, and some results of spruce planting under birch canopy and in open land. (No) *Norsk Skogbruk* 13(17):425-429, map. Sept.1967. 99.8 N815
- 95471 BINGHAM, R. T. Breeding blister rust resistant western white pine [*Pinus monticola*]. *Silvae Genet.* 15(5/6):160-164. Sept./Dec.1966. 99.8 Z36  
Caused by *Cronartium ribicola*.
- 95472 BJORKMAN, E. Prerequisites for forest planting on eroded and degenerated soil—impressions from a trip around the world. (Sw) *Sveriges Skogsvardsforb. Tidskr.* 64(8):723-733. Dec.1966. SD1.S952  
Mycorrhiza in reforestation.
- 95473 BRINKMAN, K. A. Growth and yield on prairie soils. *Walnut Workshop. Papers* 1966:50-52. aSD397.W3W3  
As forest species.
- 95474 BURLEY, J., and others. Progeny test designs for *Pinus patula* in Rhodesia. *Silvae Genet.* 15(5/6):166-173. Sept./Dec.1966. 99.8 Z36  
P. M. Burrows, F. B. Armitage, and R. D. Barnes, joint authors.
- 95475 CAMPBELL, T. E. Loblolly-shortleaf pine seedfall in Louisiana. *J. Forest.* 65(12):894-895. Dec.1967. 99.8 F768
- 95476 CAPUDER, A. A contribution to the study of the natural growth of beech forests in Slovenian Alps. (Si) *Gozdarski Vest.* 26(1/2):12-22. 1968. 99.8 G74  
German summary.  
Includes mensuration.
- 95477 CARDOSO, J. G. A. Forestry chronicle. VI. Tree planting. (Por) *Gaz. Agr. [Lourenco Marques]* 19(215):103-105. Apr.1967. 24 G25  
Mozambique.
- 95478 CARVELL, K. L. The response of understory oak seedlings to release after partial cutting. *W. Va. Agr. Exp. Sta. Bull.* 553, 20 p. Sept. 1967. 100 W52
- 95479 CAYFORD, J. H., and WALDRON, R. M. Storage of white spruce [*Picea glauca*], jack pine [*Pinus banksiana*], and red pine [*Pinus resinosa*] seed treated with arasan, endrin, and aluminum flakes. *Tree Planters' Notes* 77:12-16. Ref. Aug.1966. 1.962 C5T71
- 95480 CHERNYSHEV, V. V. Operation of forest planting equipment. (Rus) *Les. Khoz.* 6:57-60. June 1967. 99.8 L5622
- 95481 CHOBIT'KO, G. L., and RUBANOV, M. N. Siberian larch under dry conditions of southeastern area. (Rus) *Les. Khoz.* 1:64-66. Jan. 1967. 99.8 L5622  
Chiefly planting.
- 95482 CHOI, S. K. Studies on the plus tree grafting (conifer). (Ko) *Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep.* 9(2):97-108. Ref. Dec.1966. 22.5 K843  
English summary.  
*Larix leptolepis* and *Pinus* spp.
- 95483 COTE, M. An experiment in afforestation in the arid zone. The forest curtain of East Morocco. (Fr) *Rabat Sta. Rech. Forest. Ann. Rech. Forest. Maroc. Rap. Annu.* 9:223-244. Ref. 1965. 99.9 R11A
- 95484 DOLBIYEV, I. S. Mechanized terracing of steep slopes in afforestation. (Rus) *Lesovod. Agrolesomellor.* 11:21-26. 1967. SD1.L44
- 95485 DVORAKOVSKII, M. S. Experimental plantings of the common oak (*Quercus robur* L.) on the Lenin Hills. (Rus) *Moscow Univ. Vestnik Ser.* 6 Biol. Pochvoved. 1:38-45. Jan./Feb.1967. 442.9 M854
- 95486 EASLEY, L. T. Westvaco [Experimental Forest] cone kiln. *Tree Planters' Notes* 77:6-9. Aug.1966. 1.962 C5T71  
Loblolly pine in South Carolina.
- 95487 ENGSTROM, A. Will super deep freeze damage tree seed? *Tree Planters' Notes* 77:28-29. Aug.1966. 1.962 C5T71  
*Pinus echinata*, *Ulmus pumila*, and *Morus alba tortonia*.
- 95488 ERDMANN, G. G. Planting. *Walnut Workshop. Papers* 1966:28-31. Ref. aSD397.W3W3  
As forest species in Iowa.
- 95489 FIELDING, J. M. The seasonal course of height growth and development of *Pinus radiata*. *Australian Forest Res.* 2(1):46-50. 1966. 99.8 Au76
- 95490 FRANCLET, A. A method of grafting *Cupressus dupreziana* onto *Cupressus sempervirens*. (Fr) *Rev. Forest. Franc.* 19(5):338-342. May 1967. 99.8 R329
- 95491 FUNK, D. T. Seed orchards. *Walnut Workshop. Papers* 1966:62-65. Ref. aSD397.W3W3
- 95492 GLEED, J. A. Mechanization in a forest nursery. *New Zeal. J. Forest.* 12(2):174-182. 1967. 99.8 C162
- 95493 GOUDIE, M. C. Mechanization of nursery and establishment. *New Zeal. J. Forest.* 12(2):114-118. Ref. 99.8 C162
- 95494 HAWKINS, P. J. Seed production and litter fall studies of *Callitris columellaris*. *Australian Forest Res.* 2(2):3-16. 1966. 99.8 Au76
- 95495 HINTON, J. H. Pine seedling in the Tennessee Valley. *Forest Farmer* 27(3):6-8. Dec.1967. 99.8 F7692
- 95496 HOLMFORS, P. Forest news from Aland. (Sw) *Skogsbruket* 37(12):320-321. 1967. 99.8 Sk59  
Experimental pine tree planting.
- 95497 HOUGH, A. F. Twenty-five-year results of a red pine [*Pinus resinosa*] provenance study. *Forest Sci.* 13(2):156-166, map. Ref. June 1967. 99.8 F7632
- 95498 ILLY, G. The genetic improvement of maritime pine [*Pinus pinaster*]. (Fr) *France Min. Agr. Bull. Tech. Inform.* 222:621-632. Ref. Sept.1967. 14 F844B  
Breeding to increase yields.
- 95499 JOVKOVIC, B. How to utilize 1966 high yields of forest trees seeds. (Se) *Sumar. Glas.* 11(5/8):97-105. 1966. SD1.A35  
Includes regeneration.
- 95500 KIELLANDER, C. L., and NILSSON, E. The difference in autumn frost resistance. (Sw) *Skogen* 54(17):438. Aug.31,1967. 99.8 SK51  
In relation to spruce provenance.
- 95501 KIELLANDER, C. L. On the occurrence of late-flushing spruce provenances in some South-Swedish test plantations. (Sw) *Sveriges Skogsvardsforb. Tidskr.* 64(8):735-748. Ref. Dec.1966. SD1.S952  
English summary.
- 95502 KISELEVSKIY-BABUNIN, R. G., LOGGINOV, V. B., and BOBERSKIY, YU. YU. Experience in grafting basic forest forming tree species of the Carpathians. (Rus) *Lesovod. Agrolesomellor.* 12:104-110. Ref. 1967. SD1.L44  
Beech, larch, and spruce grafting; U.S.S.R.
- 95503 KOSTOV, P. Efficiency coefficient of afforestation. (Bu) *Gorskostopanska Nauk.* 4(2):65-73. 1967. 99.8 G683  
Germany summary.  
In Bulgaria.

- 95504 KRAJICEK, J. E. Growing space requirements. Walnut Workshop. Papers 1966:47-49. aSD397.W3W3  
As forest species.
- 95505 KRSTINIC, A. Variations and inheritableness of color of shoots of white willow (*Salix alba* L.) populations of Bakovci and Lipovljani stands. (Se) Sumarski List 91(5/6):205-223. Ref. May/June 1967. 99.8 Su6  
English summary.
- 95506 KULIEV, G. Irrigated afforestation in Azerbaijan. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 5:46-51. May 1967. 20 V633  
English summary.
- 95507 LAAR, A. VAN. The influence of environmental factors on the radial growth of *Pinus radiata*. S. Afr. Forest. J. 61:24-39. Ref. June 1967. 99.9 So82
- 95508 LACHAPELLE, E. R. Timberline reforestation in the Austrian Alps. J. Forest. 65(12):868-872. Dec.1967. 99.8 F768
- 95509 LAMPREY, H. F. Notes on the dispersal and germination of some tree seeds through the agency of mammals and birds. East Afr. Wildlife J. 5:179-180. Aug.1967. 409.6 Ea7
- 95510 LAND clearing problems. (Condensed.) New Zeal. J. Forest. 12(2):151-162. 1967. 99.8 C162  
Panel discussion; moderator: E. H. Bunn; members: G. M. O'Neill, J. McLean, H. A. Mills, G. J. Molloy, and D. S. Preest.
- 95511 LESKINEN, U. Plastic greenhouse and peat in the nursery. (Sw) Sveriges Skogsvardsforb. Tidskr. 64(8):701-722. Dec.1966. SD1.S952  
Culture of Norway spruce in Finland.
- 95512 LIU, S. H. Studies on effects of aspects of site to the stand-growth of chinafir (*Cunninghamia lanceolata* Hook). (Ch) J. Agr. Forest. 15:79-89. Oct.1966. 22.5 J823  
English summary.
- 95513 LOWE, R. G. A tropical potting medium for tree species. Nigeria. Dep. Forest Res. Tech. Note 37, 17 p. Ref. Mar.1967. SD103.N55
- 95514 LUND, J. K. Spruce: the best choice of trees for forest regeneration in elevated regions. (No) Norsk Skogbruk 13(21):536,558. Nov.1967. 99.8 N815
- 95515 MANKTELOW, E. Machine planting in Tarawera forest. New Zeal. J. Forest. 12(2):183-188. 1967. 99.8 C162
- 95516 MANN, M. J. Plantation establishment of steep terrain. Appita (Australian Pulp Pap. Indus. Tech. Ass.) 20(6):xvii-xx. May 1967. 302.8 Au7  
Forests.
- 95517 MCKAY, J. W. Vegetative propagation. Walnut Workshop. Papers 1966:58-61. Ref. aSD397.W3W3  
As forest species.
- 95518 MERGEN, F., and others. Discriminant analysis of *Eucalyptus cinerea* × *Eucalyptus maculosa* hybrids. Silvae Genet. 15(5/6):148-154. Ref. 1966. 99.8 Z36  
D. T. Lester, G. M. Furnival, and J. Burley, joint authors.
- 95519 METRO, A. Reforestations in the arid zones of North Africa. (Fr) Rabat Sta. Rech. Forest. Ann. Rech. Forest. Maroc. Rap. Annu. 9:289-222, map. 1965. 99.9 R11A
- 95520 MEURICE, C. Results of a spacing experiment for spruce plantations. (Fr) Soc. Roy. Forest Belg. Bull. 74(8-9):365-371. Aug./Sept.1967. 99.9 B83  
Includes mensuration tables.
- 95521 OGIEVSKII, V. V. What types of cone dryers are needed in forestry? (Rus) Les. Khoz. 1: 60-61. Jan.1967. 99.8 L5622
- 95522 OSKARSSON, O. Towards better tree provision. (Sw) Skogsvraket 37(11):280-281. 1967. 99.8 Sk59  
Seed trees and seeds of pine and spruce in Finland.
- 95523 PETROV, M. Development of productive poplar clones from *Populus alba* L. × *Populus tremula* L. crosses. (Bu) Gorskostopanska Nauk. 4(2):17-27. Ref. 1967. 99.8 G683  
English summary.
- 95524 POPESCU-POPA, G. Establishment of plantations for the production of selected forest trees seeds in the Arges region. (Rum) Rev. Padurilor 82(6):286-288. June 1967. 99.8 R327
- 95525 RAMBO, R. W. Techniques of stock production. Walnut Workshop, Papers 1966:13-15. aSD397.W3W3  
As forest nursery stock.
- 95526 RAYOS, J. A. The role of the Reforestation Administration in community development. Lumberman [Manila] 13(8):16,18. Aug.1967. 99.8 L9793  
Under the Department of Agriculture and Natural Resources.
- 95527 RAYOS, J. A. The role of reforestation development in community administration. Forest. Leaves 18(1/2):77-79. Feb.1967. 99.8 P532  
In Philippines.
- 95528 RUDOLF, P. O. Forest tree seed certification. Tree Planters' Notes 77:9-12. Aug.1966. 1.962 C5T71
- 95529 SANDER, I. L. Natural reproduction. Walnut Workshop. Papers 1966:18-19. aSD397.W3W3  
As forest species.
- 95530 SBIRNAC, A., and TUDOSOIU, P. Study on the mechanized digging of deep holes for tree planting on sandy soils of the Danube Delta. (Rum) Rev. Padurilor 82(6):298-301. June 1967. 99.8 R327  
Includes drills.
- 95531 SCHMOTZER, U. Is the reforestation of agricultural marginal land urgent? Which considerations should be posed to negate this question? (Ge) Allg. Forstzeitung 78(11):245-246. Nov. 1967. 99.8 AL53
- 95532 SHAKHOVA, E. A. Improving quality of seeds of conifers. (Rus) Les. Khoz. 2:70-72. Feb. 1967. 99.8 L5622  
By proper handling techniques.
- 95533 SHEVELEV, E. I. Effective method of planting seeds on cutout area. (Rus) Les. Khoz. 2:27-30. Feb.1967. 99.8 L5622  
Pine.
- 95534 SHIRMAMEDOV, M. S. Afforestation of ridge-honeycomb type sands in the zone of Kara-Kum canal. (Rus) Les. Khoz. 1:51-52. Jan.1967. 99.8 L5622
- 95535 SIMAK, M. Investigation of pine and spruce seeds 1967. (Sw) Skogen (Stockholm) 55(1):26-27. Jan.4,1968. 99.8 Sk51
- 95536 SNYDER, E. B., WAKELEY, P. C., and WELLS, O. O. Slash pine [*Pinus elliottii*] provenance tests. J. Forest. 65(6):414-420. Ref. June 1967. 99.8 F768  
Southern States.
- 95537 STAHL, W. The use of trapex as a soil sterilant in a forest nursery. Australian Forest Res. 2(2):35-42. 1966. 99.8 Au76
- 95538 SUDIONO, J., and ARDIKUSUMAH, R. I. A result of planting experiment of *Shorea stenoptera* Burck. (In) Rimba Indonesia 12(1):47-56. Mar.1967. 99.8 R46  
English summary.
- 95539 TATARANU, I. D. Early trials concerning the provenance of *Pinus sylvestris* on experimental plot of Sinaia. (Rum) Rev. Padurilor 83(1):1-5. Jan.1968. 99.8 R327  
English summary.
- 95540 TRIST, A. R. Will tree breeding help the timber industry? TDA (Timber Develop. Ass.) India J. 13(2):20-29. Apr.1967. 300.9 T48J  
Includes discussion.
- 95541 VALK, U., and PALUVITS, A. Forest nursery on high-moor peat. (Rus) Les. Khoz. 6:76-78. June 1967. 99.8 L5622  
Estonia.
- 95542 VASICEK, F. The effect of polyethylene sheets on the production of pine seedlings. (Cz) Lesnicka Prace 45(5):220-223. May 1966. 99.8 L56



- 95543 VIDA KOVIC, M. Some characteristics of the needle structure and growth in hybrids between Austrian pine [*Pinus nigra*] and Japanese red pine [*Pinus densiflora*]. *Silvae Genet.* 15(5/6): 155-160. Ref. Sept./Dec. 1966. 99.8 Z36
- 95544 VIDSEL, U. Average production and mechanical forest cultivation. (Sw) *Skogen* 54(20):514-515. Oct. 12, 1967. 99.8 Sk51  
Forest regeneration research.
- 95545 WEDEL, K. VON. Establishment of conifer stands by aerial seeding in the U.S.A. (Ge) *Forst- Holzwirt* 22(16):331-332. Aug. 23, 1967. 99.8 F7724
- 95546 WILLIAMS, R. D. Planting stock grades. Walnut Workshop. Papers 1966:16-17. aSD397.W3W3  
As forest species in Indiana.
- 95547 WRIGHT, J. W. Breeding better timber varieties. Walnut Workshop. Papers 1966:53-57. aSD397.W3W3  
As forest species.
- 95548 WRIGHT, J. W. Scotch pine varieties for Christmas tree planting. *Ohio Woodlands* 5(4): 5-10. Aug./Oct. 1967. 99.8 Oh34
- 95549 YAKOVLEVA, L. V. Interspecific and intergeneric grafting of Coniferae in open ground. (Rus) *Les. Khoz.* 6:29-32. June 1967. 99.8 L5622
- 95550 ZABOROVSKII, E. P. Is grading of forest tree seeds necessary? (Rus) *Les. Khoz.* 1:62-63. Jan. 1967. 99.8 L5622
- 95551 ZYKOV, P. V. Generative buds used in forecasting yields of spruce seeds. (Rus) *Les. Khoz.* 2:23-24. Feb. 1967. 99.8 L5622

## WOOD TECHNOLOGY

- 95552 AOYAMA, T. Properties of tropical woods. 6. Sawing properties of tropical woods by circular saw. I. (Ja) *Jap. Forest Exp. Sta. Bull.* 200:195-211. Mar. 1967. 99.8 R47  
English summary.  
*Shorea meranti*.
- 95553 BECKER, H. Possibilities of using ultrasonic waves in testing wood and particle board. (Ge) *Holzforchung* 21(5):135-145. Ref. Oct. 1967. 99.8 H74  
English summary.
- 95554 BRAUN, H. J., WOLKINGER, F., and BOHME, H. Development and structure of wood-rays in view of contract-isolation-differentiation to hydrosystem. II. The types of the contact-wood-rays. (Ge) *Holzforchung* 21(5):145-153. Ref. Oct. 1967. 99.8 H74  
English summary.  
Gymnospermae and Angiospermae studied.
- 95555 CLARK-LEWIS, J. W., and DAINIS, I. The phytochemicals from *Acacia* species; alpha-spinasterol and stigmast-7-enol. *Australian J. Chem.* 20(9):1961-1974. Sept. 1967. 475 Au73  
From the heartwoods.
- 95556 CZVIKOVSKY, T., and KOLOZSVARY, G. Wood-plastic combinations produced by irradiation chemistry. (Hu) *Faipar* 17(6):164-170. Ref. June 1967. 99.82 F14
- 95557 EGNER, K., and JAGFELD, P. Investigations on finger jointed planks after many years continuous service—behaviour under repetitive tensile stress. 11 p. Transl. 16866  
Translation from *Berichte aus der Bauforchung* 47:2-12. 1966.
- 95558 ENGLERTH, G. H. Machining and other properties of fast- versus slow-grown trees. Walnut Workshop. Papers 1966:77-82. aSD397.W3W3
- 95559 FABRICIUS, L. An odd case of redwood formation. 3 p. (FPL Transl. No. 42) Transl. 16866  
Translation from *Forstwissenschaftliches Centralblatt* 76(12):422-424. 1932.
- 95560 FIELDING, J. M. Notes on the pith of *Pinus radiata*. *Australian Forest Res.* 2(2):49-51. 1966. 99.8 Au76
- 95561 FILIPOVICI, J., and PESCARUS, P. Properties of the wood of ash trees from forest district Risnov. (Rum) *Indus. Lemnului* 19(1):10-13. Jan. 1968. 99.82 In23  
English summary.
- 95562 FUKUWATARI, S., and NISHIKORI, I. Reactivity of isolated lignin. Part VI. On the determination of the carboxyl groups in alkali lignins by infrared absorption spectrography. (Ja) *Shimane Agr. Coll. Bull.* 15(A-3):1-8. Jan. 1967. S539.J3S5  
English summary.  
In *Cryptomeria japonica*.
- 95563 GOTO, T., and ONISHI, H. Studies on the pH value of wood. I. On the pH measurement of wood. (Ja) *Shimane Agr. Coll. Bull.* 15(A-2): 68-74. Jan. 1967. S539.J3S5  
English summary.
- 95564 GOTO, T., and ONISHI, H. Studies on the pH value of wood. II. Influence of various factors on the pH value of wood. (Ja) *Shimane Agr. Coll. Bull.* 15(A-2):75-79. Jan. 1967. S539.J3S5  
English summary.
- 95565 GOTO, T., and ONISHI, H. Studies on the pH value of wood. III. On the pH values of various woods and staining. (Ja) *Shimane Agr. Coll. Bull.* 15(A-2):80-88. Jan. 1967. S539.J3S5  
English summary.
- 95566 HAIDER, K., and GRABBE, K. The role of phenoloxylase in the decomposition of lignin by white rot fungi. (Ge) *Zentralbl. Bakteriologie, Parasitenk., Infektionskr., Hyg. Abt. I, Orig.* 205(1/3):91-96. Ref. Dec. 1967. 448.3 C33
- 95567 HAKKILA, P. The basic density of wood, and what it means. (Fi) *Metsataloudellinen Aikakauslehti* 84(9):265-268, 282. Sept. 1967. 99.9 F49  
English summary.
- 95568 HARTMANN, F. Anent "An odd case of redwood formation." 7 p. (FPL Transl. No. 42) Transl. 16866  
Discussion of article by L. Fabricius.  
Translation from *Forstwissenschaftliches Centralblatt* 76(14):494-496. 1932.
- 95569 HARTMANN, F. Three fundamental forms of redwood arrangement in coniferous species. 17 p. (FPL Transl. No. 42) Transl. 16866  
Translation from *Forstwissenschaftliches Centralblatt* 77(9):314-322. 1933.
- 95570 HAYASHI, A., NAMURA, Y., and UEKITA, T. Studies on lignosulfonate. XXVII. Demethylation of lignosulfonate during the gelling reaction with dichromate. *Jap. Wood Res. Soc. J.* 13(5):194-197. Ref. Aug. 1967. 99.9 J2793
- 95571 HAYASHI, A., and MINARI, H. Studies on lignosulfonate. XXVIII. Darkening of lignosulfonate with heavy metallic ions. *Jap. Wood Res. Soc. J.* 13(5):198-201. Aug. 1967. 99.9 J2793
- 95572 HEDLIN, C. P. Sorption isotherms of twelve woods at subfreezing temperatures. *Forest Prod. J.* 17(12):43-48. Ref. Dec. 1967. 99.9 F7662J  
Moisture content.
- 95573 HOSHI, T. Properties of important Japanese woods. Cutting properties by rotating knife. II. Cutting properties of the woods grown in Nagano and Nagoya districts. (Ja) *Jap. Forest Exp. Sta. Bull.* 200:185-194. Mar. 1967. 99.8 R47  
English summary.
- 95574 HUYNH-LONG, V. Some maceration methods for tropical woods. (Fr) *Belg. Soc. Roy. Bot. Bull.* 100(2):283-291. Ref. 1967. 451 B41B  
English summary.  
Anatomical study.
- 95575 JACKSON, B., LOCKSLEY, H. D., and SCHEINMANN, F. Extractives from *Guttiferae*. VII. The isolation and structure of seven xanthenes from *Calophyllum scribblifolium* Henderson and Wyatt-Smith. *Chem. Soc. J. C, Org.* 23: 2500-2507. 1967. QD241.C5  
Isolated from the heartwood.
- 95576 KANO, T. Concave or convex traces on sugi (*Cryptomeria japonica*) log face caused by overgrown branch knot. (Ja) *Jap. Forest Exp. Sta. Bull.* 200:33-42. Mar. 1967. 99.8 R47  
English summary.

- 95577 KUYLENSTIERNA, F. What causes heartwood? (Sw) Skogen (Stockholm) 54(11):312-313. May, 25, 1967. 99.8 Sk51
- 95578 MENDOZA, E. U. Bending solid wood and its potentialities. Forest. Leaves 18(1/2):27-34 Feb. 1967. 99.8 P532
- 95579 MEYER, R. W. Tyloses development in white oak [*Quercus alba*]. Forest Prod. J. 17(12): 50-56. Ref. Dec. 1967. 99.9 F7662J
- 95580 MILLER, D. G., and BENICAK, J. Relation of creep to the vibrational properties of wood. Forest Prod. J. 17(12):36-39. Dec. 1967. 99.9 F7662J
- 95581 MONSALUD, M. R. Traditional and new uses of Philippine woods. Lumberman [Manila] 13(8):36,38,40-43. Aug. 1967. 99.8 L9793
- 95582 NAKANO, J., and others. Studies on arylglycerol-beta-arylether structure in hardwood lignin. (Ja) Jap. Wood Res. Soc. J. 13(3):108-112. Ref. June 1967. 99.9 J2793  
S. Ka, K. Kato, and N. Migita, joint authors. English summary.
- 95583 OKOHIRA, Y. Studies on the form factor cleavage test specimens. 1. (Ja) Mie Univ. Fac. Agr. Bull. 36:23-62. Ref. Dec. 1967. 107.6 T78  
English summary. Wood.
- 95584 PATERSON, D. N. Spiral grain in East African exotic softwood forest plantations. East Afr. Agr. Forest. J. 33(3):286-291. Jan. 1968. 24 Ea74
- 95585 PAUL, B. H. Natural structure of wood multiplies its uses. Woodworking Dig. 69(11):27-28. Nov. 1967. 99.82 W87
- 95586 PAVELESCU, I. M. The main defects of wood in some stands of euroamerican poplar [*Populus euramericana*] in Rumania. (Rum) Rev. Padurilor 82(6):310-314. June 1967. 99.8 R327
- 95587 POPPLETON, B. J. The structure of cellulose and other carbohydrates. CSIRO (Commonwealth Sci. Indus. Res. Organ.) Forest Prod. Newslett. 343:1-3. Aug. 1967. 99.9 Au722F
- 95588 PURUSHOTHAM, A., and KUMAR, S. A preliminary note on diffusion of ions through wood. TDA (Timber Develop. Ass.) India J. 13(2):5-8. Apr. 1967. 300.9 T48J
- 95589 ROBARDS, A. W. The xylem fibres of *Salix fragilis*, L. Roy. Microscop. Soc. J. 87(3/4): 329-352. Ref. 1967. 440.9 R81J
- 95590 SCHULTZ-DEWITZ, G. The effect of the vegetation time on some of the structural features of pine-wood. (Ge) Holzindustrie 21(2):55-58. Feb. 1968. 99.82 H742
- 95591 SCURFIELD, G. Histochemistry of reaction wood in *Pinus radiata* D. Don. Australian J. Bot. 15(3):337-392. Ref. Dec. 1967. 450 Au72
- 95592 SEKHAR, A. C., and SHUKLA, N. K. A note on physical and mechanical properties of *Pterocarpus marsupium* (Bija sal) from Samta Range (Bihar). Indian Forest. 93(6):393-399. Ref. June 1967. 99.8 In2
- 95593 SIMA, P. A contribution to the study of elasticity of wood. (Rum) Indus. Lemnului 19(1):13-18. Jan. 1968. 99.82 In23
- 95594 SIMA, P. The phenomenon of the friction of wood during the sliding. (Rum) Rev. Padurilor 83(1):28-34. Ref. Jan. 1968. 99.8 R327  
English summary.
- 95595 SOCIETY OF WOOD SCIENCE AND TECHNOLOGY. ABSTRACT COMMITTEE. Abstracts on review. II. Theses reflect current trends in research. Forest Prod. J. 17(12): 57-64. Dec. 1967. 99.9 F7662J  
On wood properties and forest products, chiefly.
- 95596 TAI, S., and others. Studies on utilization of lignin. IV. Epoxidation of thioglignin. (Ja) Jap. Wood Res. Soc. J. 13(3):102-107. Ref. June 1967. 99.9 J2793  
M. Nagata, J. Nakano, and N. Migita, joint authors. English summary.
- 95597 TAKEMURA, T. Plastic properties of wood in relation to the non-equilibrium states of moisture content. Jap. Wood Res. Soc. J. 13(3):77-81. June 1967. 99.9 J2793
- 95598 U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. List of publications on the growth, structure, and identification of wood. Madison, 1967. 34 p. A241.01 F762Fg  
Wisconsin University, cooperating.
- 95599 WATANABE, H., and others. Acoustical study of woods and wood products. I. On the normal absorption coefficient of wood. (Ja) Jap. Wood Res. Soc. J. 13(5):177-182. Aug. 1967. 99.9 J2793  
T. Matsumoto, N. Kinoshita, and H. Hayashi, joint authors. English summary.
- 95600 WEBER, S. Remarks on resonant wood. (Pol) Sylwan 111(8):41-48. 1967. 99.8 Sy52  
English summary.
- 95601 WOOTEN, T. E. Compression wood—a common defect in southern pines. Forest Farmer 27(3):14-15. Dec. 1967. 99.8 F7692
- 95602 YOKOTA, T., and GOTO, K. Diffusion of solute in wood filled with non-swelling liquid. (Ja) Jap. Forest Exp. Sta. Bull. 199:189-195. Ref. Mar. 1967. 99.8 R47  
English summary.



## PLANT SCIENCE

## GENERAL

- 95603 ALEKSANDROVA, V. D. The investigation of the vegetational cover in the U.S.S.R. in connection with its utilization in the national economy. (Rus) Bot. Zhur. [Moscow] 52(10):1485-1502. Ref. Oct.1967. 451 R923
- 95604 ANDERSON, L. Methods of native orchid conservation. Amer. Orchid Soc. Bull. 37(4):293-294. Apr.1968. 80 Am329  
Mentions *Cypripedium reginae*, state flower of Minnesota.
- 95605 ARNOLD, M. H., and BROWN, S. J. A simple growth cabinet with controlled air temperatures. Empire Cotton Growing Rev. 44(4):284-288. Oct.1967. 72.8 Em7
- 95606 BAITENOV, M. S. Contribution to the plant evolution in Kazakhstan. (Rus) Akad. Nauk Koz. SSR. Vestn. 9:27-30. Sept.1967. 511 AL6
- 95607 BEUCHER, F. Some elements of the Pliocen flora in north-western Sahara. (Fr) Acad. Sci. Compt. Rend. Ser. D, 265(16):1117-1120. Oct.16,1967. 505 P21  
Pollen study.
- 95608 BILYK, G. The Institute of Botany of the Academy of Sciences of the Ukrainian S.S.R [Akademiya Nauk Ukrainskoi SSR. Institut Botaniki] meets the 50th anniversary of the great October revolution. (Rus) Bot. Zhur. [Moscow] 52(10):1540-1547. Oct.1967. 451 R923  
Includes list of publications.
- 95609 BLYUM, O. B. Scientific activity of Institute of Botany, Academy of Sciences of the Ukrainian SSR [Instytut Botaniky, Akademiya Nauk Ukrayins'koyi RSR] in 1967. (Ukr) Ukr. Bot. Zh. 25(2):109-113. 1968. 450 J8212J
- 95610 BOYARSKAYA, T. D., and ZAIKINA, N. G. Vegetation and climate changes in the Polar Urals in the Holocene according to the data of spore, pollen and diatom analyses of Lake Khodata-Yugan-Lor sediments. (Rus) Moscow Univ. Vestnik Ser. 5 Geogr. 1:92-94. Jan./Feb.1967. 331.9 M85
- 95611 BRUN, A. Palynological study of volcanic soils and tuffs in the valley of Venteix au Mont-Dore (Puy-de-Dôme). (Fr) Acad. Sci. Compt. Rend. Ser. D, 265(17):1172-1174. Oct.23,1967. 505 P21
- 95612 BUDANTSEV, L. YU. The achievements in the investigation of the Tertiary flora of the U.S.S.R. during the period 1917-1967. (Rus) Bot. Zhur. [Moscow] 52(11):1563-1573, map. Ref. Nov.1967. 451 R923  
English summary.
- 95613 DANILOVA, M. F., and others. The development of botanical science in the U.S.S.R. during the 50 years. (Rus) Bot. Zhur. [Moscow] 52(10):1389-1448. Oct.1967. 451 R923  
O. V. Zалenskii, E. M. Lavrenko, and M. S. Yakovlev, joint authors.
- 95614 DARRAH, W. C. The structure of *Cardiocarpus florini* (Darrah), a Pennsylvanian cordate seed from Iowa. Penn. Acad. Sci. Proc. 40(2):80-86. Ref. June 1967. 500 P383
- 95615 DINIZ, F. Newly discovered spores with flagellum from the Cretaceous in Portugal. (Fr) Pollen Spores 9(3):569-577. Ref. Dec.1967. 450 P762  
English summary.
- 95616 DRESCH, J., ELHAI, H., and DENEFLÉ-LABIOLE, M. Pollen studies of four peat bogs of Ballon d'Alsace. (Fr) Soc. Biogr. Compt. Rend. 375/376:78-89 map. Mar.1967. 505 P216  
France.
- 95617 ERDTMAN, G. A plea for clarity and unification. Pollen Spores 9(1):5-8. Ref. Apr.1967. 450 P762  
Pollen and spore terminology.
- 95618 FREDSKILD, B. Palaeobotanical investigations at Sermermut, Jakobshavn, West Greenland. Meddelelser Gronland 178(4), 54 p. Ref. 1967. 502 C792
- 95619 GRANEL DE SOLIGNAC, L., and BERTRAND, L. The herbariums of the Institut de Botanique of Montpellier. (Fr) Nat. Monspelesia Ser. Bot. 18:271-292. Ref. 1967. 451 M766  
English summary.
- 95620 GRICHUK, M. P., SHUMOVA, G. M., and SHIPORINA, I. A. On the application of a new method for recovering pollen from Pleistocene loess-like and clayey deposits. (Rus) Moscov. Univ. Vestnik Ser. 5, Geogr. 3:87-89. May/June 1967. 331.9 M85
- 95621 GUEDES, M. Original edition of *Philosophia Botanica* by Linne (1751). (Fr) Soc. Bibliogr. Nat. Hist. J. 4(7):385-389. Jan.1968. 241.7 Sol  
English summary.
- 95622 GUPTA, K., and DUTTA, B. K. Vernacular names of the useful plants of north-west Indian arid regions. J. Agr. Trop. Bot. Appl. 14(10-11):402-453, map. Ref. Oct./Nov.1967. 26 J822
- 95623 HALL, J. W. Two species of *Ariadnaesporites*. Pollen Spores 9(3):563-568. Ref. Dec.1967. 450 P762  
In the United States.
- 95624 HEDLUND, R. W. Taxonomic re-evaluation of spore taxa from the Cenomanian of Oklahoma. Pollen Spores 9(3):579-582. Ref. Dec.1967. 450 P762
- 95625 HILLS, L. V. *Ariadnaesporites*, *Capulisporites* or *Caudaspora*; a discussion. Pollen Spores 9(3):553-562. Ref. Dec.1967. 450 P762
- 95626 HUARD, J. Spinous relics of lepidocaryoid palm from neogen of the landes. (Fr) Nat. Monspelesia Ser. Bot. 18:319-345. Ref. 1967. 451 M766  
English summary.  
In France
- 95627 HUMMEL, K. Identification of oriental plant names. (Ge) Deut. Pharm. Ges. Mitt. 37(6):113-119. In Arch. Pharm. 300(6). June 1967. 396.8 Ar2A
- 95628 KARSTEN, M. C. Heurnius and Hermann, the earliest known plant collectors at the Cape [of Good Hope]. II. Paul Hermann. J. S. Afr. Bot. 33(3):161-175. Ref. July 1967. 450 J8262  
Includes his botanical writings.
- 95629 KEDVES, M. Palynological studies of late Tertiary deposits of the Paris region. (Fr) Pollen Spores 9(3):521-552. Ref. Dec.1967. 450 P762  
English summary.
- 95630 KLAPCHUK, M. N. Toward a history of Holocene vegetation of Pokutye. (Ukr) Ukr. Bot. Zh. 25(1):72-67, map. Ref. Jan./Feb.1968. 450 J8212J  
English summary.  
Pollen studies.
- 95631 KUNNAPUU, S. Ancient trees in Tallinn. (Es) Eesti Loodus 6:358-361. Ref. Dec.1966. 409.6 Ee7  
English summary, p.IV.
- 95632 KUTUZKINA, E. F. The genus *Cedrela* in the Sarmatian deposits of the Kransnodar Territory. (Rus) Bot. Zhur. [Moscow] 52(9):1295-1299. Ref. Sept.1967. 451 R923  
English summary.
- 95633 LEBEAU, J., and LEURQUIN, J. The naturalists of Charleroi - 1966 initiation expeditions in the Charleroi area. (Fr) Natur. Mosana 19(4):73-75. Oct./Dec.1966. 473 N214  
Plant collecting in Belgium.
- 95634 LEMOIGNE, Y. Observation of the archegonia produced by the vascular axes of the type *Rhynia gwynne-vaughanii* Kidston and Lang. Existence of vascular gametophytes in the Psilophytes of the Devonian. (Fr) Soc. Linn. Lyon Bull. Mens. 37(4):148-149. Apr.1968. 505 L992B
- 95635 MARKGRAF, V. The late glacial and postglacial history of the formation and vegetation of the edge of a high moor in the Swiss Plateau. (Ge) Bot. Jahrbucher 86(1/4):537-548. Feb.1,1967. 450 En3B  
English summary.

- 95636 MAURITIUS INSTITUTE. Annual report, 1965. Fort Louis, 1966. 15 p. 515 M44A  
Includes a herbarium.
- 95637 MULLER, H. M., and KOHL, G. Radiocarbon dating of recent vegetation development in southeast Mecklenburg. (Ge) Flora Abt. B, Morphol. Geobot. 156(4):408-418. Ref. 1966. QK641.A1F5  
Includes pollen studies of moors.
- 95638 NAKOMAN, E. Microflora of the Tertiary deposits in southwest Anatolia. (Fr) Pollen Spores 9(1):121-142. Ref. Apr.1967. 450 P762  
Pollen study.
- 95639 NEUSHTADT, M. I. The progress of palynological investigations in the U.S.S.R. (Rus) Bot. Zhur. [Moscow] 52(10):1472-1494, map. Ref. Oct.1967. 451 R923
- 95640 NEVES, R., and DOLBY, G. An assemblage of miospores from the Portishead Beds (Upper Old Red Sandstone) of the Mendip Hills, England. Pollen Spores 9(3):607-614. Ref. Dec.1967. 450 P762
- 95641 NICHOLS, H. The suitability of certain categories of lake sediments for pollen analysis. Pollen Spores 9(3):615-620. Ref. Dec.1967 450 P762
- 95642 NISHIDA, M. Cedroxylon yoshidai, a new fossil wood from the Cretaceous of Miyako, Iwate Prefecture. J. Jap. Bot. 42(9):261. Sept.1967. 450 J8223
- 95643 OSBORNE, D., and others. The dendrochronology of the Wetherill Mesa Archeological Project. Tree-Ring Bull. 28(1/4), 40 p., map. May 1967. 99.8 T713  
R. F. Nichols, D. G. Smith, and T. P. Harlan, joint authors.
- 95644 PLANCHAIS, N. Pollen analysis of the peat-bog of Gizeux, Indre et Loire, and an investigation of the climatic optimum of the evergreen oak [*Quercus ilex*]. (Fr) Pollen Spores 9(3):505-520, map. Ref. Dec.1967. 450 P762  
English summary.
- 95645 POST, L. Forest tree pollen in South Swedish peat bog deposits. Pollen Spores 9(3):375-401. Dec.1967. 450 P762
- 95646 RICHTER, D. M. An airphoto index to physical and cultural features in the western United States. Photogram. Eng. 33(12):1402-1419, map. Ref. Dec.1967. 325.28 P56  
Photographs of the U. S. Agricultural Stabilization and Conservation Service, including vegetation and land use.
- 95647 SAAD, S. I., and SAMI, S. Studies of pollen and spores content of Nile delta deposits, Berenbal region. (Fr) Pollen Spores 9(3):467-503, map. Ref. Dec.1967. 450 P762
- 95648 SCHAFER, W. Paleontological observations. 7. (Ge) Natur. Mus. 97(5):165-169, 207-210. (Cont.) Ref. May 1967. 509 F856  
Includes botany.
- 95649 SEGETA, V. Fifteen years of the Central Research Institute for Plant Production [Ustredni vyzkumny ustav rostlinne výroby] at Prague-Ruzyně. (Cz) Prague. Vyzk. Ustav Zemed. Vestn. 13(8/9):410-413. 1966. 19.5 C333
- 95650 STENZEL, E. Postage stamps with plant motifs in the service of health. (Ge) Acta Phytoterap. 14(8):143-146. Oct.1967. 450 Ac88
- 95651 STRAKA, H. The stage of palynological studies on Madagascar and Mascarene Islands. (Ge) Deut. Bot. Ges. Ber. 80(1):46-52. Ref. 1967. 451 D48
- 95652 TIWARI, R. S., and NAVALE, G. K. B. Pollen and spore assemblage in some coals of Brazil. Pollen Spores 9(3):583-605. Ref. Dec.1967. 450 P762
- 95653 TOLMACHEV, A. I. The problem of training specialists for the Soviet botany. (Rus) Bot. Zhur. [Moscow] 52(9):1229-1237. Sept.1967. 451 R923
- 95654 UPSHAW, C. F., and HEDLUND, R. W. Microspores from the upper part of the Coffeyville Formation (Pennsylvanian, Missourian), Tulsa County, Oklahoma. Pollen Spores 9(1):143-170 map. Ref. Apr.1967. 450 P762
- 95655 VAN CAMPO, M., and others. Contribution to the study of the Quaternary plant population of the Saharan mountains. III. Flora of the Outoul wadi [Ahaggar Mountains]. (Fr) Pollen Spores 9(1):107-120. Ref. Apr.1967. 450 P762  
P. Guinet, J. Cohen, and P. Dutil, joint authors.
- 95656 WELTEN, M. Quillwort, Isoetes setacea Lam., fossil in Swiss molasse. (Ge) Bot. Jahrbuch-er 86(1/4):527-536. Feb.1,1967. 450 En3B  
English summary.
- 95657 WIDDER, F. J. The Graz editions of Linne's Amoenitates Academicæ. (Ge) Bot. Jahrbuch-er 86(1/4):186-208. Ref. Feb.1,1967. 450 En3B  
English summary.
- 95658 YATAIKIN, L. M. A new oligocene flora from West Kazakhstan. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 10(4):83-85. 1967. 442.8 N22
- 95659 ZUTTERE, P. D. E. Namur-Luxembourg Naturalists' Society [Société des Naturalistes Namur-Luxembourg]; excursion of July 21, 1966 to Herbeumont, Chiny and Straimont. (Fr) Natur. Mosana 19(4):87-89. Oct./Dec.1966. 473 N214

## MORPHOLOGY, ANATOMY, AND CYTOLOGY

- 95660 ALAM, S., and SANDAL, P. C. Cyto-histological investigations of pollen abortion in male-sterile sudangrass [*Sorghum vulgare sudanense*]. Crop Sci. 7(6):587-589. Ref. Nov./Dec.1967. 64.8 C883
- 95661 ANDERS, O. Development and structure of the embryo sac of *Streptocarpus rexii*. (Ge) Flora Abt. B, Morphol. Geobot. 156(4):446-451. 1966. QK641.A1F5
- 95662 APPLEGARTH, D. A. The cell wall of *Penicillium notatum*. Arch. Biochem. Biophys. 120(3):471-478. Ref. June 1967. 381 Ar2
- 95663 ASHRAF, D. Cell resistance of diploid and autotetraploid plants to some damaging agents. (Rus) Tsitologiya 9(7):804-810. Ref. July 1967. 442.8 T78  
English summary.  
Heat resistance of *Campanula persicifolia*, *Clarkia elegans*, and *Iberis amara*.
- 95664 BABETS, M. S., and CHIBRIK, T. S. Peculiarities of the morphogenesis of shoots of *Dactylis glomerata* L. in relation to the level of nitrogenous nutrition. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 1(37):83-86. 1967. 442.8 N22
- 95665 BAILEY, P. C., and LUQUIRE, K. B. The chromosome morphology of some Alabama populations of *Tradescantia*. Torrey Bot. Club. Bull. 94(2):71-78. Ref. Mar./Apr.1967. 451 T63B  
Effects of radiation.
- 95666 BAILEY, P. C., and LUQUIRE, K. B. The chromosome morphology of some populations of *Tradescantia* exposed to chronic low-level radiation. Torrey Bot. Club. Bull. 94(2):79-83. Mar./Apr.1967. 451 T63B
- 95667 BARTON, R. Substructure in negatively stained flagella of *Pteridium spermatozoids*. J. Ultrastruct. Res. 20(1/2):6-19. Ref. Sept., 1967. 440.8 J822
- 95668 BARYKINA, R. P. Concerning the morphology of vegetative reproduction in the almond (*Amygdalus nana* L.) (Rus) Moscow Univ. Vestnik Ser. 6 Biol. Pochvoved. 1:64-72. Jan./Feb.1967. 442.9 M854
- 95669 BERIDZE, R. K. Rod *Fragaria* L.; tsitoembriologicheskoe i geneticheskoe issledovanie [Genus *Fragaria* L.; cytoembryological and genetical study]. Tbilisi, Metsniereba, 1966. 204 p., map. QK643.F7B4  
Text in Georgian.  
Russian summary.  
Bibliography, p.190-201.
- 95670 BLAKE, G. J., and TAYLOR, J. L. Interception and phytomorphology. J. Hydrol. 6(2):70-73. 1967. 292.8 J822



- 95671 BONNETT, A. L. M. Contributions to the karyologic study of the genus *Thymus* L. V. On *Thymus alpinus* Kerner, *Thymus mastichina* L., *Thymus polytrichus* Kerner and *Thymus pulegioides* L. (Fr) Nat. Monspeliensis Ser. Bot. 18:193-199. Ref. 1967. 451 M766  
English summary.
- 95672 BONNOT, E. J. The fundamental organisation plan of spermatids in *Bryum capillare* (L.) Hedw. (Fr) Acad. Sci. Compt. Rend. Ser. D, 265(14):958-961. Ref. Oct.2,1967. 505 P21
- 95673 BONNOT, E. J. Infrastructure of plasmodesma in two mosses. (Fr) Acad. Sci. Compt. Rend. Ser. D, 264(19):2276-2279. Ref. May 8,1967. 505 P21  
*Thuidium tamariscinum* and *Hylocomium splendens*.
- 95674 BOWES, B. G. Further observations on the occurrence of bud and leaf inequality in Angiosperms. Flora Abt. A, Physiol. Biochem. 157: (3):281-291. Ref. 1966. QK710.F5
- 95675 BRACKER, C. E. Ultrastructural aspects of sporangiospore formation in *Gilbertella persicaria*. In Madelin, M. F., ed. The fungus spore, p.39-60. Ref. 1966. QK601.M3  
Includes discussion.
- 95676 BRANTON, D., and SOUTHWORTH, D. Fracture faces of frozen *Chlorella* and *Saccharomyces* cells. Exp. Cell Res. 47(3):648-653. Ref. Sept.1967. 442.8 Ex7  
*Chlorella vulgaris*.
- 95677 BRANTON, D., and PARK, R. B. Subunits in chloroplast lamellae. J. Ultrastruct. Res. 19 (3/4):283-303. Ref. Aug.1967. 440.8 J822  
From *Pharbitis nil* and *Spinacia oleracea*.
- 95678 BREWER, E. N., and RUSCH, H. P. Effect of elevated temperature shocks on mitosis and on the initiation of DNA replication in *Physarum polycephalum*. Exp. Cell Res. 49(1):79-86. Ref. Jan.1968. 442.8 Ex7
- 95679 BRIZA, K., VIDOJKOVIC, R., and KARANOVIC, V. The phylometric studies of widespread grape varieties under conditions of the Fruska Gora area. (Se) Novi Sad, Poljopr. Fak. Letop. Naucnih Rad. 10:85-91. 1966. 106.6 N85  
English summary.
- 95680 BROOKES, D., and THOMAS, K. W. The distribution of pollen grains on microscope slides. I. The non-randomness of the distribution. Pollen Spores 9(3):621-629. Ref. Dec.1967. 450 P762
- 95681 CABIOCH, J. On the mode of formation of the trichocytes in *Neogoniolithon notarisii* (Dufour) Setchell et Mason. (Fr) Acad. Sci. Compt. Rend. Ser. D, 266(4):333-336. Jan.22,1968. 505 P21
- 95682 CAUWET, A. M. Contribution to the karyologic study of several Umbelliferae from Spain. (Fr) Nat. Monspeliensis Ser. Bot. 18:201-210. Ref. 1967. 451 M766  
English summary.
- 95683 CHAMPAGNAT, M., and BLATTERON, S. Ontogeny of the axillary organs of cress (*Nasturtium officinale* L.Br.). (Fr) Rev. Gen. Bot. 73 (861):85-102. Ref. Feb.1966. 450 R326
- 95684 CHINGOVA, B. Study on some morphological and economic peculiarities of the fennel plant. (Bu) Rastenievudni Nauk. 4(10):23-28. Ref. 1967. 64.8 R18  
English summary.
- 95685 CHOPRA, R. N., LAL, M., and RASHID, A. Unusual archegonial distribution in a moss; *Splachnobryum*. Naturwissenschaften 54 (15/16):448. Aug.1967. 474 N213
- 95686 CHRIST, R. A. The rind-tester, a new device to measure the pressure which is required to break the oil cells of citrus rind. S. Afr. J. Agr. Sci. 10(3):741-746. Sept.1967. 24 Su3  
Data to minimize damage during handling.
- 95687 COLHOUN, J. The biflagellate zoospore of aquatic Phycomycetes with particular reference to *Phytophthora* spp. In Madelin, M. F., ed. The fungus spore, p.85-94. Ref. 1966. QK601.M3  
Includes discussion.
- 95688 COOPER, C. S., and QUALLS, M. Morphology and chlorophyll content of shade and sun leaves of two legumes. Crop Sci. 7(6):672-673. Ref. Nov./Dec.1967. 64.8 C883  
Alfalfa and birdsfoot trefoil.
- 95689 CRANG, R. E. Pollen tube plugs in *Lychnis alba*. Ohio J. Sci. 68(2):121-122. Mar.1968. 410 Oh3
- 95690 CUEDES, M. The location of the transmitting and receptive tissues in teratological carpels of *Nigella damascena* L. and its bearing on the interpretation of the so-called conduplicate carpel. Flora Abt. B, Morphol. Geobot. 156 (4):395-407. Ref. 1966. QK641.A1F5
- 95691 CUELLAR, H. S. Description of a pollen release mechanism in the flower of the Mexican hackberry tree, *Celtis laevigata*. Southwest. Natur. 12(4):471-474. Dec.31,1967. 409.6 So8
- 95692 CZANNINSKI, Y. Infrastructural observations on the libriform fibers of the xylem of *Robinia pseudoacacia*. (Fr) Acad. Sci. C. R., Ser. D, 264(24):2754-2756. June 12,1967. 505 P21
- 95693 CZOPYK, V. I. Peculiarities of morphogenesis of *Alnus viridis* DC under experimental conditions. (Ukr) Ukr. Bot. Zh. 25(2):17-24. Ref. 1968. 450 J8212J  
English summary.  
Effects of climate on development.
- 95694 DEAMER, D. W., and BRANTON, D. Fracture planes in an ice-bilayer model membrane system. Science 158(3801):655-657. Ref. Nov.3, 1967. 470 Sci2
- 95695 DEN'KO, E. I. Study of plant cell adaptation to heavy water. (Rus) Tsitologiya 9(8):940-948. Ref. Aug.1967. 442.8 T78  
English summary.  
*Campanula persicifolia* and *Tradescantia fluminensis*.
- 95696 DEPPE, K., and SEEHOFER, F. Microscopic pictures on the histology and anatomy of tobacco. II. (Ge) Beitr. Tabakforsch. 3(8):520-527. Dec.1966. QP981.T6B4
- 95697 DIOMAIUTO-BONNAND, J. Various aspects of inflorescence of *Symphytum officinale* L. (Fr) Acad. Sci. Compt. Rend. Ser. D, 264(6): 817-820. Feb.6,1967. 505 P21
- 95698 DONADILLE, P. Karyology of the genus *Armeria* Willd. (Fr) Acad. Sci. Compt. Rend. Ser. D, 264(6):813-816. Ref. Feb.6,1967. 505 P21
- 95699 DRAPER, A. D. Cytological irregularities in interspecific hybrids of *Aleurites*. Amer. Soc. Hort. Sci. Proc. 89:157-160. Dec.1966. 81 So12  
*Aleurites fordii* and *A. montana*.
- 95700 DUNBAR, A. Participation of membrane in exine formation. (Ge) Naturwissenschaften 54 (8):206-207. Apr.15,1967. 474 N213  
In *Hippuris vulgaris*.
- 95701 ERVIN, E. L., and EVERT, R. F. Aspects of sieve element ontogeny and structure in *Smilax rotundifolia*. Bot. Gaz. 128(2):138-144. Ref. June 1967. 450 B652
- 95702 EVANS, P. S. Leaf strength studies on pasture grasses. I-II. J. Agr. Sci. [London] 69(2):171-181. Ref. Oct.1967. 10 J822  
Morphology and anatomy.
- 95703 FAVARGER, C. Chromosome numbers of some taxa of the genus *Minuartia* (L.) Hiern chiefly from the Balkans. (Fr) Bot. Jahrbucher 86(1/4):280-292. Ref. Feb.1,1967. 450 En3B  
German summary.
- 95704 FISCHER, H. E., and SCHNEIDER, H. The course of cytokinesis during pollen formation in sugar beets plants with different chromosome numbers. (Ge) Z. Pflanzenzucht. 58(1):15-19. Ref. Aug.1967. 450 Z36  
English summary.
- 95705 FRITZSCHE, R., and SCHMELZER, K. An easily fragile gynogamete of the brown alga *Ectocarpus siliculosus*. (Ge) Naturwissenschaften 54(18):498-499. Sept.15,1967. 474 N213

- 95706 FROEBE, H. A. The shoot formation of *Hydrocotyle vulgaris* L. (Ge) Deut. Bot. Ges. Ber. 80(1):15-27. Ref. 1967. 451 D48  
English summary.
- 95707 FULLER, M. S. Structure of the uniflagellate zoospores of aquatic Phycomycetes. In Madelin, M. F., ed. The fungus spore, p.67-84. Ref. 1966. QK601.M3
- 95708 GALET, P. Morphological and systematic study of Vitidaceae seedlings. (Fr) Nat. Monspeliensis Ser. Bot. 18:231-269. Ref. 1967. 451 M766  
English summary.
- 95709 GASSANOV, A. M., and AKHMED-ZADE, F. A. Morphological-anatomical investigation of some species of Caucasian germanders (*Teucrium* L.). (Rus) Akad. Nauk. Azerbaidzh. SSR. Izv. Ser. Biol. Med. Nauk. 1:24-32. 1967. 442.9 Ak132
- 95710 GAY, J. L., and GREENWOOD, A. D. Structural aspects of zoospore production in *Saprolegnia ferax* with particular reference to the cell and vacuolar membranes. In Madelin, M. F., ed. The fungus spore, p.95-110. Ref. 1966. QK601.M3  
Includes discussion.
- 95711 GENEVES, L., and VINTEJOUX, C. The presence and organization into tridimensional network of inclusions of protein nature in the cellular nuclei of the hibernaculum of *Utricularia neglecta* L. (Lentibulariaceae). (Fr) Acad. Sci. C. R., Ser. D, 264(24):2750-2753. Ref. June 12, 1967. 505 P21
- 95712 GIRBARDT, M. Light and electron microscopic investigations on *Polystictus versicolor*. III. Change in the basic plasma structures during formation of the clamp connection. 6 p. Transl. 16850  
Translation from Zeitschrift fur Naturforschung 17b:49-53. 1962.
- 95713 GIRBARDT, M. Light and electron microscopic investigations on *Polystictus versicolor*. VIII. Dye colour analysis of the vegetative nuclear division. 15 p. Ref. Transl. 16851  
Translation from Planta 58:1-21. 1962.
- 95714 GOVINDARAJALU, E. Further contribution to the anatomy of the Alismataceae: *Sagittaria guayanensis* H.B.K. ssp. *Lappula* (D. Don) Bogin. Indian Acad. Sci. Proc. Sect. B 65(4):142-152. Apr.1967. 513 In25B
- 95715 GREGORY, P. H. The fungus spore: what it is and what it does. In Madelin, M. F., ed. The fungus spore, p.1-14. Ref. 1966. QK601.M3
- 95716 GUEDES, M. The carpel of *Prunus paniculata* Thunb. (P. serrulata Lindl.); its morphological modifications in the double flowers and its meaning. (Fr) Flora Abt. B, Morphol. Geobot. 156(4):464-499. Ref. 1966. QK641.A1F5
- 95717 EL HADIDI, M. N. Anatomical features of the stem in Egyptian species of *Fagonia* L. Candollea 21(2):357-364. 1966. 451 C16
- 95718 HALL, D. M. Wax microchannels in the epidermis of white clover. Science 158(3800):505-506. Oct.27,1967. 470 Sci2
- 95719 HAUPT, W., and WIRTH, H. Research on the spiral structure of the Mougeotia cells. (Ge) Plant Cell Physiol. 8(3):541-543. Oct.1967. 450 P699
- 95720 HAWKER, L. E. Germination: morphological and anatomical changes. In Madelin, M. F., ed. The fungus spore, p.151-163. Ref. 1966. QK601.M3  
Includes discussion.
- 95721 HAWLEY, E. S., and WAGNER, R. P. Synchronous mitochondrial division in *Neurospora crassa*. J. Cell. Biol. 35(3):489-499. Ref. Dec.1967. 442.8 J828
- 95722 HEBANT, C. Structure and differentiation in the conductive tissues of *Polytrichum gametophytes*. (Fr) Nat. Monspeliensis Ser. Bot. 18:293-317. Ref. 1967. 451 M766
- 95723 HEJTMANKOVA-UHROVA, N., and HEJTMANEK, M. Somatic karyokinesis in *Nannizzia incurvata*. Naturwissenschaften 54(8):206. Apr.15,1967. 474 N213
- 95724 HEPLER, P. K., and NEWCOMB, E. H. Fine structure of cell plate formation in the apical meristem of *Phaseolus* roots. J. Ultrastruct. Res. 19(5-6):498-513. Ref. Aug.30,1967. 440.8 J822
- 95725 HIMES, M. An analysis of heterochromatin in maize root tips. J. Cell Biol. 35(1):175-181. Ref. Oct.1967. 442.8 J828
- 95726 HODCENT, E. Cytobiological study of female prothallus of *Araucaria araucana* in the last coenocytic stage and during its transition to the alveolar phase. (Fr) Acad. Sci. C. R., Ser. D, 264(24):2746-2749. June 12,1967. 505 P21
- 95727 HOLLAND, D. A. The estimation of total leaf area on a tree. East Malling Res. Sta. Annu. Rep. Apr.1968:101-104. 103 Ea7
- 95728 HOLZL, J., and BANCHER, E. Physico-chemical study of vital staining of the nucleus and plasma of *Allium cepa* epidermis. (Ge) Protoplasma 64(2):157-184. Ref. 1967. 442.8 P94  
English summary.
- 95729 HOROWITZ, A., and BAUM, B. Mediterranean and western palynology. 10. The arboreal pollen flora of Israel. Pollen Spores 9(1):71-93. Apr.1967. 450 P762
- 95730 HOSTER, H. R., and LIESE, W. On fringe-like perforations of vessels in the culm of *Dendrocalamus strictus*. (Ge) Deut. Bot. Ges. Ber. 80(2):103-108. Ref. 1967. 451 D48  
English summary.
- 95731 HURDA, B. Twisted growth of trees trunks. (Cz) Ziva 16(1):11-12. Jan.1968. 409.6 Z6  
Anatomy.
- 95732 IKUSHIMA, T., and ICHIKAWA, S. Elimination of X-ray induced aberrant chromosomes in the root meristems of two-rowed barley. Jap. J. Genet. 42(4):271-278. Ref. Aug.1967. 442.9 J27
- 95733 INAMDAR, J. A. Anatomical studies in *Clerodendrum splendens* G. Don [Verbenaceae]. Indian Acad. Sci. Proc. Sect. B 67(1):8-17. Ref. Jan.1968. 513 In25B
- 95734 IVANOV, V. B. Growth of corn seedling root cells following irradiation with high doses of X-rays. 1. The inhibition of cell division, the duration and rate of root growth after irradiation. (Rus) Tsitologiya 9(8):958-966. Ref. Aug.1967. 442.8 T78  
English summary.
- 95735 JACOBS, J. Temperature, food, and turbulence as natural determinants of cyclomorphosis in *Daphnia*. Naturwissenschaften 54(8):207. Apr.15,1967. 474 N213
- 95736 JAUHAR, P. P. Occurrence of accessory chromosomes in *Panicum maximum* Jacq. Cur. Sci. 36(9):244-245. May 5,1967. 1967. 475 Sci23
- 95737 JOHNSON, B. F., and RUPERT, C. M. Cellular growth rates of the fission yeast, *Schizosaccharomyces pombe*, and variable sensitivity to 2-deoxyglucose. Exp. Cell Res. 48(3):618-620. Dec.1967. 442.8 Ex7
- 95738 JONES, D. A. Polymorphism, plants and natural populations. Sci. Progr. [Oxford] 55(219):379-400, map. Ref. Autumn 1967. 472 Sci22
- 95739 JOS, J. S. Studies on floral anatomy of *Nicotiana*. Indian Bot. Soc. J. 46(1):82-89. Ref. 1967. 450 J821
- 95740 JUHASZ, G. D. Developmental morphology and inflorescence of *Cornus mas* L. (Ge) Acta Bot. 13(1/2):81-94. Ref. 1967. 450 Ac823  
English summary.
- 95741 JUPIN, H. Analysis of infrastructure of paraplasm membrane of a Chrysophyceae, provisionally named *Stichochrys* sp. (Fr) Acad. Sci. Compt. Rend. Ser. D, 264(19):2280-2283. May 8,1967. 505 P21
- 95742 KAPOOR, P. S. Morphological studies in Sapotaceae. I. Anatomy of the node. Indian Acad. Sci. Proc. Sect. B 65(4):153-160. Apr.1967. 513 In25B
- 95743 KAWANO, S., and IHARA, M. Chromosome morphology of *Caulophyllum robustum* (Podophyllaceae) and its systematic implications. J. Jap. Bot. 42(5):1-7. May 1967. 450 J8223



- 95744 EL-KEIY, M. A., and others. Macro and micromorphology of *Adonis dentata* Del., growing in Egypt. I-III. J. Pharm. Sci. U. A. R. 6: 229-259, 261-271. Ref. 1965, pub. 1966. 396.8 J826  
I, Root, stem, and leaf; II, The flower; III, The fruit.  
M. D. Sayed, F. M. Hashim, F. M. Soliman, and M. A. Mohamed, joint authors.
- 95745 KIERMAYER, O. The septum of the original species of *Micrasterias denticulata* and its structure. (Ge) Protoplasma 64(4):481-484. 1967. 442.8 P94
- 95746 KIHLMAN, B. A., and HARTLEY, B. Hydroxyurea: effect on *Vicia* chromosomes previously exposed to X-rays or to radiomimetic chemicals. Exp. Cell Res. 48(3):629-634. Ref. Dec. 1967. 442.8 Ex7  
Test with broadbeans.
- 95747 KOBLITZ, H. Cell wall research in plant tissue cultures. II-III. (Ge) Qualitas Plant. Mater. Veg. 14(1/2):37-78. Jan. 10, 1967. 64.8 M41  
English summary.  
Bibliography, p. 63-69, 77-78.
- 95748 KOBLITZ, H. Cell wall research in plant tissue cultures. IV. (Ge) Qualitas Plant. Mater. Veg. 14(3):212-222. Ref. Apr. 28, 1967. 64.8 M41  
English summary.
- 95749 KODAMA, A. Cytological studies on root nodules of some species in Leguminosae. II. (Ja) Bot. Mag. Tokyo 80(944):92-99. Feb. 1967. 450 B651  
English summary.  
Includes chromosome studies.
- 95750 KOLEV, I. D., and YAKIMOVA, YA. Anatomical peculiarities of wild growing perennial sainfoin species in Bulgaria. (Bu) Rasteniye-vudni Nauk. 4(10):35-49. Ref. 1967. 64.8 R18  
English summary.
- 95751 KOMAR, G. A. On the nature of the inferior ovary of Grossulariaceae. (Rus) Bot. Zhur. [Moscow] 52(11):1611-1629. Ref. Nov. 1967. 451 R923  
English summary.  
Currants.
- 95752 KONDORSKAYA, V. R. The morphology of staminate flower and the development of male gametophytes in sea-buckthorn (Elaeagnaceae). (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 10(4):69-75. 1967. 442.8 N22  
Hippophae rhamnoides.
- 95753 KOSTRIKOVA, L. N. Some cases of anomalous flower structure of hybrid forms of the pea. (Rus) Moscow Univ. Vestnik Ser. 6 Biol. Pochvoved. 1:46-50. Jan./Feb. 1967. 442.9 M854
- 95754 KOZHANCHIKOV, V. I. Morphological seed characters in Caryophyllaceae and the possible pathways of their evolution. (Rus) Bot. Zhur. [Moscow] 52(9):1277-1286. Ref. Sept. 1967. 451 R923  
English summary.
- 95755 KRAPF, B. Contribution to the structure of the apple leaf. (Ge) Schweiz. Z. Obst-Weinbau 103(8):261-265. Apr. 15, 1967. 80 Sch9
- 95756 KUSANAGI, A. On the behaviour of the nucleolus in cell division, with special reference to the relationship between the nucleolus and cytological characteristics in *Luzula*. Jap. J. Bot. 19(3):387-418. Ref. 1967. 450 J27
- 95757 LAURET, M. Morphology, phenology, and distribution of marine *Polysiphonia* on the coast of Languedoc. (Fr) Nat. Monspeliensis Ser. Bot. 18:347-387. Ref. 1967. 451 M766  
English summary.
- 95758 LEAK, L. V., and BURKE, J. F. The application of freeze-fracture replication in studying the fine structure of a blue-green alga. Exp. Cell Res. 48(2):300-306. Ref. Nov. 1967. 442.8 Ex7  
*Anabaena variabilis*.
- 95759 LEE, P. N. Relation between the plant size and occurrence of fasciated flower stalk in Japanese all-season radish. (Ch) Hort. Soc. China. J. 12(3/4):28-31. Dec. 1966. 80 C47  
English summary.
- 95760 LEE, R. E. Additional chromosome numbers in the Gesneriaceae. *Baileya* 15(3):118. July/Sept. 1967. 80 B15
- 95761 LEH, H. O. Etiology of bowl formation of *Celeriac* (*Apium graveolens* var. *rapaceum*). (Ge) Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz 74(9):556-561. Sept. 1967. 464.8 Z3  
English summary.
- 95762 LEPOUSE, J., and ROMAIN, M. F. Study of the ultrastructure of pollen envelopes in *Oenothera biennis*. (Fr) Pollen Spores 9(3):403-413. Ref. Dec. 1967. 450 P762  
Electron microscope study.
- 95763 LEVACHER, P. Morphological study of *Paris quadrifolia* L.; organogenesis of aerial stem until the formation of terminal flower. Acad. Sci. Compt. Rend. Ser. D, 264(19):2284-2287. May 8, 1967. 505 P21
- 95764 LOBREAU, D. The pollen of the Malpighiaceae of Africa and Madagascar. (Fr) Inst. Fondamental Afr. Noire Bull., Ser. A. Sci. Natur. 30(1):59-83. Ref. Jan. 1968. 515 D14  
Morphological study.
- 95765 LU, Y. C. Studies on the morphology, physiology and cytogenetics of cultivated, semi-cultivated and wild soybeans. (Ch) J. Agr. Forest. 15:11-41. Ref. Oct. 1966. 22.5 J823  
English summary.
- 95766 LUCHININA, A. K. The structure of seeds and seedlings of licorice species *Glycyrrhiza glabra* L. and *G. uralensis* Fisch. (Rus) Bot. Zhur. [Moscow] 52(9):1267-1276. Ref. Sept. 1967. 451 R923  
English summary.
- 95767 LYMAN, H. Specific inhibition of chloroplast replication in *Euglena gracilis* by nalidixic acid. J. Cell. Biol. 35(3):726-730. Ref. Dec. 1967. 442.8 J828
- 95768 MADELIN, M. F. The genesis of spores of higher fungi. In Madelin, M. F., ed. The fungus spore, p. 15-37. Ref. 1966. QK601.M3  
Includes discussion.
- 95769 MAHABALE, T. S., and BIRADAR, N. V. Studies on palms: embryology of *Phoenix sylvestris* Roxb. Indian Acad. Sci. Proc. Sect. B, 67(2):77-96. Ref. Feb. 1968. 513 In25B
- 95770 MAHADEVAN, P. R., and TATUM, E. L. Localization of structural polymers in the cell wall of *Neurospora crassa*. J. Cell Biol. 35(2, Part 1 of 2):295-302. Ref. Nov. 1967. 442.8 J828
- 95771 MAIER, K. Wavy cell wall—natural structure or artifact? (Ge) Protoplasma 64(2):147-156. Ref. 1967. 442.8 P94  
English summary.  
Plants.
- 95772 MAKHANETS, I. A. Cytological and cytochemical investigation of development of female gametophytes in various rye forms differing in ploidy. (Ukr) Ukr. Bot. Zh. 25(2):79-90. Ref. 1968. 450 J8212J  
English summary.
- 95773 MANOLACHE, C., and others. The effect of BHC treatments on the morphology and anatomy of wheat plants. Rev. Roum. Biol. Ser. Bot. 12(4):273-279. Ref. 1967. QK1.R4  
I. Morlova, F. Manolache, and V. Ivascu, joint authors.
- 95774 MARKARYAN, D. S. The effect of dieldrin on the mitosis in *Crepis capillaris* sprouts. (Rus) Genetika 3:55-58. Ref. 1967. QH431.A1G4  
English summary.
- 95775 MATTICK, F. The root-disk of *Phytolacca dioica* and other examples of root disks. (Ge) Bot. Jahrbucher 86(1/4):38-49. Feb. 1, 1967. 450 En3B  
English summary.  
*Cinnamomum camphora*, *Ficus* spp. and other trees.
- 95776 MEINL, G. Investigations of the variation in lenticels of potato tubers due to variety and environment. (Ge) Flora Abt. B, Morphol. Geobot. 156(4):419-426. 1966. QK641.A1F5

- 95777 MICHELL, A. J., and SCURFIELD, G. Composition of extracted fungal cell walls as indicated by infrared spectroscopy. *Arch. Biochem. Biophys.* 120(3):628-637. Ref. June 1967. 381 Ar2
- 95778 MICKEL, J. T., and LERSTEN, N. R. Floating stomates (adestostomy) in ferns: distribution and ontogeny. *Amer. J. Bot.* 54(9):1181-1185. Ref. Oct.1967. 450 Am36  
Anemia spp. and Pyrrosia spp.
- 95779 MITCHELL, J. P. Combined protein and DNA measurements in plant cells using the dinitro-fluorobenzene and Feulgen techniques. *Roy. Microscop. Soc. J.* 87(3/4):375-381. Ref. 1967. 440.9 R81J
- 95780 MOLLENHAUER, H. H., MORRE, D. J., and BERGMANN, L. Homology of form in plant and animal Golgi apparatus. *Anat. Rec.* 158(3):313-317. July 1967. 447.8 An1
- 95781 MOURAVIEFF, I. In vitro demonstration of the ergastoplasm system in epidermic foliar cells; effects of calcium chloride, potassium nitrate, and some metabolites and inhibitors on the visibility of the system. (Fr) *Acad. Sci. Compt. Rend. Ser. D*, 265(15):1046-1049. Oct.9,1967. 505 P21
- 95782 MURTY, B. S., RAO, L. V. S., and MURTY, N. S. R. A cyto-morphological study of a narrow-leaved chilli mutant. *Andhra Agr. J.* 14(2):31-35. 1967. 34.2 An4
- 95783 NEWCOMB, E. H. A spiny vesicle in slime-producing cells of the bean root. *J. Cell Biol.* 35(2, Part 1 of 2):C17-C22. Ref. Nov.1967. 442.8 J828
- 95784 NIKOLAYEVSKA, L. D. Peculiarities of anatomical structure of some grasses-psam-mophytes of the lower Dnieper sands. (Ukr) *Ukr. Bot. Zh.* 25(2):61-69. Ref. 1968. 450 J8212J  
English summary.  
U.S.S.R.
- 95785 NILSSON, S. Notes on pollen morphological variation in *Gentianaceae-Gentianinae*. *Pollen Spores* 9(1):49-58. Ref. Apr.1967. 450 P762
- 95786 NORTON, B. E. Occurrence of silica in *Lepidosperma limicola* Wakefield. *Australian J. Sci.* 29(10):371-372. Apr.1967. 475 Au72  
A cytological study.
- 95787 NOZU, M. Electron microscopy of soybean nodule cell. (Ja) *Shimane Agr. Coll. Bull.* 15(A-1):9-14. Jan.1967. S539.J3S5  
English summary.  
Rhizobium as nodule bacterium.
- 95788 OHAD, I., SIEKEVITZ, P., and PALADE, G. E. Biogenesis of chloroplast membranes. I. Plastid differentiation in a dark-grown algal mutant (*Chlamydomonas reinhardtii*). *J. Cell. Biol.* 35(3):521-552. Ref. Dec.1967. 442.8 J828
- 95789 OHAD, I., SIEKEVITZ, P., and PALADE, G. E. Biogenesis of chloroplast membranes. II. Plastid differentiation during greening of a dark-grown algal mutant (*Chlamydomonas reinhardtii*). *J. Cell. Biol.* 35(3):553-584. Ref. Dec.1967. 442.8 J828
- 95790 OLSON, R. A., JENNINGS, W. H., and ALLEN, M. B. Spectral properties of a pigmented body in *Hymenomonas* sp.: an extra-chloroplast organelle containing chlorophyll. *J. Cell. Physiol.* 70(2, pt.1):133-140. Ref. Oct.1967. 444.8 J822
- 95791 OLSZEWSKA, M. J., and GABARA, B. Cytoenzymatic and autoradiographic research on the growing root hairs. (Fr) *Protoplasma* 64(4):381-399. Ref. 1967. 442.8 P94  
English summary.  
Of *Zea mays* and *Tradescantia bracteata*.
- 95792 OTIENO, N. C. The anatomy of common pasture grasses in Kenya II: *Digitaria scalarum* Chiov. (African couch grass). *East Afr. Agr. Forest. J.* 33(1):23-30. July 1967. 24 Ea74
- 95793 PADHYE, M. D. Male and female gametophytes of *Eleocharis geniculata* Roem. et Schult. *Indian Acad. Sci. Proc. Sect. B*, 67(2):54-60. Ref. Feb.1968. 513 In25B
- 95794 PANCHAKSHARAPPA, M. G. Embryological studies in some members of *Zingiberaceae*. II. *Elettaria cardamomum*, *Hitchenia caulina* and *Zingiber macrostachyum*. *Phytomorphology* 16(4):412-417. Ref. Dec.1966, pub. Sept. 1967. 450 P566
- 95795 PANKOW, H. Histogenetical studies of female flowers on *Ginkgo biloba* L. (Ge) *Deut. Bot. Ges. Ber.* 80(4):265-272. Ref. 1967. 451 D48
- 95796 PASSECKER, F. Adult phases of hops with juvenile foliation. (Ge) *Deut. Bot. Ges. Ber.* 80(4):273-278. Ref. 1967. 451 D48
- 95797 PEJOVICS, B. Occurrence of natural parthenocarp in almond. (Hu) *Kerteszi. Szoleszeti Folskola. Kiadv.* 3(2):227-242. 1966. SB13.K4
- 95798 PEVELING, E. Electron microscopy studies of cell structure during meiosis in anthers of *Peonia tenuifolia*. (Ge) *Deut. Bot. Ges. Ber.* 80(4):303-304. 1967. 451 D48  
English summary.
- 95799 POELT, J., and WUNDER, H. The biatorine and the lecanorine margins of lichen apothecia studies with the *Caloplaca ferruginea* group as an example. (Ge) *Bot. Jahrbucher* 86(1/4):256-265. Ref. Feb.1,1967. 450 En3B  
English summary.
- 95800 POJNAR, E., WILLISON, J. H. M., and COCKING, E. C. Cell-wall regeneration by isolated tomato-fruit protoplasts. *Protoplasma* 64(4):460-480. Ref. 1967. 442.8 P94
- 95801 RADIONENKO, A. YA. On some anomalies in apple tree embryogenesis (*Malus domestica* Brokh). (Ukr) *Ukr. Bot. Zh.* 25(2):70-78. Ref. 1968. 450 J8212J  
English summary.
- 95802 RAO, A. R., MENON, V. K., and MALAVIYA, M. The laticifers and latex of *Euphorbia tirucalli* Linn. *Indian Acad. Sci. Proc. Sect. B*, 67(2):61-67. Ref. Feb.1968. 513 In25B
- 95803 RAO, A. N. Morphogenetic effects of sugars and mannitol on *Regnellidium diphyllum*. *Flora Abt. B. Morphol. Geobot.* 156(4):452-463. Ref. 1966. QK641.A1F5
- 95804 RAO, A. N. Morphogenetic effects of sugars on *Regnellidium diphyllum* Lind. *Flora Abt. B. Morphol. Geobot.* 156(4):373-387. Ref. 1966. QK641.A1F5
- 95805 RAO, A. R., and SHARMA, M. Sclereids in *Picea morinda* Dietrich. *Phytomorphology* 16(4):408-411. Dec.1966, pub. Sept. 1967. 450 P566
- 95806 RATTAN, R. S. A note on abnormal zygospores in *Spirogyra rivularis* (Hassall) Rabenhorst. *Panjab. Univ. Res. Bull.* 18(1/2):249-250. June 1967. 513 Ea72
- 95807 RAVESTIJN, A. VAN. Pollen development in tomatoes. (Du) *Naaldwijk. Proefsta. Groenten-Fruiteelt Glas. Jaarverslag* 1966:105-108. 86 N112J  
English summary on p.6 of summaries.
- 95808 RAY, P. M. Radioautographic study of cell wall deposition in growing plant cells. *J. Cell. Biol.* 35(3):659-674. Ref. Dec.1967. 442.8 J828  
Oats, peas.
- 95809 RISUENO, M. C., GIMENEZ-MARTIN, G., and LOPEZ-SAEZ, J. F. Experimental analysis of plant cytokinesis. *Exp. Cell Res.* 49(1):136-147. Ref. Jan.1968. 442.8 Ex7
- 95810 RIVIERE, S. Origin and organization of radicular meristems in the adventive shoots of bulb scale of *Lilium candidum* L. (Fr) *Acad. Sci. C. R., Ser. D*, 264(24):2761-2764. June 12, 1967. 505 P21
- 95811 RODKIEWICZ, B., and GORSKA-BRYLASS, A. Occurrence of callose in the walls of meiotically dividing cell in the ovule of *Orchis* [maculata]. *Naturwissenschaften* 54(18):499-500. Sept.15, 1967. 474 N213
- 95812 RODKIEWICZ, B., and MILULSKA, E. Ultrastructure of ovule cells and embryo sac of lily [*Lilium candidum*] treated with colchicine. *Acad. Polon. Sci. Bull. Ser. Sci. Biol.* 15(9):561-563. 1967. 512 W262



- 95813 ROHEWAL, S. S., RAMANUJAM, S., and MEHRA, K. L. Plant type in Bengal gram. *Indian J. Genet. Plant Breeding* 26(3):255-261. Ref. Nov.1966. 64.8 In2
- 95814 ROHWEDER, O. Centrospermae studies. 3. Floral development and floral structure in the Silenoideae (Caryophyllaceae). (Ge) *Bot. Jahrbuch* 86(1/4):130-185. Ref. Feb.1,1967. 450 En3B  
English summary.
- 95815 ROLAND, F. Differentiation of the sporoderm in *Ficaria ranunculoides* Moench. Observation and evolution of the "Ubisch bodies." (Fr) *Pollen Spores* 9(3):415-425. Ref. Dec.1967. 450 P762  
English summary.  
Electron microscope study.
- 95816 ROLAND, J. C. Cellulose secretion in the walls of plant cells. (Fr) *Acad. Sci. C. R., Ser. D*, 264(24):2757-2760. June 12,1967. 505 P21  
In *Sambucus nigra*, and *Apium graveolens*.
- 95817 ROTH, T. F., and ITO, M. DNA-dependent formation of the synaptonemal complex at meiotic prophase. *J. Cell Biol.* 35(1):247-255. Ref. Oct.1967. 442.8 J828  
In *Lilium*.
- 95818 RUER, P. Morphology and anatomy of the root system of the oil palm. (Fr) *Oleagineux* 22 (10):595-599. Ref. Oct.1967. 77.8 OL2  
English summary.
- 95819 SAID, C. Cytological observations on the differentiation and evolution of staminal bases in *Bellis annua* L. in the course of microsporogenesis. (Fr) *Rev. Gen. Bot.* 74(879):377-387. Ref. Aug.1967. 450 R326  
Pollen germination.
- 95820 SALEH, M. R. I., and HABIB, A. M. Macro- and micromorphology of the stems and leaves of *Senecio desfontainei* Druce. *J. Pharm. Sci. U. A. R.* 6:47-59. 1965, pub.1966. 396.8 J826
- 95821 SAPRE, A. B. Bulk staining of ovules and ovaries to note the percentage of well-organized embryo sacs in sterile and semi-sterile plants utilized for breeding purpose. *Experientia* 24(3):311-312. Mar.15,1968. 475 Ex7  
Tested with rice.
- 95822 SAURE, M. What should the ideal apple look like? (Ge) *Obstbauversuchsring Alten Landes. Mitt.* 22(1):10-14. Jan.1967. 85 J76
- 95823 SCHUSTER, F. L. The gullet and trichocysts of *Cyathomonas truncata*. *Exp. Cell Res.* 49 (2):277-284. Ref. Feb.1968. 442.8 Ex7
- 95824 SCHWANITZ, G. Investigation of post-meiotic microsporogenesis. I. Morphogenesis of *Ruppia* [Ruppiaceae] pollens. (Ge) *Pollen Spores* 9(1):9-48. Apr.1967. 450 P762.  
French summary.
- 95825 SCHWIMMER, S., and BURR, H. K. Structure and chemical composition of the potato tuber. *Potato Handbook* 12:42-45. 1967. 75.8 P842P
- 95826 SERBANESCO-JITARIU, G. Considerations on the gynoeceum and fruit in *Scheuchzeria palustris* L. (Fr) *Rev. Roum. Biol. Ser. Bot.* 11(6):435-439. Ref. 1966. QK1.R4
- 95827 SHARMA, D. N. TRIPATHI, S. M., and SPRI-VASTAVA, A. K. Analytical study of abnormal sori in *Scolopendrium vulgare* Smith. *Indian Acad. Sci. Proc. Sect. B.* 65(4):135-141. Apr. 1967. 513 In25B
- 95828 SHEN, E. Y. F. Microspectrophotometric analysis of nuclear DNA in *Chara zeylanica*. *J. Cell Biol.* 32(2, Part 1 of 2):377-384. Ref. Nov. 1967. 442.8 J828
- 95829 SHIMONY, C., and FAHN, A. Light- and electron-microscopical studies on the structure of salt glands of *Tamarix aphylla* L. *Linn. Soc. London. J. Bot.* 60(383):283-288. Ref. Feb. 1968. 451 L64J
- 95830 SIGEE, D., and BELL, P. R. Deoxyribonucleic acid in the cytoplasm of the female reproductive cells of *Pteridium aquilinum*. *Exp. Cell Res.* 49(1):105-115. Ref. Jan.1968. 442.8 Ex7
- 95831 SQUILLACI, A. Interplanting of olives and citrus: observations on the root systems. (It) *Agricoltura* 17(4):69-76. Ref. Apr.1968. 16 Ag8226  
English summary, p.18.
- 95832 STAESCHE, K. Comparative anatomical investigations of drugs: *Rhizoma tormentillae* and rhizomes of used *Rosaceae*. (Ge) *Deut. Apoth.-Zeitung* 108(10):329-332. Mar.7,1968. 396.8 Su2  
Root morphology of *Potentilla erecta*.
- 95833 STERLING, C. Anatomy and histology of the tuber with respect of processed quality. *Plant Sci. Symp. Proc.* 1966:11-25. SB211.P8P59  
Bibliography, p.20-25.
- 95834 STEWARD, F. C., KENT, A. E., and MAPES, M. O. The culture of free plant cells and its significance for embryology and morphogenesis. *Curr. Top. Develop. Biol.* 1:113-154. 1966. QL951.C8  
Review of the literature.
- 95835 STEYAERT, R. General consideration of the genus *Ganoderma* with emphasis on the European species. (Fr) *Belg. Soc. Roy. Bot. Bull.* 100(2):189-211. Ref. 1967. 451 B41B  
Chiefly anatomy and morphology.
- 95836 STRAKA, H., and SIMON, A. *Palynologia madagassica et mascarenica*. *Fam.* 122-125. *Pollen Spores* 9(1):59-70. Ref. Apr.1967. 450 P762  
Text in French.
- 95837 STRAKA, H., SIMON, A., and CERCEAU-LAR-RIVAL. *Palynologia madagassica et mascarenica*, Families 155-166. (Fr) *Pollen Spores* 9 (3):427-466. Ref. Dec.1967. 450 P762
- 95838 STRUNK, CH. Demonstration of the apical pore in *Polystictus versicolor*. (Ge) *Arch. Mikrobiol.* 60(3):255-261. Ref. 1968. 442.8 Ar26  
English summary.
- 95839 STURROCK, T. T. Nucellar embryos of the mango. *Fla. State Hort. Soc. Proc.* 80:350-354. May 1,1968. 81 F66
- 95840 SUNDARA RAJAN, S. Embryological studies in *Compositae* floral morphology, sporogenesis and gametogenesis in *Emilia sonchifolia* (Linn.) DC. *Cur. Sci.* 37(1):26-28. Jan.5, 1968. 475 Sci23
- 95841 SVENSHNIKOVA, I. N., and BOLZAKINA, YU. P. Electron microscopic examination of sunflower seeds and accumulation of reserve substances. 6 p. *Transl.* 14461  
Study of mitochondria.  
Translation from *Akademiya Nauk SSSR. Doklady* 151(5):1222-1224. 1963.
- 95842 SYMPOSIUM ON THE FUNGUS SPORE, 18, BRISTOL, 1966. Proceedings, edited by M. F. Madelin. London, Butterworth, 1966. 338 p. QK601.M3  
Sponsored by the Colston Research Society at Bristol University.
- 95843 TARASENKO, N. D. A study of haploids of *Solanum tuberosum*. (Rus) *Genetika* 2:86-93. Ref. 1967. QH431.A1G4  
Includes pollination.
- 95844 THOMAS, H., and RAJHATHY, T. Single chromosome affinities in the A genome of *Avena*. *Nature* 214(5095):1357-1358. June 24, 1967. 472 N21
- 95845 TOMLINSON, P. B., and ZIMMERMANN, M. H. The "wood" of monocotyledons. *Int. Ass. Wood Anat. News Bull.* 2:4-24. Ref. 1967. 99.9 In824  
Morphology.
- 95846 TURIAN, G. The genesis of macroconidia of *Neurospora*. In Madelin, M. F., ed. *The fungus spore*, p.61-66. Ref. 1966. QK601.M3  
Includes discussion.
- 95847 UMEZAKI, I. The tetrasporophyte of *Nemalion vermiculare* Suringar. *Rev. Algol.* 9(1):19-24. Ref. Sept.1967. 450 R3212
- 95848 URBAN, I. The early stages of adventitious root initiation in *Calystegia sepium* (L.) R. Br. (Ge) *Flora Abt. B. Morphol. Geobot.* 156(4):388-394. 1966. QK641.A1F5  
English summary.

- 95849 VALET, G. On the endogenous origin of verticillate branches in certain Dasycladales. (Fr) Acad. Sci. Compt. Rend. Ser. D, 265(17):1175-1178. Ref. Oct.23,1967. 505 P21
- 95850 VASILEV, V., and BAEV, KH. Study on the flower formation in certain almond varieties. (Bu) Gradinar. Lozar. Nauk. 4(6):3-13. 1967. 87 G75  
English summary.
- 95851 VAUDOIS, N. Evidence for acropetal differentiation of the vascular system in the lower portion of the first internodes of *Centaurium umbellatum* seedlings undergoing rapid vascularization. (Fr) Rev. Gen. Bot. 74(879):397-409. Aug.1967. 450 R326
- 95852 VILLIERS, T. A. Cytolysomes in long-dormant plant embryo cells. *Nature* 214(5095):1356-1357. June 24,1967. 472 N21  
*Fraxinus excelsior*.
- 95853 WARDROP, A. B. Occurrence of structures with lysosome-like function in plant cells. *Nature* 218(5145):978-980. June 8,1968. 472 N21  
In *Chara* and *Eryngium*.
- 95854 WAY, D. W. Strawberry fruit malformation. I. Pomological aspects. East Malling Res. Sta. Annu. Rep. Apr.1968:199-203. 103 Ea7
- 95855 WEBSTER, T. R., and STEEVES, T. A. Developmental morphology of the root of *Selaginella martensii* Spring. *Can. J. Bot.* 45(4):395-404. Ref. Apr.1967. 470 C16C
- 95856 WEINHEIMER, W. H., and WOODBURY, G. W. The anatomy and morphology of the abscission layer in two cultivars of *Solanum tuberosum* L. *Amer. Potato J.* 44(11):402-408. Nov.1967. 75.8 P842
- 95857 WILSON, R. W., and NIEDERPRUEM, D. J. Cellobiose as a paramorphogen in *Schizophyllum commune*. *Can. J. Microbiol.* 13(12):1663-1670. Ref. Dec.1967. 448.8 C162
- 95858 YOO, B. Y., and BAYLEY, S. T. The structure of pores in isolated pea nuclei. *J. Ultrastruct. Res.* 18(5-6):651-660. Ref. June 1967. 440.8 J822
- 95859 YOSHIDA, M. Karyological studies on the garden Hyacinthus. (Ja) Shimane Agr. Coll. Bull. 15(A-1):90-94. Jan.1967. S539.J3S5  
English summary.
- 95860 ZANDONELLA, P. The nectar tubes of *Alsinoideae*, *Stellaria* and *Cerastium sensu lato*. (Fr) Acad. Sci. Compt. Rend. Ser. D, 264(21):2466-2469. May 22,1967. 505 P21
- ECOLOGY**
- 95861 ABEYWICKRAMA, B. A. The estuarine vegetation of Ceylon. Symp. Sci. Probl. Humid Trop. Zone Deltas Implications. Proc. 1966:207-210. GB1205.S3  
Ecological.
- 95862 ABRAMOVA, L. I. The first stages of overgrowing of the hydropat quarries. (Rus) Moscow Univ. Vestnik Ser. 6 Biol. Pochvoved. 1:30-37. Jan./Feb.1967. 442.9 M854  
In USSR.
- 95863 AHMAD, M. General features of East Pakistan vegetation. Symp. Sci. Probl. Humid Trop. Zone Deltas Implications. Proc. 1966:201-205. GB1205.S3  
Ecological.
- 95864 AKYEVA, M. Vegetation of takyr sand hill complexes in the southern part of central Kara-Kum. (Rus) Akad. Nauk Turkm. SSR Izv. Ser. Biol. Nauk 3:20-28. 1967. 442.9 Ak124
- 95865 ASHCROFT, G., RICHARDSON, E. A., and COX, L. M. Bioclimatology—a practical science. *Utah Sci.* 28(2):35-38. June 1967. 100 UtlF
- 95866 BERGER-LANDEFELDT, U. Energy transformation at a standort. (Ge) Bot. Jahrbucher 86(1/4):402-448. Feb.1,1967. 450 En3B  
English summary.  
Bibliography, p.440-448.  
Plant ecology, including solar radiation, evapotranspiration, photosynthesis.
- 95867 BOBRUIKO, B. On some peculiarities of the natural regeneration of oak [*Quercus*] under the forest crown cover in the Gorjache-Kluchevsky and Siversky forest farms of the Krasnodar region. (Ge) Arch. Forstwesen 17(1):65-74. 1968. 99.8 Ar22  
English summary.  
*Quercus* varieties in U. S. S. R.
- 95868 BORG, P. Ecological notes on *Fucus wracks* near Helsinki. Soc. Fauna Flora Fenn. Memo. 43:20-36 map. Ref. 1967. 511 H36Me
- 95869 BRADIS, E. M. Is there a bog type of vegetation? (Ukr) Ukr. Bot. Zh. 25(2):55-60. Ref. 1968. 450 J8212J  
English summary.  
In U.S.S.R.
- 95870 CHAPMAN, V. J. Some factors involved in mangrove establishment. Symp. Sci. Probl. Humid Trop. Zone Deltas Implication. Proc. 1966:219-225. GB1205.S3  
Physiology in relation to its ecology.
- 95871 COLE, N. H. A. Ecology of a moist semi-deciduous forest on Kogia Hill in Sierra Leone. Inst. Fundamental Afr. Noire Bull., Ser. A. Sci. Natur. 30(1):100-113, map. Jan.1968. 515 D14
- 95872 CULBERSON, W. L., and CULBERSON, C. F. Habitat selection by chemically differentiated races of lichens [*Ramalina siliquosa*]. *Science* 158(3805):1195-1197. Ref. Dec.1,1967. 470 Sci2
- 95873 DARLINGTON, A. The practical integration of plant and animal ecology at school level. *Brit. Ecol. Soc. Symp.* 7:11-15. 1966. 451 B775  
In Great Britain.
- 95874 DAYAL, R., and GUPTA, O. S. D. The soil fungi of Varanasi, India, in relation to the surface vegetation. *Oikos* 19(1):139-142. Ref. 1968. 410 Oi4
- 95875 DELEPINE, R. The marine vegetation in western Antarctica compared to that of the French Iles Australes. Biographic sequels. (Fr) Soc. Biogr. Compt. Rend. 373/374:52-68 map. Ref. Dec.1966. 505 P216
- 95876 EDWARDS, P. J. Variation between observers using the point bridge method of botanical survey. *S. Afr. J. Agr. Sci.* 10(3):651-657. Sept. 1967. 24 Su3
- 95877 FROMENT, A., and TANGHE, M. Repercussion of ancient forms of agriculture on soils and flora. (Fr) Belg. Soc. Roy. Bot. Bull. 100(2):335-352 map. Ref. 1967. 451 B41B  
In a Belgian oak forest; chiefly plant ecology.
- 95878 GAMS, H. Alpine peat bogs. (Fr) Soc. Biogr. Compt. Rend. 375/376:89-92. Mar.1967. 505 P216
- 95879 GEORGESCU, C. C., and TUTUNARU, V. Distribution of the *Fraxinus coriariaefolia* Scheele and its delimitation by *Fraxinus pallisae* Wilm. and *Fraxinus holotricha* Koehne. (Rum) Rev. Padurilor 82(6):281-286, map. Ref. June 1967. 99.8 R327  
English summary.
- 95880 GILLET, H. Attempt at evaluating the mass of vegetation in the Sahel zone (annual plants). (Fr) J. Agr. Trop. Bot. Appl. 14(4-5):123-158, map. Apr./May 1967. 26 J822
- 95881 GIRENKO, A. P., and BABICH, A. A. Interrelations of plants in agrophytocenosis. (Rus) Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina. Dokl. 6:10-11. June 1967. 20 Ak1  
Field crops.
- 95882 GLADYSHEV, A. I. Quantitative characteristics and biological productivity of licorice plant association in the mid-course alluvial plains of Amu-Daria. (Rus) Akad. Nauk Turkm. SSR Izv. Ser. Biol. Nauk 3:39-45. 1967. 442.9 Ak124
- 95883 GNIDENKO, V. I. Age distribution and composition of natural mixed forests in the Gorgans. (Rus) Lesovod. Agrolesomeliior. 12:40-48. Ref. 1967. SD1.L44  
Effects of altitude on forests.



- 95884 GNIDENKO, V. I. The interaction of beech, silver fir spruce and the dynamics of the natural formation of mixed timber stands. (Rus) Lesovod. Agrolesomelior. 12:57-64. Ref. 1967. SD1.L44  
In U.S.S.R.
- 95885 GREIG-SMITH, P. The teaching of quantitative methods in plant ecology. Brit. Ecol. Soc. Symp. 7:161-168. Ref. 1966. 451 B775
- 95886 HAGNER, S. Natural regeneration - an important factor in Svenska Cellulosa Aktiebolaget [Swedish Cellulose Company] silviculture. (Sw) Jord Skog 7/8:14-15. 1967. 58.8 M373
- 95887 HALL, J. B., and JENIK, J. Contribution towards the classification of savanna in Ghana. Inst. Fondamental Afr. Noire Bull., Ser. A. Sci. Natur. 30(1):84-99, map. Ref. Jan. 1968. 515 D14
- 95888 HARPER, J. L. The teaching of experimental plant ecology. Brit. Ecol. Soc. Symp. 7:135-145. 1966. 451 B775
- 95889 HOFER, H. R. The heat loving rocky heath of Insurbria; with particular reference to the species of the Mediterranean sclerophyllous vegetation zone. (Ge) Bot. Jahrbucher 87(2): 176-251, map. June 14, 1967. 450 En3B  
English summary.  
Bibliography, p.246-251.  
Ecology.
- 95890 HOLUBYEV, V. M. Aspects of vegetation in the Crimean limestone plateau. (Ukr) Ukr. Bot. Zh. 25(2):39-45. Ref. 1968. 450 J8212J  
English summary.
- 95891 JANZEN, D. H. Why mountain passes are higher in the Tropics. Amer. Natur. 101(919): 233-249. Ref. May/June 1967. 470 Am36  
Includes ecology of plants and insects.
- 95892 KASSAS, M., and ZAHHRAN, M. A. On the ecology of the Red Sea littoral salt marsh, Egypt. Ecol. Monogr. 37(4):297-315, map. Ref. Fall 1967. 410 Ec72
- 95893 KATZNELSON, J. Observations on the distribution and seed size of subterranean clover (*Trifolium subterraneum* L.) in Israel. Israel J. Agr. Res. 17(3):139-144. Ref. July 1967. 107 J552
- 95894 KAUTT, R. Fundamental investigations on floral, vegetation and ecologic studies. (Ge) Baden-Württemb. Landesstelle Naturschutz Landschaftspflege Veröffentlichungen 35:7-27. Ref. 1967. 410.9 W96
- 95895 KLOSS, K. The plant communities of the grasslands of the great Friedland meadows (East Mecklenburg). (Ge) Arch. Naturschutz Landschaftsforsch. 6(3):103-121, map. Ref. 1966. 279.8 Ar2  
English summary.
- 95896 KORCHAGIN, A. A. G. F. Morozov, the author of the idea of the types of forests. (Rus) Bot. Zhur. [Moscow] 52(11):1669-1679. Ref. Nov. 1967. 451 R923
- 95897 KOVACS, M., and MATHE, I. Riverine vegetation of the Ipoly. I. (Ge) Acta Bot. 13(1/2): 133-168, map. Ref. 1967. 450 Ac823  
English summary.
- 95898 LAPINSKENE, N. A. The underground part of some herbaceous phytocoenoses on eroded soils of Lithuanian S.S.R. (Rus) Bot. Zhur. [Moscow] 52(9):1342-1346. Sept. 1967. 451 R923  
Pastures.
- 95899 LIMA, D. DE A. Contribuicao ao estudo do paralelismo de flora amazonico-nordestina [Contribution to the study of the parallelism of the Northeast and Amazon flora]. Inst. Pesqui. Agron. Pernambuco. Bol. Tec. 19,30 p. Ref. Sept. 1966. S15.I53  
English summary.
- 95900 LOTSCHERT, W. Tundra vegetation in Norway. (Ge) Natur. Mus. 97(6):198-206. June 1967. 509 F856
- 95901 MAKAREVICH, V. N. On the use of Czekanovski method in studying the dynamics of the composition of meadow community. (Rus) Bot. Zhur. [Moscow] 52(11):1630-1639. Ref. Nov. 1967. 451 R923
- 95902 MALUREANU, S. Natural regeneration from seeds of some forest trees in arboretum Mihailesti. (Rum) Fev. Padurilor 83(1):15-18. Jan. 1968. 99.8 R327
- 95903 MATSUOKA, K. Studies on the grassland in Shikoku. 1. Type of grassland and grassland vegetation. (Ja) Shikoku Agr. Exp. Sta. Bull. 17:105-205, map. Ref. Sept. 1967. 107.6 Z4  
English summary.
- 95904 MERRITT, C., and GIESE, R. L. Forest stand ordination by computer. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.6:182-188. 1967. 99.9 In82
- 95905 MERTON, L. F. H. Ecology teaching in tropical and arid countries. Brit. Ecol. Soc. Symp. 7:201-210. 1966. 451 B775  
Plant and animal ecology.
- 95906 MONK, C. D. Tree species diversity in the Eastern Deciduous Forest with particular reference to north central Florida. Amer. Natur. 101(918):173-187. Ref. Mar./Apr. 1967. 470 Am36
- 95907 MOONEY, H. A. Some approaches to the teaching of ecology in America. Brit. Ecol. Soc. Symp. 7:179-187. 1966. 451 B775  
Plant ecology included.
- 95908 MULYARCHUK, S. O. The forests of the Chernigov Region. I. Pine and broad-leaved coniferous forests. (Ukr) Ukr. Bot. Zh. 25(1): 47-54. Ref. Jan./Feb. 1968. 450 J8212J  
English summary.
- 95909 MULYARCHUK, S. O. The forests of the Chernigov region. II. Hardwood forests. (Ukr) Ukr. Bot. Zh. 25(2):46-54. Ref. 1968. 450 J8212J  
English summary.  
U.S.S.R.
- 95910 NIEMI, A. Hemerophilous plants on gull skerries in the archipelago SW of Helsinki. Soc. Fauna Flora Fenn. Memo. 43:8-16 map. Ref. 1967. 511 H36Me
- 95911 NOBUHARA, H. Analysis of coastal vegetation on sandy shore by biological types in Japan. Jap. J. Bot. 19(3):325-351. Ref. 1967. 450 J27
- 95912 ODUM, E. P. Energy flow in ecosystems; a historical review. Amer. Zool. 8(1):11-18. Ref. Feb. 1968. 410 Am3  
Includes plant ecology.
- 95913 PASSARGE, H. On determining the naturally conditioned portion of conifers species in mixed forest stands. (Ge) Arch. Forstwesen 17(1): 17-31. Ref. 1968. 99.8 Ar22  
English summary.  
Ecology.
- 95914 PATRICK, R. Diatom communities in estuaries. Conf. Estuaries. Papers 1964:311-315. 1967. QH91.A3C6 1964
- 95915 PEDROTTI, C. C. The fir forest of Varramista (Pisa). Flowering plants and moss flora and plant geography characteristics. (It) Webbia 22(1):39-65, map. Ref. 1967. 450 W38  
English summary.  
Ecology of *Abies alba*.
- 95916 PENZES, A. Littoral plants. (Hu) Halaszat 13(1):10-11. Jan./Feb. 1967. 414.8 H12
- 95917 PIRES, J. M. The estuaries of the Amazon and Oiapoque Rivers and their floras. Symp. Sci. Probl. Humid Trop. Zone Deltas Implications. Proc. 1966:211-218, map. Ref. GB1205.S3  
Ecological.
- 95918 PROCTOR, M. C. F. The descriptive approach to vegetation studies. Brit. Ecol. Soc. Symp. 7:113-123. Ref. 1966. 451 B775
- 95919 PROVOST, M. Contribution to the study of plant repopulation of recently cleared bog surfaces. (Fr) Soc. Biogr. Compt. Rend. 373/374: 18-32 map. Dec. 1966. 505 P216  
In France.
- 95920 QUADRAT-I-KHUDA, M. Humid tropics and their vegetation. Symp. Sci. Probl. Humid Trop. Zone Deltas Implications. Proc. 1966: 191-199. Ref. GB1025.S3

- 95921 RAPPARD, F. W. Salt seaweed [*Vaucheria*] bogs in Breede Gooi? (Du) *Levende Natuur* 70(3):49-55. Mar.1967. 410 L57  
Ecology, including higher plants.
- 95922 REINERS, W. A. Relationships between vegetational strata in the pine barrens of central Long Island, New York. *Torrey Bot. Club. Bull.* 94(2):87-99. Ref. Mar./Apr.1967. 451 T63B
- 95923 SCAMONI, A. Vegetation—site; comparison of methods in the upper forester's district of Chorin near Eberswalde. (Ge) *Arch. Naturschutz Landschaftsforsch.* 6(4):167-206, map. Ref. 1966. 279.8 Ar2  
English summary.  
Forest site investigations from the point of view of plant ecology.
- 95924 SCAMONI, A. The woodruff-beech forest (*Asperulo-Fagetum*). (Ge) *Bot. Jahrbucher* 86(1/4):494-521. Ref. Feb.1,1967. 450 En3B  
English summary.  
East Germany.
- 95925 SCHAEFER, R. Observations on the mesotrophic peat bogs of the alluvial plain of the Rhine in Alsace. (Fr) *Soc. Biogr. Compt. Rend.* 373/374:46-52. Ref. Dec.1966. 505 P216
- 95926 SCHMID, M. Brief description of the vegetation occupying the recent alluvia of southern Indo-China. (Fr) *Symp. Sci. Probl. Humid Trop. Zone Deltas Implications. Proc.* 1966: 235-241. GB1205.S3  
English summary.  
Ecological for Cambodia and Vietnam.
- 95927 SCHRETZENMAYR, M. The *Aira flexuosa*-beech forest (Markgraf 1925); an observation 40 years later. (Ge) *Bot. Jahrbucher* 86(1/4): 522-526. Feb.1,1967. 450 En3B  
English summary.
- 95928 SCHWICKERATH, M. The vegetation map of upper Venn and North Eifel. (Ge) *Ber. Deut. Landeskunde* 38(2):313-325, map. June 1967. 18 B454
- 95929 SEREBRYAKOV, I. G., and SEREBRYAKOVA, T. I. Ecological morphology of higher plants in the U.S.S.R. (Rus) *Bot. Zhur. [Moscow]* 52(10):1449-1471. Oct.1967. 451 R923  
English summary.  
Review of the literature.
- 95930 SHARMA, B. M. Ecological study of desert soils of Churu, Rajasthan—phosphorus status. *J. Soil Water Conserv. India* 15(1/2):72-75. Jan./June 1967. 56.8 J824  
Chiefly plant ecology.
- 95931 SHELYAH-SOSONKO, YU. R. Population phytocenotypical areas of *Quercus robur* L. and *Tilia cordata* Mill. (Uk) *Ukr. Bot. Zh.* 25(2): 32-38, map. Ref. 1968. 450 J821J  
English summary.
- 95932 SHVIDENKO, A. I. Regeneration of silver fir on narrow cut-over areas under conditions of wet fir-beech type forests. (Rus) *Les. Khoz.* 2:14-17. Feb.1967. 99.8 L5622
- 95933 SLOBODKIN, L. B., SMITH, F. E., and HAIRSTON, N. G. Regulation in terrestrial ecosystems, and the implied balance of nature. *Amer. Natur.* 101(918):109-124. Ref. Mar./Apr.1967. 470 Am36  
Includes plant and insect ecology.
- 95934 STANESCU, V., and TIRZIU, D. A contribution to the study of beach stands in Paring mountains. (Rum) *Rev. Padurilor* 83(1):6-10. Jan. 1968. 99.8 R327  
Ecology and distribution.
- 95935 STOYKO, S. M. Regularity of formation of forest vegetation belts in the southern part of the Ukrainian Carpathians. (Rus) *Lesovod. Agrol. someliar.* 12:12-22, map. Ref. 1967. SD1.L44  
Climate and altitude affecting vegetation.
- 95936 SUBOTIC, R. The conditions of distribution of *Prunus mahaleb* L. in the Ibar River canyon. (Se) *Savremena Poljoprivreda* 15(4):357-360. Apr.1967. 21 P75  
English summary.  
Ecology and soils.
- 95937 VARLEY, G. C., SOUTHERN, H. N., and WOOD-DELL, S. R. J. Problems in the linkage of plant and animal ecology in a university syllabus. *Brit. Ecol. Soc. Symp.* 7:17-23. 1966. 451 B775
- 95938 VISA, M., and BORG, P. Notes on the euhemeric vegetation of Hameenlinna. *Soc. Fauna Flora Fenn. Memo.* 43:37-44. Ref. 1967. 511 H36Me
- 95939 VLIJIM, L. The teaching of ecology on the continent, with special reference to the Netherlands. *Brit. Ecol. Soc. Symp.* 7:189-199. Ref. 1966. 451 B775  
Includes plant and animal ecology.
- 95940 VOLK, O. H. Vegetation areas of South-West Africa. (Ge) *S. West Afr. Sci. Soc. J.* 20:25-58, map. Ref. 1965/66. 515 So85  
Ecology.
- 95941 WESTHOFF, V., and REININK, K. *Osmunda regalis* L. at Terschelling; ecological and phytosociological aspects. (Du) *Gorteria* 3(13): 204-209. Ref. Nov.1,1967. 450 G68  
English summary.
- 95942 WINTERHOFF, W., and HUBER, M. A few noteworthy ecologic findings in Upper Swabia. (Ge) *Baden-Wurttemb. Landesstelle Naturschutz Landschaftspflege Veroffentlichungen* 35:32-38. Ref. 1967. 410.9 W96  
*Cratoneurum decipiens* Loeske *Laserpitium prutenicum* L.
- 95943 YATOH, K. Ecological studies of the forest in the Chubu district. I. Communities of *Chosenia arbutifolia*, river-side of the Azusa, Nagano Prefecture. I. (Ja) *Mie Univ. Fac. Agr. Bull.* 35:63-75, map. Mar.1967. 107.6 T78
- 95944 YATOH, K. I. Ecological studies of the forest in the Chubu Region, Honshu. Forest vegetation of Mt. Ontake. (Ja) *Mei Univ. Fac. Agr. Bull.* 36:13-21. Ref. Dec.1967. 107.6 T78  
In Japan.
- 95945 ZOLLER, H. On the occurrence of *Juncus squarrosus* L. in Canton Ticino. (Ge) *Bot. Jahrbucher* 86(1/4):549-555. Feb.1,1967. 450 En3B  
English summary.  
Ecology.

## GENETICS

- 95946 ALAM, S., and SANDAL, P. C. Inheritance of cytoplasmic male-sterility in sudangrass. *Crop Sci.* 7(6):668-669. Ref. Nov./Dec.1967. 64.8 C383
- 95947 ALDERSON, T., and SCAZZOCCHIO, C. A system for the study of interlocus specificity for both forward and reverse mutation in at least eight gene loci in *Aspergillus nidulans*. *Mutation Res.* 4(5):567-577. Ref. Sept./Oct.1967. 443.8 M98
- 95948 ALI, A. M. M. Nitrous acid-induced mutants in *Schizosaccharomyces pombe*. *Indian J. Genet. Plant Breeding* 26(3):337-349. Ref. Nov.1966. 64.8 In2
- 95949 ANDO, A., and VENCOSKY, R. The effect of gamma-irradiation on a polygenically inherited character in *Nicotiana tabacum* L. in relation to selection after treatment of aged seeds. *Mutation Res.* 4(5):605-614. Ref. Sept./Oct.1967. 443.8 M98
- 95950 ANKINEEDU, G., and KULKARNI, L. G. A short duration castor mutant for irrigated tracts of Andhra Pradesh. *Indian Farming* 17(12):6,15. Mar.1968. 22 In283  
Gamma rays and neutrons treatment.
- 95951 APPADURAI, R., and PONNAIYA, B. W. X. Inheritance of fertility restoration in *Sorghum* (Moench). *Madras Agr. J.* 54(8):393-404. Ref. Aug.1967. 22 M262
- 95952 APPADURAI, R., and PONNAIYA, B. W. X. Occurrence of chromosomal aberrants in genome substitution lines indicative of diversity of parents in Eu-*Sorghum*. *Madras Agr. J.* 54(6):265-270. Ref. June 1967. 22 M262



- 95953 AUERBACH, C. Lethal sectoring and the origin of complete mutants in *Schizosaccharomyces pombe*. *Mutation Res.* 4(6):875-878. Nov./Dec.1967. 443.8 M98
- 95954 AUSTIN, A. The IARI [Indian Agricultural Research Institute] now has a new amino acid analysis laboratory. *Indian Farming* 17(12): 42-44. Mar.1968. 22 In283  
For genetic improvement of food grains.
- 95955 AVANZI, S., and others. The chromosome breaking effect of the irradiated endosperm in water-soaked seeds of durum wheat. *Mutation Res.* 4(5):704-707. Ref. Sept./Oct.1967. 443.8 M98  
G. Corsi, F. D'Amato, C. Floris, and P. Meletti, joint authors.  
X-rays.
- 95956 AZEVEDO, J. L., and ROPER, J. A. Lethal mutations and balanced lethal systems in *Aspergillus nidulans*. *J. Gen. Microbiol.* 49(1): 149-155. Ref. Oct.1967. 448.3 J823
- 95957 BAETCKE, K. P., and ALSTON, R. E. The composition of a hybridizing population of *Baptisia sphaerocarpa* and *Baptisia leucophaea*. *Evolution* 22(1):157-165. Mar.1968. 443.8 Ev62
- 95958 BAINS, K. S., ATHWAL, D. S., and GUPTA, V. P. Combining ability of pearl millet inbreds in relation to genetic diversity of male sterile lines. *Punjab. Agr. Univ. J. Res.* 4(2): 192-196. June 1967. S19.P8  
A statistical analysis of its ability.
- 95959 BHATIA, C. R. Increased mutagenic effect of ethyl methanesulfonate when dissolved in dimethyl sulfoxide. *Mutation Res.* 4(3):375-376. May/June 1967. 443.8 M98  
In *Arabidopsis thaliana*.
- 95960 BIANCHI, A., and SALAMINI, F. Heredity and the genetic improvement of corn. (It) *Sementi Elette* 13(5):256-313. Ref. Sept./Oct. 1967. 61.8 Se53  
English summary.  
Cytology and heterosis included.
- 95961 BIERI, W. G. Genotype-environment interactions studied on several different cereals. (Ge) *Schweiz. Landwirt. Forsch.* 4(3):359-370. Ref. 1967. 17 Sch99  
English summary.  
Wheat, barley.
- 95962 BRIGHAM, R. D. Inheritance of two female-sterile characters in dwarf-internode castor (*Ricinus communis* L.). *Crop Sci.* 7(6):648-650. Ref. Nov./Dec.1967. 64.8 C883
- 95963 CAMERON, F. M., and REES, H. The influence of B chromosomes on meiosis in *Lolium*. *Heredity* 22(3):446-450. Ref. Aug.1967. 443.8 H42
- 95964 CASADY, A. J. Effect of a single height gene (*Dw3*) of *Sorghum vulgare* Pers. on certain culm and leaf blade characteristics. *Crop Sci.* 7(6):595-598. Ref. Nov./Dec.1967. 64.8 C883
- 95965 CASAS, E. A study of heterosis among collections representing three Mexican race composites of *Zea mays* L. *Dis. Abstr.* Sect. B, 28 (4):1358B. Oct.1967. Z5055.U49D53
- 95966 CHOI, H. O., BAE, S. H., and CHUNG, K. S. Studies on the breeding of artificially induced mutation in rice. I. Induction of mutation by irradiation. (Ko) *Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep.* 10(1):1-12. Ref. Sept.1967. 22.5 K843  
English summary.
- 95967 CHOWDHURY, J. B., and DAS, K. Male sterility in yellow sarson. *Indian J. Genet. Plant Breeding* 26(3):374-380. Ref. Nov.1966. 64.8 In2  
*Brassica campestris* var. yellow sarson.
- 95968 CRESS, C. E. Reciprocal recurrent selection and modifications in simulated populations. *Crop Sci.* 7(6):561-567. Nov./Dec.1967. 64.8 C883  
Genetic study with computer simulation.
- 95969 DARK, S. O. S. A genetic effect on the progeny of tomato plants sprayed with 2,4-D. *Nat. Inst. Agr. Bot. J.* 11(1):199-204. 1967. 103 N21J
- 95970 DASKALOV, KH., and OGYANOVA, A. Heterosis effect in some interspecific tomato hybrids from germination to bud formation at 10 hr day-length. (Bu) *Gradinar. Lozar. Nauk.* 4(6):45-61. Ref. 1967. 87 G75  
English summary.
- 95971 DAVIES, D. R. UV [ultraviolet]-sensitive mutants of *Chlamydomonas reinhardtii*. *Mutation Res.* 4(6):765-770. Ref. Nov./Dec.1967. 443.8 M98
- 95972 DECOURTYE, L. Genetical studies on apple and pear. (Fr) *Ann. Amélior. Plantes* 17(3): 243-265. Ref. 1967. 14 F8499A  
English summary.
- 95973 DERENNE, P. Triploidy and trisomy in barley. I. The triploid state. (Fr) *Bull. Rech. Agron. Gembloux* 2(2):242-259. 1967. S5.B8
- 95974 DESSUREAUX, L. Heritability of pleiocotily in alfalfa. *Forage Notes [Ottawa]* 13(1):20. Spring 1967. 60.8 F742
- 95975 DOGGETT, H. Yield increase from *Sorghum* hybrids. *Nature* 216(5117):798-799. Nov.25, 1967. 472 N21
- 95976 DUARTE, L. S. N. Chromosomal behaviour of some rice varieties (*Oryza sativa* L.). (Por) *Pesquisa Agropecuar. Brasil.* 1:263-268. Ref. 1966. S15.P42  
English summary.
- 95977 DUBININ, N. P. The Great October Socialist Revolution and progress of genetics in the USSR. (Rus) *Genetika* 10:3-14. Oct.1967. QH431.A1G4  
Chiefly plant genetics.
- 95978 EASTIN, J. D., and JOHNSON, G. I. Break-through sought in grain sorghum production. *Nebr. Univ. Coll. Agr. Home Econ. Quart. Serving Farm Ranch Home* 14(4):4-7. Winter 1968. 100 N27N  
Breeding of sorghum and yield.
- 95979 ENGLE, R. L., and GABELMAN, W. H. Inheritance and mechanism for resistance to ozone damage in onion, *Allium cepa* L. *Amer. Soc. Hort. Sci. Proc.* 89:423-430. Ref. Dec.1966. 81 So12
- 95980 FEDOROV, V. S., and SMIRNOV, V. G. Genetics of rye (*Secale cereale* L.). IV. (Rus) *Genetika* 2:94-102. 1967. QH431.A1G4  
Anthocyanin pigmentation.
- 95981 FEDOROV, V. S., SMIRNOV, V. G., and SOSNIKHINA, S. P. Genetics of rye (*Secale cereale* L.). V. On the inheritance of self-fertility in diploid rye. (Rus) *Genetika* 3:23-28. Ref. 1967. QH431.A1G4  
English summary.
- 95982 FINCH, R. A. Natural chromosome variation in *Leontodon*. *Heredity* 22(3):359-386. Ref. Aug.1967. 443.8 H42
- 95983 FOSTER, A. E., PETERSON, G. A., and BANASIK, O. J. Heritability of factors affecting malting quality of barley, *Hordeum vulgare* L., emend. Lam. *Crop Sci.* 7(6):611-613. Ref. Nov./Dec.1967. 64.8 C883
- 95984 FYFE, J. L. An association between variegation of the inflorescence and growth habit in lucerne. *J. Agr. Sci. [London]* 69(2):291-292. Oct.1967. 10 J822  
Genetic correlation.
- 95985 GALINDO, A. J., and ZENTMYER, G. A. Genetics and cytology of *Phytophthora [drechsleri]*. *Nature* 214(5095):1356. June 24,1967. 472 N21
- 95986 GALLAIS, A. A model for studying genetic effects. (Fr) *Ann. Amélior. Plantes* 17(3):229-241. 1967. 14 F8499A  
English summary.  
Genotype statistical analysis applied to diploid and tetraploid plant populations.
- 95987 GALLAIS, A. Theoretical performance of diploid synthetic varieties in succeeding generations. I. With panmixis; influence of the number of parents and of the initial coefficient of inbreeding. (Fr) *Ann. Amélior. Plantes* 17(3):291-301. 1967. 14 F8499A  
English summary.

- 95988 GARDOU, C. Some tentative experimental inter-specific hybridization of *Centaurea jacea* L. s. lato. (Fr) Acad. Sci. Compt. Rend. Ser. D, 265(17):1195-1198. Oct.23,1967. 505 P21
- 95989 GERSTEL, D. U., and BURNS, J. A. Research note No.2. Flower variegation in *Nicotiana glauca* L. hybrids: reproductive instability. Tobacco [New York] 166(6):27-28. Feb.9,1968. 286.89 T552
- 95990 GHAWGHAWE, B. G., BHALL, N. L., and SHEKAR, V. B. Linkage groups in *Sorghum*. Indian J. Genet. Plant Breeding 26(3):317-326. Ref. Nov.1966. 64.8 In2
- 95991 GILL, K. S., and YERMANOS, D. M. Cytogenetic studies on the genus *Linum*. I-II. Crop Sci. 7(6):623-631. Ref. Nov./Dec.1967. 64.8 C883
- I, Hybrids among taxa with 15 as the haploid chromosome number; II, Hybrids among taxa with nine as the haploid chromosome number.
- 95992 GOPALAKRISHNAN, R., and SHASTRY, S. V. S. Cytogenetics of *Oryza latifolia* X *O. australiensis*. Indian J. Genet. Plant Breeding 26(3):237-245. Ref. Nov.1966. 64.8 In2
- 95993 GOUD, J. V. Selection history and induced polygenic variability in *Triticum aestivum*. Crop Sci. 7(6):678-680. Nov./Dec.1967. 64.8 C883
- 95994 GRANT, C. J. The pattern of chromosome aberrations after the X-irradiation of *Trillium grandiflorum* pollen. Mutation Res. 4(3):307-314. Ref. May/June 1967. 443.8 M98
- 95995 GRANT, V. Linkage between morphology and viability in plant species. Amer. Natur. 101(918):125-139. Ref. Mar./Apr.1967. 470 Am36
- Includes genes affecting viability.
- 95996 GROFF, D., and BEMIS, W. P. Bivalent frequencies in interspecific hybrids from three xerophytic species of *Cucurbita*. Southwest. Natur. 12(4):365-368. Dec.31,1967. 409.6 So8
- 95997 GUPTA, V. P., and SINGH, H. Role of genetic diversity in combining ability of *Pennisetum inbreds*. Punjab Agr. Univ. J. Res. 4(1):41-46. Mar.1967. S19.P8
- 95998 GUY, P., and GENIER, G. Structure and evolution of advanced generations of an autotetraploid hybrid under panmixia. (Fr) Ann. Amélior. Plantes 17(3):277-290. 1967. 14 F8499A
- English summary.
- Statistical formulas for the study of hybrids of the first generation.
- 95999 HANNA, A. S., and HAYES, J. D. Genetic studies in field beans, *Vicia faba* L. II. Variation in flower characters in diallel cross. (Ge) Z. Pflanzenzucht. 58(1):20-28. Ref. Aug.1967. 450 Z36
- Includes flowering date.
- 96000 HARA, S. Genetical studies on the wild rice of Formosa. 4 p. Transl. 16846
- Translation from Japanese Journal of Genetics 18(4):183-184. 1942.
- 96001 HAZARIKA, M. H., and REES, H. Genotypic control of chromosome behaviour in rye. X. Heredity 22(3):317-332. Ref. Aug.1967. 443.8 H42
- 96002 HELM, J. L., FERGASON, V. L., and ZUBER, M. S. Development of high-amylase corn (*Zea mays* L.) by the backcross method. Crop Sci. 7(6):659-662. Nov./Dec.1967. 64.8 C883
- 96003 HESEMANN, C. U., and GAUL, H. Importance of macro-mutations for plant breeding. II. Example of the independent variation of the component characters of a spring barley mutant on a different genetic background. (Ge) Z. Pflanzenzucht. 58(1):1-14. Ref. Aug.1967. 450 Z36
- English summary.
- 96004 HOFFMANN, G. M. Heterokaryosis and parasexuality of *Fusarium oxysporum*. (Ge) Zentralbl. Bakteriell. Parasitenk. Infektionskr. Hyg. Abt. I, Orig. 205(1/3):80-81. Dec.1967. 448.3 C33
- 96005 HOOKS, J. A. Estimates of general and specific combining ability, heterosis and heritability of eight agronomic traits in castorbeans. Diss. Abstr., Sect. B, 28(6):2228B. Dec.1967. Z5055.U49D53
- 96006 ISAEV, S. Applying Michurin methods in apple breeding. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 9:40-41. Sept.1967. 281.8 Se4
- Genetical aspect.
- 96007 IVANOV, I., and VALCHEV, V. Inheritance of some characters and properties in intervarietal crosses between early and medium early dessert grapevine varieties. (Bu) Gradinar. Lozar. Nauk. 4(6):97-112. 1967. 87 G75
- 96008 IVANOV, I., and VULCHEV, V. Studies on seed offsprings of crosses between inflorescences of basic shoots and side shoots of dessert grape varieties. (Bu) Gradinar. Lozar. Nauk. 4(7):111-117. 1967. 87 G75
- 96009 JABLONSKA-CEGLAREK, R. The value of heterogeneous  $F_1$  crosses in the production of ground tomatoes. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:286-290. 1966, pub.1967. 20.5 St4
- English summary.
- 96010 JOSHI, B. C., SINGH, D., and SAWHNEY, R. N. Breeding behaviour of monosomics in common wheat. Cur. Sci. 37(1):20-21. Jan.5,1968. 475 Sci23
- 96011 KASBA, K. J. Techniques of doubling diploid alfalfa [Sickle alfalfa] with colchicine. Forage Notes [Ottawa] 13(1):22-24. Spring 1967. 60.8 F742
- 96012 KIHLMAN, B. A., and HARTLEY, B. Interphase sensitivity to the chromosome-breaking effect of 2'-deoxyadenosine: an autoradiographic study. Mutation Res. 4(6):771-782. Ref. Nov./Dec.1967. 443.8 M98
- Vicia faba*.
- 96013 KIHLMAN, B. A., ODMARK, G., and HARTLEY, B. Studies on the effects of phleomycin on chromosome structure and nucleic acid synthesis in *Vicia faba*. Mutation Res. 4(6):783-790. Ref. Nov./Dec.1967. 443.8 M98
- 96014 KOVALEV, N. V. The inheritance of some characters in peach. (*Persica vulgaris* Mill.). (Rus) Genetika 2:188-189. 1967. QH431.A1G4
- Color in hybrids.
- 96015 KRAUSSE, G. W. Possibility of influencing the radiosensitivity and mutability of barley. I. The combined effect of X-rays and chemicals. (Ge) Z. Pflanzenzucht. 58(1):29-57. Ref. Aug.1967. 450 Z36
- English summary.
- 96016 KRAVCHENKO, M. L. The intercrossing of tissues of rye and wheat embryos transplanted on dry grain. (Rus) Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina. Dokl. 6:12-14. Ref. June 1967. 20 Ak1
- 96017 KRESSEL, M., and ARNOLD, C. G. The different sensitivity of the genomes of *Oenothera berteriana* against ethyl methanesulfonate. (Ge) Mutation Res. 4(6):797-804. Ref. Nov./Dec.1967. 443.8 M98
- English summary.
- 96018 KRISHNA RAO, P., and SUDHARSAN RAJ, A. Studies on the effects of diethyl sulphate on niger (*Guizotia abyssinica* Cass.). Andhra Agr. J. 14(1):4-11. 1967. 34.2 An4
- Mutation.
- 96019 KUL'BAEVA, G. I., and GOLOSOV, V. A. Overcoming difficulties in crossing cotton by application of colchicine. (Rus) Khlopkovodstvo 4:30-31. Apr.1968. 72.8 K522
- 96020 KULKARNI, L. G., and ANKINEEDU, G. Isolation of pistillate lines in castor for exploitation of hybrid vigour. Indian J. Genet. Plant Breeding 26(3):363-365. Nov.1966. 64.8 In2
- 96021 KUMAR, P., CHOWDHURY, J. B., and KALLA, H. R. Induction of polyploidy in self-incompatible *Brassica campestris* L. var brown sarson. Punjab Agr. Univ. J. Res. 4(1):50-53. Ref. Mar.1967. S19.P8
- 96022 KUMAR, S., BANSAL, H. C., SINGH, D., and NATARAJAN, A. T. Consistency of karyotypes and classification and identification of chromosomes in the genus *Pinus*. Indian J. Genet. Plant Breeding 26(3):311-316. Ref. Nov.1966. 64.8 In2
- P. insularis* and *P. roxburghii*.



- 96023 KUMAR, S., and NATARAJAN, A. T. Some postirradiation factors affecting the induction of chromosome aberrations by ionizing radiation: control of rejoining at sites. *Mutation Res.* 4(5):601-604. Sept./Oct.1967. 443.8 M98  
Level of oxygen and temperature in germinating barley seeds.
- 96024 LAPINSKI, M. Practical value of autotetraploid buckwheat strains (*Fagopyrum sagittatum* Gilib.) (Pol) Stettin. *Wyzsza Szkola Roln. Zeszyty Nauk.* 25:244-247. 1966, pub.1967. 20.5 St4  
English summary.
- 96025 LEE, M. S., KIM, D. S., and HAN, C. Y. Studies on the fertility and fertilization of interspecific hybrid of rice. I. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(1): 43-46. Ref. Sept.1967. 22.5 K843  
English summary.  
I, Crossing between *Oryza glaberrima* and cultivated variety, Palkweng.
- 96026 LEE, M. S., and others. Studies on the fertility and fertilization of interspecific hybrid of rice. II. Gametocyte formation in the interspecific hybrid (*O. glaberrima* × Palkweng). (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(1):47-52. Ref. Sept.1967. 22.5 K843  
C. I. Cho, D. S. Kim, and C. Y. Han, joint authors.  
English summary.
- 96027 LEE, M. S., KIM, D. S., and HAN, C. Y. Studies on the fertility and fertilization of interspecific hybrid of rice. III. Fertilization in (*O. glaberrima* × Palkweng) × Palkweng. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(1):53-58. Ref. Sept.1967. 22.5 K843  
English summary.
- 96028 LEFF, J., and KRINSKY, N. I. A mutagenic effect of visible light mediated by endogenous pigments in *Euglena gracilis*. *Science* 158(3806): 1332-1335. Ref. Dec.8,1967. 470 Sci2
- 96029 LEGG, P. D., and LIPPERT, L. F. Estimates of genetic and environmental variability in a cross between two strains of pepper (*Capsicum annuum* L.). *Amer. Soc. Hort. Sci. Proc.* 89: 443-448. Dec.1966. 81 So12
- 96030 LENOBLE, M. Theoretical development in the course of generations of the multiplication of genetic structures linked to a gametophytic autoincompatibility gene. (Fr) *Ann. Amélior. Plantes* 17(3):267-275. 1967. 14 F8499A  
English summary.
- 96031 LEVIN, D. A., and KERSTER, H. W. Local gene dispersal in *Phlox*. *Evolution* 22(1):130-139. Ref. Mar.1968. 443.8 Ev62  
*Phlox pilosa*.
- 96032 LIBERAL, M. T. Fertility of F<sub>1</sub> and F<sub>2</sub> populations involving *Solanum tuberosum* haploids and several diploid species. (Por) *Pesquisa Agropecuar. Brasil.* 1:165-172. Ref. 1966. S15.P42  
English summary.
- 96033 LOBASHEV, M. E. Half a century of the Soviet genetics. (Rus) *Genetika* 10:15-31. Oct.1967. QH431.A1G4  
Chiefly plant genetics.
- 96034 LOVE, J. E. Some effects of fast neutron irradiation on the somatic tissues of poinsettia. *Amer. Soc. Hort. Sci. Proc.* 89:672-676. Ref. Dec.1966. 81 So12  
Effect on bud mutations.
- 96035 LYSIKOV, V. N. Ispol'zovanie ioniziruyushchikh izluchenii i nekotorykh khimicheskikh veshchestv dlya formirovaniya iskhodnogo materiala pri selektsii kukuruzy [Using ionizing radiation and some chemical substances to form initial materials for the corn breeding]. Kishinev, Kartya Moldovenyaske, 1966. 154 p. SB191.M2L9  
Includes mutation.
- 96036 MAKSIMOVA, R. A., and RAPOPORT, I. A. The investigation of the mutagenic effects of nitrosomethylurea on *Trichothecium roseum* link., a producer of the antibiotic trichothecin. (Rus) *Genetika* 3:107-113. Ref. 1967. QH431.A1G4  
English summary.
- 96037 MALLING, H. V. Mutagenicity of methylhydroxylamines in *Neurospora crassa*. *Mutation Res.* 4(5):559-565. Ref. Sept./Oct.1967. 443.8 M98
- 96038 MALLING, H. V. The mutagenicity of the acridine mustard (ICR-170) and the structurally related compounds in *Neurospora*. *Mutation Res.* 4(3):265-274. Ref. May/June 1967. 443.8 M98  
Nitrogen mustard derivatives of acridine.
- 96039 MALUSZYNSKI, M. Determination of the causes of reduction of root growth under the action of a mutagenic agent. *Acad. Polon. Sci. Bull. Ser. Sci. Biol.* 15(9):545-550. 1967. 512 W262  
Tested with barley.
- 96040 MANIS, W. E., and KNIGHT, R. J. Avocado germ plasm evaluation: technique used in screening for cold tolerance. *Fla. State Hort. Soc. Proc.* 80:387-391. May 1,1968. 81 F66
- 96041 MATAGNE, R. Activity of L-threitol-1,4-bis-methanesulfonate on barley chromosomes in relation to chemical transformation during treatment. *Mutation Res.* 4(5):621-630. Ref. Sept./Oct.1967. 443.8 M98
- 96042 MATSUSHIMA, K., and SHIMADA, K. High alkaline protease-yielding mutants of *Aspergillus niger* induced by irradiation with ultraviolet rays. (Ja) *Mie Univ. Fac. Agr. Bull.* 36:63-70. Ref. Dec.1967. 107.6 T78  
English summary.
- 96043 MCNEILLY, T., and BRADSHAW, A. D. Evolutionary processes in populations of copper tolerant *Agrostis tenuis* Sibth. *Evolution* 22(1): 108-118. Ref. Mar.1968. 443.8 Ev62  
Populations collected in North Wales and Ireland.
- 96044 MICHAELIS, P. Studies on the ontogeny of the *Epilobium* shoot with the help of genetically labelled descendants of cells. (Ge) *Bot. Jahrbuch* 86(1/4):50-112. Ref. Feb.1,1967. 450 En3B  
English summary.
- 96045 MOORE, H. E., and LEE, R. E. The broadening basis of classification in the Gesneriaceae. *Baileya* 15(3):97-108. Ref. July/Sept.1967. 80 B15
- 96046 MORGAN, W. A genetic polyfloral *Calendula*. *S. Dak. Acad. Sci. Proc.* 46:77-82. 1967. 500 So82
- 96047 MUHAMMAD, S. V., and DORAIRAJ, M. S. Inheritance studies in *Ricinus communis* L. I. Resistance to jassid infestation. *Madras Agr. J.* 54(6):323-325. June 1967. 22 M262  
*Empoasca flavescens* Fb.
- 96048 MUHAMMAD, S. V., and DORAIRAJ, M. S. Inheritance studies in *Ricinus communis* L. - II. Number of nodes up to the main inflorescence. *Madras Agr. J.* 54(12):648-650. Dec.1967. 22 M262
- 96049 MUNTZING, A. A case of differential fertilization in inbred rye. *Hereditas* 59(2/3):298-302. 1968. 442.8 H42
- 96050 NASIM, A. The induction of replicating instabilities by mutagens in *Schizosaccharomyces pombe*. *Mutation Res.* 4(6):753-763. Ref. Nov./Dec.1967. 443.8 M98
- 96051 NEARY, G. J., PRESTON, R. J., and SAVAGE, J. R. K. Chromosome aberrations and the theory of rbe [relative biological effect]. III. *Int. J. Radiat. Biol.* 12(4):317-345. Ref. 1967. 444.8 In8  
Effect on *Tradescantia bracteata* of X-rays and gamma rays.
- 96052 NUTI RONCHI, V., BUIATTI, M., and IPATA, P. L. The influence of thymidine and deoxycytidine on the chromosome-breaking effect of triethylenemelamine in *Vicia-faba*. *Mutation Res.* 4(3):315-321. Ref. May/June 1967. 443.8 M98

- 96053 ORLOVA, N. N. A study of mutation process in dormant seeds of *Allium fistulosum* under the conditions of high temperature and humidity. (Rus) *Genetika* 11:15-25. Ref. Oct.1967. QH431.A1G4  
English summary.
- 96054 OUANG, T. Y. Genetic studies on early maturity of rice mutants induced by radiation. (Ch) *J. Agr. Forest.* 15:1-9. Ref. Oct.1966. 22.5 J823  
English summary.
- 96055 PADIEU, E., and BERNET, J. Mode of action of genes responsible in the abortion of certain products of meiosis in the Ascomycetes, *Podospora anserina*. (Fr) *Acad. Sci. Compt. Rend. Ser. D*, 264(19):2300-2303. May 8,1967. 505 P21
- 96056 PAL, A. B., and SWARUP, V. Gene effects and heterosis in cauliflower - II. *Indian J. Genet. Plant Breeding* 26(3):282-294. Ref. Nov.1966. 64.8 In2  
Includes morphological variations.
- 96057 PEZHEMSKAYA, T. A. A new method of selecting plants according to embryonic radicles. (Rus) *Selek. Semenovodstvo* 2:66. Mar./Apr. 1968. 61.9 Se5
- 96058 PIECH, M. The comparison of grain quality in F<sub>1</sub>-F<sub>7</sub> populations of intervarietal winter wheat hybrids. (Pol) *Stettin. Wyzsza Szkola Roln. Zeszyty Nauk.* 25:226-228. 1966, pub. 1967. 20.5 St4  
English summary.
- 96059 PLAISTED, R. L., and PETERSON, L. C. Linkage of genes affecting tuber color and chlorotic foliage. *Amer. Potato J.* 44(11):411-414. Nov.1967. 75.8 P842
- 96060 PLAISTED, R. L. Methods of breeding potatoes for factors affecting processing quality. *Plant Sci. Symp. Proc.* 1966:103-123. SB211.P8P59  
Bibliography, p.118-123.
- 96061 PROKOF'EVA-BEL'GOVSKAYA, A. A. The advances of cytogenetics in USSR during fifty years. (Rus) *Genetika* 10:86-113. Oct.1967. QH431.A1G4  
Includes plant and insect cytogenetics.
- 96062 PRYADCHENKU, A., and GRINVAL'D, K. Valuable mutants in irradiated barley. (Rus) *Genetika* 3:49-49-54. Ref. 1967. QH431.A1G4  
English summary.
- 96063 QUINBY, J. R. The maturity genes of sorghum. *Advances Agron.* 19:267-305. Ref. 1966. 30 Ad9
- 96064 RAJA, V. D. G. Phytogametocidal action of F. W. 450 (Mendok) on the characters of Madras Cambodia Uganda. 1. Cotton. *Madras Agr. J.* 54(6):302-311. Ref. June 1967. 22 M262  
In India.
- 96065 RANA, R. S. Temperature sensitivity of polyploid wheats and their diploid relatives. *Jap. J. Genet.* 42(4):227-232. Ref. Aug.1967. 442.9 J27  
Triticum and Aegilops spp.
- 96066 RAO, N. N. A note on the crossability relationships between some non-tuberiferous species of *Solanum*. *Madras Agr. J.* 55(3):146-149. Mar.1968. 22 M262
- 96067 ROBERTS, E. H., ABDALLA, F. H., and OWEN, R. J. Nuclear damage and the ageing of seeds. *Soc. Exp. Biol. Symp.* 21:65-99. Ref. 1967. 442.9 So15  
Automutagenic substances.
- 96068 ROCHE, I. A. DE LA, and LACHMAN, W. H. Linkage relations of yellow-green 6 and neglecta 1 on chromosome 11 of the tomato. *J. Hered.* 58(3):147-148. May/June 1967. 442.8 Am3
- 96069 RONCHI, V. N., and ARCARA, P. G. The chromosome breaking effect of 6-methylcoumarin in *Allium cepa* in relation to the mitotic cycle. *Mutation Res.* 4(6):791-796. Ref. Nov/Dec.1967. 443.8 M98
- 96070 RONCHI, V. N., and BUIATTI, M. The effect of chloramphenicol on the chromosome-breaking action of 8-ethoxycaffeine and 6-methylcoumarin in *Vicia faba*. *Mutation Res.* 4(5):615-619. Ref. Sept./Oct.1967. 443.8 M98
- 96071 RUSSO, S. Contribution to the knowledge of the genetics and cytogenetics of *Oryza sativa* L. (It) *Riso* 16(2):71-84. Ref. June 1967. 59.8 R49  
English summary.
- 96072 SAVAGE, J. R. K. Non-interaction of radiation-induced chromosome lesions in *Tradescantia microspores*. II. *Int. J. Radiat. Biol.* 12(4):373-381. Ref. 1967. 444.8 In8  
After dose of X-rays and neutrons.
- 96073 SAVAGE, J. R. K. Saturation of the dose-response curve for chromosome exchanges in *Tradescantia* [T. paludosa]. *Mutation Res.* 4(3):295-306. Ref. May/June 1967. 443.8 M98  
X-ray, neutron bombardment.
- 96074 EL SAYED, M. N. K., and ERICKSON, H. T. Inheritance of tomato fruit firmness. *Amer. Soc. Hort. Sci. Proc.* 89:523-527. Dec.1966. 81 So12
- 96075 SCHOOLLER, A. B. Intergeneric hybrids between allohexaploid (*Mordeum depressum* \ H. compressum) and autotetraploid squal rye (*Secale cereale*). *Bot. Gaz.* 128(2):113-116. Ref. June 1967. 450 B652  
Includes cytology.
- 96076 SCOTT, D., and EVANS, H. J. X-ray-induced chromosomal aberrations in *Vicia faba*; changes in response during the cell cycle. *Mutation Res.* 4(5):579-599. Ref. Sept./Oct.1967. 443.8 M98
- 96077 SCOTT, G. E. Selecting for stability of yield in maize. *Crop Sci.* 7(6):549-551. Nov./Dec. 1967. 64.8 C883
- 96078 SHAH, S. S. Chiasma frequencies in euchromatic and heterochromatic chromosomes. *Heredity* 22(3):443-446. Ref. Aug.1967. 443.8 H42  
Dactylis glomerata.
- 96079 SHERK, L. C., and LEE, R. E. Interspecific hybridization in the genus *Columnea* [Gesneriaceae]. *Baileya* 15(3):89-96. July/Sept.1967. 80 B15
- 96080 SIDDIQ, E. A. A note on the induced hairiness in colchicine and colchicine-cum-irradiated plants of Zea mays. *Indian Acad. Sci. Proc. Sect. B* 65(4):165-166. Apr.1967. 513 In25B
- 96081 SING, C. F., MOLL, R. H., and HANSON, W. D. Inbreeding in two populations of Zea mays L. *Crop Sci.* 7(6):631-636. Ref. Nov./Dec.1967. 64.8 C883
- 96082 SMITH, R. L. Serological predictions of genotypic relationships among oat varieties using antigens from different plant parts. *Diss. Abstr., Sect. B*, 28(4):1365B. Oct.1967. Z5055.U49D53
- 96083 SMITH, R. R., and others. Phenotypic stability in soybean populations. *Crop Sci.* 7(6):590-592. Nov./Dec.1967. 64.8 C883  
D. E. Byth, B. E. Caldwell, and C. R. Weber, joint authors.
- 96084 SMOCEK, J. Application of the method of quantitative genetics in breeding. I. Basic parameters of genetics. (Cz) *Sb. UVTI (Ustav Vedeckotech. Inform.) Genet. Slechteni* 3(3):221-230. Ref. June 1967. QH431.A1S25  
English summary.
- 96085 SPURNY, A., and MINARIK, F. Possibilities of the utilization of punched cards in the processing of documentation of plant breeding. (Cz) *Sb. UVTI (Ustav Vedeckotech. Inform.) Genet. Slechteni* 3(2):171-175. Mar.1967. QH431.A1S25
- 96086 SUSSMAN, M. Some genetic and biochemical aspects of the regulatory program for slime mold [*Dictyostelium discoideum*,] development. *Curr. Top. Develop. Biol.* 1:61-83. 1966. QL951.C8  
Review of the literature.



- 96087 SWARUP, V., and PAL, A. B. Gene effects and heterosis in cauliflower. I. Indian J. Genet. Plant Breeding 26(3):269-281. Ref. Nov.1966. 64.8 In2  
Includes yields.
- 96088 SZIGAT, G. Studies on selective fertilization in *Lupinus angustifolius* and its effects on the vitality of the F<sub>1</sub>. II. Studies on the vitality of the F<sub>1</sub>. (Ge) Z. Pflanzenzucht. 58(1):73-87. Ref. Aug.1967. 450 Z36  
English summary.
- 96089 THAKUR, R. Depressed palea in rice, *Oryza sativa*, L. Cur. Sci. 37(3):85. Feb.5,1968. 475 Sci23  
Mutation.
- 96090 TSUNEWAKI, K., and HORI, T. Distribution of necrosis genes in wheat. IV. Common wheat from Australia, Tibet and northern Europe. Jap. J. Genet. 42(4):245-250, map. Aug.1967. 442.9 J27  
73 varieties.
- 96091 TUCKER, C. L., PROUT, T., and HARDING, J. Spread of an undesirable gene in populations of *Phaseolus lunatus* L. Crop Sci. 7(6):619-621. Nov./Dec.1967. 64.8 C883
- 96092 UPADHYAYA, B. R., and RASMUSSEN, D. C. Heterosis and combining ability in barley. Crop Sci. 7(6):644-647. Ref. Nov./Dec.1967. 64.8 C883
- 96093 VED BRAT, S. Genetic systems in *Allium*. IV. Balance in hybrids. Heredity 22(3):387-396. Ref. Aug.1967. 443.8 H42
- 96094 VELIKOVSKY, V., and NATROVA, Z. Combined effect of chemicals and x-rays on the seeds of spring barley. (Cz) Sb. UVTI (Ustav Vedeckotech. Inform.) Genet. Slechteni 3(3):191-202. Ref. June 1967. QH431.A1S25  
English summary.  
Includes colchicine, ethylmercuric chloride and hydrogen peroxide; effect on mutation.
- 96095 VIRKII, N., and PURCELL, C. M. Observations on the behavior, genetics, and cytology of two South African *Digitaria valida* Stent accessions in Puerto Rico. P. R. Univ. J. Agr. 51(4):269-285. Ref. Oct.1967. 8 P832J
- 96096 WALLACE, A. T. Induced mutations and plant breeding. Sunshine State Agr. Res. Rep. [Fla. Sta.] 13(1):23-25. Jan.1968. 100 F66Su  
Barley and oats.
- 96097 WEDBERG, H. L., LEWIS, H., and VENKATESH, C. S. Translocation heterozygotes and supernumerary chromosomes in wild populations of *Clarkia williamsonii*. Evolution 22(1):93-107. Ref. Mar.1968. 443.8 Ev62
- 96098 YESODA RAJ, A. A note on use of cytoplasmic male sterility for hybrid wheat production. Andhra Agr. J. 14(1):1-3. 1967. 34.2 An4
- 96099 ZHUKOVSKII, P. M. Some results of the semi-centennial investigations of the world geography of gene centers of cultivated plants and of the evolutionary principles governing gene centers, providing the basis for the accumulation of the initial material for breeding in the USSR. (Rus) Genetika 10:56-74. Oct.1967. QH431.A1G4
- 96100 ZOZ, N. N., KOZHANOVA, N. N., and SAL'NIKOVA, T. V. Different response of agricultural plants to the treatment with chemical mutagens. (Rus) Genetika 2:78-85. Ref. 1967. QH431.A1G4
- PHYSIOLOGY AND BIOCHEMISTRY
- 96101 AIBA, Y. Ashing methods of plant tissues for mineral nutrition. (Ja) Tokyo Univ. Agr. Technol. Bull. Exp. Forests 7:45-46. Jan.1968. 99.9 T575  
English summary.
- 96102 ALBERTINI, L. Autoradiographic study of protein during microsporogenesis of *Rhoeo discolor* (Hance). (Fr) Acad. Sci. C. R., Ser. D, 264(24):2773-2776. June 12,1967. 505 P21
- 96103 ANTHONSEN, T., and others. Furan-containing diterpenoids from *Solidago serotina* Ait. Acta Chem. Scand. 22(1):351-352. 1968. 385 Ac82  
M. S. Henderson, A. Martin, R. McCrindle, and R. D. H. Murray, joint authors.
- 96104 ARESCALDINO, I. Determination of the optimal age for sporulation in *Physarum polycephalum*. (Fr) Acad. Sci. C. R., Ser. D, 17(266):1722-1725. Apr.22,1968. 505 P21
- 96105 ARPIN, N., and JENSEN, S. L. Chemical-taxonomic research of fungi; the presence of methyl ester in the torula of *Cookeina sulpices* (Berk.) Kuntze (Ascomycetes). (Fr) Acad. Sci. Compt. Rend. Ser. D, 265(15):1083-1085. Ref. Oct.9,1967. 505 P21
- 96106 ASAUL, Z. I. On using dry barley malt for *Chlorella* cultivation. (Ukr) Ukr. Bot. Zh. 25(1):16-20. Jan./Feb.1968. 450 J8212J  
English summary.
- 96107 ASEEVA, I. V., and BARMENKOVA, R. A. Effect of gibberelline-like substances produced by microorganisms upon the chemical composition of leguminous plants. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 2(38):123-126. 1967. 442.8 N22
- 96108 ATAL, C. K., and others. Crosemperine, a new otonecine ester from *Crotalaria semperflorens* vent. Australian J. Chem. 20(4):805-808. Apr.1967. 475 Au73  
C. C. J. Culvenor, R. S. Sawhney, and L. W. Smith, joint authors.
- 96109 BAILLAUD, L. From plant to animal life: reflexes and autonomous behaviour. (Fr) Vitalst.-Zivilisationskrankheiten 13(1):19-21. Feb.1968. 389.8 V836  
English summary.
- 96110 BANNO, I. Studies on the sexuality of *Rhodotorula*. J. Gen. Appl. Microbiol. 13(2):167-196. Ref. June 1967. 448.3 J824
- 96111 BARLEY, K. P., and GREACEN, E. L. Mechanical resistance as a soil factor influencing the growth of roots and underground shoots. Advances Agron. 19:1-43. Ref. 1966. 30 Ad9
- 96112 BASAPPA, S. C., and others. Effect of B-group vitamins & ethyl alcohol on aflatoxin production by *Aspergillus oryzae*. Indian J. Exp. Biol. 5(4):262-264. Oct.1967. 442.8 In2  
A. Jayaraman, V. Sreenivasamurthy, and H. A. B. Parpia, joint authors.
- 96113 BATYGIN, N. F., and SAVIN, V. N. Ispol'zovanie ioniziruyushchikh izlucheni v rastenievodstve [Using ionizing radiation in growing of plants]. Leningrad, Kolos, 1966. 123 p. Ref. QK757.B3
- 96114 BEECHAM, A. F., JOHNS, S. R., and LAMBERTON, J. A. The absolute configuration of (+)-9-aza-1-methylbicyclo[3,3,1]nonan-3-one, an alkaloid from *Euphorbia afoto* Forst. Australian J. Chem. 20(10):2291. Oct.1967. 475 Au73
- 96115 BENADA, J. A Study on the correlation between the expansion of plant organs and oxidation-reduction potentials. Flora Abt. A. Physiol. Biochem. 157(6):552-560. 1966. QK710.F5
- 96116 BEREZNEGOVSKAYA, L. N., and BUBENCHIKOV, A. A. Biochemical changes in seeds of *Adonis vernalis* during their pre-germination period. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 10(4):97-100. 1967. 442.8 N22
- 96117 BERGER, C. Activity changes of some enzymes of a synchronous culture of *Chlorella [pyrenoidosa]* cells alternately in light and dark. I. Changes during development cycle. (Ge) Flora Abt. A, Physiol. Biochem. 157(3):211-232. Ref. 1966. QK710.F5  
English summary.
- 96118 BERGER, M. The division capability of one-celled synchronized *Volvocales* in X-ray-radiation. (Ge) Int. J. Radiat. Biol. 12(5):477-486. Ref. 1967. 444.8 In8  
English summary.

- 96119 BERTRAND, D., and WOLF, A. DE. Nickel, the dynamic minor element of superior plants. (Fr) Acad. Sci. Compt. Rend. Ser. D, 265(15): 1053-1055. Oct. 9, 1967. 505 P21  
Chlorella vulgaris.
- 96120 BERTSCH, A. Carbondioxide gas exchange, water potential, and saturation deficit at the drying of epidermis free leaf disks of Valerianella. (Ge) Naturwissenschaften 54(8):204. Apr. 15, 1967. 474 N213  
Valerianella locusta.
- 96121 BERUTER, J., and SOMOGYI, J. C. Isolation of a crystalline antithiamine factor from fern. Int. Congr. Nutr. Proc., 7th Congr., v. 5:543. 1966, pub. 1967. TX345.I53 1966
- 96122 BEZZUBOV, I. N. The spectral distribution of macro and microelements in acetate extracts of plants. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:508-511. S651.Z5
- 96123 BIANCHI, D. E., and TURIAN, G. Lipid content of conidia of Neurospora crassa. Nature 214(5095):1344-1345. June 24, 1967. 472 N21
- 96124 BILLOT, J. Decoloration of anthocyanin pigments in acetone medium. (Fr) Physiol. Veg. 5(3):293-310. July/Sept. 1967. 450 P5623  
English summary.  
Tests with flowers of Jacaranda.
- 96125 BIOLOGICAL aspects of bromine and some bromine compounds. In Jolles, Z. E., ed. Bromine and its compounds. p.487-517. Ref., p.514-517. 1966. QD181.B7J6  
Includes bromine in plant and animal physiology.
- 96126 BLACKWELL, J., PARKER, K. D., and RUDALL, K. M. Chitin fibres of the diatoms Thalassiosira fluviatilis and Cyclotella cryptica. J. Mol. Biol. 28(2):383-385. Ref. Sept. 14, 1967. 442.8 J8224
- 96127 BLAGOVESHCHENSKII, A. V. The biochemical evolution of plants. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 1(37):130-143. 1967. 442.8 N22
- 96128 BOEKER, P. Effect and possibilities of using growth inhibitors. (Ge) Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz. Sonderheft 4: 91-96. Ref. 1968. 464.8 Z33  
English summary.  
Maleic hydrazide and Flurenol in Germany.
- 96129 BOGUSLAWSKI, E. VON, and JAHN-DEESBACH, W. Plant production in temperate areas. (Ge) Int. Congr. Nutr. Proc., 7th Congr., v. 4: 872-886, map. 1966, pub. 1967. TX345.I53 1966  
Physiology and yields in relation to population and food supply.
- 96130 BONZI, G., and NAPP-ZINN, K. Acceleration of florescence by geranyl valerate in the Zurich type of Arabidopsis thaliana (L.) Heynh. (Fr) Acad. Sci. Compt. Rend. Ser. D, 265(14): 962-964. Oct. 2, 1967. 505 P21
- 96131 BOWNE, S. W., and BOWNE, G. D. Taxis in Euglena. Exp. Cell Res. 47(3):545-553. Ref. Sept. 1967. 442.8 Ex7  
Euglena gracilis.
- 96132 BRAGA, A. DA. S., and others. Chemistry of Brazilian Leguminosae. XIV. Dalbergia barretiana and D. villosa, two related species. (Por) Acad. Brasil. Cienc. An. 39(2):249-251. June 30, 1967. 516 R473A  
V. H. Arndt, H. M. Alves, O. R. Gottlieb, M. T. Magalhaes, and W. D. Ollis, joint authors.  
English summary.
- 96133 BRANDHAM, P. E. Time-lapse studies on conjugation in Cosmarium botrytis. II. Can. J. Bot. 45(4):483-493. Ref. Apr. 1967. 470 C16C
- 96134 BRIENS, M. Contribution to the study of metabolism in halophytes; alpha ketonic acids of Suaeda macrocarpa Moq. and of Aster tripolium L. (Fr) Acad. Sci. Compt. Rend. Ser. D, 264 (19):2296-2299. May 8, 1967. 505 P21
- 96135 BROWN, J. C., CROSS, B. E., and HANSON, J. R. New metabolites of Gibberella fujikuroi. XIII. Two gibbane 1,3-lactones. Tetrahedron 23(10):4095-4103. Ref. Oct. 1967. 382 T29
- 96136 BROWN, S. R. Absorption coefficients of chlorophyll derivatives. Can. Fish. Res. Board. J. 25(3):523-540. Ref. Mar. 1968. 442.9 C16J  
Chlorella.
- 96137 BRUNEL, A., BRUNEL-CAPELLE, G., and MIQUEL, A. Induced biosynthesis of L-arginine-ureohydrolase farginase, gamma-guanidinobutyricureohydrolase, and guanidinobutyricureohydrolase (Glycocyaminase) in Penicillium roqueforti. (Fr) Acad. Sci. C. R., Ser. D, 264 (24):2777-2780. June 12, 1967. 505 P21
- 96138 BRUNEL-CAPELLE, G. Nitrogenous metabolism in Arum italicum Mill. (Fr) Physiol. Veg. 5(2):139-153. Ref. Apr./June 1967. 450 P5623  
English summary.
- 96139 BURG, S. P., and BURG, E. A. Lateral auxin transport in stems and roots. Plant Physiol. 42(6):891-893. June 1967. 450 P692  
Indoleacetic acid transport studied with radioactive carbon.
- 96140 BUTLER, W. L. Fluorescence yield in photosynthetic systems and its relation to electron transport. Curr. Top. Bioenerg. 1:49-73. 1966. QH511.S2  
Review of the literature.
- 96141 CARLILE, M. J. The orientation of zoospores and germ-tubes. In Madelin, M. F., ed. The fungus spore, p.175-187. Ref. 1966. QK601.M3  
Includes discussion.
- 96142 CAROLIN, R. The concept of the inflorescence in the order Campanulales. Linn. Soc. New S. Wales. Proc. 92(1):7-26. Ref. 1967. 514 Sy2
- 96143 CARR, N. G., and others. Minor quinones of some Myxophyceae. Arch. Biochem. Biophys. 120(3):503-507. Ref. June 1967. 381 Ar2  
G. Exell, V. Flynn, M. Hallaway, and S. Talukdar, joint authors.
- 96144 CASSAI, N. Dirtless farming (Hydroponics) in Colorado. Reclam. Era 54(2):28-32. May 1968. 156.84 R24
- 96145 CECCARINI, C., and COHEN, A. Germination inhibitor from the cellular slime mould Dictyostelium discoideum. Nature 214(5095): 1345-1346. Ref. June 24, 1967. 472 N21
- 96146 CHAILAKHYAN, M. KH. Internal factors of plant flowering. (Rus) Usp. Sovrem. Biol. 63 (2):202-231. Ref. Mar./Apr. 1967. 442.8 Er3
- 96147 CHAPMAN, D. J., COLE, W. J., and SIEGELMAN, H. W. Chromophores of allophycocyanin and R-phycocyanin. Biochem. J. 105(3):903-905. Ref. Dec. 1967. 382 B52  
From Cyanophyceae and Rhodophyceae.
- 96148 CHINN, S. H. F., and LEDINGHAM, R. J. Influence of substances and soil treatments on the germination of spores of Cochliobolus sativus. Phytopathology 57(6):580-583. Ref. June 1967. 464.8 P56  
Ascorbic acid and molasses.
- 96149 CLEVA-KURSCHEN, F. The element of calcium in agriculture. (It) Terra Trentina 14(2): 82-83, 85-89. (Cont.) Feb. 1968. 16 T277  
List of plants needing calcium.
- 96150 CLEVA-KURSCHEN, F. The element of calcium in agriculture. (It) Terra Trentina 14(3): 119-124. (Cont.) Mar. 1968. 16 T277  
Effects on plants.
- 96151 COCHRANE, V. W. Respiration and spore germination. In Madelin, M. F., ed. The fungus spore, p.201-215. Ref. 1966. QK601.M3  
Includes discussion.
- 96152 COIC, Y. Influence of mineral nutrition of plants on the nutritive and technological value of crops. (Fr) Int. Congr. Food Sci. Technol. Proc. 5:293-305. 1962, pub. 1967. TP368.I5 1962  
Includes discussion.
- 96153 CRAIGIE, J. S., MCLACHLAN, J., and TOCHER, R. D. Some neutral constituents of the Rhodophyceae with special reference to the occurrence of the floridosides. Can. J. Bot. 46(5):605-611. Ref. May 1968. 470 C16C



- 96154 CULVENOR, C. C. J., O'DONOVAN, G. M., and SMITH, L. W. Alkaloids of *Crotalaria trifoli- astrum* Willd. and *C. aridicola* Domin. III. Australian J. Chem. 20(4):757-768. Apr.1967. 475 Au73
- 96155 CUPINA, T. The structure and function of mi- tochondria, a mechanism of oxidative phos- phorylation and utilization of energy at the process of transpiration in plants. (Se) Sa- vremena Poljoprivreda 15(4):391-398. Ref. Apr.1967. 21 P75
- 96156 CURRENT topics in bioenergetics. Volume I, edited by D. R. Sanadi. New York, Academic Press, 1966. 292 p. QH511.S2  
Review of the literature.  
Chiefly photosynthetic reactions.
- 96157 CZERWINSKI, W., SKRABKA, H., and STACHURSKA, A. The effectiveness of the action of afalon upon maize and mustard [*Sinapis alba*] in water cultures as depending upon the concentrations of nitrates, phosphates, and potassium in the medium. (Pol) Wroclaw Wyzsza Szkola Roln. Zeszyty Nauk. Roln. 21(66):45-64. Ref. 1967. 20.5 B75  
English summary.
- 96158 CZERWINSKI, W., SKRABKA, H., and SZUWALSKA, Z. The influence of afalon upon the transpiration of maize, sunflower, and cucumber. (Pol) Wroclaw Wyzsza Szkola Roln. Zeszyty Nauk. Roln. 21(66):75-81. 1967. 20.5 B75  
English summary.  
In soilless culture.
- 96159 CZERWINSKI, W., SKRABKA, H., and STACHURSKA, A. The influence of the concen- tration of iron upon the effectiveness of afalon on maize and mustard [*Sinapis alba*] in water cultures. (Pol) Wroclaw Wyzsza Szkola Roln. Zeszyty Nauk. Roln. 21(66):65-73. 1967. 20.5 B75  
English summary.
- 96160 DANGEARD, P. Germination of the tetraspores of *Falkenbergia rufolanosa*. (Fr) Soc. Phycol. Fr. Bull. 11:9-10. Feb.1967. 451 SO134
- 96161 DANILIUC, D., and MANUCA, O. Some as- pects regarding the effect of calcium carbo- nate content of the soil on phosphorus availa- bility for plants. (Rum) Bucharest, Inst. Cent. Cercet. Agr. Sect. Pedol. An. 34:149-158. Ref. 1966, pub.1967. 21 R86A  
English summary.
- 96162 DASTANE, N. G., and PATIL, V. S. Water needs of crops. Indian Farming 17(10):34-36. Jan.1968. 22 In283  
Irrigation, soil moisture, and evapotranspira- tion.
- 96163 DAVIS, B. D. Effect of light quality on the transition to two-dimensional growth by game- topytes of *Pteridium aquilinum*. Torrey Bot. Club Bull. 95(1):31-36. Jan./Feb.1968. 451 T63B  
White, blue and red lights.
- 96164 DAVIS, E. E. Zygospore formation in *Syzygites megalocarpus*. Can. J. Bot. 45(4):531-532. Apr.1967. 470 C16C
- 96165 DAVIS, E. M., and WILCOMB, M. J. Enzymatic degradation and assimilation of condensed phosphates by green algae [Chlorophyta]. Water Res. 1(5):335-350. Ref. May 1967. TD420.W3  
With reference to the removal of phosphorus from sewage by algae.
- 96166 DAY, J. H. The biology of Knysna Estuary, South Africa. Conf. Estuaries. Papers 1964: 397-407. Ref. 1967. QH91.A3C6 1964  
Includes aquatic plants.
- 96167 DEN DOOREN DE JONG, L. E. Dark and light metabolism of amino acids in *Chlorella vul- garis*. Antonie van Leeuwenhoek J. Microbiol. Serol. 33(2):166-170. Ref. 1967. 448.8 N28A
- 96168 DENLIEV, P. K., MESHCHERYAKOV, A. A., and KISELEVA, V. V. Quantity segregation of flavone substances from plants with the help of paper chromatography. (Rus) Akad. Nauk Turkm. SSR Izv. Ser. Biol. Nauk 3:74-76. Ref. 1967. 442.9 Ak124
- 96169 DILWORTH, M. J., and KIDBY, D. K. Local- ization of iron and leghaemoglobin in the legume root nodule by electron microscope autoradiography. Exp. Cell Res. 49(1):148-159. Ref. Jan.1968. 442.8 Ex7
- 96170 DIMENT, J. A., RITCHIE, E., and TAYLOR, W. C. A re-examination of *Evodia alata* F. Muell. The structure and synthesis of evopre- nine, a new acridone alkaloid. Australian J. Chem. 20(8):1719-1727. Ref. Aug.1967. 475 Au73
- 96171 DITMARS, W. E. A comparative study of pheo- phytin a and pheophytin b monolayers. Diss. Abst., Sect. B, 28(6):2368B. Dec.1967. Z5055.U49D53
- 96172 DOUGALL, D. K., and FULTON, M. M. Bio- synthesis of protein amino acids in plant tissue culture. IV. Isotope competition experiments using glucose-U-14C and potential intermedi- ates. Plant Physiol. 42(7):941-945. Ref. July 1967. 450 P692
- 96173 DRATH, N. J., and RAPILLY, F. Sporulation in pure culture and from stromata of *Cercospo- rella herpotrichoides* Fron. (Fr) Ann. Epiphyt. 18(1):85-91. 1967. 464.9 F84An  
English summary.
- 96174 DUGGAN, M. B. Identification of plant material by its phenolic content. Ass. Offic. Anal. Chem. J. 50(3):727-734. Ref. June 1967. 381 As7
- 96175 ERHARDT, W. H. Polonium-210 contents of plant tissue and the use of metal ammonium phosphates as vegetable crop fertilizers. Diss. Abstr., Sect. B, 28(3):755B-756B. Sept. 1967. Z5055.U49D53
- 96176 EYAL, Z., PETERSON, J. L., and CAPPEL- LINI, R. A. Protein content and cell-wall weight of uredospores of five races of *Puc- cinia recondita* Rob. ex Desm. as affected by light and temperature. Torrey Bot. Club. Bull. 94(2):63-67. Ref. Mar./Apr.1967. 451 T63B
- 96177 EYAL, Z., and PETERSON, J. L. Uredospore production of five races of *Puccinia recondita* Rob. ex Desm. as affected by light and tempera- ture. Can. J. Bot. 45(4):537-540. Apr.1967. 470 C16C
- 96178 FAUGERAS, G., DEBELMAS, J., and PARIS, R. R. Presence and distribution of amino- phenols (tyramine, hydroxytyramine, 3- or dopamine, and noradrenaline) in *Aconitum napel- lus*. (Fr) Acad. Sci. Compt. Rend. Ser. D, 264 (15):1864-1867. Apr.10,1967. 505 P21
- 96179 FEL'DMAN, N. L., and KAMENTSEVA, I. E. The urease thermostability in leaf extracts of two *Leucojum* species with different periods of vegetation. (Rus) Tsitologiya 9(7):886-889. Ref. July 1967. 442.8 T78  
English summary.  
*Leucojum vernum* and *L. aestivum*.
- 96180 FERGEDAL, L. A method for washing-out and investigating root systems. (Sw) Grundforbatt- ring 2(20):53-60. 1967. 54.8 G92  
English summary.
- 96181 FLOROV, R. I. An attempt to determine the rate of entropy development in the foliar sys- tem of plants on the basis of the law of energy dissociation. (Rus) Akad. Nauk SSSR. Dokl. 178(1):241-243. 1968. 511 P444A
- 96182 FORSBERG, C., and JOHANSSON, M. A growth curve of *Chara zeylanica* Willd. in axenic culture. Rev. Roum. Biol. Ser. Bot. 12 (1):37-39. 1967. QK1.R4
- 96183 FRANSSEN, C. A. M. On the origin and opera- tion of the lysergic acid derivatives LSD and LAE. (Du) Landbouwkundig Tijdschr. 79(3):84-89. Ref. Mar.1967. 105.2 Or3  
Alkaloids of *Claviceps purpurea*.
- 96184 FRIES, N. Chemical factors in the germination of spores of Basidiomycetes. In Madelin, M. F., ed. The fungus spores, p.189-200. Ref. 1966. QK601.M3  
Includes discussion.
- 96185 FUCHS, W. H. Liberation and behaviour of spores of *Polymyxa betad* Keskin. In Madelin, M. F., ed. The fungus spore, p.111-112. 1966. QK601.M3



- 96186 FUJITA, Y. The theory of continental drift viewed from the chemical constituents of plants. 2. (Ja) J. Jap. Bot. 42(9):278-230. Sept. 1967. 450 J8223  
English summary.
- 96187 GAMBI, O. V. Seed dispersal and germination in *Lagurus ovatus* var. *vestitus* in comparison with *L. ovatus* var. *ovatus*. *Webbia* 22(1):75-81. Ref. 1967. 450 W38
- 96188 GARBER, K., GUDERIAN, R., and STRATMANN, H. Fluorine uptake from soils by plants. (Ge) *Qualitas Plant. Mater. Veg.* 14(3):223-236. Apr. 28, 1967. 64.8 M41
- 96189 GARDOU, C. Analysis of mode of reproduction at *Centaurea jacea* L. *sensu lato*. (Fr) *Acad. Sci. Compt. Rend. Ser. D*, 265(13):912-914. Sept. 25, 1967. 505 P21
- 96190 GARRAWAY, M. O., and WEINHOLD, A. R. Ethanol-induced accumulation of a pentose in *Armillaria mellea*. *Can. J. Microbiol.* 13(12):1705-1707. Dec. 1967. 448.8 C162
- 96191 GAUDET, J. J., and HUANG, S. D. Incorporation of kinetin into *Salvinia [rotundifolia]*. *Plant Cell Physiol.* 8(3):433-437. Oct. 1967. 450 P699
- 96192 GAYRARD-BOUSQUET, M. Analysis and evolution of culture filtrates of *Cylindrocarpum tenue* Bugnicourt during its growth. (Fr) *Acad. Sci. Compt. Rend. Ser. D*, 265(16):1121-1123. Oct. 16, 1967. 505 P21
- 96193 GHOSH, A. K. Utilization of some monosaccharides by two species of *Colletotrichum*. *Mycopathol. Mycol. Appl.* 32(1):75-80. Ref. June 13, 1967. 450 M994  
*Colletotrichum gloeosporoides* and *C. dematium*.
- 96194 GOAS, M. Contribution to the study of nitrogen metabolism in halophytes; amino acids and free amides of *Aster tripolium* L. in aquiculture. (Fr) *Acad. Sci. Compt. Rend. Ser. D*, 265(15):1049-1052. Oct. 9, 1967. 505 P21
- 96195 GOAS, G., and BERNARD, T. Contribution to the study of nitrogen metabolism in lichens; the various forms of nitrogen in some species of the family *Stictaceae*. (Fr) *Acad. Sci. Compt. Rend. Ser. D*, 265(17):1187-1190. Oct. 23, 1967. 505 P21
- 96196 GOLD, K. Microbiological assays of sea water using radioisotopes—an assay for vitamin B<sub>12</sub> measured by C<sup>14</sup> assimilation. *Conf. Estuaries. Papers* 1964:341-345. 1967. QH91.A3C6 1964  
Using *Skeletonema costatum*.
- 96197 GOOD, N., IZAWA, S., and HIND, G. Uncoupling and energy transfer inhibition in photophosphorylation. *Curr. Top. Bioenerg.* 1:75-112. Ref. 1966. QH511.S2
- 96198 GORGENYI, MRS. L. Formation of callus in modern perspective. (Hu) *Kertesz. Szoleszeti Fiskola. Kiadv.* 3(2):45-71. Ref. 1966. SB13.K4  
Chiefly in graft unions.
- 96199 GOTTLIEB, D. Biosynthetic processes in germinating spores. In Madelin, M. F., ed. *The fungus spore*, p.217-234. Ref. 1966. QK601.M3  
Includes discussion.
- 96200 GRIGORYAN, G. B. Molybdenum and copper in plants growing in oreless and ore-bearing plots of the Vokhchi River. (Rus) *Moscow. Univ. Vestnik Ser. 5, Geogr.* 3:105-109. May/June 1967. 331.9 M85  
Plants as indicators.
- 96201 GRISEZ, J. P., and HARDIN, E. E. A germination study on seeds of five species of the genus *Ceanothus* occurring in Oregon. *Ass. Off. Seed Anal. News Lett.* 41(2):12-19. June 1967. 61.9 As7N
- 96202 GRUNBERG, H., and SOEDER, C. J. Zeta potential in synchronously cultivated *Chlorella*. (Ge) *Naturwissenschaften* 54(8):205-206. Apr. 15, 1967. 474 N213  
*Chlorella fusca* and *C. vulgaris*.
- 96203 GUSHEV, K. Volumetric assessment of potassium in plants in the form of tetraphenylborate. (Bu) *Pochvozn. Agrokhim.* 2(4):25-33. 1967. S590.P6  
English summary.
- 96204 HALL, H. L. Drought reduces crops in Latin American countries. *Foreign Agr.* 6(28):5. July 8, 1968. A281.9 F76Fo
- 96205 HANSON, J. B. Roots: selectors of plant nutrients. *Plant Food Rev.* 13(1):8-10. 1967. 57.8 P694
- 96206 HARDER, R., and ZEMLIN, I. Furthering carnivorous *Utricularia* species by sugars in axenic light- and dark culture media. (Ge) *Naturwissenschaften* 54(20):543-544. Oct. 15, 1967. 474 N213
- 96207 HASHIMOTO, T., and others. Inhibitive and promotive effects of desoxygibberellin C and its methyl ester on plant growth. *Plant Physiol.* 42(6):886-887. June 1967. 450 P692  
S. Tamura, K. Mori, and M. Matsui, joint authors.  
When applied in combination with gibberellic acid to rice, maize, and lettuce seedlings.
- 96208 HAUG, A., and SMIDSRØD, O. Strontium-calcium selectivity of alginates. *Nature* 215(5102):757. Ref. Aug. 12, 1967. 472 N21  
Isolated from *Laminaria digitata* and *L. hyperborea*.
- 96209 HEGAZY, A. T., KHALIL, M. S., and KHALIL, S. Effect of seed treatment with various concentrations of NAA for different soaking periods on growth, chemical composition of bean [*Vicia faba*] plants. *Flora Abt. A, Physiol. Biochem.* 157(3):264-280. Ref. 1966. QK710.F5
- 96210 HEJNY, S. Overwintering of plants in ponds and reservoirs. (Cz) *Ziva* 15(5):162-164. Sept. 1967. 409.6 Z6
- 96211 HELMY, F. M., HACK, M. H., and YAEGER, R. G. Comparative lipid biochemistry. VI. Lipids of green and etiolated *Euglena gracilis* and of *Blastocystis culicis*. *Compar. Biochem. Physiol.* 23(2):565-567. Ref. Nov. 1967. 444.8 C73  
Also compared with *Clostridium butyricum*.
- 96212 HERBERT, E., and SMITH, C. J. Effect of limiting concentrations of T<sub>1</sub> ribonuclease on the release of aminoacyl-oligonucleotides from unfractionated yeast acceptor RNA. *J. Mol. Biol.* 28(2):281-294. Ref. Sept. 14, 1967. 442.8 J8224
- 96213 HILLMAN, W. S. Blue light, phytochrome and the flowering of *Lemna perpusilla* 6746. *Plant Cell Physiol.* 8(3):467-473. Ref. Oct. 1967. 450 P699
- 96214 HOLCKE, T. What should one know about the weather. (Ge) *Samenfachmann* 66:521-528. (Cont.) June 1967. 61.8 Sa4  
Effects on seeds.
- 96215 HUGEL, M. F. Composition and characteristics of pollen: A review of recent works. 8 p. Ref. *Transl.* 16840  
Physiology and biochemistry, chiefly.  
Translation from *Annales de l'Abeille* 8(4):299-307. 1965.
- 96216 HUTTER, R., and DEMOSS, J. A. Organization of the tryptophan pathway: a phylogenetic study of the fungi. *J. Bacteriol.* 94(6):1896-1907. Ref. Dec. 1967. 448.3 J82
- 96217 IKUSHIMA, I. Ecological studies on the productivity of aquatic plant communities. III. Effect of depth on daily photosynthesis in submerged macrophytes. *Bot. Mag. Tokyo* 80(944):57-67. Ref. Feb. 1967. 450 B651  
Chiefly *Elodea occidentalis* and *Chlorella ellipsoidea*; includes statistical research methods.
- 96218 INGOLD, C. T. Aspects of spore liberation: violent discharge. In Madelin, M. F., ed. *The fungus spore*, p.113-133. Ref. 1966. QK601.M3  
Includes discussion.
- 96219 ISMAILOV, N. M. Ecologo-floristic analysis of alkaloid-yielding plants in the flora of Talysh. (Rus) *Rastitel. Resursy* 3(1):53-58. 1967. 450 R18



- 96220 ISOBE, S. A study of the extinction of momentum flux within plant communities from the point of view of the light extinction. Tokyo. Nat. Inst. Agr. Sci. Bull. Ser. A (Phys. Statist.) 14:1-15. Ref. Mar.1967. 334.9 C43  
Includes effects of wind.
- 96221 IVCHENKO, V. I., PECHURA, A. L., and ZHMURKO, N. G. Nitrogen exchange of plants under the influence of molybdenum. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:240-244. S651.Z5
- 96222 JACOBS, M. Response of *Arabidopsis thaliana* [L.] Heynh to a thymidine analogue incorporated in culture medium. (Fr) Belg. Soc. Roy. Bot. Bull. 100(2):259-281. 1967. 451 B41B  
Includes mutagenic effects, of 5-bromodeoxyuridine and 5-fluorodeoxyuridine.
- 96223 JAKUBOWSKA, J., and others. Studies on itaconic and itatartaric acid production by gamma isolates of *Aspergillus terreus*. Acta Microbiol. Polon. 16(3):227-236. Ref. 1967. 448.3 Ac82  
A. Nowalkowska-Wasczuk, E. Lasota-Dulkowska, Z. Zakowska, and B. Sobocka, joint authors.
- 96224 JARVIS, P. G., and SLATYER, R. O. A controlled-environment chamber for studies of gas exchange by each surface of a leaf. Aust. Commonwealth Sci. Indus. Res. Organ. Div. Land Res. Reg. Surv. 29,16 p. Ref. 1966. 23 Au7324
- 96225 JAY, M. Chemical-taxonomic research of vascular plants; flavonoids in *Greyia sutherlandii* Harv. (Fr) Acad. Sci. Compt. Rend. Ser. D, 265(15):1086-1088. Ref. Oct.9,1967. 505 P21
- 96226 JEREBZOFF, S., and LAMBERT, E. Study of the rhythms of zonation in fungi by the variance spectrum method. (Fr) Physiol. Veg. 6(1):1-10. Ref. Jan./Mar.1968. 450 P5623  
English summary.  
Sporulation of *Myrothecium verrucaria*.
- 96227 JOHNS, S. R., and LAMBERTON, J. A. Alkaloids of *Phoebe clemensii* Allen (family Lauraceae). Australian J. Chem. 20(6):1277-1281. Ref. June 1967. 475 Au73
- 96228 JOHNS, S. R., LAMBERTON, J. A., and OC-COLOWITZ, J. L. Antirrhine, a new indole alkaloid from *Antirhea putaminosa* (F. Muell.) Bail. (family Rubiaceae). Australian J. Chem. 20(7):1463-1471. July 1967. 475 Au73
- 96229 JOHNS, S. R., LAMBERTON, J. A., and SIOUMIS, A. A. Cassytha alkaloids. IV. The alkaloids of *Cassytha racemosa* Nees (family Lauraceae). Australian J. Chem. 20(7):1457-1462. July 1967. 475 Au73
- 96230 JOHNS, S. R., LAMBERTON, J. A., and SIOUMIS, A. A. 1-benzyl-1,2,3,4-tetrahydroisoquinoline alkaloids from *Alseodaphne archboldiana* (Allen) Kostermans (family Lauraceae). Australian J. Chem. 20(8):1729-1735. Ref. Aug.1967. 475 Au73
- 96231 JOHNS, S. R., LAMBERTON, J. A., and OC-COLOWITZ, J. L. 1,5-dimethoxy-3-(dimethylaminomethyl) indole, the major alkaloid from *Gymnacranthera paniculata* (A. DC.) Warb. var. *Zippeliana* (Miq.) J. Sinclair (family Myristicaceae). Australian J. Chem. 20(8):1737-1742. Aug.1967. 475 Au73
- 96232 JOHNS, S. R., LAMBERTON, J. A., and SIOUMIS, A. A. Laurotetanine and n-methylaurotetanine from *Palmeria fengeriana* Perk. (family Monimiaceae). Australian J. Chem. 20(8):1787. Aug.1967. 475 Au73
- 96233 JOHNS, S. R., and LAMBERTON, J. A. Meteloidine from *Erythroxylum australe* F. Muell. Australian J. Chem. 20(6):1301. June 1967. 475 Au73
- 96234 JOHNS, S. R., LAMBERTON, J. A., and SIOUMIS, A. A. The occurrence of (+)-hygroline in *Gynotroches axillaris* Bl. (Rhizophoraceae). Australian J. Chem. 20(6):1303-1304. June 1967. 475 Au73
- 96235 JOHNSON, A. R., and others. The biosynthesis of cyclopropane and cyclopropene fatty acids in plant tissues. Lipids 2(4):308-315. Ref. July 1967. QP751.L5  
J. A. Pearson, F. S. Shenstone, A. C. Fogerty, and J. Giovanelli, joint authors.
- 96236 JOHNSON, M. P. Temperature dependent leaf morphogenesis in *Ranunculus flabellaris*. Nature 214(5095):1354-1355. June 24,1967. 472 N21
- 96237 JOHNSTONE, F. E., COBB, C., and CARTER, H. S. Effects of elevation and slope exposure on air and soil temperatures for the typical Georgia piedmont farm. Ga. Agr. Exp. Sta. Res. Bull. 31,26 p. Ref. Mar.1968. S51.E2  
Effects on plants.
- 96238 KAMSHILOV, M. M. Origin of strain R-1 of *Rhodotorula glutinis*. (Rus) Akad. Nauk SSSR. Inst. Biol. Vnutr. Vod. Tr. 13:224-226. 1966. 442.9 Akr192
- 96239 KANAZAWA, T., KANAZAWA, K., and NISHIMURA, T. Changes in contents of keto acids in *Chlorella [ellipsoidea]* cells during their synchronized life cycle. Plant Cell Physiol. 8(3):529-533. Ref. Oct.1967. 450 P699
- 96240 KAPPEN, L. The influence of water content on the resistance of plants to high and low temperatures, studied on leaves of some ferns and of *Ramonda myconi*. (Ge) Flora Abt. B, Morphol. Geobot. 156(4):427-445. Ref. 1966. QK641.A1F5
- 96241 KARPATI, I., and KARPATI, V. Manganese content of aquatic plants. Acta Bot. 13(1/2):95-112. Ref. 1937. 450 Ac823
- 96242 KATES, J. R., CHIANG, K. S., and JONES, R. F. Studies on DNA replication during synchronized vegetative growth and gametic differentiation in *Chlamydomonas reinhardtii*. Exp. Cell Res. 49(1):121-135. Ref. Jan.1968. 442.8 Ex7
- 96243 KAWASAKI, M., and ONO, T. Studies on thiaminase of fungi. I. Thiaminase of *Lentinus edodes* (Berg.) Sing. (Ja) Vitamins [Nagoya] 37(1):44-49. Ref. Jan.1968. 386.3 B54  
English summary.
- 96244 KHAN, A. A. Physiology of morphactins: effect on gravi- and photo-response. Physiol. Plant. 20(2):306-313. Ref. 1967. 450 P564  
Tests with lettuce and Graminea spp.
- 96245 KIM, I. H. Studies on controlling directional growth of pollen tubes. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(1):21-32. Ref. Sept.1967. 22.5 K843
- 96246 KOCH, W., and WALZ, H. Microclimate establishment for the determination of gaseous metabolism in plants. (Ge) Naturwissenschaften 54(12):321-322. June 15,1967. 474 N213
- 96247 KOK, B., and CHENAE, G. M. Kinetics and intermediates of the oxygen evolution step in photosynthesis. Curr. Top. Bioenerg. 1:1-47. 1966. QH511.S2  
Review of the literature.
- 96248 KOLBASINA, E. I. Wild Actinidia species as natural sources of vitamin C. (Rus) Les. Khoz. 1:81. Jan.1967. 99.8 L5622
- 96249 KORABLYOVA, N. P., POTAPOVA, L. M., and METLITSKY, L. V. The nucleotide composition of the acid soluble fraction of meristematic tissues and their role in resting phenomena of plant storing organs. (Rus) Prikl. Biokhim. Mikrobiol. 3(2):131-139. Apr. 1967. 385 P93
- 96250 KORIM, J. In the anniversary year - new task for the research of plant nutrition. Agrochemia [Bratislava] 7(12):374-376. 1967. 385 Ag88  
Fertilizer research at the Vyskumny Ustav Agrochemickej Technologie in Bratislava.
- 96251 KORSHUNOV, I. S., and SKRYABIN, G. K. Effect of the aeration of the 11  $\alpha$ -hydroxylic activity of *Tieghemella hyalospora*. (Rus) Prikl. Biokhim. Mikrobiol. 3(2):168-172. Apr.1967. 385 P93



- 96252 KOSTIR, J. "Disease" of the light. (Cz) Ziva 15(1):1-4. Jan.1967. 409.6 Z6  
Pigments, porphyrins and colors of plants.
- 96253 KREEB, K. Thermodynamical considerations concerning the water budget of plants. (Ge) Deut. Bot. Ges. Ber. 80(1):43-45. 1967. 451 D48
- 96254 KULAEV, I. S., and OKOROKOV, L. A. The oscillatory nature of phosphate absorption from the medium by *Penicillium chrysogenum*. (Rus) Akad. Nauk SSSR. Dokl. 179(4):982-985. Ref. 1968. 511 P444A  
Radioactive phosphorus used as tracer.
- 96255 KULIKOV, N. V., LYUBIMOVA, S. A., and FLEISHMAN, D. G. On the accumulation of caesium-137 by freshwater plants under experimental conditions and in natural water basins. (Rus) Akad. Nauk SSSR. Dokl. 178(6):1407-1409. 1968. 511 P444A
- 96256 KURYLOWICZ, B. Balance of nitrogen compounds in soils and cultivated plants. (Pol) Nowe Roln. 16(3):21-22. 1967. 20.5 N86
- 96257 KUTE, S., BLANCHET, R., and BOSE, M. Influence of straw in the course of humification on the dynamics of phosphorus in the soil and phosphorus nutrition of plants. II. Nutrition of plants. (Fr) Paris. Acad. Agr. France. Compt. Rend. Hebd. Seances 53(17):1330-1336. Dec.6/13,1967. 14 P215Bc
- 96258 KUTUZOV, G. P., and STEPANENKO, G. K. The effect of mineral nutrition on the growth and development of the root system of cultivated and weed plants. (Rus) Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina. Dokl. 6:14-16. Ref. June 1967. 20 Akl
- 96259 LABRIQUE, J. P. Perforation of weak points in the plasma membrane at the tip of *Nectria* sp. vegetative hyphae. (Fr) Belg. Soc. Roy. Bot. Bull. 100(2):225-237. 1967. 451 B41B  
English summary.
- 96260 LA CROIX, L. J., CANVIN, D. T., and WALKER, J. An evaluation of three fluorescent lamps as sources of light for plant growth. Amer. Soc. Hort. Sci. Proc. 89:714-722. Ref. Dec.1966. 81 Sol2
- 96261 LAHEY, F. N., and MACLEOD, J. K. The coumarins of *Geijera parviflora* Lindl. Australian J. Chem. 20(9):1943-1955. Sept.1967. 475 Au73
- 96262 LANGE, O. L. CO<sub>2</sub>-gas exchange in the lichen *Cladonia alpicornis* after long exposure to low temperatures. (Ge) Flora Abt. B, Morphol. Geobot. 156(4):500-502. 1966. QK641.A1F5
- 96263 LAVRENKO, E. M., and PONYATOVSKAYA, V. M. The main problems of the investigation of biological productivity of plants and their communities. (Rus) Bot. Zhur. [Moscow] 52(11):1549-1562. Ref. Nov.1967. 451 R923  
English summary.
- 96264 LAZUKOVA, G. G. Use of vegetation as indicators of permafrost conditions. (Rus) Moscow. Univ. Vestnik Ser. 5, Geogr. 4:54-58. July/Aug.1967. 331.9 M85
- 96265 LEE, R. The hydrologic importance of transpiration control by stomata. Water Resources Res. 3(3):737-751. Ref. 1967. 292.8 W295  
Use of diffusion coefficients for leaf types as a basis for cover-type conversions or biochemical controls to reduce water loss.
- 96266 LEGOCKI, A. B., and PAWELKIEWICZ, J. Fractionation of plant transfer ribonucleic acid by hydroxyapatite column. Acad. Polon. Sci. Bull. Ser. Sci. Biol. 15(9):517-520. 1967. 512 W262  
Tested with lupine.
- 96267 LEOPOLD, J., and SEICHERTOVA, O. The parasitism of the mould *Penicillium purpurogenum* on *Aspergillus niger*. III. The determination of the part of some enzymes of *Penicillium purpurogenum* in the mycelium lysis of the mould *Aspergillus niger*. Folia Microbiol. 12(5):447-457. Ref. 1967. 448.3 C332
- 96268 LE SAOS, J. Effects of NaCl and CaCl<sub>2</sub> on the absorption and distribution of calcium in *Cochlearia anglica* L. (Fr) Acad. Sci. C. R. Ser. D, 266(20):2075-2077. May 13,1968. 505 P21
- 96269 LEVI, E. Handling plants for macro-autoradiography. Symp. Use Isotop. Weed. Res. Proc. 1965:189-194. 1966. S589.S9  
Includes discussion.
- 96270 LEWIS, J. A., and PAPAIVIZAS, G. C. Effects of tannins on spore germination and growth of *Fusarium solani* f. phaseoli and *Verticillium albo-atrum*. Can. J. Microbiol. 13(12):1655-1661. Ref. Dec.1967. 448.8 C162
- 96271 LILLY, V. G. The effects of sterols and light on the production and germination of *Phytophthora* spores. In Madelin, M. F., ed. The fungus spore, p.259-272. Ref. 1966. QK601.M3  
Includes discussion.
- 96272 LONGENECKER, D. E. Response of American-Egyptian cotton varieties to nitrogen, water and plant population on clay loam soils of the El Paso Valley. Tex. Agr. Exp. Sta. Progr. Rep. PR-2541,8 p. May 15,1968. 100 T31P
- 96273 LONGO, O. W. On the occurrence of strontium in plants of the genus *Tecoma* (Bignoniaceae). (Por) Acad. Brasil. Cienc. An. 39(2):241-243. June 30,1967. 516 R473A  
English summary.
- 96274 LUKNITSKAYA, A. F. Do *Chlamydomonas* eugametos species have a capacity to heat hardening. (Rus) Tsitologiya 9(7):800-803. Ref. July 1967. 442.8 T78  
English summary.
- 96275 LYON, C. J. Rotation axes for analysis of gravity effects on plant organs. Plant Physiol. 42(6):875-880. Ref. June 1967. 450 P692  
Tests with *Coleus blumei* and wheat in clinostats.
- 96276 MACKAY, D. B., and TONKIN, J. H. B. Investigations in crop seed longevity. I. An analysis of long-term experiments, with special reference to the influence of species, cultivar, provenance and season. Nat. Inst. Agr. Bot. J. 11(1):209-225. Ref. 1967. 103 N21J
- 96277 MADHOSINGH, C. Light and temperature effects on growth and sporophore formation of *Lenzites trabea*. Can. J. Bot. 45(4):525-530. Apr.1967. 470 C16C
- 96278 MAKSIMOVA, I. V., and VYBORNYYKH, S. N. Some physiological peculiarities of the marine diatomous alga *Nitzschia ovalis* Arn. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 2(38):89-93. 1967. 442.8 N22
- 96279 MAKSYMOWYCH, R., and others. H-thymidine incorporation into nuclear DNA of leaf cells. Plant Physiol. 42(6):814-818. Ref. June 1967. 450 P692  
R. G. Devlin, M. K. Blum, and Z. S. Wochok, joint authors.  
Tests with *Xanthium pennsylvanicum*.
- 96280 MANDER, L. N., and others. The chemical constituents of *Galbulimima* species. X. The structure of himgaline. Australian J. Chem. 20(8):1705-1718. Aug.1967. 475 Au73  
R. H. Prager, M. Rasmussen, E. Ritchie, and W. C. Taylor, joint authors.  
An alkaloid.
- 96281 MANJOS, D. M. Communication of a Soviet guest scientist on the subject of seed science. (Ge) Saatgut-Wirtsch. 19(3):85-86,88. Mar. 1967. 61.8 S41  
Exchange visitor on seed germination.
- 96282 MANNERS, J. G. Assessment of germination. In Madelin, M. F., ed. The fungus spore, p.165-174. Ref. 1966. QK601.M3  
Includes discussion.
- 96283 MARECHAL, L. R. Beta-1,3-oligoglucan: orthophosphate glucosyltransferases from *Euglena gracilis*. I-II. Biochim. Biophys. Acta 146(2):417-431. Ref. Nov.14,1967. 381 B522
- 96284 MARZLUF, G. A., and METZENBERG, R. L. Studies on the functional significance of the transmembrane location of invertase in *Neurospora crassa*. Arch. Biochem. Biophys. 120(3):487-496. Ref. June 1967. 381 Ar2



- 96285 MATCHETT, W. H., TURNER, J. R., and WILEY, W. R. The role of tryptophan in the physiology of *Neurospora*. *Yale J. Biol. Med.* 40(1):257-283. Ref. Feb.1968. 448.8 Y1 *Neurospora crassa*
- 96286 MATOS, J. J. DE. A., and GOTTLIEB, O. R. Isocucurbitacin B, cytotoxic constituent of *Luffa operculata*. (Por) *Acad. Brasil. Cienc. An.* 39 (2):245-247. June 30,1967. 516 R473A English summary.
- 96287 MATSUSHIMA, K. I., and SHIMADA, K. On the prototypic systems of UV-mutants of *Aspergillus niger*. (Ja) *Agr. Chem. Soc. Jap. J.* 41 (12):671-674. Ref. Dec.1967. 385 Ag8 English summary.
- 96288 MCCLURE, J. W. Flavonoid variation in *Lemna perpusilla* from different laboratories. *Plant Cell Physiol.* 8(3):523-526. Oct.1967. 450 P699
- 96289 MCPHAIL, A. T., and others. Fungal metabolites. IV. The structure of ergoflavin: X-ray analysis of tetra-0-methylergoflavin Di-rho-iodobenzoate. *Chem. Soc. J. B, Phys. Org.* 1:18-30. Ref. 1966. QD1.C52  
G. A. Sim, J. D. M. Asher, J. M. Robertson, and J. V. Silvertown, joint authors.  
*Claviceps purpurea*.
- 96290 MEL'NICHUK, P. P., BELIMA, N. I., and LEVITSKAYA, L. A. The distribution of nitrogen in corn, sugar beets and peas in different stages of growth in relation to the nutrition. (Rus) *Zhytomyr's'kyi Sil's'kohospod. Inst. Mater. Konf.* 1967:498-503. S651.Z5
- 96291 MERDINGER, E., and CWIAKALA, C. E. Fatty acids of the lipids from *Pullularia pullulans*. *Lipids* 2(3):276-277. May 1967. QP751.L5
- 96292 MILAZZO, F. H., and LOUGHEED, G. J. An arylsulfatase in the wood-rotting basidiomycete, *Fomes geotropus*. *Can. J. Bot.* 45(4):532-534. Apr.1967. 470 C16C
- 96293 MOMMAERTS, J. P., and LAMBERT, M. C. Primary productivity of aquatic eco-systems and its measurement. (Fr) *Natur. Belg.* 48(4):186-197. Ref. Apr.1967. 410.9 N21  
Aquatic plants and phytoplankton.
- 96294 MONIN, J. Study of an inhibitor existing in the dormant embryo of *Eryonymus europaeus* L. (Fr) *Acad. Sci. Compt. Rend. Ser. D*, 264(20):2367-2270. May 17,1967. 505 P21
- 96295 MORQUER, R., LACOSTE, L., and BLAHA, G. Study of some fungus antagonists of *Clitocybe mellea*. (Vahl) Ricken. (Fr) *Acad. Sci. Compt. Rend. Ser. D*, 264(6):809-812. Ref. Feb.6,1967. 505 P21  
Effect of viridine, gliotoxine and patuline.
- 96296 MOURAVIEFF, I. Demonstration of decrease of blue in tetrazolium by epidermal leucoplasts in the presence and absence of carbon gas, in bright red light (662 nm) or in dark red (720 nm). (Fr) *Acad. Sci. Compt. Rend. Ser. D*, 264(6):828-829. Feb.6,1967. 505 P21  
In *Echinodorus ranunculoides* and *Bacopa monniera*.
- 96297 MOURAVIEFF, I. On the optic properties of the stomatic apparatus. Absorption of rays of 662, 530, and 440 millimicrons through the stomatic cells and their plastids in some species from the mid-Mediterranean during the dry season. (Fr) *Soc. Linn. Lyon.Bull. Mens.* 36(4):169-174. Apr.1967. 505 L992B English summary.  
Microphotometric study of light absorption by plants.
- 96298 MULLER, A. VON. On the optimal amount of soil moisture in a Gray Brown Podzolic soil from loess, observed in the growth of sugar beets in dry and wet vegetation periods. (Ge) *Bayer. Landwirt. Jahrbuch* 44(spec.no.3):130-133. 1967. 18 L24
- 96299 MULLER, E., and MULLER, K. Observations on the behavior of some up to now critical compass plants. (Ge) *Deut. Bot. Ges. Ber.* 80(4):279-290. Ref. 1967. 451 D48
- 96300 MULLER, G., and FORSTER, I. Nitrogen nutrition of Leguminosae and soil organisms. (Ge) *Zentralbl. Bakteriell. Parasitenk. Infektionskr. Hyg. Abt. II, Naturwiss.* 121(7):669-681. Ref. Nov.10,1967. 448.3 C33
- 96301 MULLER, L. E. Water budget as limiting factor in the culture of tropical economic plants. (Ge) *Deut. Bot. Ges. Ber.* 80(1):53-60. Ref. 1967. 451 D48
- 96302 MUNTZ, K. Results and problems of the mass culture of microalgae. (Ge) *Kulturpflanze* 15:311-350. 1967. 450 K95 English summary.  
Bibliography, p.340-350.
- 96303 MUSHAK, P. O. Content and state of nucleic acids in the alga *Dunaliella salina* Teod. Depending upon NaCl concentration. (Ukr) *Ukr. Bot. Zh.* 25(2):91-95. Ref. 1968. 450 J8212J English summary.  
Changes in color, protein and nucleic acid metabolism.
- 96304 NARI, J., and PENON, P. Properties of plant hematin compounds. (Fr) *Physiol. Veg.* 6(1):47-66. Ref. Jan./Mar.1968. 450 P5623 English summary.  
Analysis of spectral properties.
- 96305 NATR, L. Seminar on photosynthesis of plants. (Cz) *Prague. Vyzk. Ustav Zemed. Vestn.* 13 (5):238-239. 1966. 19.5 C333 Reviews.
- 96306 NEFF, M. Possibilities of purifying water through higher plants. (Ge) *Schweiz. Naturschutz* 34(1):3-5. Feb.1968. 279.8 Sch9  
Use of *Scirpus lacustris*
- 96307 NEKRASOV, L. I., CHASOVNIKOVA, L. V., and KOBOZEV, N. I. Photosensitizing action of monomolecular layers of chlorophyll. (Rus) *Zh. Fiz. Khim.* 41(10):2634-2639. Oct.1967. 385 Z63
- 96308 NEWHOUSE, W. J. Testing hypotheses with regard to measurement of primary productivity by  $^{14}\text{C}$  techniques, International Indian Ocean Expedition. *Diss. Abstr., Sect. B*, 28(5):1808B. Nov.1967. Z5055.U49D53  
Photosynthesis and phytoplankton.
- 96309 NICHIPOROVICH, A. A. IBP [International Biological Programme] and photosynthesis research in the USSR. *Sci. World* 11(3):11-17. 1967. 472 Sci25
- 96310 NILSSON, L. G. Influence of increasing amounts and placement of fertilizers on growth of sugar beets. (Sw) *Betodlaren* 29(1):5-9. 1966. 66.9 Sv22
- 96311 NORTON, J., and ROTH, J. S. Some aspects of nuclease activity in *Anacystis nidulans* and other algae. *Compar. Biochem. Physiol.* 23(2):361-371. Ref. Nov.1967. 444.8 C73
- 96312 OKUNTSOV, M. M., VRUBLEVSKAYA, K. G., and ZAITSEVA, T. A. The system of adenosinophosphate dynamical balance in plant leaves and the action of light on this system. (Rus) *Nauch. Dokl. Vyssh. Shk. Biol. Nauk.* 5(41):119-123. 1967. 442.8 N22
- 96313 OLIVER, M. L., and others. On the alkaloids of seeds of *Hunteria eburnea* Pichon. (Fr) *Ann. Pharm. Franc.* 26(2):105-114. Ref. Feb. 1968. 396.8 An7  
F. Quirin, B. C. Das, J. Levy, and J. Le Men.
- 96314 OORT, A. J. P. Phytoalexins. (Du) *Neth. Dir. Tuinbouw. Mededel.* 30(6):261-266. June 1967. 86 N384 English summary, p.276.
- 96315 PADMANABHAN, D. Embryogenesis in *Epithema carnosum*. *Indian Bot. Soc. J.* 46(1):90-108. Ref. 1967. 450 J821
- 96316 PAKHOMOVA, M. V., and YURINA, E. V. The change of amino acid composition of total protein in green alga (*Asteromonas gracilis* Artari) in relation to nitrogen nutrition. (Rus) *Nauch. Dokl. Vyssh. Shk. Biol. Nauk.* 10(4):101-104. 1967. 442.8 N22
- 96317 PALAMAR-MORDVINTSEVA, H. M. Need for iron in *Ankistrodesmus braunii* Brunth. (Ukr) *Ukr. Bot. Zh.* 25(1):21-28. Ref. Jan./Feb.1968. 450 J8212J English summary.  
Iron sulfates.

- 96318 PALIWAL, G. S. Ontogeny of stomata in some Cruciferae. *Can. J. Bot.* 45(4):495-500. Ref. Apr. 1967. 470 C16C
- 96319 PARIS, R., and ETCHEPARE, S. Presence of C flavonoides in a species of African Rutaceae: *Teclea sudanica* A. Chev. (Fr) *Ann. Pharm. Franc.* 26(1):51-53. Jan. 1968. 396.8 An7
- 96320 PARISI, B., and others. Species specificity in protein synthesis. *J. Mol. Biol.* 28(2):295-309. Ref. Sept. 14, 1967. 442.8 J8224  
G. Milanesi, J. L. Van Etten, A. Perani, and O. Ciferri, joint authors.  
Includes study on castorbeans.
- 96321 PATIL, B. A., JOSHI, G. V. Seasonal variations in chemical composition of *Ulva lactuca* & sea water. *Indian J. Exp. Biol.* 5(4):236-238. Ref. Oct. 1967. 442.8 In2
- 96322 PAUL, E. A., and MATHUR, S. P. Cleavage of humic acids by *Penicillium frequentans*. *Plant Soil* 27(2):297-299. Ref. Oct. 1967. 450 P696
- 96323 PEARLSTEIN, R. M. Fluorescence excitation of chlorophyll in green plants by beta particles. *Biochim. Biophys. Acta* 153(2):504-507. Feb. 12, 1968. 381 B522
- 96324 PENTLAND, G. D. Ethanol produced by *Aureobasidium pullulans* and its effect on the growth of *Armillaria mellea*. *Can. J. Microbiol.* 13(12):1631-1639. Ref. Dec. 1967. 448.8 C162
- 96325 PERLMAN, D., and SEMAR, J. B. Inhibition by purines of the production of fronds in *Lemna perpusilla*. *Nature* 215(5102):760-761. Aug. 12, 1967. 472 N21
- 96326 PHILBRICK, H., and GREGG, R. B. Companion plants & how to use them. New and enl. ed. New York, Devin-Adair, 1966. 111 p. Ref. QK911.P5 1966  
Allelopathy; growth promotion and pest control through interplanting.
- 96327 PIAGET, J. Observations on the mode of insertion and the drop of secondary branches of *Sedum*. (Fr) *Candollea* 21(2):137-239. Ref. 1966. 451 C16  
English summary.
- 96328 PILAT, A. New research on poisonous substances in *Amanita muscaria*. (Cz) *Ziva* 16(1):19-20. Jan. 1968. 409.6 Z6
- 96329 PITT, D., and WALKER, P. J. Particulate localization of acid phosphatase in fungi [*Botrytis cinerea*]. *Nature* 215(5102):783-784. Ref. Aug. 12, 1967. 472 N21
- 96330 PLOUVIER, V. Two new heterosides, diervillo-side isolation from *Diervilla lonicera* Mill (Caprifoliaceae) and *acanthopanaxoside* isolated from *Acanthopanax sessiliflorus* Seem. (Araliaceae). (Fr) *Acad. Sci. C. R., Ser. D*, 264(24):2835-2838. June 12, 1967. 505 P21
- 96331 POFF, K. L., and NORRIS, K. H. Four low-cost monochromatic sources of known equal intensities. *Plant Physiol.* 42(8):1155-1157. Aug. 1967. 450 P692  
Apparatus for experiments with far-red, blue, green, and red light.
- 96332 POGGIALI, R. M. Observations on the germination of *Chenopodium* seeds. (It) *Webbia* 22(1):67-74. 1967. 450 W38  
English summary.  
Influence of light and temperature on *C. album* and *C. ambrosioides*.
- 96333 PONTAILLER, S. The phototron of Gif-sur-Yvette, Essonne. (Fr) *Potasse* 41(347):147-150. Sept. 1967. 57.8 P84
- 96334 POSNER, H. B. Inhibitory effect of sucrose on flowering in *Lemna perpusilla* 6746 and mutant strain 1073. *Plant Cell Physiol.* 8(3):535-539. Oct. 1967. 450 P699
- 96335 PRADET, A. Study of adenosine-5'-mono, di, and tri-phosphates in vegetable tissues. I. Enzymatic determination. (Fr) *Physiol. Veg.* 5(3):209-221. Ref. July/Sept. 1967. 450 P5623  
English summary.
- 96336 PREOBRAZHENSKAYA, E. I. The viability of shoots grown from seeds irradiated by powerful doses of gamma-rays Co<sup>60</sup>. 4 p. Transl. 14745  
Translation from All-Union Academy of Agricultural Sciences. Agrophysical Scientific-Research Institute. Collection of Works in the Physics of Agronomy. No. 9. 1962.
- 96337 PROKOP, A., and others. Growth and physiological characteristics of a high temperature strain of *Chlorella pyrenoidosa* in continuous culture. *Nature* 214(5094):1234-1235. June 17, 1967. 472 N21  
J. Ricica, I. Malek, and J. Thomas, joint authors.
- 96338 PROWSE, G. A. Plankton productivity in relation to tropical fish culture. *Symp. Sci. Probl. Humid Trop. Zone Deltas Implications*. Proc. 1966:263-266. GB1205.S3
- 96339 RAGOT, J. Effects of composition of culture media on the synthesis of proteolytic enzymes by *Keratinomyces ajelloi*, Vanbr. (Fr) *Acad. Sci. Compt. Rend. Ser. D*, 265(14):965-968. Oct. 2, 1967. 505 P21
- 96340 RAITVIR, A. The rate of growth of the cup fungi. (Es) *Eesti Loodus* 3:157-158. Mar. 1968. 409.6 Ee7  
Discomycetes.
- 96341 RAMAMURTHY, V. D., and KRISHNAMURTHY, S. Nitrogen fixation by the blue-green alga *Trichodesmium erythraeum* (Ehr.). *Cur. Sci.* 37(1):21-22. Jan. 5, 1968. 475 Sci23
- 96342 RAO, P. V. S., and VAIDYANATHAN, C. S. Studies on the metabolism of o-aminophenol purification and properties of isophenoxazine synthase from *Bauhenia monandra*. *Arch. Biochem. Biophys.* 118(2):388-394. Ref. Feb. 1967. 381 Ar2
- 96343 RASTENIYA i faktory vneshnei sredy [Plants and environmental factors]. Sakhalin. Kompleks. Nauch.-Issled. Inst. Tr. 17,200 p. Ref. 1966. Q4.S2
- 96344 RAWLINS, S. L., and OSTER, J. D. Osmotic mechanism and negative pressure. *Science* 158(3805):1210-1211. Dec. 1, 1967. 470 Sci2
- 96345 REITZ, R. C., HAMILTON, J. G., and COLE, F. E. Fatty acid concentrations in synchronous cultures of *Chlorella pyrenoidosa*, grown in the presence and absence of glucose. *Lipids* 2(5):381-389. Ref. Sept. 1967. QP751.L5
- 96346 RIFFALDI, R., and ROTINI, O. T. Mito-inhibitory effect of aluminum on the root development of plants. (It) *Ric. Sci.* 37(11):1017-1020. Ref. Nov. 1967. Q4.R5
- 96347 ROBINSON, J. B. D., and FREEMAN, G. H. Sources of variation in leaf analysis in East Africa. *East Afr. Agr. Forest. J.* 33(1):8-13. July 1967. 24 Ea74
- 96348 RODEWALD, W. J., and GRYNKIEWICZ, G. *Lycopodium* alkaloids. VI. The alkaloids of *Lycopodium selago* L. (Pol) *Rocz. Chem.* 42(3):465-475. 1968. 385 R59  
English summary.
- 96349 ROSENBERG, H., MCLAUGHLIN, J. L., and PAUL, A. G. The cactus alkaloids. III. Pnenyl-alanine, dopa and dopamine as precursors to mescaline in *Lophophora williamsii*. *Lloydia* 30(1):100-105. Mar. 1967. 442.8 L77
- 96350 ROVELLI, B., and VAUGHAN, G. N. Alkaloids of *Acacia*. I. N<sub>2</sub> N<sub>2</sub>-dimethyltryptamine in *Acacia phlebophylla* F. Muell. *Australian J. Chem.* 20(6):1299-1300. June 1967. 475 Au73
- 96351 RUTHER, F. Comparative physiological investigation on the resistance of heavy metal plants. (Ge) *Protoplasma* 64(4):400-425. Ref. 1967. 442.8 P94  
English summary.  
Ecological resistance to zinc of various species from Europe.
- 96352 SALAGEANU, N., and TIPA, L. The diurnal course of photosynthesis in higher aquatic plants. *Rev. Roum. Biol. Ser. Bot.* 12(4):295-318. 1967. QK1.R4  
*Typha latifolia*, *Phragmites communis* and *Nymphae alba*.



- 96353 SALAGEANU, N. Tests with the culture of *Chlamydomonas intermedia* and *Oscillatoria amoena* in rotors. (Rus) Rev. Roum. Biol. Ser. Bot. 11(6):421-424. 1966. QK1.R4
- 96354 SANKHLA, N., SANKHLA, D., and CHATTERJI, U. N. In vitro induction of proliferation in female gametophytic tissue of *Ephedra foliata* Boiss. (Ge) Naturwissenschaften 54(8):203. Apr.15,1967. 474 N213
- 96355 SAWAMURA, Y. An autecological study of the photoperiodic response of the geographic strains of *Polygonum thunbergii* Siebold et Zuccarini. Jap. J. Bot. 19(3):353-386. Ref. 1967. 450 J27
- 96356 SCHAEFFER, G. W., BUTA, J. G., and SHARPE, F. Scopoletin and polyphenol-induced lag in peroxidase catalyzed oxidation of indole-3-acetic acid. Physiol. Plant. 20(2):342-347. Ref. 450 P564  
Tests with horseradish peroxidase.
- 96357 SCHAFER, J., and STEIN, M. Variability of substances in *Galagea officinalis* L. (Ge) Naturwissenschaften 54(8):205. Apr.15,1967. 474 N213  
Galegine and Peganine.
- 96358 SCHOLANDER, P. F. How mangroves desalinate seawater. Physiol. Plant. 21(1):251-261. (Cont.) Ref. 1968. 450 P564
- 96359 SCHROCK, G. F., and PALSER, B. F. Floral development, anatomy, and embryology of *Collinsia heterophylla* with some notes on ten other species of *Collinsia* and on *Tonella tenella*. Bot. Gaz. 128(2):83-104. Ref. June 1967. 450 B652
- 96360 SCHUBERT, A. W. What blooms in Attica? (Ge) Acta Phytoterap. 14(8):146-153. Oct. 1967. 450 Ac88  
In April.
- 96361 SCHWEIGER, R. G. Low-molecular-weight compounds in *Macrocystis pyrifera*, a marine alga. Arch. Biochem. Biophys. 118(2):383-387. Ref. Feb.1967. 381 Ar2
- 96362 SELL, Y. Inhibition of correlative type flowering of *Veronica longifolia* L. (Fr) Acad. Sci. Compt. Rend. Ser. D, 264(6):821-824. Feb.6, 1967. 505 P21
- 96363 SERBANESCO, E. Study of some physiological phenomena in hybrid plants and their parental forms. (Fr) Rev. Roum. Biol. Ser. Bot. 11(6):425-433. 1966. QK1.R4
- 96364 SHEPETILO, L. I. Content of organic carbon in cells of *Rhodotorula glutinis*. (Rus) Akad. Nauk SSSR, Inst. Biol. Vnutr. Vod. Tr. 13: 237-240. Ref. 1966. 442.9 Ak192
- 96365 SHIMADA, K., and MATSUSHIMA, K. Studies on the production of protease inhibitor by molds; production of protease inhibitor by *Penicillium cyclopium*. (Ja) Agr. Chem. Soc. Jap. J. 41(9):454-458. Ref. 1967. 385 Ag8  
English summary.
- 96366 SHIMURA, Y., and TERADA, S. Preliminary study on the red pigment appearing in *Azolla imbricata* (Roxb.) Nakai. (Ja) J. Jap. Bot. 42 (9):266-271. Ref. Sept.1967. 450 J8223  
English summary.
- 96367 SHIRMAMEDOV, M. The peculiarities of water regimes of species growing in lakeshore sands along the Karakum canal. (Rus) Akad. Nauk Turkm. SSR Izv. Ser. Biol. Nauk 4:36-40. Ref. 1967. 442.9 Ak124
- 96368 SHKOL'NIK, M. YA. The physiological role of boron in plants. (Rus) Bot. Zhur. [Moscow] 52(2):259-275. Feb.1967. 451 R923  
Review of the literature.
- 96369 SHURYGINA, N. N., AGATOVA, A. I., and EVREINOVA, T. N. Concentration of substances in coacervate layers. (Rus) Nauch. Dokl. Vyssh. Shk., Biol. Nauk. 2(38):110-114. 1967. 442.8 N22
- 96370 SHYMONA, O., URYSON, S. O., and KULAEV, I. S. Inorganic polyphosphate glucokinase in various microorganisms. (Rus) Biokhimiya 32 (3):495-503. Ref. May/June 1967. 385 B523  
English summary.  
Includes fungi and algae.
- 96371 SIDOROVA, I. I. Inactivation by fungi of trichotecin antibiotic. I. The ability of fungi of different groups to inactivate trichothecin antibiotic. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 5(41):128-133. 1967. 442.8 N22
- 96372 SIEGEL, B. Z., and GALSTON, A. W. Indoleacetic acid oxidase activity of apoperoxidase. Science 157(3796):1557-1559. Ref. Sept.29, 1967. 470 Sci2  
In plant extracts.
- 96373 SIETSMAN, J. H., and others. "Protoplasts" from *Pythium* sp. PRL 2142. Can. J. Microbiol. 13(12):1701-1704. Ref. Dec.1967. 448.8 C162  
D. E. Eveleigh, R. H. Haskins, and J. F. T. Spencer, joint authors.
- 96374 SIRENKO, L. A. Physiologo-biochemical peculiarities of metabolism in the blue-green algae according to recent data. II. Mineral nutrition, nitrogen fixation, toxicity, antibacterial activity, effect of environmental factors on vital activities of the blue-green algae. (Ukr) Ukr. Bot. Zh. 25(1):3-15. Ref. Jan./Feb.1968. 450 J821J
- 96375 SKULBERG, O. M. Effect of fertilizers on algal vegetation of surface waters. (No) Grundforbattering 2(20):85-90, map. 1967. 54.8 G92  
English summary.
- 96376 SLATYER, R. O. Plant-water relationships. London, Academic Press, 1967. 366 p. (Experimental Botany, an International Series of Monographs, v.2) QK870.S5  
Bibliography, p.309-347.
- 96377 SOKAWA, Y., and HASE, E. Effect of light on the chlorophyll formation in the "glucose-bleached" cells of *Chlorella protothecoides*. Plant Cell Physiol. 8(3):495-508. Ref. Oct. 1967. 450 P699
- 96378 SOKAWA, Y., and HASE, E. Effects of light on the deoxyribonucleic acid formation and cellular division in *Chlorella protothecoides*. Plant Cell Physiol. 8(3):509-522. Ref. Oct.1967. 450 P699
- 96379 SOLNTSEVA, I. O. Effect of bactericidal ultraviolet radiation on *Rhodotorula glutinis*. (Rus) Akad. Nauk SSSR. Inst. Biol. Vnutr. Vod. Tr. 13:231-236. 1966. 442.9 Ak192
- 96380 SOUSA, J. R. DE, GOTTLIEB, O. R., and MAGALHAES, M. T. Chemistry of Brazilian Leguminosae. XIII. Neoflavonoids of the genera *Goniorrhachis* and *Peltogyne*. (Por) Acad. Brasil. Cienc. An. 39(2):227-231. Ref. June 30, 1967. 516 R473A  
English summary.
- 96381 SPERRY, K., and NELSON, B. Water and air pollution: two reports on cleanup efforts. Science 158(3799):351-357. Oct.20,1967. 470 Sci2  
Includes physiological role of algae in Lake Erie pollution and legislation on air pollution.
- 96382 STEGEMANN, H., LOESCHKE, V., and LERCH, B. Biochemical possibilities for judging of plants. (Ge) Gesunde Pflanzen 19(9):192-196. Ref. Sept.1967. 464.8 G33  
Proteins in potato, sugar beet, and poplar.
- 96383 STEINER, A. M. Action spectra for polarotropism in germlings of a fern [*Dryopteris filixmas*] and a liverwort [*Sphaerocarpus donnellii*]. Naturwissenschaften 54(18):497-498. Sept.15,1967. 474 N213  
Effects of red and UV lights.
- 96384 STEINER, A. M. Dose-response curves for polarotropism in germlings of a fern [*Dryopteris filixmas*] and a liverwort [*Sphaerocarpus donnellii*]. Naturwissenschaften 54(18):497. Sept.15,1967. 474 N213  
Effects of red and blue light.
- 96385 STEYN, P. S., and HOLZAPFEL, C. W. The isolation of the methyl and ethyl esters of ochratoxins A and B, metabolites of *Aspergillus ochraceus* Wilh. S. Afr. Chem. Inst. J. 20(2): 186-189. Oct.1967. 385 So84
- 96386 STRIJDOM, B. W., and ALLEN, O. N. Studies with strains of *Rhizobium meliloti* cultivated on media supplemented with amino acids. S. Afr. J. Agr. Sci. 10(3):623-629. Sept.1967. 24 Su3



- 96387 SULOCHANA, C. B. Mycoflora of the root region. *Cur. Sci.* 37(7):188-190. Ref. Apr.5, 1968. 475 Sci23  
Chiefly isolation techniques.
- 96388 SUNDARAM, T. K., and FINCHAM, J. R. S. Hybridization between wild-type and mutant *Neurospora glutamate dehydrogenase* in vivo and in vitro. *J. Mol. Biol.* 29(3):433-439. Nov.1967. 442.8 J8224
- 96389 SUSSMAN, A. S. Types of dormancy as represented by conidia and ascospores of *Neurospora*. In Madelin, M. F., ed. *The fungus spore*, p.235-257. Ref. 1966. QK601.M3  
Includes discussion.
- 96390 TANAKA, H. Boron adsorption by plant roots. *Plant Soil* 27(2):300-302. Oct.1967. 450 P696
- 96391 TANNER, J. W. Roots: underground agents. *Plant Food Rev.* 13(1):11-13. 1967. 57.8 P694
- 96392 TARASOVA, N. B., and others. Development of the *Blakeslea trispora* culture and its formation of carotene. (Rus) *Prikl. Biokhim. Mikrobiol.* 3(2):173-177. Apr.1967. 385 P93  
E. V. Bolyanskaya, G. Ja. Kalmykova, E. P. Feofilova, K. D. Iptysheva, M. N. Bekhtertva, joint authors.
- 96393 TAYLOR, A. O., and BONNER, B. A. Isolation of phytochrome from the alga *Mesotaenium [caldariorum]* and liverwort *Sphaerocarpos*. *Plant Physiol.* 42(6):762-766. Ref. June 1967. 450 P692
- 96394 THAS, J. A quantitative determination of the total chlorophyll content in higher plants. Ghent. Rijksfac. Landbouwwetensch. Meded. 31 (4):1297-1301. 1966. 105.1 G344
- 96395 THENABADU, M. W. Micro-nutrients for plant growth. *World Crops* 19(1):57-60. Mar.1967. 281.8 W892
- 96396 TROJANOWSKI, J., LEONOWICZ, A., and WOJTAS, M. Exoenzymes in fungi degrading lignin. III. The effect of peroxidase on veratric acid. *Acta Microbiol. Polon.* 16(3):215-221. Ref. 1967. 448.3 Ac82
- 96397 TRUKHIN, N. V. Comparative evaluation of growth productivity of protococcal algae under conditions of mass culture. (Rus) *Akad. Nauk SSSR. Inst. Biol. Vnutr. Vod. Tr.* 13:216-221. Ref. 1966. 442.9 Ak192
- 96398 TRUKHIN, N. V. Salt tolerance of *Chlorella pyrenoidosa* Chick. (Rus) *Bot. Zhur [Moscow]* 52(9):1325-1330. Ref. Sept.1967. 451 P022
- 96399 TUGARINOV, V. V. Streptomycin-induced pigment mutants of *Chlorella vulgaris*. (Rus) *Genetika* 3:101-106. Ref. 1967. QH431.A1G4  
English summary.
- 96400 TUGAYE, M. T., and TOUZE, A. Nitrogen compounds in the conidia of *Colletotrichum lagenarium* (Pass.) Ell. and Halst.; comparison of various extraction methods. (Fr) *Acad. Sci. Compt. Rend. Ser. D.* 264(19):2292-2295. Ref. May 8, 1967. 505 P21
- 96401 URBANEK, H., MACIEJEWSKA-POTAPCZYK, W., and KOWALCZYK, T. Influence of some nucleic acid metabolism inhibitors on the synthesis of alkaline protease and  $\alpha$ -amylase in *Aspergillus oryzae*. *Acta Microbiol. Polon.* 16(3):237-242. Ref. 1967. 448.3 Ac82
- 96402 VAN KEUREN, R. W. Fertilization and root life. *Plant Food Rev.* 13(1):2-4-16. 1967. 57.8 P694
- 96403 WALSH, G. L. Application of the Bergmann principle to *Euglena gracilis*. *S. Dak. Acad. Sci. Proc.* 46:121-125. 1967. 500 So82  
Effects of temperature.
- 96404 WAREING, P. F. The physiology of the whole tree. *East Malling Res. Sta. Annu. Rep.* Apr.1968:55-68. Ref. 103 Ea7
- 96405 WEGENER, W. S., SCHELL, J. E., and ROMANO, A. H. Control of malate synthase formation in *Rhizopus nigricans*. *J. Bacteriol.* 94(6):1951-1956. Ref. Dec.1967. 448.3 J82
- 96406 WEST, K. R., and PITTMAN, M. G. Rubidium as a tracer for potassium in the marine alga *Ulva lactuca* L. and *Chaetomorpha darwinii* (Hooker) Kuetzing. *Nature* 214(5094):1262-1263. June 17, 1967. 472 N21
- 96407 WIJIK, W. R. VAN, ed. *Physics of plant environment*. Ed. 2. Amsterdam, North-Holland Publishing Company, 1966. 382 p. S589.W5 1966  
Bibliography, p.357-373.
- 96408 WIJIK, W. R. VAN, and UBING, D. W. S. Radiation. In Wijk, W. R. van, ed. *Physics of plant environment*, ed.2, p.62-101. 1966. S589.W5 1966  
Includes photosynthesis of plants.
- 96409 WIJIK, W. R. VAN, and BORGHORST, A. J. W. Turbulent transfer in air. In Wijk, W. R. van, ed. *Physics of plant environment*, ed.2, p.236-276. 1966. S589.W5 1966  
Includes water requirements of plants and evaporation.
- 96410 WITTWER, S. H., and others. Foliar absorption—penetration of the cuticular membrane and nutrient uptake by isolated leaf cells. *Qualitas Plant. Mater. Veg.* 14(1/2):105-120. Ref. Jan.10, 1967. 64.8 M41  
M. J. Bukovac, W. H. Jyung, Y. Yamada, R. De., H. P. Rasmussen, S. N. H. Mariam, and S. Kannan, joint authors.
- 96411 WOOD, G. H. Some causes of artefacts in autoradiography and their elimination. *S. Afr. J. Agr. Sci.* 10(2):555-558. June 1967. 24 Su3  
In plant research.
- 96412 WOODCOCK, C. L. F., and FERNANDEZ-MORAN, H. Electron microscopy of DNA conformations in spinach chloroplasts. *J. Mol. Biol.* 31(3):627-631. Feb.14, 1968. 442.8 J8224
- 96413 WRIGHT, M. L. Germination of seeds of perennials native to the Minnesota region. *Minn. Acad. Sci. J.* 34(1):14-15. 1967. 500 M663  
Wild flowers.
- 96414 YANAGITA, T., and NOMACHI, Y. Kinetic analysis of the region of protease formation in the hypha of *Aspergillus niger*. *J. Gen. Appl. Microbiol.* 13(2):227-235. Ref. June 1967. 448.3 J824
- 96415 YOSHIDA, T., and others. Studies on submerged culture of basidiomycetes. III. The oxygen transfer within the pellets of *Lentinus edodes*. *J. Ferment. Technol.* 45(12):1129. Ref. 1967. 390.08 H12  
T. Shimizu, H. Taguchi, and S. Teramoto, joint authors.
- 96416 YURKEVICH, V. V., KOZYREVA, G. T., and DERGACHOVA, M. I. Regularities of the amylase secretion of *Aspergillus oryzae*. (Rus) *Prikl. Biokhim. Mikrobiol.* 3(2):157-161. Apr.1967. 385 P93
- 96417 YUSUFOV, A. G., and ABDULLAYEVA, T. M. The culture of isolated leaves. (Rus) *Bot. Zhur. [Moscow]* 52(11):1646-1656. Nov.1967. 451 R923  
Review of the literature.

#### Physiology and Biochemistry of Field Crops

- 96418 DIATOFF, A. Effect of nitrification of a black earth soil on legume nodulation. *Queensland J. Agr. Anim. Sci.* 24(3/4):323-327. Sept./Dec. 1967. 23 Q37
- 96419 DIATLOFF, A. Effect of soil moisture fluctuation on legume nodulation and nitrogen fixation in a black earth soil. *Queensland J. Agr. Anim. Sci.* 24(3/4):315-321. Ref. Sept./Dec.1967. 23 Q37
- 96420 DMITRENKO, P. A., and SHEVCHENKO, L. A. The effect of phosphorus in relation to nitrogen and potassium fertilizers for plants. (Rus) *Zhityomyrs'kyi Sil's'kohospod. Inst. Mater. Konf.* 1967:439-446. S651.Z5
- 96421 GRONEVIK, G. Some factors influencing growth and emergence. (Sw) *Betodlaren* 29 (1):22. 1966. 66.9 Sv22  
Effects of soil moisture and temperature on field crops.



- 96422 JAMES, D. W., WEAVER, W. H., and REEDER, R. L. Soil test index of plant-available potassium and the effects of cropping and fertilization in central Washington irrigated soils. Wash. Agr. Exp. Sta. Bull. 697, 12 p. Ref. May 1968. 100 W27E  
Effects of fertilization on potassium uptake in field crops, beans and potatoes.
- 96423 KUDREV, T., KATSAROV, A., and SHOPOVA, K. Study on the formation of photosynthesizing leaf area in corn in relation to heterosis. (Bu) Rasteniyeudni Nauk. 4(10):3-13. Ref. 1967. 64.8 R18  
English summary.
- 96424 KUDRNA, K. Thermodynamic character of the effect of climatic factors on the formation of yields in field crops. (Cz) Czech. Min. Zemel. Les Hospodar. Ustav Vedeckotech. Inform. Rostlinna Vyroba 13(6):637-655. Ref. June 1967. 64.9 C33  
English summary.
- 96425 MARTINEZ VIERA, R. Experiments on the inoculation of leguminous plants in Cuba. (Sp) Rev. Agr. [Havana] 1(2):49-62. Ref. May/Aug. 1967. S15.R4
- 96426 MIROPOL'SKIYA, I. M. Effect of *Bacillus megatherium* on growth and development of some agricultural crops. (Rus) Moscow. Timiryazevskaya Sel'skokhoz. Akad. Dokl. 119:251-256. Ref. 1966. 20 M857  
Treatment of oat, apple and corn seeds.
- 96427 OUELLET, C. E. Climate and cultivation regions. (Fr) Agriculture [Montreal] 24(2):7-10. Ref. June 1967. 7 Ag82  
Field crops in Canada.
- 96428 PINE, W. H. Weather and climate modification. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Oct. 10, 1967, 2 p. HD9004.A1K3  
Effects on field crops.
- 96429 TERMAN, G. L. Fertilizer and soil properties affect crop response. Plant Food Rev. 13(1):14-16. 1967. 57.8 P694
- 96430 TSAP, M. L., and LEONCHIK, O. A. A quick method of determining ammonium nitrogen in plant extracts. (Rus) Khim. Sel'skom Khoz. 7:74-77. July 1967. 385 K524  
Field crops.
- Physiology and Biochemistry - Cereals
- 96431 ABUTALYBOV, M. G., and GUMMATOV, M. R. The effect of mineral nutrient conditions on manganese distribution in corn plants. (Az) Akad. Nauk. Azerbaidzh. SSR. Izv. Ser. Biol. Med. Nauk. 1:8-14. Ref. 1967. 442.9 Ak132  
Russian summary.
- 96432 ALEKHINA, N. D., and ANDREENKO, S. S. The role of caryopsis endosperm in nitrogen metabolism of maize shoots under different pH environment. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 5(41):113-118. 1967. 442.8 N22
- 96433 APPALA NAIDU, B., and VENKATESWARLU, B. Influence of different levels of moisture supply on growth and performance of *Pennisetum typhoides* S & H. Andhra Agr. J. 14(3):72-80. Ref. 1967. 34.2 An4  
In India.
- 96434 BAENZIGER, H. Observations on oats-vetch mixtures in the greenhouse. Forage Notes [Ottawa] 13(1):39. Spring 1967. 60.8 F742
- 96435 BALANARSALAH, D., and RAO, R. S. A note on protein content in paddy as influenced by the level and time of nitrogen application. Andhra Agr. J. 14(2):57-59. 1967. 34.2 An4  
In India.
- 96436 BALDI, G. Techniques and methods of artificial hybridization of rice. (It) Sementi Elette 13(1):34-43. Ref. Jan./Feb. 1967. 61.8 Se53  
English summary.  
Pollination techniques and effects of temperature.
- 96437 BARBER, D. A. Influence of pH on the uptake of phosphate by barley plants in sterile and non-sterile conditions. Nature 215(5102):779-780. Aug. 12, 1967. 472 N21
- 96438 BERGER, C., and FEIERABEND, J. The development of proplastids and the formation of photosynthesis enzymes in etiolated rye seedlings. (Ge) Physiol. Veg. 5(2):109-122. Ref. Apr./June 1967. 450 P5623  
English summary.
- 96439 BERGMANN, H. Occurrence and localization of gibberellins in germinating rye nuclei. (Ge) Naturwissenschaften 54(15/16):447-448. Ref. Aug. 1967. 474 N213
- 96440 BHAN, V. M. Analysis of growth in upland rice. Riso 16(2):113-119. June 1967. 59.8 R49  
Related to yields.
- 96441 BINGHAM, J. Investigations on the physiology of yield in winter wheat, by comparisons of varieties and by artificial variation in grain number per ear. J. Agr. Sci. [London] 68(3):411-422. Ref. June 1967. 10 J822
- 96442 BOMSEL, J. L., and PRADET, A. Study of adenosine-5'-mono, di, and tri-phosphates in vegetable tissues. 2. In vivo evolution of ATP, ADP, and AMP in wheat leaves as a function of different environmental conditions. (Fr) Physiol. Veg. 5(3):223-236. Ref. July/Sept. 1967. 450 P5623  
English summary.
- 96443 CERCEK, L., and others. RBE [relative biological effectiveness] of 14 MeV neutrons in barley. Int. J. Radiat. Biol. 12(5):405-413. 1967. 444.8 In8  
M. Ebert, P. Frost, and D. Greene, joint authors.
- 96444 CHIU, C. M., and POMERANZ, Y. Lipids in wheat kernels of varying size. J. Food Sci. 32(4):422-425. Ref. July/Aug. 1967. 389.8 F7322
- 96445 CHLYAH, H. Relationship between the number of suckers and adventive roots during developmental cycle of a hard wheat sensitive to radical lodging and in relation to treatments with auxin, gibberellin, kinetin and growth retardants of the CCC type. (Fr) Acad. Sci. C. R., Ser. D, 266(16):1662-1664. Apr. 1968. 505 P21
- 96446 CHU, Y. E. Variations in peroxidase isozymes of *Oryza perennis* and *O. sativa*. Jap. J. Genet. 42(4):233-244. Ref. Aug. 1967. 442.9 J27
- 96447 COMMONWEALTH BUR. OF SOILS. Bibliography on salt injury in rice (1966-1965). Commonwealth Bur. Soils [Annot. Bibliogr.] 1138, 11 p. 1967. 241 C734A
- 96448 COUPE, M., CHAMPIGNY, M. L., and MOYSE, A. On the intracellular localization of nitrate reductase in the leaves and roots of barley. (Fr) Physiol. Veg. 5(3):271-291. July/Sept. 1967. 450 P5623  
English summary.
- 96449 CSEH, E. Calcium uptake and translocation by intact wheat seedlings. Acta Bot. 13(1/2):11-20. Ref. 1967. 450 Ac823
- 96450 CUNARD, A. C. Maize agronomy. 3. Growth and fertilizer usage. World Crops 19(4):50-60. Ref. Sept. 1967. 281.8 W892
- 96451 CUPINA, T., and SARIC, M. The uptake and incorporation of carbon in single organic matters of young corn grown under different conditions of nutrition. (Se) Arh. Poljoprivredne Nauk. 20(69):48-62. Ref. 1967. 21.5 Y9  
English summary.
- 96452 DAVIS, W. E. P. The relation of water soluble carbohydrate to stage of maturity for a double cross field corn grown in the Lower Mainland of British Columbia. Forage Notes [Ottawa] 13(1):49-50. Spring 1967. 60.8 F742
- 96453 DRAGANOV, D., CHILIKOV, I., and STARIDOLSKI, G. Certain meteorological causes for rice yield decline. (Bu) Rasteniyeudni Nauk. 4(10):87-96. Ref. 1967. 64.8 R18  
English summary.  
In Bulgaria.

- 96454 DUBOUCHET, J. Variations in the auxin condition and physiological regeneration. (Fr) *Physiol. Veg.* 6(1):67-80. Ref. Jan./Mar.1968. 450 P5623  
In wheat coleoptiles.
- 96455 DU PLESSIS, D. P., and DLJKHUIS, F. J. The influence of the time lag between pollen-shedding and silking on the yield of maize. *S. Afr. J. Agr. Sci.* 10(3):667-674. Ref. Sept.1967. 24 Su3  
As effect of weather.
- 96456 EHARA, K., IKEDA, H., and MAENO, N. Physiological and ecological studies on the regrowth of herbage plants. 7. Studies on regrowth behavior of oats (*Avena sativa* L.) after defoliation at the internode elongation stage. (Ja) *Jap. Soc. Grassland Sci. J.* 13(3):189-194. Oct.1967. 60.9 J27  
English summary.
- 96457 ENYI, B. A. C. The effect of nitrogen and phosphorus on nutrient uptake in two varieties of swamp rice. *Nigerian J. Sci.* 1(2):185-203. Ref. July 1967. Q1.N5
- 96458 EWALD, E., and WENZEL, G. Effects of nitrogen fertilizers on the protein synthesis and on amino acid content of wheat seeds. (Ge) *Qualitas Plant. Mater. Veg.* 14(1/2):98-104. Ref. Jan.10,1967. 64.8 M41
- 96459 FABRY, A., and BECHYNE, M. The effect of 2-chloroethyl trimethylammonium chloride on wheat under extreme field conditions. (Cz) *Czech. Min. Zemedel. Les Hospodar. Ustav Vedeckotech. Inform. Rostlinna Vyroba* 40(6):665-669. Ref. June 1967. 64.9 C33  
English summary.
- 96460 FATYGA, J. The influence of the time and the amount of sowings upon the quality of grain of three varieties of spring barley. (Pol) *Wroclaw Wyzsza Szkola Roln. Zeszyty Nauk. Roln.* 21(66):157-165. 1967. 20.5 B75  
English summary.
- 96461 FEDOROV, N., and KOZHEMYAKIN, E. 2,4-D as indicator of meristematic activities in spring wheat. (Rus) *Sel'skokhoz. Proizvodstvo Povolzh'ya* 7:23-24. July 1967. 281.8 Se4
- 96462 FREEMAN, J. E., YAHL, K. R., and WATSON, S. A. A chemical and structural analysis of the caryopsis of an autotetraploid corn (*Zea mays* L.). *Crop Sci.* 7(6):655-658. Ref. Nov./Dec.1967. 64.8 C883
- 96463 FUKU, Y. Studies on the photoperiodism of rice plants. 13 p. Transl. 16858  
Translation from *Kagaku* 12(11):410-413. 1942.
- 96464 GALLER, I., and NADJAF-GHADIMI, R. The activity of saccharase and amylase in various parts of some summer wheats. (Ge) *Bayer. Landwirt. Jahrbuch* 44(4):444-452. Ref. 1967. 18 L24
- 96465 GASSER, J. K. R., and IORDANOU, I. G. Effects of ammonium sulphate and calcium nitrate on the growth, yield and nitrogen uptake of barley, wheat and oats. *J. Agr. Sci. [London]* 68(3):307-315. June 1967. 10 J822  
Fertilizers.
- 96466 GEE, M. S., NELSON, O. E., and KUC, J. Abnormal lignins produced by the brown-midrib mutants of maize. II. Comparative studies on normal and brown-midrib-1 dimethylformamide lignins. *Arch. Biochem. Biophys.* 123(2):403-408. Ref. Feb.1968. 381 Ar2
- 96467 GODNEV, T. N., and SMIRNOVA, L. F. Comparison of pigment accumulation of some corn hybrids and their parental varieties. (Rus) *Akad. Nauk Belorussk. SSR. Dokl.* 11(5):460-463. May 1967. 511 M663D
- 96468 GOLASZEWSKI, T., and others. Ribosomes from green and etiolated rye leaves. *Acad. Polon. Sci. Bull. Ser. Sci. Biol.* 15(9):531-537. Ref. 1967. 512 W262  
J. W. Szarkowski, D. Klarkowska, and M. Rytel, joint authors.
- 96469 GRASER, H. Cofactors of adenine decomposition in etiolated corn embryos. (Ge) *Deut. Bot. Ges. Ber.* 80(1):10-14. Ref. 1967. 451 D48
- 96470 GROHMANN, F., and QUEIROZ, J. P. DE. The effect of aggregate size on the growing and on the root system of the corn plants. (Por) *Bragantia* 25(1):253-262. Ref. 1966. 102.5 B73Tb  
English summary.
- 96471 GROHMANN, F., and QUEIROZ, J. P. DE. Effect of artificial compaction of two loamy-clayey soils upon the penetration of rice roots. (Por) *Bragantia* 25(2):421-431. Ref. 1966. 102.5 B73Tb  
English summary.
- 96472 GUSEINOV, B. Z., and MAMEDOVA, Z. Yu. The effect of minor elements on nitrogen exchange in corn, under varying climate conditions. (Az) *Akad. Nauk. Azerbaidzh. SSR. Izv. Ser. Biol. Med. Nauk.* 1:39-43. Ref. 1967. 442.9 Ak132  
Russian summary.
- 96473 HEMPHRIES, E. C., WELBANK, P. J., and WILLIAMS, E. D. Interaction of CCC and water deficit on wheat yield. *Nature* 215(5102):782. Aug.12,1967. 472 N21
- 96474 HUTCHIN, M. E., and VAUGHAN, B. E. Relation between calcium and strontium transport rates as determined simultaneously in isolated segments of the primary root of *Zea mays*. *Plant Physiol.* 42(5):644-650. Ref. May 1967. 450 P692  
Tests with <sup>85</sup>Sr and <sup>45</sup>Ca tracers.
- 96475 ITO, A., and FUJIWARA, A. Functions of calcium in the cell wall of rice leaves. *Plant Cell Physiol.* 8(3):409-422. Ref. Oct.1967. 450 P699
- 96476 JELLUM, M. D. Fatty acid composition of corn (*Zea mays* L.) oil as influenced by kernel position on ear. *Crop Sci.* 7(6):593-595. Nov./Dec.1967. 64.8 C883
- 96477 JOHNSON, V. A., MATTERN, P. J., and SCHMIDT, J. W. Nitrogen relations during spring growth in varieties of *Triticum aestivum* L. differing in grain protein content. *Crop Sci.* 7(6):664-667. Nov./Dec.1967. 64.8 C883
- 96478 KAACK, K., and KRISTENSEN, K. J. Emergence and seedling growth related to oxygen content and oxygen diffusion rate in different soils. *Agron. J.* 59(6):541-544. Ref. Nov./Dec.1967. 4 Am34P  
Wheat and mustard.
- 96479 KAFKAFI, U. Nitrogen, phosphorus and potassium contents in sorghum leaves during the growing season. *Israel J. Agr. Res.* 17(3):171-172. July 1967. 107 J552
- 96480 KALIAPPAN, R., and RAJAGOPAL, A. Effect of salinity on the South Indian field crops—duration and grain setting in ragi (*Eleusine coracana* Gaertn.). *Madras Agr. J.* 55(3):125-128. Mar.1968. 22 M262
- 96481 KALIAPPAN, R., RAMACHANDRAN, M., and RAJAGOPAL, A. Effect of salinity on the South Indian field crops: germination and early vigour of ragi (*Eleusine coracana* Gaertn.). *Madras Agr. J.* 54(12):619-623. Dec.1967. 22 M262
- 96482 KASPEREK, M. Transamination reactions in barley chloroplasts. (Fr) *Physiol. Veg.* 6(1):19-25. Ref. Jan./Mar.1968. 450 P5623  
English summary.
- 96483 KAZANTSEVA, F. A. Method of determining the viability of buckwheat seeds. (Rus) *Selek. Semenovodstvo* 2:41. Mar./Apr.1968. 61.9 Se5
- 96484 KERBABAIEVA, Z. A. Pollination strain reactions of various species of sorghum on cytoplasmic male-sterility in conditions prevailing in Turkmenistan. (Rus) *Akad. Nauk Turkm. SSR Izv. Ser. Biol. Nauk* 4:30-35. 1967. 442.9 Ak124
- 96485 KIZILOVA, E. G., and SHMAGINA, M. A. The pollination with pollen mixtures and the content of vitamins in corn seeds. (Rus) *Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina Dokl.* 5:14-16. May 1967. 20 Ak1



- 96486 KLIMASHEVSKII, E. L., and RETINSKAYA, L. V. Relation of the level of growth substances in maize tissues to the sensitivity of different varieties to fertilizers. (Rus.) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 1(37): 93-95. 1967. 442.8 N22
- 96487 KOHIC, M., and CINCOVIC, T. A contribution to the study of photosynthesis of some wheat varieties under field conditions. (Se) Arh. Poljoprivredne Nauk. 20(69):63-69. 1967. 21.5 Y9  
German summary.
- 96488 KÖLOVU, M. Studies on emergence, continuance of accretion and life of the separate leaves in Yubileina III wheat variety. (Bu) Rasteniye-vudni Nauk. 4(10):15-21. 1967. 64.8 R18  
English summary.  
In Bulgaria.
- 96489 KOLTAY, A. On the effect of chlorocholine chloride (CCC) on the grain yield and yield components of some varieties of winter wheat. (Ge) Bodenkultur 19(1):23-36. Feb. 1968. 19 B635  
English summary.
- 96490 KYARBLANE, KH. A. Absorption of phosphorus from Estonian phosphate rock. (Rus) Khim. Sel'skom Khoz. 7:23-26. July 1967. 385 K524  
Tested on oats.
- 96491 LACHOVER, D., and EPHRAT, J. Comparative study of direct effects of granulated and powdery superphosphates on wheat and residual effects on vetch (*Vicia atropurpurea*). (Fr) Qualitas Plant. Mater. Veg. 14(1/2):79-97. Ref. Jan. 10, 1967. 64.8 M41
- 96492 LAKER, M. C. Effect of previous applications of lime and zinc on the subsequent uptake of phosphorus and fertilizer zinc by rye plants in a pot experiment. S. Afr. J. Agr. Sci. 10(1): 11-18. Ref. Mar. 1967. 24 Su3  
Radioactive phosphorus and zinc.
- 96493 LAKER, M. C. Uptake of zinc and phosphorus by plants from a sandy soil. (Af) S. Afr. J. Agr. Sci. 10(2):323-330. Ref. June 1967. 24 Su3  
English summary.  
Corn.
- 96494 LANZA, F., and ONOFRII, M. The effect of (2-chloroethyl)-trimethylammonium chloride on dwarf wheat plants and their resistance to salinity. (It) Sementi Elette 13(5):314-322. Ref. Sept./Oct. 1967. 61.8 Se53  
English summary.
- 96495 LUPTON, F. G. H., ALI, M. A. M., and SUBRAMANIAM, S. Varietal differences in growth parameters of wheat and their importance in determining yield. J. Agr. Sci. [London] 69(1): 111-123. Ref. Aug. 1967. 10 J822  
Includes hybrid tests.
- 96496 MARAIS, P. G., DEIST, J., and HEYNS, C. F. G. Effect of phosphorus-32 on rye plants grown under unfavourable conditions. S. Afr. J. Agr. Sci. 10(3):843-845. Sept. 1967. 24 Su3
- 96497 MASUDA, Y., TANIMOTO, E., and WADA, S. Auxin [indole-3-acetic acid] stimulated RNA [ribonucleic acid] synthesis in oat coleoptile cells. Physiol. Plant. 20(3):713-719. Ref. 1967. 450 P564
- 96498 MASUDA, Y., and WADA, S. Effect of beta-1, 3-glucanase on the elongation growth of oat coleoptile. Bot. Mag. Tokyo 80(944):100-102. Feb. 1967. 450 B651
- 96499 MAZURAK, A. P. Packed soil can work plants to death. Nebr. Univ. Coll. Agr. Home Econ. Quart. Serving Farm Ranch Home 11, i.e. 14(3): 14-15. Fall 1967. 100 N27N  
Cereals and soybeans.
- 96500 MOOLANI, M. K., and SOOD, A. P. R. Response of rice to various moisture regimes. Riso 16(2):85-90. Ref. June 1967. 59.8 R49
- 96501 MORDINOVA, M. N. On the effect of exposure of barley to the light of different spectral composition on the growth and development of plants. (Rus) Moscow Univ. Vestnik Ser. 6 Biol. Pochvoved. 1:73-76. Jan./Feb. 1967. 442.9 M854
- 96502 MURTY, B. R., and RAM, J. Pattern of anthocyanin pigment in a world collection of Sorghum. Indian J. Genet. Plant Breeding 26(3): 246-254. Ref. Nov. 1966. 64.8 In2
- 96503 NAIK, B. N. Viability of paddy seeds. World Crops 19(1):36-37. Mar. 1967. 281.8 W892
- 96504 NAJCEVSKA, C. The effect of the method of castration of wheat flowers on the percentage of seed set and the absolute weight of seeds. (Se) Sots. Zemjod. 18(7/8):27-32. 1966. 280.28 So7  
Includes pollination.
- 96505 OAKS, A. Synthesis of macromolecules in maize root tips. Can. J. Bot. 45(4):385-394. Ref. Apr. 1967. 470 C16C
- 96506 ODINOKII, N. S. The effects of fertilizers combined with variable subsoil tillage on the dynamics of yellow pigment accumulation in corn leaves. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:328-331. S651.Z5
- 96507 OGO, T. Studies on the salt tolerance of crops. 2. Variations in electrophoretic patterns of water-soluble proteins of saline crops. Shimane Agr. Coll. Bull. 15(A-1):5-7. Jan. 1967. S539.J3S5  
Wheat.
- 96508 OH, W. K., and PARK, Y. S. The growth of wheat in relation to the chemical characteristics of soils. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(3):157-161. Ref. Sept. 1967. 22.5 K843  
English summary.
- 96509 PALIWAL, K. V., and ANJANEYULU, B. S. R. Growth of wheat and gram under saline-alkali field conditions. Madras Agr. J. 54(4):169-175. Ref. Apr. 1967. 22 M262
- 96510 PARK, Y. D. The effect of silica on the growth of rice plant. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(3):55-61. Sept. 1967. 22.5 K843  
English summary.
- 96511 PARK, Y. D. Studies on the nutritio-physiology of rice plant grown on an Akiochi-soil. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(3):23-35. Ref. Sept. 1967. 22.5 K843  
English summary.  
Includes nutritional deficiencies and fertilizer application.
- 96512 PASCALE, A. J., and MOTA, F. S. DA. Some bioclimatic features of wheat growing in Rio Grande do Sul State, Brasil. (Por) Pesquisa Agropecuar. Brail. 1:123-140, map. Ref. 1966. S15.P42  
English summary.
- 96513 PENCIC, M., and JELENIC, D. The occurrence of sterility in corn variety Kansas 1859. (Se) Savremena Poljoprivreda 15(4):339-344. Apr. 1967. 21 P75  
English summary.
- 96514 PIACCO, R. Research in rice irrigation. I. Consumption by evaporation and transpiration. (It) Turin. Univ. Fac. Sci. Agr. Ann. 1:203-228. Ref. 1961-62, pub. 1966. S9.T8  
English summary.
- 96515 PILLAI, K. M., VADIVELU, K. K., and VASUDEVAN, V. The effect of micro-nutrients on the growth and yield of paddy (TKM-6) with and without green leaf manure. Madras Agr. J. 54(1):18-24. Ref. Jan. 1967. 22 M262
- 96516 POLLHAMER, ZS. Effect of fertilizers on the quality of wheat. Acta Agron. [Budapest] 17(1/2):271-274. 1968. 19 Ac8  
Nitrogen, potassium and phosphorus.
- 96517 POP, E., VINTILA, R., and SORAN, V. The effect of saccharose and maltose on the rotation streaming. Rev. Roum. Biol. Ser. Bot. 12(1):75-79. Ref. 1967. QK1.R4  
Barley roots.

- 96518 POP, E., KEUL, M., and SORAN, V. The photodynamic reaction by erythrosine in the rotational streaming of barley root hairs (*Hordeum vulgare* L.). (Ge) *Protoplasma* 64(4):426-438. Ref. 1967. 442.8 P94  
English summary.
- 96519 POZSAR, B. I., KIRALY, Z., and HAMMADY, M. EL. Cytokinin activity of benzimidazole. *Acta Bot.* 13(1/2):169-174. Ref. 1967. 450 Ac823  
Barley and beans.
- 96520 PRAWDZIC, K. Rye and potato yields at the Agricultural Research Institute in Lipki, Star-gard district, in relation to the course of meteorological elements and soil moisture in the years 1960-1965. (Pol) *Stettin. Wyzsza Szkola Roln. Zeszyty Nauk.* 25:12-15. 1966, pub.1967. 20.5 St4  
German summary.
- 96521 RANGANATHAN, S. R., and RACHIE, K. O. Heterosis in growth rates for dry matter production in certain Sorghum strain. *Madras Agr. J.* 54(7):333-337. Ref. July 1967. 22 M262
- 96522 RASMUSSEN, D. C., and KLEESE, R. A. Isogenic analysis of strontium-89 accumulation in barley. *Crop Sci.* 7(6):617-619. Nov./Dec. 1967. 64.8 C883
- 96523 SAINI, S. S., and PANWAR, D. V. S. Differential response of rice varieties to nitrogen application. *Punjab Agr. Univ. J. Res.* 4(1):34-40. Ref. Mar.1967. S19.P8
- 96524 SANKARAN, S., RAMACHANDRAN, M., and KALIAPPA, R. A note on the tillering habit of hybrid bajra-1 (*Pennisetum typhoides* - S & H). *Madras Agr. J.* 54(6):320-323. June 1967. 22 M262  
In India.
- 96525 SCHACHL, M. The breaking of dormancy with gibberellic acid. (Ge) *Bodenkultur* 19(1):37-45. Ref. Feb.1968. 19 B635  
English summary.  
Grain.
- 96526 SEN, P. K., and DATTA, S. K. Studies in water relations of rice. II. Effect of varying water regimes on growth and yield of spring (boro), autumn (aus) and winter (aman) rice. *Indian J. Agr. Sci.* 37(5):369-389. Oct.1967. 22 Ag831
- 96527 SHEPTII, N. B. The penetration of nitrogen and the formation of separate corn organs through cultivation after crop rotation. (Rus) *Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf.* 1967:303-305. S651.Z5  
In U.S.S.R.
- 96528 SHEVCHENKO, V. P. Effect of fertilizers on chemical composition and yield of corn, grown on peat soils. (Rus) *Khim. Sel'skom Khoz.* 7:10-12. Ref. July 1967. 385 K524
- 96529 SIVASUBRAMANIAM, S., KALYANIKUTTY, T., and PURUSHOTHAMAN, G. The study of seed dormancy and viability in rice. *Madras Agr. J.* 54(6):297-301. Ref. June 1967. 22 M262
- 96530 SOUNDARARAJAN, T. G., and others. Extent of protraction in heading in certain improved strains of paddy rice. *Madras Agr. J.* 55(3):143-144. Mar.1968. 22 M262  
T. S. Theetharappan, M. Subbarayalu, and S. Arunachalam, joint authors.
- 96531 STOY, V. CCC in crop culture--facts and hopes. (Sw) *Var Naring* 44(8):10-11. 1967. 44.8 M692  
Effects on grain.
- 96532 STURM, H. Cycocel also now for rye. (Ge) *Lohnunternehmen Land-Forstwirtschaft.* 23(3):78-80. 1968. 58.8 D81
- 96533 TESTER, C. E., and DURA, L. S. Nucleic acid synthesis during the hormone-stimulated growth of excised oat coleoptiles. *Biochemistry* 6(8):2532-2538. Aug.1967. 381 B523
- 96534 TORZHINSKAYA, L. R., and others. The influence of growing conditions on the carbohydrate-amylase complex of wheat grain. (Rus) *Izv. Vyssh. Ucheb. Zaved. Pishch. Tekhnol.* 3(58):20-23. 1967. 389.8 IZ8  
L. G. Atanas, N. V. Romenskii, V. V. Maneraki, E. I. Novitskaya, joint authors. Russia.
- 96535 TS'AI, W. F. Study on the nitrogen and potash requirement in the panicle formation and fruiting stages. (Ch) *Agr. Ass. China J.* (n.s.) 57:72-78. Mar.1967. 22.5 Ag862  
Rice in Taiwan.
- 96536 TURKOVA, N. S., KUDRYAVTSEVA, N. V., and AKHMADEEVA, A. K. Effect of gibberellin and bromocholinebromide retardant upon the nucleic acid concentration in oat stems in relation to the changes in the lodging of the plants. (Rus) *Nauch. Dokl. Vyssh. Shk. Biol. Nauk.* 2(38):103-105. 1967. 442.8 N22
- 96537 UDAGAWA, T., and ODA, K. Influences of environmental factors on lodging of wheat and barley plants. I. Varietal difference of lodging in mobile wind tunnel test. (Ja) *Crop Sci. Soc. Japan. Proc.* 36(2):192-197. Ref. June 1967. 22.5 C88  
English summary.
- 96538 UDAGAWA, T., and ODA, K. Influences of environmental factors on lodging of wheat and barley plants. 3. Varietal difference of drag force. (Ja) *Crop Sci. Soc. Japan. Proc.* 36(2):206-211. June 1967. 22.5 C88  
English summary.
- 96539 VARGA, M., LOVAS, M., and VAD, Z. Connections between oxygen content, gibberellin formation and activity of hydrolytic enzymes in rice grains germinated under water. *Riso* 16(2):91-99. Ref. June 1967. 59.8 R49
- 96540 VIRMANI, S. M. Evaluation of comparative efficiency of super-digested compost on phosphorus uptake by rice by using P<sup>32</sup>. *Indian J. Agr. Sci.* 37(5):302-307. Ref. Oct.1967. 22 Ag831  
Oat straw compost.
- 96541 VLASYUK, P. A., MEL'NICHUK, P. P., and LEVCHENKO, L. A. The effect of different forms of phosphorous fertilizers on the activity of some fermenters of glycolysis. (Rus) *Vses. Akad. Sel'skokhoz. Nauk VI Lenina Dokl.* 5:8-10. May 1967. 20 Ak1  
In corn.
- 96542 WABERSICH, R. Long-term fertilization trial in Bernburg. II. Carbon and nitrogen ratios. (Ge) *Albrecht-Thaer-Arch.* 11(9):859-869. Ref. 1967. 18 AL1  
Germany (East).  
Rye and potatoes.  
English summary.
- 96543 WABERSICH, R. Long-term fertilization trial in Bernburg. III. Sorption and nutrient ratios. (Ge) *Albrecht-Thaer-Arch.* 11(9):871-881. Ref. 1967. 18 AL1  
Germany (East).  
Potatoes and rye.  
English summary.
- 96544 WALIGORSKA, A. Research on maize growth in mixed seedings with pulses and sunflower. (Pol) *Stettin. Wyzsza. Szkola Roln. Zeszyty Nauk.* 25:169-172. 1966, pub.1967. 20.5 St4  
English summary.
- 96545 WILKINS, M. B., and MARTIN, M. Dependence of basipetal polar transport of auxin upon aerobic metabolism. *Plant Physiol.* 42(6):831-839. Ref. June 1967. 450 P692  
Tested with oats, corn, and indoleacetic acid labelled with radioactive carbon.
- 96546 WINTER, A. The promotion of the immobilization of auxin in *Avena* coleoptiles by triiodobenzoic acid. *Physiol. Plant.* 20(2):330-336. 1967. 450 P564  
Tests with <sup>14</sup>C-indoleacetic acid and oats.
- 96547 YATAZAWA, M., FURUHASHI, K., and SHIMIZU, M. Growth of callus tissue from rice-root in vitro. *Plant Cell Physiol.* 8(3):363-373. Ref. Oct.1967. 450 P699



- 96548 YLLO, L. Influence of weather factors on the decrease in moisture content of seeds of summer grains. (Fi) Ann. Agr. Fenn. 6(4):191-196. 1967, pub. 1968. 20 An7  
German summary.
- 96549 ZADONTSEV, A. I., PIKUS, G. R., and KOV-TUN, V. S. Water requirements and productivity of winter wheat as related to maturity of preceeding corn hybrids. (Rus) Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina. Dokl. 6:2-6. June 1967. 20 Ak1
- 96550 ZHEBRAK, E. A., and RUNKOVA, L. V. Endogenous growth regulators extracted from dry seeds of diploid and tetraploid rye and barley. (Rus) Genetika 3:183-186. Ref. 1967. QH431.A1G4  
English summary.
- 96551 ZIJLSTRA, J. Cycocel as a growth inhibitor. (Du) Neth. Provinc. Dir. Rijkslandbouwvoorlichting Friesland Voorlichting Onderz. 1966: 62-63. SB183.N4A3  
Used on wheat to prevent lodging.
- 96564 NARZIKULOV, A. N. The action of complex microfertilizers on the intensity of cotton plant photosynthesis. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 10(4):86-89. 1967. 442.8 N22
- 96565 SAVOVA, N. Use of fertilizers as influencing biological and economic properties of irrigated cotton. (Bu) Rasteniyeudni Nauk. 4(10):75-84. Ref. 1967. 64.8 R18  
English summary.  
In Bulgaria.
- 96566 SOPYEV, A. B. The effect of defoliant on the physiologic processes of the thin fiber cotton plant. (Rus) Akad. Nauk Turkm. SSR Izv. Ser. Biol. Nauk 4:18-23. Ref. 1967. 442.9 Ak124
- 96567 STERN, W. R. Soil water balance and evapotranspiration of irrigated cotton. J. Agr. Sci. [London] 69(1):95-101. Ref. Aug. 1967. 10 J822  
Australia.
- 96568 TAYLOR, H. M., ROBERSON, G. M., and PARKER, J. J. Cotton seedling taproot elongation as affected by soil strength changes induced by slurring and water extraction. Soil Sci. Soc. Amer. Proc. 31(5):700-704. Ref. Sept./Oct. 1967. 56.9 So3

## Physiology and Biochemistry - Fiber Crops

- 96552 AGAKISHIEV, D., and BABAEV, D. Formative action of trichlorophenoxyacetic acids (2,4,5-T) on thin fiber cotton plants. (Rus) Akad. Nauk Turkm. SSR Izv. Ser. Biol. Nauk 3:84-87. 1967. 442.9 Ak124
- 96553 BAZANOVA, T. B. The effect of succinic and naphthenic acids on thin fiber cotton plants in varying doses of nitrogen-phosphate fertilizers. (Rus) Akad. Nauk Turkm. SSR Izv. Ser. Biol. Nauk 4:24-29. 1967. 442.9 Ak124
- 96554 BHARDWAJ, S. N., and ABROL, Y. P. Interaction of abscisin-II with some growth regulating substances. Indian J. Exp. Biol. 5(4):264-265. Ref. Oct. 1967. 442.8 In2  
Cotton.
- 96555 CHAKRAVARTY, R. K., VASUDEVAIH, R. D., and TEOTIA, S. P. S. Effect of N, P and K on growth and yield of cotton under rainfed condition in red loams of Chotanagpur. J. Soil Water Conserv. India 15(3/4):76-80. Ref. July/Dec. 1967. 56.8 J824
- 96556 CHAMBERS, A. Y., OVERTON, J. R., and ANDREWS, H. Interactions of preemergence herbicides, systemic insecticides, and soil fungicides on cotton. Southern Weed Conf. Proc. 21:54-66. Ref. 1968. 79.9 So8
- 96557 CORNELIUS, T. J., KAMALANATHAN, S., and NARAYANAN, A. Reliability of quick viability test with tetrazolium bromide on cotton seed. Madras Agr. J. 54(4):165-168. Ref. Apr. 1967. 22 M262
- 96558 DOMULLODZHANOV, KH. D. Uptake of phosphorus and nitrogen fertilizers by cotton, as related to soil moisture. (Rus) Khim. Sel'skom Khoz. 5(5):4-6. May 1967. 385 K524
- 96559 KISELEVA, N. T. Synthesis of nicotinic acids and thiamine with the rhizosphere bacteria of thin-fiber cotton plant. (Rus) Akad. Nauk. Turkm. SSR Izv. Ser. Biol. Nauk 4:10-17. Ref. 1967. 442.9 Ak124  
Includes effects on cotton biology.
- 96560 LEE, B. J. S., and BROMFIELD, A. R. Uptake of labelled phosphorus by cotton in Western Nigeria. Empire Cotton Growing Rev. 45(1): 17-26. Jan. 1968. 72.8 Em7
- 96561 LESIK, B. V. The effects of nitrogen fertilizers on hemp and flax fiber quality. (Rus) Zhytomyrs'kyi Sil'skohospod. Inst. Mater. Konf. 1967:40-45. S651.Z5
- 96562 MCNAIRN, R. B., and CURRIER, H. B. Sieve plate callose, a factor in blockage of axial phloem transport. Naturwissenschaften 54(22): 591. Nov. 15, 1967. 474 N213  
In cotton.
- 96563 NAGESWARA RAO, P., and MAHABOOB ALI, S. Influence of temperature and relative humidity on floral shedding on Northern cotton. Andhra Agr. J. 14(1):29-30. 1967. 34.2 An4  
In India.

## Physiology and Biochemistry - Forage Crops and Grasses

- 96569 ABAZA, R. H., BLAKE, J. T., and FISHER, E. J. Chemical analyses for nutritional elements and toxic oxalate compounds of sedges, rushes, and certain broad-leaved plants typifying inter-mountain meadowland forage. Utah. Agr. Exp. Sta. Mimeogr. Ser. 504, 26 p. Dec. 1967. 100 Ut1Mi
- 96570 ALEKPEROV, N. Z., and MAMEDOV, T. A. Resistance to salts of annual cultures, grown on the reclaimed soils in the Shirwa steppe. (Rus) Khlopkovodstvo 4:21-22. Apr. 1968. 72.8 K522  
Forage plants.
- 96571 ALEKSEEV, YU. A., and GAEL, A. G. On the ecological characteristics of fescues growing on sands. (Rus) Moscow Univ. Vestnik Ser. 6 Biol. Pochvoved. 1:59-62. Jan./Feb. 1967. 442.9 M854  
In U.S.S.R.
- 96572 ASHFORD, R. Growth analysis studies on brome grass and alfalfa. Forage Notes [Ottawa] 13(1):31. Spring 1967. 60.8 F742  
Includes effects of nitrogen and cutting.
- 96573 BAENZIGER, H. Root reserves in birdsfoot trefoil. Forage Notes [Ottawa] 13(1):33. Spring 1967. 60.8 F742
- 96574 BALASUNDARAM, V. R., SEN, A. N., and SEN, A. A note on bacteria in the phyllosphere of some agricultural crops. Indian J. Agr. Sci. 37(5):316-321. Ref. Oct. 1967. 22 Ag831  
Includes nitrogen fixing bacteria of legumes.
- 96575 BRUNEL-CAPELLE, G., and BAILLY-FENECH, G. Arginase in Vicia faba L., its distribution and biosynthesis. (Fr) Acad. Sci. Compt. Rend. Ser. D, 265(11):792-795. Ref. Sept. 11, 1967. 505 P21
- 96576 BUEHRING, J. A contribution to the mutual effect of nitrogenous manure and leaves on grass regrowth after cutting. (Ge) Z. Landes-kult. 8(4):273-280. Ref. 1967. 282.9 Z3  
English summary.
- 96577 CAUJOLLE, F., and others. Distribution of DMSO-<sup>35</sup>S in the Lupinus albus seedling. (Fr) Ann. Pharm. Franc. 26(2):119-121. Feb. 1968. 396.8 An7  
M. L. Oustrin, J. Oustrin, M. L. Cros, and A. Rouquie.
- 96578 DADE, E., TAYLOR, N. L., and GARRISON, C. S. Differential seed production of alfalfa clones at two diverse locations. Crop Sci. 7(6):663-664. Nov./Dec. 1967. 64.8 C883
- 96579 DAWLEY, W. K., and PETERSON, V. G. Performance of various grass-legume mixtures at Smithers, B.C. Forage Notes [Ottawa] 13(1):32. Spring 1967. 60.8 F742

- 96580 DESSUREAUX, L. Symbiosis of alfalfa in acid soils. Forage Notes [Ottawa] 13(1):25. Spring 1967. 60.8 F742  
Rhizobium.
- 96581 GARWOOD, E. A., and WILLIAMS, T. E. Growth, water use and nutrient uptake from the subsoil by grass swards. J. Agr. Sci. [London] 69(1):125-130. Ref. Aug. 1967. 10 J822  
Lolium perenne.
- 96582 GILL, R. S., and others. Chemical composition of a few perennial forages grown in Kangra District. Punjab Agr. Univ. J. Res. 4(2): 240-243. June 1967. S19.P8  
D. D. Sharma, S. Chander, and S. S. Negi, joint authors.
- 96583 GOLUBEV, V. N., MAKHAEVA, L. V., and KOZHEVNIKOVA, S. K. Calorimetric studies of the dynamics of productivity of the over-ground part of grasses in the Yaila Mts. (Cremaea). (Rus) Bot. Zhur. [Moscow] 52(9):1307-1320. Ref. Sept. 1967. 451 R923  
English summary.  
Includes ecology.
- 96584 GRAY, E., RICE, J. S., and HESTER, A. J. Survival responses of alfalfa varieties to potassium fertilization. Tenn. Farm Home Sci. Progr. Rep. 62:15-17. Apr./June 1967. 100 T25F
- 96585 GRELLET, F., JULIEN, R., and MILHOMME, H. Ribonuclease activity and RNA content in *Vicia sativa* L. during germination. (Fr) Physiol. Veg. 6(1):11-17. Ref. Jan./Mar. 1968. 450 P5623  
English summary.
- 96586 HART, R. H. Digestibility, morphology, and chemical composition of pearl millet. Crop Sci. 7(6):581-584. Ref. Nov./Dec. 1967. 64.8 C883
- 96587 HUBBARD, W. A. Is the fumigant the culprit? Forage Notes [Ottawa] 13(1):29-30. Spring 1967. 60.8 F742  
Sulfur-bearing fumigant seemed to increase alfalfa yield.
- 96588 HUNT, L. A., IMPENS, I. I., and LEMON, E. R. Preliminary wind tunnel studies of the photosynthesis and evapotranspiration of forage stands. Crop Sci. 7(6):575-578. Ref. Nov./Dec. 1967. 64.8 C883  
Alfalfa and *Dactylis glomerata*.
- 96589 INATOMI, H., and others. Studies on the free amino acids in plants. V. Isolation of delta-hydroxylysine from *Vicia faba* legume. Tokyo. Meiji Univ. Fac. Agr. Bull. 22:1-5. Nov. 1967. 22.5 T576  
Y. Mori, M. Ozawa, Y. Suyama, and F. Imukai, joint authors.
- 96590 JOHNSON, W. L. The nutritive value of *Panicum maximum* (Guinea grass). I-II. J. Agr. Sci. [London] 69(2):155-159, 161-170. Ref. Oct. 1967. 10 J822  
I, Yields and chemical composition related to season and herbage growth stage, by W. L. Johnson, W. A. Hardison and L. S. Castillo; II, Digestibility by cattle and water buffaloes, related to season and herbage growth stage, by W. L. Johnson, A. L. Ordoveza, W. L. Hardison, and L. S. Castillo.  
Philippines.
- 96591 JONES, R. I. Comparative effects of differential defoliation of grass plants in pure and mixed stands of two species. S. Afr. J. Agr. Sci. 10(2):429-444. June 1967. 24 Su3  
*Eragrostis plana* and *Paspalum dilatatum*.
- 96592 KANDERA, J. Chemical composition of clover crops, nutrient intake and uptake, and yields. (Cz) Pol'nohospodarstvo 14(2):145-153. Ref. 1968. 19.5 P752
- 96593 KARCZMARCZYK, S. Defoliation dates for narrow-leaf lupine (*Lupinus angustifolius*). (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:72-75. 1966, pub. 1967. 20.5 St4  
German summary.  
Effects on plant properties.
- 96594 KASKESKI, P. A. The influence of height of cut on the development of turfgrass roots. Turf Bull. 4(4):20. Summer 1967. 60.13 T846
- 96595 KAWANABE, S., and others. Studies on summer depression of pasture crops. 4. Influence of daylength upon the vegetative growth of white clover. (Ja) Jap. Soc. Grassland Sci. J. 13(2):112-121. Aug. 1967. 60.9 J27  
K. Yoshihara, T. Okada, M. Ueno, and M. Hidaka, joint authors.  
English summary.
- 96596 KAWASHIMA, S., and KANEKI, Y. Summer killing of mixed-sown pasture plants and their morphological changes in south-western Kanagawa. (Ja) Jap. Soc. Grassland Sci. J. 13(1): 26-31. Ref. May 1967. 60.9 J27  
Effects of heat.  
English summary.
- 96597 KHYBRI, M. L., and MISHRA, D. D. Root studies on some selected grasses in eastern Nepal. Indian Forest. 93(6):400-406. June 1967. 99.8 In2  
Effects of different intervals of cutting studied.
- 96598 LEGOCKI, A. B., MACKOWIAK, E., and PAWELKIEWICZ, J. Distribution pattern of amino acyl-sRNA-synthetase activities in lupine seeds. Acad. Polon. Sci. Bull. Ser. Sci. Biol. 15(7):435-438. 1967. 512 W262
- 96599 MACKIEWICZ, Z., and BALCEREK, W. The defoliation effect on ripening and quality of lupine seeds. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:113-116. 1966, pub. 1967. 20.5 St4  
English summary.
- 96600 MACKIEWICZ, Z., and PAWLUS, M. The effect of cutting terms on the first swath on hybrid lucerne yield. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:146-148. 1966, pub. 1967. 20.5 St4  
English summary.
- 96601 MACKIEWICZ, Z., and PAWLUS, M. The effect of cutting terms of the first swath on red clover yields. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:143-146. 1966, pub. 1967. 20.5 St4  
English summary.
- 96602 MACLEOD, L. B., and SUZUKI, M. Effect of potassium on the content of amino acids in alfalfa and orchardgrass [*Dactylis glomerata*] grown with  $\text{NO}_3^-$  and  $\text{NH}_4^+$  nitrogen in nutrient solution culture. Crop Sci. 7(6):599-605. Ref. Nov./Dec. 1967. 64.8 C883
- 96603 MANORIK, A. V., and ZHELYUK, V. M. The effect of the nitrogen nutritive level on the nucleic exchanges of plants. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:494-497. S651.Z5  
Oats and lupine.
- 96604 MANORYK, A. V., and DATSENKO, V. K. Effects of inoculation with nodule bacteria and the level of nitrogen nutrition on accumulation of nitrogen in lupine. (Uk) Visn. Sil's'kohospod. Nauk. 5:83-86. May 1966. 20 V82
- 96605 MCKEE, W. H. Effect of nitrogen on accumulation of ketone bodies in orchardgrass. Crop Sci. 7(6):677-678. Nov./Dec. 1967. 64.8 C883
- 96606 MCNAUGHT, K. J., and LUDECKE, T. E. Effect of magnesium compounds on magnesium levels in pastures. Massey Univ. Dairyfarming Annu. 1967:155-159. 44.9 M382  
In relation to control of hypomagnesemia in cattle.
- 96607 MIAKI, T. Studies on chemical composition and feeding value in forage crops. VII. Influence of level of nitrogen fertilization and stage of maturity on chemical composition and feeding value of winter rape. (Ja) Jap. Soc. Grassland Sci. J. 13(1):51-57. Ref. May 1967. 60.9 J27  
English summary.
- 96608 MIAKI, T. Studies on chemical composition and feeding value in forage crops. VIII. Influence of level on nitrogen fertilization, stage of maturity and growth phase on chemical composition and feeding value of rye hay. (Ja) Jap. Soc. Grassland Sci. J. 13(1):58-63. May 1967. 60.9 J27  
English summary.



- 96609 MIAKI, T. Studies on chemical composition and feeding value in forage crops. IX. An influence of level of nitrogen fertilization, stage of maturity and growth phases on chemical composition and feeding value of Bahiagrass. (Ja) Jap. J. Zootech. Sci. 38(5):187-193. Ref. May 1967. 49 N62  
English summary.
- 96610 MISRA, R. V. Free amino-acid content of alfalfa (*Medicago sativa*) affected by potassic fertilization. Madras Agr. J. 54(9):491-493. Sept. 1967. 22 M262
- 96611 MIYAZAKI, A., UESAKA, S., and IKEDA, K. The concentrations of nitrate in soiling cereals varying with cutting dates; in special reference to their variation with plant species and strains. (Ja) Jap. J. Zootech. Sci. 38(4):133-140. Ref. Apr. 1967. 49 N62
- 96612 NAIDU, B. A., and VENKATESWARLU, B. Influence of soil moisture on sugar and nitrogen contents of *Pennisetum typhoides*, S&H. Andhra Agr. J. 14(5):143-148. Ref. 1967. 34.2 A4
- 96613 NEL, P. C., and BURGERS, M. S. Effect of colour and size of seed on germination of South African standard lucerne seed. S. Afr. J. Agr. Sci. 10(1):31-39. Mar. 1967. 24 Su3
- 96614 OBATA, N., and others. Studies on the cultivation of alfalfa in the mountain region; the effects of lime and boron application on the growth and yield of alfalfa. (Ja) Konosu. Cent. Agr. Exp. Sta. J. 10:71-82. Ref. May 1967. 107.6 K832  
T. Shindo, T. Tomii, and J. Abe, joint authors.  
English summary.
- 96615 OJIMA, K., and ISAWA, T. Physiological studies on carbohydrates of forage plants. 2. Characteristics of carbohydrate compositions according to species on plants. (Ja) Jap. Soc. Grassland Sci. J. 13(1):39-50. Ref. May 1967. 60.9 J27  
English summary.  
Grasses and legumes.
- 96616 O'TOOLE, M. A., and MASTERSON, C. L. Interaction of calcium and hydrogen-ion concentration on nodulation of white clover in peat. Irish J. Agr. Res. 7(1):129-131. Apr. 1968. 10.5 Ir45
- 96617 PHOTIADES, T., and SHARR, I. A. Hay from cereals under Mediterranean conditions. World Crops 19(1):61-63. Mar. 1967. 281.8 W892  
Test on optimum stages of cutting grains for nutrient content under dry-land conditions.
- 96618 POLANSKI, S. The growth dynamics of three lupine species in maincrop. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:172-175. 1966, pub. 1967. 20.5 St4  
English summary.
- 96619 POWELL, J. B., and TAYLORSON, R. B. Induced sterility and associated effects of dimethylarsinic acid treatment of pearl millet. Crop Sci. 7(6):670-672. Nov./Dec. 1967. 64.8 C883
- 96620 RANJHAN, S. K., and TALAPATRA, S. K. Yield, chemical composition and nutritive value of giant napier grass. Indian J. Dairy Sci. 20(3):134-138. Sept. 1967. 44.8 In28
- 96621 RETHMAN, N. F. G., and BOOYSEN, P. DE V. Growth and development in *Cymbopogon excavatus* tillers. S. Afr. J. Agr. Sci. 10(3):811-821. Sept. 1967. 24 Su3
- 96622 RODRIGUEZ, C. S., and CARRION, M. P. Behavior of 76 varieties and hybrids of forage and grain sorghum. (Sp) Agron. Trop. [Mara-cay] 16(4):303-310. Oct./Dec. 1966. 26 Ag87  
English summary.  
Physiological.
- 96623 ROLT, W. F. Some effects of lime and molybdenum on the growth of white clover in Autea clay. New Zeal. J. Agr. Res. 11(1):193-205. Ref. Feb. 1968. 23 N4892
- 96624 ROTAR, P. P., and others. Crossing and flowering behavior in Spanish clover, *Desmodium sandwicense* E. Mey., and other *Desmodium* species. Hawaii. Agr. Exp. Sta. Tech. Progr. Rep. 164, 13 p. Ref. Nov. 1967. 100 H313P  
S. J. Park, A. Bromdep, and U. Urata, joint authors.
- 96625 RUSCHEL, A. P., and BRITTO, D. P. P. DE S. Asymbiotic nitrogen fixation in some grasses and in *Cyperus rotundus* by bacteriae of the genus *Beijerinckia* Derx. (Por) Pesquisa Agropecuar. Brasil. 1:65-69. Ref. 1966. S15.P42  
English summary.
- 96626 RUSCHEL, A. P., BRITTO, D. P. P. DE S., and DOBEREINER, J. Effects of magnesium, boron and molybdenum on symbiotic nitrogen fixation of beans (*Phaseolus vulgaris*, L.). (Por) Pesquisa Agropecuar. Brasil. 1:141-145. Ref. 1966. S15.P42  
English summary.
- 96627 RYSINA, G. P. Experimental study of generative ability of some forest grassy plants. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 5(41):88-90. 1967. 442.8 N22
- 96628 SAID, H., and others. Effect of some growth regulators on the rate and percentage of germination of broad bean [*Vicia faba*] seeds. I. Flora Abt. A, Physiol. Biochem. 157(3):233-245. Ref. 1966. QK710.F5  
A. T. Hegazy, M. S. Khalil, and S. Khalil, joint authors.  
Indoleacetic acid, alpha-naphthalene acetic acid, and gibberellic acid.
- 96629 SAID, H., and others. Effect of some growth regulators on yield and the chemical composition of *Vicia faba*. II. Flora Abt. A, Physiol. Biochem. 157(3):246-263. Ref. 1966. QK710.F5  
A. T. Hegazy, M. S. Khalil, and S. Khalil, joint authors.  
Indoleacetic acid, naphthaleneacetic acid, and gibberellic acid.
- 96630 SATO, K., NISHIMURA, N., and ITO, M. Ecophysiological studies on maintenance of density in forage crop sward. IV. The effects of soil moisture and cutting height on the yield and botanical composition in both orchardgrass-Ladino clover and orchardgrass-alfalfa mixtures. (Ja) Jap. Soc. Grassland Sci. J. 13(2):122-127. Aug. 1967. 60.9 J27  
English summary.
- 96631 SAUBERT, S., and SCHEFFLER, J. G. Strain variation and host specificity of *Rhizobium*. III. Host specificity of *Rhizobium trifolii* on African clovers. S. Afr. J. Agr. Sci. 10(2):357-364. Ref. June 1967. 24 Su3  
Symbiotic nitrogen fixation.
- 96632 SCHEFFLER, J. G., and LOUW, H. A. The symbiotic characteristics of the clover *Rhizobia* in the soils of the Stellenbosch district. S. Afr. J. Agr. Sci. 10(2):395-402. June 1967. 24 Su3
- 96633 SCHENDEL, U. The influence of near-surface ground water stands on the water consumption of clover-grass. (Ge) Bayer. Landwirt. Jahrbuch 44(spec.no.3):251-257. 1967. 18 L24
- 96634 SCHREITER, J., and MEINL, G. Innate growth rhythm and mitotic frequency in primary roots of *Vicia pannonica* Crantz. (Ge) Z. Pflanzenzucht. 58(1):88-96. Aug. 1967. 450 Z36  
English summary.
- 96635 SEREBRYAKOVA, T. I. Types of shoots and evolution of life forms in the family Gramineae. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 2(38):61-73. 1967. 442.8 N22
- 96636 SHEARD, R. W. Influence of defoliation and nitrogen on the development and the fructan composition of the vegetative reproductive system of timothy (*Phleum pratense*, L.). Crop Sci. 8(1):55-60. Ref. Jan./Feb. 1968. 64.8 C883
- 96637 SIDHU, G. S., SINGH, N., and SINGH, R. Symbiotic nitrogen fixation by some summer (Kharif) legumes of Punjab. 1. Role of leghaemoglobin in nitrogen fixation. Punjab Agr. Univ. J. Res. 4(2):244-248. Ref. June 1967. S19.P8

- 96638 SMALL, J. G. C., and JOFFE, A. Physiological studies on the genus *Trifolium* with special reference to the South African species. I. Germination. S. Afr. J. Agr. Sci. 10(1):123-134. Ref. Mar.1967. 24 Su3
- 96639 TZANG, C. G. Study of the crude protein content of the plant and fresh grass yield in relation to different growing days of napier grass. (Ch) J. Agr. Forest. 15:53-62. Oct.1966. 22.5 J823  
English summary.
- 96640 UENO, M. Physiology and ecology of alfalfa roots. 2. (Ja) Jap. Soc. Grassland Sci. J. 13(1):1-6. Ref. May 1967. 60.9 J27  
Review of the literature.
- 96641 UENO, M., YOSHIHARA, K., and HIDAKA, M. Studies on the root of herbage legumes. 3. Estimation of the role of the tap root in Ladino clover. (Ja) Jap. Soc. Grassland Sci. J. 13(2):100-104. Aug.1967. 60.9 J27  
English summary.  
Chiefly growth of seedlings.
- 96642 UENO, M., and YOSHIHARA, K. Studies on the root of herbage legumes. 4. Varietal difference of nodal root growth in relation to the compensation of tap root in white clover. (Ja) Jap. Soc. Grassland Sci. J. 13(3):195-198. Oct. 1967. 60.9 J27  
English summary.
- 96643 VOJINOVIC, Z. D. The effect of molybdenum on the development of alfalfa and on the symbiotic fixation of nitrogen. (Se) Arh. Poljoprivredne Nauk. 20(69):32-38. Ref. 1967. 21.5 Y9  
English summary.
- 96644 ZAMOTAIEVA, A. V. Development of *Poa palustris* L. in the first year of its life and peculiarities of its shoot formation. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 1(37):71-76. 1967. 442.8 N22
- 96645 ZAREMBA, V. P., and MALINSKAYA, S. M. The effect of nodule bacteria on the productivity of lupines and peas. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:169-173. S651.Z5
- 96646 ZHELYUK, V. M., and DATSENKO, V. K. Free amino acids of lupine [*Lupinus luteus* Tourn.] under various nutritional conditions and incorporation of atmospheric nitrogen into them. (Ukr) Ukr. Bot. Zh. 25(1):68-73. Jan./Feb.1968. 450 J8212J  
English summary.
- Physiology and Biochemistry - Oil Crops
- 96647 BRZOZOWSKA, J., and HANOWER, P. Development of arginase activity of peanut deficient and non deficient in sulfur. (Fr) Acad. Sci. Compt. Rend. Ser. D, 264(19):2288-2291. Ref. May 8, 1967. 505 P21
- 96648 DUBLYANSKAYA, N. F. The composition and biochemical properties of pericarps of sunflower varieties with high oil content. (Rus) Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina Dokl. 5:5-7. May 1967. 20 Ak1
- 96649 GOPALAKRISHNAN, S., and others. Studies on the time of sowing on the growth and yield of *Arachis hypogaea* L. Madras Agr. J. 54(6):283-288. June 1967. 22 M262  
S. Muhammad, L. Arunachalam, L. Veerannah, joint authors.  
In India.
- 96650 GORNAT, B., and GOLDBERG, D. Effect of sprinkler irrigation intensity on the flowering and yield of peanuts grown in three different soils. Israel J. Agr. Res. 17(4):187-191. Ref. Oct.1967. 107 J552
- 96651 HARIGOPAL, N., and RAO, I. M. Agro-physiological studies on groundnut (*Arachis hypogaea* linn.) with boron toxicity. Andhra Agr. J. 14(1):12-20. Ref. 1967. 34.2 An4
- 96652 HOLLEY, K. T., and HAMMONS, R. O. Strain and seasonal effects on peanut characteristics. Ga. Agr. Exp. Sta. Res. Bull. 32,27 p. Ref. Apr.1968. S51.E2  
Biochemical traits of hybrids and varieties.
- 96653 KAWAMURA, S., and TADA, M. Isolation and determination of sugars from the cotyledon, hull, and hypocotyl of soybeans by carbon column chromatography. Kagawa Univ. Fac. Agr. Tech. Bull. 18(2):138-146. Mar.1967. 107.6 K113
- 96654 KAWAMURA, S. Quantitative paper chromatography of sugars of the cotyledon, hull, and hypocotyl of soybeans of selected varieties. Kagawa Univ. Fac. Agr. Tech. Bull. 18(2):117-131. Ref. Mar.1967. 107.6 K113
- 96655 KAWAMURA, S., SUZUKI, H., and IMAYOSI, M. Separation of sugars from soybeans by centrifugal chromatography. Kagawa Univ. Fac. Agr. Tech. Bull. 18(2):142-146. Mar.1967. 107.6 K113
- 96656 MITROVIC, A. The stages of development of important soybean varieties. (Se) Arh. Poljoprivredne Nauk. 20(69):30-47. 1967. 21.5 Y9  
English summary.
- 96657 NARASAKI, T., and others. Enzymatic hydrolysis of soybean polysaccharides. III. Component polysaccharides of the taka-diaxase hydrolysis residue of the soybean cotyledon hemicellulose B<sub>1</sub>. Kagawa Univ. Fac. Agr. Tech. Bull. 19(1):37-39. 1967. 107.6 K113  
T. Kawaguti, A. Kondo, and S. Kawamura, joint authors.
- 96658 NARASAKI, T., and KAWAMURA, S. Polysaccharides of soybean hypocotyls. Kagawa Univ. Fac. Agr. Tech. Bull. 18(2):154-157. Mar.1967. 107.6 K113
- 96659 PLISKOVA, M. Amino acids in the sap of soybean plants under different phosphorus nutrition. (Ge) Zentralbl. Bakteriell. Parasitenk. Infektionskr. Hyg. Abt. II, Naturwiss. 121(7):726-730. Ref. Nov.10,1967. 448.3 C33  
English summary.
- 96660 PRASHAR, C. R. K., and SACHAN, P. L. Effect of irrigation on growth and yield of linseed. Indian J. Agr. Sci. 37(5):398-403. Ref. Oct. 1967. 22 Ag831
- 96661 RAMANUJAM, K., and others. Studies in the physiology of growth of *Sesamum indicum* L. with reference to effect of season. Madras Agr. J. 54(8):409-414. Aug.1967. 22 M262  
S. V. Muhammad, S. Gopalakrishnan, and L. Veerannah, joint authors.
- 96662 SINGH, V., and SINGH, J. P. Effect of spacing, nitrogen and phosphorous levels on yield and protein content of soybean. Madras Agr. J. 55(3):129-133. Ref. Mar.1968. 22 M262
- 96663 TOMBS, M. P. Protein bodies of the soybean. Plant Physiol. 42(6):797-813. Ref. June 1967. 450 P692
- 96664 URIE, A. L., LEININGER, L. N., and ZIMMER, D. E. Development of safflower seed as influenced by windrowing, varieties, and season. Crop Sci. 7(6):584-587. Nov./Dec. 1967. 64.8 C883
- 96665 YU, M., and MILLER, G. W. Effect of fluoride on the respiration of leaves from higher plants. Plant Cell Physiol. 8(3):483-493. Ref. Oct. 1967. 450 P699  
Soybeans and *Chenopodium murale*.
- Physiology and Biochemistry - Sugar Crops
- 96666 BEHR, Copious sugar beet leaves and forage yield during the 1967 sugar beet harvest - but moderate sugar content. (Ge) Zuckerrube 16(6):3-4. Dec.1967. 66.8 Z82
- 96667 BERGEN, P. Seasonal patterns of sucrose accumulation and weight increase in sugar beets. Amer. Soc. Sugar Beet Technol. J. 14(6):538-545. July 1967. 66.9 Am35J
- 96668 BRONNER, H. Observations on the field germination of pelleted sugar beet seeds in Upper Austria. (Ge) Bodenkultur 19(1):46-54. Feb. 1968. 19 B635  
English summary.
- 96669 GLOVER, J. The simultaneous growth of sugarcane roots and tops in relation to soil and climate. S. Afr. Sugar Technol. Ass. Proc. 1967:143-159. Ref. 65.9 So83



- 96670 GRUEV, T. Effect of dressing and irrigation of sugar beets grown on leached chernozem in the Brushlyan-Sandrovo irrigation area. (Bu) Pochvozn. Agrokhim. 2(4):35-47. 1967. S590.P6  
English summary.
- 96671 GUPTA, A. P., and SHUKLA, S. P. Potash fertilization of sugarcane. Part 1. Effect of potash application on uptake of nutrients, yield and juice quality of sugarcane. Sugar Technol. Ass. India Proc., 35th Annu. Conv., pt.1:111-115. Ref. 1967. 65.9 Su35P  
In India.
- 96672 HARRISON, M., and others. Sampling for 3-hydroxytyramine and polyphenoloxidase in sugar beets. Amer. Soc. Sugar Beet Technol. J. 14(6):470-479. July 1967. 66.9 Am35J  
G. W. Maag, M. G. Payne, R. J. Hecker and E. E. Remmenga.  
Phenolases in leaves.
- 96673 HUSZ, G. Effect of soil chemical characteristics on raw sugar ash content in Peru. Sugar J. 30(9):22-25. Feb.1968. 65.8 Su391  
Sugarcane.
- 96674 IL'YASHCHUK, E. M. The cause of low sucrose content in sugar beets in peat soils of the flood-plains of the Trubezh River. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:504-507. S651.Z5
- 96675 KRAMER, F. Ground water decline and sugar beet yields. (Ge) Bayer. Landwirt. Jahrbuch 44(spec.no.3):249-250. 1967. 18 L24
- 96676 KRUTMAN, S. A study of the grand growth period of sugarcane varieties. (Por) Pesquisa Agropecuar. Brazil. 1:395-400. Ref. 1966. S15.P42  
English summary.
- 96677 LOPATNIK, J., and RUCKA, M. The effect of irrigation on the concentration and dynamics of the uptake of nutrients by sugar beets. (Cz) Czech. Min. Zemedel. Les. Hospodar. Ustav Vedeckotech. Inform. Rostlinna Vyroba 41(1):17-28. Ref. Jan.1968. 64.9 C33  
English summary.
- 96678 LOZADO V., O. Relation between time of planting and flowering in: B.4362, B.37161, PB.980, and B.49119. (Sp) Jornadas Agron. Mem., 6th Conf., v.1,paper 12,5 p. 1966. S211.J6 1966.  
Sugarcane.
- 96679 MISRA, G. N. Effect of time of planting cane on yield and quality of gur. Sugar Technol. Ass. India Proc., 35th Annu. Conv., pt.1:23-30. Ref. 1967. 65.9 Su35P  
In India.
- 96680 MOLLER, R. B. The influence of nitrogen and potash fertilizers on the yield, C.C.S., Stalk population and nutrient uptake of sugar cane. Queensland Soc. Sugar Cane Technol. Proc., 33rd Conf.:69-76. 1966. 65.9 Q332  
Sucrose content.
- 96681 NEEB, O. Methods for achieving different field emergence with the same seed. (Ge) Zucker 20(10):269-272. May 15,1967. 65.8 Z82  
English summary.  
Sugar beets.
- 96682 PANDEY, V., and SOOKSATHAN, K. Frequency of spraying different hormones on quality and activity of enzymes in sugarcane. Sugar Technol. Ass. India Proc., 35th Annu. Conv., pt.1:251-264. Ref. 1967. 65.9 Su35P
- 96683 PINO R., B. Study on germination of the PR.980 sugarcane variety. (Sp) Jornadas Agron. Mem., 6th Conf., v.1,paper 30,12 p. Ref. 1966. S211.J6 1966
- 96684 RUSSELL, G. E. Some effects of infection with yellowing viruses and of fungicide applications on bolting in sugar beet. J. Agr. Sci. [London] 68(3):405-409. Ref. June 1967. 10 J822
- 96685 SINGH, S. Physiological indices of water deficits sugarcane plants and their measurements. Sugar Technol. Ass. India Proc., 35th Annu. Conv., pt.1:13-21. Ref. 1967. 65.9 Su35P  
In India.
- 96686 STANACEV, S. The effect of tillage and the amount of application of manure on the uptake of phosphorus in sugar beets. (Se) Novi. Sad. Poljopr. Fak. Letop. Naucnih Rad. 10:17-29. Ref. 1966. 106.6 N85  
English summary.
- 96687 STOUT, M. Photosynthesis and respiration studies with sugar beets. I. Equipment and methods. Amer. Soc. Sugar Beet Technol. J. 14(4):302-308. Jan.1967. 66.9 Am35J
- 96688 SWANSON, C. A., and GEIGER, D. R. Time course of low temperature inhibition of sucrose translocation in sugar beets. Plant Physiol. 42 (6):751-756. Ref. June 1967. 450 P692
- 96689 THOMSON, G. M. The effects of hot air treatment and hot water treatment on the germination of 12 commercial sugarcane varieties in Natal. S. Afr. Sugar Technol. Ass. Proc. 1967:206-212. 65.9 So83
- 96690 TOSELLO, R. N., REIS, A. J., and BARRETO, G. B. Water requirements of sugarcane. (Por) Bragantia 25(2):337-347. 1966. 102.5 B73Tb  
English summary.  
Irrigation requirements.
- 96691 VERMA, H. P., and ALI, A. Leaf nitrogen studies under different manurial and cultural practices in sugarcane. Sugar Technol. Ass. India Proc., 35th Annu. Conv., pt.1:31-37. Ref. 1967. 65.9 Su35P
- 96692 WINNER, C. Normal or excessive fertilizing and the quality of the sugar beet. (Ge) Zucker 20(5):111-118. Mar.1,1967. 65.8 Z82  
English summary.  
Includes sugar content.
- 96693 WOOD, G. H., and WOOD, R. A. The estimation of cane root development and distribution using radiophosphorus. S. Afr. Sugar Technol. Ass. Proc. 1967:160-168. Ref. 65.9 So83
- 96694 WOOD, R. A. Leaching in sands and its effect on nitrogen recovery by young cane. S. Afr. Sugar Technol. Ass. Proc. 1967:137-142. Ref. 65.9 So83  
Fertilizer.

## Physiology and Biochemistry - Tobacco

- 96695 AVUNDZHYAN, E. S. Metabolism of nicotine group alkaloids in plants. (Rus) Usp. Sovrem. Biol. 63(2):232-248. Ref. Mar./Apr.1967. 442.8 Er3  
Tobacco.
- 96696 BUTENKO, R. G., SHAMINA, Z. B., and FROLOVA, L. V. The induced organogenesis in a culture of tobacco stem pith callus and the characterization of the plants obtained from the tissue cultures of tobacco varieties. (Rus) Genetika 3:29-38. Ref. 1967. QH431.A1G4  
English summary.  
Induction by kinetin and ferulic acid.
- 96697 GRABULOSKI, T. Separation of tobacco alkaloids by means of electrophoresis. (Se) Tutun 5(6):147-168. Ref. May/June 1967. 69.8 T88
- 96698 MCCANTS, C. B., and WOLTZ, W. G. Growth and mineral nutrition of tobacco. Advances Agron. 19:211-265. Ref. 1966. 30 Ad9
- 96699 NOGUCHI, M., and others. Studies on nitrogen metabolism in tobacco plants. VIII. Effects of nitrogen sources and topping on the free amino acid composition of leaves and roots. (Ja) Jap. Monop. Corp. Cent. Res. Inst. Sci. Pap. 109:1-8. Ref. June 1967. 385 J273  
K. Yamamoto, A. Koiwai, H. Yoda, and E., Tamaki, joint authors.  
English summary.
- 96700 PARUPS, E. V. Plant phenolics and growth of tobacco. Lighter 37(1):11-16. Ref. Winter 1967. 286.89 C16
- 96701 STOJKOVSKA, A. A contribution to the study of content of proteins in Macedonian tobacco varieties. (Se) Sots. Zemjod. 18(7/8):33-44. Ref. 1966. 280.28 So7  
English summary.
- 96702 YAMMOTO, T. The distribution pattern of carbon-14 assimilated by a single leaf in tobacco plant. Plant Cell Physiol. 8(3):353-362. Ref. Oct.1967. 450 P699

## Physiology and Biochemistry of Horticultural Crops

- 96703 HANSEN, E. Cold and humid for living plants in storage. (No) Gartneryrket 43(57):914,931. Oct.27,1967. 80 G1938  
In relation to plant physiology and fungus diseases.

## Physiology and Biochemistry - Fruit Crops

- 96704 ADAMIC, F. The nutrition and fertilizers for fruit orchards. (Sl) Soc. Kmetijstvo Gozdarstvo 18(1):1-3. Jan.20,1967. 21.5 So14
- 96705 ALBRIGO, L. G., CLAYPOOL, L. L., and URIU, K. The effect of nitrogen level on development and maturity of Royal apricot fruits. Amer. Soc. Hort. Sci. Proc. 89:53-60. Ref. Dec.1966. 81 So12
- 96706 ALI, N., and WESTWOOD, M. N. Nucleic acids as related to juvenility in several *Pyrus* species. Amer. Soc. Hort. Sci. Proc. 89:123-131. Ref. Dec.1966. 81 So12  
Pears.
- 96707 ALLEWELDT, G., and BOURQUIN, H. D. Effect of chlorfluorenil methylester on the growth of callus and root of grape. (Ge) Naturwissenschaften 54(20):542. Oct.15,1967. 474 N213
- 96708 ANGELOV, T. Flower biology of quince. (Hu) Kertesz. Szoleszeti Foiskola. Kiadv. 3(2):301-311. 1966. SB13.K4
- 96709 ARASU, N. T. Overcoming self-incompatibility by irradiation. East Malling Res. Sta. Annu. Rep. Apr.1968:109-112. Ref. 103 Ea7  
Ultraviolet and X-irradiation of cherries, raspberries, and gooseberries.
- 96710 AYALA, H., and HOLMSQUIST, O. Relation between soil salinity and certain indexes in banana development. (Sp) Jornadas Agron. Mem., 6th Conf., v.2,paper 24,9 p. 1966. S211.J6 1966
- 96711 BAILEY, J. S., and others. Response of Rubel blueberry bushes to ammonium sulfate and sulfate of potash-magnesia. Amer. Soc. Hort. Sci. Proc. 89:237-242. Ref. Dec.1966. 81 So12  
B. Gersten, E. Vlach, and G. W. Onlanyk, joint authors.
- 96712 BERGH, B. O., GARBER, M. J., and GUSTAFSON, C. D. The effect of adjacent trees of other avocado varieties on Fuerte fruit-set. Amer. Soc. Hort. Sci. Proc. 89:167-174. Ref. Dec.1966. 81 So12
- 96713 BESTER, A. J., MEYNHARDT, J. T., and STRYDOM, D. K. The absorption, distribution and metabolism of foliar applied urea by the peach. S. Afr. J. Agr. Sci. 10(3):761-766. Sept.1967. 24 Su3
- 96714 BLANPIED, G. D. The harvest and storage of Alar sprayed McIntosh. N. Y. State Hort. Soc. Proc. 113:210-217. 1968. 81 N484
- 96715 BOGIN, E., and WALLACE, A. Organic acid synthesis and accumulation in sweet and sour lemon fruits. Amer. Soc. Hort. Sci. Proc. 89:182-194. Ref. Dec.1966. 81 So12
- 96716 BONDARENKO, A. A., and KHARITONOV, O. K. Methods of determination of nitrogen, phosphorus and potassium in sampled plant material. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:459-466. S651.Z5  
Apples
- 96717 BOUARD, J. Variations of glucide content in the bases of vine twigs during a complete vegetative cycle; existence of an endogene rhythm. (Fr) Acad. Sci. Compt. Rend. Ser. D, 264(15):1860-1863. Apr.10,1967. 505 P21
- 96718 BRIGGS, J. B., and AVERY, D. J. Growth and fruit drop of young fruit trees sprayed with the acaricides demeton-methyl or tetradifon. East Malling Res. Sta. Annu. Rep. Apr.1968:173-175. 103 Ea7
- 96719 BULATOVIC, S., and RAHOVIC, D. Regenerative capacity of peach varieties injured by cold with special regard to yields and quality of fruit. (Se) Arh. Poljoprivredne Nauk. 20(69):13-22. 1967. 21.5 Y9  
English summary.
- 96720 BUMBU, YA. V. The peculiarities of nitrogen nutrition of apple trees grafted on different rootstocks. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:388-392. S651.Z5
- 96721 CARLONE, R. Effect of gibberellin and annular decortication on fruit set and cluster development of seeded table grape. (It) Turin. Univ. Fac. Sci. Agr. Ann. 1:1-26. Ref. 1961-62, pub.1966. S9.T8  
English summary.
- 96722 CHANG, S. M. Study on the effect of timing of irrigation on yield and quality of spring-maturing pineapple during the fruiting period. (Ch) Hort. Soc. China. J. 12(3/4):41-46. Dec. 1966. 80 C47  
English summary.
- 96723 CHORNYI, I. B. Effect of lower temperatures on development of peach seedlings from non-stratified seeds. (Ukr) Ukr. Bot. Zh. 25(1):74-81. Ref. Jan./Feb.1968. 450 J8212J  
English summary.
- 96724 CHU, C. C. Studies on the promotion of sever-al chemical spray upon the flower-buds formation of apple trees. (Ch) Hort. Soc. China. J. 12(3/4):24-27. Ref. Dec.1966. 80 C47  
English summary.
- 96725 COLLINS, W. B., IRVING, K. H., and BARKER, W. G. Growth substances in the flower bud and developing fruit of *Vaccinium angustifolium* Ait. Amer. Soc. Hort. Sci. Proc. 89:243-247. Ref. Dec.1966. 81 So12  
Auxins.
- 96726 COOKE, A. R., and RANDALL, D. I. 2-halo-ethanephosphonic acids as ethylene releasing agents for the induction of flowering in pine-apples. Nature 218(5145):974-975. June 8, 1968. 472 N21
- 96727 COOPER, W. C., and HENRY, W. H. The acceleration of abscission and coloring of citrus fruit. Fla. State Hort. Soc. Proc. 80:7-14. Ref. May 1,1968. 81 F66  
Effects of growth substances on oranges.
- 96728 COSTES, C., and MILHET, Y. Influence of artificial light on the growth of the melon plant. (Fr) Paris. Acad. Agr. France. Compt. Rend. Hebd. Seances 53(17):1303-1314. Dec.6/13, 1967. 14 P215Bc  
Includes discussion.
- 96729 CURWEN, D., MCARDLE, F. J., and RITTER, C. M. Fruit firmness and pectic composition of Montmorency cherries as influenced by differential nitrogen, phosphorus, and potassium applications. Amer. Soc. Hort. Sci. Proc. 89:72-79. Ref. Dec.1966. 81 So12
- 96730 DECKERS, J. The behavior of Cox's type IX with respect to soils. (Fr) Fruit Belg. 35(312):275-281. Aug.1967. 80 F9493  
Apples.
- 96731 DENNEY, A., WALKER, D. R., and NORTON, R. A. A study of selected biochemical constituents in certain *Prunus* species. Amer. Soc. Hort. Sci. Proc. 89:140-149. Dec.1966. 81 So12
- 96732 DE SWARDT, G. H., and MAXIE, E. C. Pectin methylesterase in the ripening banana. S. Afr. J. Agr. Sci. 10(2):501-506. Ref. June 1967. 24 Su3
- 96733 DE SWARDT, G. H., MAXIE, E. C., and SINGLETON, V. L. Some relationships between enzyme activities and phenolic components in banana fruit tissues. S. Afr. J. Agr. Sci. 10(3):641-649. Ref. Sept.1967. 24 Su3  
Phenol compounds.
- 96734 DILLEY, D. R., and AUSTIN, W. W. The effect of alar (N-dimethylaminosuccinic acid) on maturation and storage quality of apples. Mich. State Hort. Soc. Annu. Rep. 96:102-109. 1966, pub.1967. 81 M58



- 96735 DOWLER, W. M., and KING, F. D. Seasonal changes in starch and soluble sugar content of dormant peach tissues. *Amer. Soc. Hort. Sci. Proc.* 89:80-84. Ref. Dec.1966. 81 So12
- 96736 EDGERTON, L. J. New materials to loosen fruit for mechanical harvesting. *N. Y. State Hort. Soc. Proc.* 113:99-102. 1968. 81 N484 Growth substances.
- 96737 EGGERT, D. A., MOLITORISZ, J., and MITCHELL, A. E. An instrument for measuring the volume of intact fruits. *Amer. Soc. Hort. Sci. Proc.* 89:30-33. Dec.1966. 81 So12  
Daily volumetric enlargement of apples for a 14 day period.
- 96738 EMERSON, F. H. Effects of alar (n-dimethyl amino succinamic acid) on peaches. *Mountaineer Grower* 275:29-40. Apr.1968. 80 M86
- 96739 EYNARD, I. Research on the absorption of radioactive sulfur by *Vitis vinifera* L. (It) Turin. Univ. Fac. Sci. Agr. Ann. 1:405-411. Ref. 1961-62, pub.1966. S9.T8  
English summary.
- 96740 FANG, T. T. Identification and seasonal variation of hesperidin in Tonkan Fruit. *Hort. Soc. China. J.* 12(3/4):32-40. Ref. Dec.1966. 80 C47  
Citrus.
- 96741 FERAUGE, M. T. Phytotron for fruit trees. (Fr) *Fruit Belg.* 36(318):57-64. Feb.1968. 80 F9493
- 96742 FISHER, D. V. The effects of the growth suppressant Alar upon growth, fruiting and storage response of five varieties of apples. *Nova Scotia Fruit Growers Ass. Annu. Rep.* 103:35-51. Dec.1966. 82 N85
- 96743 FORSHEY, C. G. Nutrition of our trees in a wet season following five dry ones. *N. Y. State Hort. Soc. Proc.* 113:221-223. 1968. 81 N484  
Apples in New York.
- 96744 GALLO, J. R., HIROCE, R., and RODRIGUEZ, O. Correlation between leaf composition and yields, and orange fruit sizes, as affected by fertilization. (Por) *Bragantia* 25(1):77-85. 1966. 102.5 B73Tb  
English summary.
- 96745 GRUPCEV, M. Preparation of fruit trees for winter dormancy. (Se) *Sovremeno Zemjod.* 13(11):6-7. Nov.1966. S13.S6  
Application of fertilizers.
- 96746 HANSEN, P. <sup>14</sup>C-studies on apple trees. I. The effect of the fruit on the translocation and distribution of photosynthates. *Physiol. Plant.* 20(2):382-391. Ref. 1967. 450 P564
- 96747 HEINICKE, D. R. Characteristics of McIntosh and Red Delicious apples as influenced by exposure to sunlight during the growing season. *Amer. Soc. Hort. Sci. Proc.* 89:10-13. Ref. Dec.1966. 81 So12
- 96748 HIELD, H. Z., COGGINS, C. W., and LEWIS, L. N. Temperature influence on flowering of grapefruit seedlings. *Amer. Soc. Hort. Sci. Proc.* 89:175-181. Ref. Dec.1966. 81 So12
- 96749 HIELD, H. Z., BURNS, R. M., and COGGINS, C. W. You can benefit from 2,4-D in citrus and not kill a weed. *World Farming* 9(10):14-16. Oct.1967. 30.08 W89  
Used as growth regulator.
- 96750 HIROSHI, I. Studies on the fruit development of natsudaikai (*Citrus natsudaikai* Hayata), with special reference to water spot injury. (Ja) *Kagawa Univ. Fac. Agr. Mem.* 23:1-59. Ref. Mar.1967. 22.5 K114  
English summary.
- 96751 HUANG, P. C. Investigation on the growth of new shoots and flower clusters of lychee tree. (Ch) *Hort. Soc. China. J.* 12(3/4):8-14. Dec. 1966. 80 C47  
English summary.
- 96752 HUANG, P. C. On the flowering and fruiting habits of longan (*Euphoria longana*, Lam.) tree. (Ch) *Hort. Soc. China. J.* 12(3/4):47-57. Dec.1966. 80 C47  
English summary.
- 96753 INTRIERI, C. Comparison between the types "spur" and trees treated with growth retardants. (Fr) *Pomol. Franc.* 9(6):151-159. Ref. June 1967. 80 P77  
Apples.
- 96754 JACKSON, J. E. Effects of shading on apple fruits. *East Malling Res. Sta. Annu. Rep.* Apr.1968:69-73. 103 Ea7  
Effects of light and temperature on fruit color and size.
- 96755 JAHN, O. L., and DANA, M. N. Dormancy and growth of the strawberry plant. *Amer. Soc. Hort. Sci. Proc.* 89:322-330. Ref. Dec.1966. 81 So12
- 96756 JOVANOVIC, M. The effect of foliar application of minor elements on some properties of the Golden delicious apple variety. (Se) *Savremena Poljoprivreda* 15(4):345-348. Ref. Apr.1967. 21 P75  
English summary.  
Effect on weight.
- 96757 JUSTE, C., POUCEL, B., and BRUZAUD, F. Effect of pH and bicarbonic anion on the iron absorption of grape roots. (Fr) *Acad. Sci. C. R., Ser. D*, 264(24):2781-2784. June 12, 1967. 505 P21
- 96758 KARABANOV, I. A. Effect of gibberellic acid on yields and quality of currants. (Rus) *Khim. Sel'skom Khoz.* 7:55-60. July 1967. 385 K524
- 96759 KARABANOV, I. A. Using gibberellins while propagating currants by grafting. (Rus) *Khim. Sel'skom Khoz.* 5(5):48-52. Ref. May 1967. 385 K524
- 96760 KAWASE, M. Growth-inhibiting substance and bud dormancy in woody plants. *Amer. Soc. Hort. Sci. Proc.* 89:752-757. Ref. Dec.1966. 81 So12  
Fruit trees and *Ulmus americana*.
- 96761 KHARITONOV, O. K. The effect of mineral nutritive conditions on nitrogen exchanges and the yield of apple trees. (Rus) *Zhytomyr's'kyi Sil's'kohospod. Inst. Mater. Konf.* 1967:376-378. S651.Z5
- 96762 KOBERIDZE, A. V., BENDIANISHVILI, N. K., and ARBAMISHVILI, T. I. Applying indoleacetic acid. (Rus) *Sadovodstvo [Moscow]* 10:34. Oct.1967. 80 Sa13  
On grapes.
- 96763 KOBLET, W. Aspects of grape physiology for the practical man. (Ge) *Schweiz. Z. Obst-Weinbau* 103(13):389-393. (Cont.) June 24, 1967. 80 Sch9
- 96764 KOMA, S., and YAMAMOTO, S. Influence of some coating agents on prevention of lowering of GA=gibberellin acid- effects on Delaware grapes due to rainfall. (Ja) *Shimane Agr. Coll. Bull.* 15(A-1):15-19. Jan.1967. S539.J3S5  
English summary.
- 96765 KOO, R. C. J. Effects of soil amendments on soil moisture and growth of young orange trees. *Citrus Indus.* 49(4):12,19-22. Apr.1968. 80 C49  
Rock phosphate, vermiculite and attapulgite clay.
- 96766 KOO, R. C. J. Effects of soil amendments on soil moisture and growth of young orange trees. *Fla. State Hort. Soc. Proc.* 80:26-32. May 1, 1968. 81 F66
- 96767 KOZMA, P., and MOHACSY, MRS. M. Determining spring nutrient uptake of grape on the basis of chemical composition of lachrymal exudate. (Hu) *Kertesz. Szoleszeti Foiskola. Kiadv.* 3(2):317-337. 1966. SB13.K4
- 96768 KREZDORN, A. H. The influence of seeds and pollen source on the size of fruit. *Fla. State Hort. Soc. Proc.* 80:37-43. Ref. May 1, 1968. 81 F66  
Tangelo fruits.
- 96769 KRUGER, N. S., and MENARY, R. C. Measures against high nitrate in papaws. *Queensland Agr. J.* 94(4):234-236. Apr.1968. 23 Q33  
Fertilizing.

- 96770 LABANAUSKAS, C. K. Effects of orange leaf-washing techniques on removal of surface contaminants and nutrient losses. Amer. Soc. Hort. Sci. Proc. 89:201-205. Ref. Dec.1966. 81 So12  
Valencia oranges.
- 96771 LAKSHMINARAYANA, S., and MATHEW, A. G. Leucoanthocyanidins of sapota fruit. J. Food Sci. 32(4):451-452. Ref. 389.8 F7322
- 96772 LEONOVA, N. T. Effect of indolyl butyric acid with vitamin B<sub>1</sub> and C on rooting of appl. rootstocks. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 12:124-125. 1967. 20 V633
- 96773 LOCASCIO, S. J., and SAXENA, G. K. Effects of potassium source and rate and nitrogen rate on strawberry tissue composition and fruit yield. Fla. State Hort. Soc. Proc. 80:173-176. Ref. May 1, 1968. 81 F66
- 96774 LUTHI, H. R. The importance, origin, and maintenance of apple aroma. (Ge) Schweiz. Z. Obst- Weinbau 104(3):60-67. (Concl.) Ref. Feb. 3, 1968. 80 Sch9
- 96775 MALCOLM, C. V., STOLZY, L. H., and JENSEN, C. R. Effect of artificial leaf coatings on foliar chloride uptake during sprinkler irrigation. Hilgardia 39(3):69-85. Ref. May 1968. 100 C12H  
Oranges.
- 96776 MARCELLE, R., and RASKIN, J. P. Some effects of CCC and B995 on fruit trees. (Fr) Fruit Belg. 35(314):269-274. Oct. 1967. 80 F9493  
2-chloroethyl trimethylammonium chloride and N-dimethylamino-succinamic acid as growth inhibitors.
- 96777 MAREI, N., CRANE, J. C., and BRADLEY, M. V. 2,4,5-trichlorophenoxyacetic acid-induced changes in transpiration and water content in the apricot, *Prunus armeniaca* L. Amer. Soc. Hort. Sci. Proc. 89:61-71. Ref. Dec. 1966. 81 So12
- 96778 MARTIN, G. C., and WILLIAMS, M. W. Break-down products of C<sup>14</sup> labeled N-dimethyl amino succinamic acid (Alar) in the apple tree. Amer. Soc. Hort. Sci. Proc. 89:1-9. Ref. Dec. 1966. 81 So12
- 96779 MAZLIAK, P., BEN ABDELKADER, A., and CATESSON, A. M. Comparison of the biosynthesis of lipides by entire cells and by isolated parenchyma mitochondria of the apple, *Pirus malus* L. (Fr) Physiol. Veg. 5(3):237-260. Ref. July/Sept. 1967. 450 P5623  
English summary.
- 96780 MCNICHOLAS, F. McIntosh response to Alar in the Champlain Valley. N. Y. State Hort. Soc. Proc. 113:217-220. 1968. 81 N484
- 96781 MELLENTIN, W. M. Anjou pear pollination problems. Wash. State Hort. Ass. Proc. 1967: 202-203. 81 W273
- 96782 MELLENTIN, W. M. Effect of climatic factors on fruit maturity and quality of pears. Wash. State Hort. Ass. Proc. Dec. 5-7, 1966: 67-69. 81 W273  
Pacific Northwest.
- 96783 MILOVANKIC, M., and VIDOJKOVIC, R. The germinability in vitro of the pollen of important varieties of cherries and sour cherries in some localities of Vojvodina. (Se) Novi Sad. Poljopr. Fak. Letop. Naucnih Rad. 10:115-120. 1966. 106.6 N85  
English summary.
- 96784 MINKOV, S. Recovery ability of the fig plant after frost damages. (Bu) Gradinar. Lozar. Nauk. 4(6):15-21. 1967. 87 G75  
English summary.
- 96785 MODI, V. V., and REDDY, V. V. R. Carotenogenesis in ripening mangoes. Indian J. Exp. Biol. 5(4):233-235. Ref. Oct. 1967. 442.8 In2
- 96786 MODLIBOWSKA, I. Effects of GA on the cropping of Conference pears following unfavourable conditions at blossom time. East Malling Res. Sta. Annu. Rep. Apr. 1968: 79-83. 103 Ea7
- 96787 NAITO, R. Effects of split application of nitrogen fertilizer on vine growth, yield and quality of Delaware grapes in relation to soil properties. (Ja) Shimane Agr. Coll. Bull. 15(A-1):20-23. Jan. 1967. S539.J3S5  
English summary.
- 96788 NAKASONE, H. Y., MIYASHITA, R. K., and YAMANE, G. M. Factors affecting ascorbic acid content of the acerola (*Malpighia glabra* L.). Amer. Soc. Hort. Sci. Proc. 89:161-166. Ref. Dec. 1966. 81 So12
- 96789 NARASIMHAM, P., and others. Effect of pre-harvest application of growth regulators on the control of berry drop in Bangalore Blue grapes (*Vitis labrusca* L.). J. Food Sci. Technol. [Mysore] 4(4):162-164. Dec. 1967. 388 J823  
M. M. Rao, N. Nagaraja, and B. Anandaswamy, joint authors.  
Post-harvest drop.
- 96790 NASSAR, A. R., and KLIEWER, W. M. Free amino acids in various parts of *Vitis vinifera* at different stages of development. Amer. Soc. Hort. Sci. Proc. 89:281-294. Ref. Dec. 1966. 81 So12  
Thompson Seedless grapes.
- 96791 NAURIYAL, J. P., and GUPTA, O. P. Studies on salt tolerance of grape. I. Effect of total salt concentration. Punjab Agr. Univ. J. Res. 4(2):197-205. June 1967. S19.P8  
Studies with various varieties in India.
- 96792 NORTON, J. D. Testing of plum pollen viability with tetrazolium salts. Amer. Soc. Hort. Sci. Proc. 89:132-134. Dec. 1966. 81 So12
- 96793 OBERBACHER, M. F. Citrus tissue culture as a means of studying the metabolism of carotenoids and chlorophyll. Fla. State Hort. Soc. Proc. 80:254-257. May 1, 1968. 81 F66
- 96794 OFFICE INTERNATIONAL DE LA VIGNE ET DU VIN. COMMISSION I. Enrichment in sugar and increase of the volume of berries: (Fr) Office Int. Vigne Vin. Bull. 40(439):902-918. Ref. Sept. 1967. 390.8 B87  
Presented at the 7th meeting held in Sofia, September 12-13, 1966.  
National reports; Italian, by C. S. Liuni and A. Calo; Rumanian, by G. Constantinescu, T. Martin, and M. Neagu; and Swiss.
- 96795 O'ROURKE, E. N. Ripen figs early with a simple treatment. La. Agr. 11(3):3, 16. Spring 1968. 100 L939  
Application of oil on growing fruit.
- 96796 OSANAI, T., HARATA, J., and OKAMOTO, T. Effects of ethylene on the physiology of apple fruits. (Ja) Hirosaki Univ. Fac. Agr. Bull. 13: 14-21. Mar. 1967. 22.5 H613  
English summary.  
Ripening.
- 96797 PACK, B. Fruit growing weather in 1967 in N. Y. State. N. Y. State Hort. Soc. Proc. 113:224-230, map. 1968. 81 N484
- 96798 PAILLARD, N. Gas chromatography and infrared spectrophotometry analyses of the volatile organic substances produced by apples. (Fr) Physiol. Veg. 5(2):95-107. Apr./June 1967. 450 P5623  
English summary.
- 96799 PAL, R. N., and LALORAYA, M. M. Nitrogen metabolism of *Tamarindus indica*: changes in  $\gamma$ -methyleneglutamine and its corresponding acid  $\gamma$ -methyleneglutamic acid during seedling growth. Physiol. Plant. 20(3):789-801. Ref. 1967. 450 P564
- 96800 A PANEL: Tree fruit nutrition in Central Washington. Wash. State Hort. Ass. Proc. Dec. 5-7, 1966: 201-207. 81 W273  
Members: J. M. Bloxom, G. Auvel, N. R. Benson.  
Minerals.
- 96801 PETKOV, V., and PANOVA, V. On the effectiveness of apple pollination by bees. (Bu) Gradinar. Lozar. Nauk. 4(7):11-21. Ref. 1967. 87 G75  
English summary.
- 96802 PLOTNIKOVA, I. V., and LESNICHII, V. P. Effect of growth substances on pre-harvest drop of currant berries. (Rus) Khim. Sel'skom Khoz. 7:60-64. July 1967. 385 K524



- 96803 PROEBSTING, E. L., and MILLS, H. H. Effect of gibberellic acid and other growth regulators on quality of early Italian prunes (*Prunus domestica*, L.). Amer. Soc. Hort. Sci. Proc. 89: 135-139. Dec.1966. 81 So12
- 96804 PROEBSTING, E. L., and MILLS, H. H. A standardized temperatures-survival curve for dormant Elberta peach fruit buds. Amer. Soc. Hort. Sci. Proc. 89:85-90. Ref. Dec.1966. 81 So12
- 96805 RASMUSSEN, G. K. Certain physiological changes in sweet orange seedlings during treatment with N-decenylsuccinic acid in solution cultures. Fla. State Hort. Soc. Proc. 80: 76-79. May 1,1968. 81 F66
- 96806 RASMUSSEN, G. K., and others. The organic acid content of Valencia oranges from four locations in the United States. Amer. Soc. Hort. Sci. Proc. 89:206-210. Dec.1966. 81 So12  
A. Peynado, R. Hilgeman, J. R. Furr, and G. Cahoon, joint authors.
- 96807 ROMANSHCHAK, S. P., and KHARITONOV, O. K. Interchange of nitrogen, phosphorus and potassium in apple tree roots, depending on mineral fertilizers and differences in soils. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:379-382. S651,Z5
- 96808 ROUSE, A. H. Characteristics of oranges from five-year-old trees. Fla. State Hort. Soc. Proc. 80:222-227. Ref. May 1,1968. 81 F66
- 96809 RUS'KO, O. O. Effect of molybdenum, chromium and zinc on chlorophyll accumulation in grape leaves. (Ukr) Ukr. Bot. Zh. 25(2):96-102. Ref. 1968. 450 J8212J  
English summary.
- 96810 RUS'KO, O. O. Effect of molybdenum, chromium and zinc on the content of protein and nonprotein nitrogen in grapes. (Ukr) Ukr. Bot. Zh. 25(1):92-100. Ref. Jan./Feb.1968. 450 J8212J  
English summary.
- 96811 SANABRIA LAREZ, O. Forms of applying phosphate fertilizers and phosphorus absorption by citrus plants. (Sp) Jornadas Agron. Mem., 6th Conf., v.2,paper 18,19 p. Ref. 1966. S211.J6 1966
- 96812 SEBOK, MRS. I. Relation between stratification period and treatment of *Prunus mahaleb* seeds. (Hu) Kertesz. Szoleszeti Foiskola. Kiadv. 3(2):29-43. 1966. SB13.K4
- 96813 SEGUIN, G. Water nutrition of grapevines in the Margaux [Medoc] region soils. (Fr) France.Inst. Nat. Appellations Origine Vins Eaux-de-Vie.Bull. 102:9-15. Oct.1967. 390.9 F843  
Soil moisture and evapotranspiration.
- 96814 SHAULIS, N., AMBERG, H., and CROWE, D. Response of Concord grapes to light, exposure and Geneva Double Curtain training. Amer. Soc. Hort. Sci. Proc. 89:268-280. Ref. Dec. 1966. 81 So12  
Solar radiation.
- 96815 SHERMAN, W. B., and JANICK, J. Greenhouse evaluation of fruit size and maturity in strawberry. Amer. Soc. Hort. Sci. Proc. 89:303-308. Dec.1966. 81 So12
- 96816 SHYAPNIKOV, S. B., and GRECHISHNIKOV, I. P. How currant roots are distributed. (Rus) Sadovodstvo [Moscow] 10:32. Oct.1967. 80 Sa13
- 96817 SIMONS, R. K. Abnormal phloem development and sieve-tube necrosis associated with Golden Delicious on EM VII rootstock. Amer. Soc. Hort. Sci. Proc. 89:14-22. Ref. Dec.1966. 81 So12
- 96818 SINGH, R. N., MAJUMDER, P. K., and SHARMA, D. K. Sex-expression in mango (*Mangifera indica* L.) with reference to prevailing temperature. Amer. Soc. Hort. Sci. Pro. 89:228-230. Dec.1966. 81 So12
- 96819 SOUTHWICK, F. W., WEEKS, W. D., and LORD, W. J. The influence of some growth regulators and techniques on the flowering, abscission growth, yield and physiological disorders of apples. Mass. Fruit Growers' Ass. Rep. 73:59-70. 1967. 81 M384  
Includes chemical thinners and growth inhibitors used in New England.
- 96820 SPINKA, J. Absorbable mineral nutrients in horticultural soils at the start of vegetative period of fruit trees. (Cz) Ziva 15(5):175-176. Sept.1967. 409.6 Z6
- 96821 STADLER, J. D., and STRYDOM, D. K. Flower bud development of two peach cultivars in relation to their winter chilling requirements. S. Afr. J. Agr. Sci. 10(3):831-840. Ref. Sept. 1967. 24 Su3  
Culemborg and Early Dawn.
- 96822 STATHAKOPOULOS, N. P., and ERICKSON, L. C. The effect of temperature on bud break in *Poncirus trifoliata* (L.) Raf. Amer. Soc. Hort. Sci. Proc. 89:222-227. Ref. Dec.1966. 81 So12  
Dormancy.
- 96823 STATHAKOPOULOS, N. P., and ERICKSON, L. C. Induction of dormancy in *Poncirus trifoliata* (L.) Raf. by controlled environmental conditions. Amer. Soc. Hort. Sci. Proc. 89: 216-221. Ref. Dec.1966. 81 So12
- 96824 STOEV, K. On the productivity of the leaves and redistribution of the assimilates. (Fr) Gradinar. Lozar. Nauk. 4(6):83-95. 1967. 87 G75  
In grapevines.
- 96825 SYMOCCHKINA, L. G., and SAPOZHNIKOVA, E. V. Transformations of pectines during fig ripening. (Rus) Prikl. Biokhim. Mikrobiol. 3(2):140-146. Apr.1967. 385 P93
- 96826 TETENYI, MRS. P. Physiological effect of apricot seed treatments terminating dormancy condition. (Hu) Kertesz. Szoleszeti Foiskola. Kiadv. 3(2):201-226. Ref. 1966. SB13.K4
- 96827 TITUS, J. S., SPLITTSTOESSER, W. E., and SPENCER, P. Metabolism of  $\alpha$ -ketoglutarate by roots of woody plants. Plant Physiol. 43(4):619-621. Apr.1968. 450 P692  
Tests with peach, apple, and *Ligustrum vulgare* using radioactive carbon.
- 96828 TON, L. D., and KREZDORN, A. H. Growth of pollen tubes in three incompatible varieties of citrus. Amer. Soc. Hort. Sci. Proc. 89:211-215. Ref. Dec.1966. 81 So12
- 96829 TURKOVIC, Z. Contribution to the determination of the assimilation surface of grape leaves. (Ge) Klosterneuburg. Hoheren Bundeslehr- Versuchsanst. Wein- Obstbau. Mitt. 16(1):6-12. Jan.1966. 105.9 K696  
English summary.
- 96830 TURNER, D. W. Micro propagation of bananas. Agr. Gaz. New S. Wales 79(4):235-236. Apr. 1968. 23 N472
- 96831 VERZILOV, V. F., and PLOTNIKOVA, I. V. Growth substances are lowering pre-harvest drop. (Rus) Sadovodstvo [Moscow] 10:30-31. Oct.1967. 80 Sa13  
Currants.
- 96832 VYAZOVIKOVA, V. Small fruit on currants in the Arkhangel Region. (Rus) Sadovodstvo [Moscow] 10:30. Oct.1967. 80 Sa13  
Caused by climatic conditions.
- 96833 WAKABAYASHI, S., and KOIKE, K. Studies on the root system of fruit trees growing on the volcanic ash soil in north Kanto districts. 1. The root system of grape vines. (Ja) Utsunomiya Univ. Coll. Agr. Bull. 6(3):1-11. Mar. 1967. 107.6 Ut7B  
English summary.
- 96834 WESTWOOD, M. N., and LOMBARD, P. B. Plant growth regulators; tree fruits. Oreg. Weed Contr. Handbook 1968:157-161. 275.28 Or3
- 96835 WILLIAMS, M. W. What is the future of Alar on fruit trees? Wash. State Hort. Ass. Proc. 1967:192. 81 W273  
Apples, pears, cherries.

- 96836 YAMASAKI, S., and KAWAMURA, A. Effects of the soil moisture on the growth of the young satsuma orange tree. (Ja) Shikoku Agr. Exp. Sta. Bull. 17:13-44. Ref. Sept.1967. 107.6 Z4  
English summary.
- 96837 YUN, K. H. Studies on the nutritional diagnosis of apple and pear trees, on the basis of leaf analysis. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(2):1-36. Ref. Sept.1967. 22.5 K843  
English summary.  
Includes varieties.
- Physiology and Biochemistry - Nuts
- 96838 DENAEYER-DE SMET, S. Contribution to the chemical study of wood sap of *Corylus avellana* L. (Fr) Belg. Soc. Roy. Bot. Bull. 100(2):353-372. Ref. 1967. 451 B41B
- 96839 FOOTT, J. H., and HEINICKE, D. R. White-wash found harmless in applications on walnut leaves. Calif. Agr. 21(3):2-3. Mar.1967. 100 C12Cag  
To study effect on photosynthesis.
- 96840 GRISHIN, YU. F. Dichogamy of Persian walnuts. (Rus) Sadovodstvo [Moscow] 10:37. Oct. 1967. 80 Sa13
- 96841 NORTHWOOD, P. J. The effect of specific gravity of seed and the growth and yield of cashew (*Anacardium occidentale* L.). East. Afr. Agr. Forest. J. 33(2):159-162. Oct.1967. 24 Ea74  
Includes germination.
- 96842 THOMPSON, M. M. Role of pollination in nut development. Nut Growers Soc. Oreg. Wash. Proc. Dec.8,1967:31-36. 94.69 W52  
Filberts.
- 96843 YASNYKOVA, O. O., and TOLMACHOV, I. M. Transformation of stored substances in Juglans during the fall and winter. (Uk) Visn. Sil's'ko-hospod. Nauk. 1:68-71. Jan.1967. 20 V82  
Russian summary.  
Starches and oil.
- Physiology and Biochemistry - Shade Trees and Ornamental Plants
- 96844 BIK, R. A. Importance of pH in planting media for seeds and cuttings. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:128-131. 86 Aa4  
Begonia and Cyclamen.
- 96845 BLANEY, L. P., and TICKNOR, R. L. Ornamentals. Oreg. Weed Contr. Handbook 1968:163-167. 275.28 Or3  
Effects of growth substances.
- 96846 BLANEY, L. T., and ROBERTS, A. N. Growth and development of the Easter lily bulb, *Lilium longiflorum* Thunb. "Croft." Amer. Soc. Hort. Sci. Proc. 89:643-650. Dec.1966. 81 So12
- 96847 BLANEY, L. T., and ROBERTS, A. N. Influence of harvest date and precooling on leaf and stem elongation in the "Croft" Easter lily (*Lilium longiflorum* Thunb.). Amer. Soc. Hort. Sci. Proc. 89:651-656. Dec.1966. 81 So12  
Vernalization.
- 96848 BORRISS, H., and HUBEL, M. On the vegetative propagation of orchids by the meristem culture. (Ge) Deut. Gartenbau 15(1):22-25. Ref. Jan.1968. 80 G1948
- 96849 COCHIS, T. Effect of type of container on the growth of *Hibiscus rosa-sinensis*, "Single Scarlet" grown in full sun and shade. Fla. State Hort. Soc. Proc. 80:412-415. May 1,1968. 81 F66
- 96850 COCKSHULL, K. E., and HUGHES, A. P. Distribution of dry matter to flowers in *Chrysanthemum morifolium*. Nature 215(5102):780-781. Aug.12,1967. 472 N21  
In relation to light and temperature.
- 96851 EMINO, E. R. Shoot apex development in the carnation (*Dianthus caryophyllus*). Amer. Soc. Hort. Sci. Proc. 89:615-619. Dec.1966. 81 So12
- 96852 FRANCIS, F. J., and HARBORNE, J. B. Anthocyanins and flavonol glycosides of magnolia [Magnoliaceae] flowers. Amer. Soc. Hort. Sci. Proc. 89:657-665. Ref. Dec.1966. 81 So12
- 96853 GOOD, G. L., and TUKEY, H. B. Leaching of metabolites from cuttings propagated under intermittent mist. Amer. Soc. Hort. Sci. Proc. 89:727-733. Ref. Dec.1966. 81 So12
- 96854 GOTO, K., and NISHIMURA, T. Regrowth behaviour of Bahiagrass and effect of heavy dressing of macromutrients. (Ja) Jap. Soc. Grassland Sci. J. 13(3):160-166. Oct.1967. 60.9 J27  
English summary.
- 96855 HAMMER, H. The trisaccharide fraction of some plants belonging to the Amaryllidaceae. Acta Chem. Scand. 22(1):197-199. Ref. 1968. 385 Ac82
- 96856 IVASHCENKO, A. A. The unusual tulips. (Rus) Priroda [Moscow] 1:91. Jan.1968. 410 P933  
Change of color of *Tulipa greigi*, induced by ecological conditions.
- 96857 JOHANSEN, M. B. Propagation of orchids by meristems. (Da) Horticultura 21(10):163-173. Ref. Oct.1967. 80 H7825  
English summary.
- 96858 JOHNS, S. R., LAMBERTON, J. A., and SIOUMIS, A. A. Alkaloids of *Choisya ternata* H.B. & K. (family Rutaceae) the structure of choisyne. Australian J. Chem. 20(9):1975-1981. Sept.1967. 475 Au73
- 96859 JOINER, J. N., and HARRISON, D. D. Control of growth and flowering of 'Paul Mikkelsen' poinsettias by photoperiod and growth retardants. Fla. State Hort. Soc. Proc. 80:416-420. Ref. May 1,1968. 81 F66
- 96860 JONGKIND, M., and SYTSEMA, W. Spraying of *Hydrangea* with gibberellic acid. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:82. 86 Aa4
- 96861 LANPHEAR, F. O., and MEAHL, R. P. Influence of the stock plant environment on the rooting of *Juniperus horizontalis* "Plumosa." Amer. Soc. Hort. Sci. Proc. 89:666-671. Dec. 1966. 81 So12  
Temperature and photoperiodism effects on cuttings.
- 96862 LEFFRING, L. Vegetative propagation of *Cymbidium* by meristem culture. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:63-65. 86 Aa4
- 96863 LITRELL, R. H., and WATERS, W. E. Influence of nitrogen and lime fertilization on gladiolus corm and flower production and internal microflora of corms. Fla. State Hort. Soc. Proc. 80:405-408. Ref. May 1,1968. 81 F66
- 96864 LONG, J. A. Growth inhibitors. Tex. Turf-grass Conf. Proc. 22:59-66. Dec.1967. 60.19 T31
- 96865 MCFADDEN, S. E., and POOLE, R. T. Copper and other nutrient requirements of 'Baccara' rose in lightweight potting medium. Fla. State Hort. Soc. Proc. 80:480-486. Ref. May 1,1968. 81 F66  
Rosa fortuniana.
- 96866 MCLAREN, I., and THOMAS, D. R. CO<sub>2</sub> fixation, organic acids and some enzymes in green and colourless tissue cultures of *Kalanchoe crenata*. New Phytol. 66(4):683-695. Ref. Oct. 1967. 450 N42
- 96867 MOORE, P. H., REID, H. B., and HAMMER, K. C. Flowering responses of *Xanthium pennsylvanicum* to long dark periods. Plant Physiol. 42(4):503-509. Ref. Apr.1967. 450 P692
- 96868 NAKAYAMA, R. Experiment on sprouting of cormels of *Gladiolus*. (Ja) Hirosaki Univ. Fac. Agr. Bull. 13:22-30. Mar.1967. 22.5 H613  
English summary.



- 96869 NELSON, V., and BOODLEY, J. W. Classification of carnation cultivars according to foliar nutrient content. Amer. Soc. Hort. Sci. Proc. 89:620-625. Dec.1966. 81 So12  
Foliar diagnosis of nutrient content for classification.
- 96870 PAUL, J. L., and SMITH, L. V. Rooting of chrysanthemum cuttings in peat as influenced by calcium. Amer. Soc. Hort. Sci. Proc. 89: 626-630. Dec.1966. 81 So12  
Includes effects of hydrogen.
- 96871 POSZWINSKA, J. Development of pollen tubes after artificial pollination of the pistils in *Petunia hybrida*. (Fr) Acad. Polon. Sci. Bull. Ser. Sci. Biol. 15(12):771-777. 1967. 512 W262
- 96872 PREVOT, P. Effects of benzyladenine on *Begonia rex* Putz. (Fr) Paris. Acad. Agr. France. Compt. Rend. Hebd. Seances 53(17): 1292-1297. Dec.6/13,1967. 14 P215Bc
- 96873 SANTAMOUR, F. S., and LUCENTE, R. A. Anthocyanins in *Cornus*. Torrey Bot. Club. Bull. 94(2):108-109. Mar./Apr.1967. 451 T63B  
*Cornus florida*, *C. mas* and *C. officinalis*.
- 96874 SAUTER, J. J., and MARQUARDT, H. Nucleo-histone and nucleic acid synthesis during pollen formation. (Ge) Naturwissenschaften 54(20): 546. Oct.15,1967. 474 N213  
In *Paeonia tenuifolia*.
- 96875 SCHELLEKENS, A. F. C. M. Root system research in carnations. (Du) Neth. Dir. Tuinbouw Mededel. 30(12):497-503. Dec.1967. 86 N384  
English summary, p.506.  
Relationship of root system, soil structure and water management.
- 96876 SEMENIUK, P., and STEWART, R. N. Effect of temperature and duration of the after-ripening period on germination of *Rosa nutkana* seeds. Amer. Soc. Hort. Sci. Proc. 89:689-693. Dec.1966. 81 So12
- 96877 SHEEHAN, T. J., JOINER, J. N., and COWART, J. K. Absorption of P<sup>32</sup> by *Cattleya trimes* from foliar and root application. Fla. State Hort. Soc. Proc. 80:400-404. Ref. May 1,1968. 81 F66
- 96878 SHIBATA, M., and others. Complex (aroyleated) anthocyanins found in the flowers of hyacinth. Kumamoto J. Sci. Ser. B. Sect. 2 Biol. 8(2):21-33. Ref. Aug.1967. 442.8 K96  
A. Morita, S. Hirai, and N. Ishikura, joint authors.
- 96879 SHIBATA, M., ISHIKURA, N., and HASEGAWA, K. Paper chromatographic survey of anthocyanin in tulip flowers. II. Kumamoto J. Sci. Ser. B. Sect. 2 Biol. 8(2):35-58. Ref. Aug.1967. 442.8 K96
- 96880 STOLTZ, L. P., and HESS, C. E. The effect of girdling upon root initiation: auxin and rooting cofactors. Amer. Soc. Hort. Sci. Proc. 89:744-751. Ref. Dec.1966. 81 So12  
*Hibiscus rosa-sinensis*.
- 96881 STOLTZ, L. P., and HESS, C. E. The effect of girdling upon root initiation: carbohydrates and amino acids. Amer. Soc. Hort. Sci. Proc. 89:734-743. Ref. Dec.1966. 81 So12  
*Hibiscus*.
- 96882 SYTSEMA, W. CO<sub>2</sub> fertilizing of the rose *Geheimrat Duisberg*. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:103-105. 86 Aa4
- 96883 SYTSEMA, W. Control of "long necks" of *Chrysanthemum* for cutting with B-9. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:57. 86 Aa4
- 96884 SYTSEMA, W. Effects of growth inhibitors on *Azalea*. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:41-43. 86 Aa4  
CCC and B-9.
- 96885 SYTSEMA, W. Effects of spraying lilac with B-9. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:109-110. 86 Aa4
- 96886 SYTSEMA, W. Growth inhibition of poinsettia by CCC and B-9. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:94-95. 86 Aa4
- 96887 SYTSEMA, W. Growth inhibition of potted *Chrysanthemum* by B-9. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966: 54-56. 86 Aa4
- 96888 SYTSEMA, W. Influencing flowering of *Vriesea splendens*. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:111-112. 86 Aa4  
Effects of BOH.
- 96889 SYTSEMA, W. Inhibition of growth of *Hibiscus* with CCC and B-9. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:79-81. 86 Aa4
- 96890 SYTSEMA, W. Temperature treatment of Nerine bulbs. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:89-91. 86 Aa4
- 96891 SZENDEL, J. Is chlorine in potassium salt detrimental to the growth and flowering of roses? (Pol) Pol. Tow. Milosnikow Roz. Roczn. 1:49-53. 1965, pub.1966. SB403.P6  
Test with several varieties of potted roses.
- 96892 TAKEMOTO, T., and others. Isolation of ponasterone A from *Taxus cuspidata* var. nana. (Ja) Pharm. Soc. Jap. J. 88(3):359. Ref. Mar. 1968. 396.9 P49  
Y. Hikino, H. Jin, and H. Hikino, joint authors.  
An insect-molting substance.
- 96893 VEEN, I. W. H. VAN. Interrupted bud formation in *Chrysanthemums*. (Du) Naaldwijk. Proefsta. Groenten- Fruitteelt Glas. Jaarverslag 1966:109-112. 86 N112J  
English summary, on p.6-7 of summaries.  
Effect of short day.
- 96894 VICKERS, G. T. *Zeuxine strateumatica*-annual or perennial. Amer. Orchid Soc. Bull. 37(4): 311-312. Spr.1968. 80 Am329
- 96895 WATERS, W. E. Influence of nutrition on yield, quality, and chemical composition of "Tropicana" roses on *Rosa fortuniana* rootstock. Fla. State Hort. Soc. Proc. 80:396-400. Ref. May 1,1968. 81 F66
- 96896 WATERS, W. E., and WOLTZ, S. S. Influence of pre-harvest nitrogen nutrition and post-harvest storage conditions on *Chrysanthemum* cut flowers. Sunshine State Agr. Res. Rep. [Fla. Sta.] 13(2):12-13. Mar.1968. 100 F66Su  
Effects of light and temperature in storage on keeping quality.
- 96897 YASUDA, H. Studies on the development of color tone in rose petals. IV. Comparison of spectro-reflectance of red rose petal and spectro-transmittance of anthocyanin solutions. (Ja) Bot. Mag. Tokyo 80(944):86-91. Ref. Feb.1967. 450 B651  
English summary.
- 96898 YASUDA, I., and YASUI, K. Studies on the mechanism of blooming of *Moringa* glory. I. Relation between blooming and osmotic pressure. (Ja) Okayama. Univ. Fac. Agr. Sci. Rep. 30:27-35. Oct.1967. 107.6 Ok12  
English summary.
- 96899 YOSHINO, S. Respiration of tulip bulbs during storage. (Ja) Shimane Agr. Coll. Bull. 15(A-1): 24-27. Jan.1967. 5339.J355  
English summary.
- 96900 ZEHNDER, L. R., and LANPHEAR, F. O. The influence of temperature and light on the cold hardness of *Taxus cuspidata*. Amer. Soc. Hort. Sci. Proc. 89:706-713. Dec.1966. 81 So12

## Physiology and Biochemistry - Vegetable and Truck Crops

- 96901 AMBERGER, A. Current problems in fertilizers for starch potatoes. (Ge) Starke Kartoffel 12(1):1-2. In Kartoffelbau 18(2). Feb.1967. 75.8 K145  
Physiology.
- 96902 AUNG, L. H., and KELLY, W. C. Influence of defoliation on vegetative, floral and fruit development in tomatoes (*Lycopersicon esculentum* Mill.). Amer. Soc. Hort. Sci. Proc. 89: 563-570. Ref. Dec.1966. 81 So12  
Pruning.

- 96903 BALDOVINOS, F., and THOMAS, G. W. The effect of soil clay content on phosphorus uptake. *Soil Sci. Soc. Amer. Proc.* 31(5):680-686. Ref. Sept./Oct.1967. 56.9 So3 Beans.
- 96904 BARKER, J., KHAN, M. A. A., and SOLOMOS, T. Studies in the respiratory and carbohydrate metabolism of plant tissues. XXI. The mechanism of the Pasteur effect in peas. *New Phytol.* 66(4):577-596. Ref. Oct.1967. 450 N42
- 96905 BARRIOS GONZALEZ, A. Yield experiments with beans (*Phaseolus vulgaris* L.) under rainfall and irrigation conditions. (Sp) *Jornadas Agron. Mem.*, 6th Conf., v.1, paper 11, 8 p. 1966. S211.J6 1966
- 96906 BEBOK, J. Renewal of potato tuber. (Hu) *Magyar Mezőgazdaság* 23(12):23. Mar.20,1968. 19 M27 Treatment.
- 96907 BERGER, R. D., and GUZMAN, V. L. Potato seed-piece treatments, 1967. *Fla. Everglades Exp. Sta. Mimeo Rep.* EES68-8:5-6. May 9, 1968. 100 F663 Growth substances.
- 96908 BERRIE, A. M. M., and others. Induction of light sensitive dormancy in seed of *Lactuca sativa* L. (Lettuce) by patulin. *Plant Physiol.* 42(6):889-890. June 1967. 450 P692 M. R. Hendrie, W. Parker, and B. A. Knights, joint authors.
- 96909 BIERHUIZEN, J. F., and PLOEGMAN, C. Salt tolerance of tomato. (Du) *Neth. Dir. Tuinbouw. Mededel.* 30(7/8):302-310. Ref. July/Aug.1967. 86 N384 English summary, p.323.
- 96910 BOURKE, J. B., and MASSEY, L. M. The influence of gamma radiation on carbohydrate and citric acid cycle metabolism in carrot tissue. *Radiat. Res.* 31(4):783-795. Ref. Aug. 1967. 334.8 R11
- 96911 BREMNER, P. M., EL SAEED, E. A. K., and SCOTT, R. K. Some aspects of competition for light in potatoes and sugar beet. *J. Agr. Sci. [London]* 69(2):283-290. Ref. Oct.1967. 10 J822
- 96912 BROOK, J., WEST, S. H., and ANTHONY, D. S. Effects of phosfon-S on nucleic acid metabolism in *Pisum sativum* Alaska. *Plant Physiol.* 42(6):785-790. Ref. June 1967. 450 P692
- 96913 BURDINE, H. W., and GUZMAN, V. L. Some soil pH effects on soil tests and growth of some vegetable crops on Everglades organic soil. *Fla. Everglades Exp. Sta. Mimeo Rep.* EES68-9, 8 p. May 1968. 100 F663 Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library. Chiefly celery.
- 96914 BURNHAM, M., PHATAK, S. C., and PETERSON, C. E. Graft-aided inheritance study of a chlorophyll deficient cucumber. *Amer. Soc. Hort. Sci. Proc.* 89:386-389. Dec.1966. 81 So12
- 96915 BUTENKO, V. A. The dynamics of nitrogen in soil and its uptake in potatoes in relation to potassium fertilizers. (Rus) *Zhytomyrs'kyi Sil' s'kohospod. Inst. Mater. Konf.* 1967:306-308. S651.Z5
- 96916 BYVSHIKH, N. A. Changes in the nitrogen and protein metabolism in the ripening seeds of the pumpkin. (Rus) *Nauch. Dokl. Vyssh. Shk. Biol. Nauk.* 1(37):101-105. 1967. 442.8 N22
- 96917 CAESAR, K. The behavior of German potato varieties under the natural short day conditions in Ceylon. (Ge) *Kartoffelbau* 18(2):48-50. Ref. Feb.1967. 75.8 K145
- 96918 CHACON, F., and MONTALDO, A. Vegetative cycle and yield of sweetpotatoes (*Ipomoea batata*) in Aragus. (Sp) *Jornadas Agron. Mem.*, 6th Conf., v.1, paper 3, 9 p. 1966. S211.J6 1966.
- 96919 CLOR, M. A. Translocation of tritium-labeled gibberellic acid in pea stem segments and potato tuber cylinders. *Nature* 214 (5094):1263-1264. June 17,1967. 472 N21
- 96920 CONSTANTINIDES, S. M., and BEDFORD, C. L. Multiple forms of phenoloxidase. *J. Food Sci.* 32(4):446-450. Ref. July/Aug.1967. 389.8 F7322 Mushrooms, potatoes, apples.
- 96921 COYNE, D. P. The genetics of photoperiodism and the effect of temperature on the photoperiodic response for time of flowering in *Phaseolus vulgaris* L. varieties. *Amer. Soc. Hort. Sci. Proc.* 89:350-360. Ref. Dec.1966. 81 So12
- 96922 DAVIS, R. M., and others. Plant growth as a function of soil texture in the Hanford series. *Hilgardia* 39(5):107-120. Ref. May 1968. 100 C12H P. E. Martin, A. W. Fry, L. M. Carter, M. B. Zahara, and R. M. Hagan, joint authors. Chiefly cantaloupe on California soil.
- 96923 DE, D. N., and GHOSH, S. N. Presence of collagen in plant nuclei. *Exp. Cell Res.* 47(3):637-640. Sept.1967. 442.8 Ex7 Onions.
- 96924 DHESI, N. S., GUPTA, M. L., and SINGH, A. Effect of transplanting treatments with growth regulators on growth, flowering and fruiting of egg plant (*Solanum melongena* L.). *Punjab Agr. Univ. J. Res.* 4(2):206-210. June 1967. S19.P8
- 96925 DOBEREINER, J., and ALVAHYDO, R. Elimination of manganese toxicity by organic matter, in a gray hydromorphic soil. (Por) *Pesquisa Agropecuar. Brasil.* 1:243-248. 1966. S15.P42 English summary. Tests with beans.
- 96926 DURANTON, H., WIRTH, J. P., and LEGER, B. The influence of different factors on the metabolism of free amino acids in the tissue of Jerusalem artichoke cultivated in vitro. (Fr) *Physiol. Veg.* 5(2):123-137. Ref. Apr./June 1967. 450 P623 Influence of the dimensions of explant, presence of gelose and kinetin. English summary.
- 96927 ENGELSMA, G. Effect of cycloheximide on the inactivation of phenylalanine deaminase in gherkin seedlings. *Naturwissenschaften* 54(12):319-320. June 15,1967. 474 N213
- 96928 ERIKSSON, C. E. Pea lipoxidase, distribution of enzyme and substrate in green peas. *J. Food Sci.* 32(4):438-441. Ref. July/Aug.1967. 389.8 F7322
- 96929 ESHEL, Y. Effect of sowing date on growth and seed yield components of chickpea (*Cicer arietinum* L.). *Israel J. Agr. Res.* 17(4):193-197. Ref. Oct.1967. 107 J552
- 96930 ETTER, H. M. Stimulation by 2,4-D plus Fe EDTA of <sup>32</sup>P uptake by bean seedlings (*Phaseolus vulgaris*). *Can. J. Bot.* 45(4):535-537. Ref. Apr.1967. 470 C16C
- 96931 EVERSON, R. G., COCKBURN, W., and GIBBS, M. Sucrose as a product of photosynthesis in isolated spinach chloroplasts. *Plant Physiol.* 42(6):840-844. June 1967. 450 P692
- 96932 FELDHEIM, W. Changes in the sucrose, glucose, and fructose content of potatoes under determined research conditions. (Ge) *Int. Congr. Nutr. Proc.*, 7th Congr., v.5:593-594. 1966, pub. 1967. TX345.I53 1966 Cultural conditions.
- 96933 FINNEY, E. E., and FINDLEN, H. Influence of preharvest treatments upon turgor of Katahdin potatoes. *Amer. Potato J.* 44(11):383-386. Nov.1967. 75.8 P842
- 96934 FLOCKER, W. J., VOMOCIL, J. A., and KRANTZ, B. A. Amelioration of soil compaction by tillage. *Amer. Soc. Hort. Sci. Proc.* 89:601-608. Ref. Dec.1966. 81 So12 Sweetcorn used as tests plant.
- 96935 FRANCIS, F. J. Anthocyanins of asparagus. *J. Food Sci.* 32(4):430-431. Ref. July/Aug. 1967. 389.8 F7322
- 96936 GASSMAN, M., and BOGORAD, L. Control of chlorophyll production in rapidly greening bean leaves. *Plant Physiol.* 42(6):774-780. Ref. June 1967. 450 P692 Chiefly effects of light, antibiotics, and alpha-aminolevulinic acid.



- 96937 GASSMAN, M., and BOGORAD, L. Studies on the regeneration of protochlorophyllide after brief illumination of etiolated bean leaves. *Plant Physiol.* 42(6):781-784. June 1967. 450 P692  
Includes treatment with antibiotics and alpha-aminolevulinic acid.
- 96938 GAUNT, J. K., and STOWE, B. B. Analysis and distribution of tocopherols and quinones in the pea plant. *Plant Physiol.* 42(6):851-858. Ref. June 1967. 450 P692
- 96939 GAUNT, J. K., and STOWE, B. B. Uptake and metabolism of vitamins E and K by pea stem sections. *Plant Physiol.* 42(6):859-862. Ref. June 1967. 450 P692
- 96940 GORIS, A. Comparative nutritive value of maltose, raffinose, and glucose for *Scorzonera* tissue cultivated in vitro. (Fr) *Rev. Gen. Bot.* 74(879):410-423. Aug. 1967. 450 R326
- 96941 GUILLOT, A. Observations on the role of trophic factors in rhizogenesis correlation of young etiolated tomato plants (*Lycopersicon esculentum* Miller). (Fr) *Acad. Sci. C. R., Ser. D*, 264(24):2769-2772. June 12, 1967. 505 P21
- 96942 GUZMAN, V. L. Yield and quality from celery transplants hardened by topping and growth retardants. *Fla. State Hort. Soc. Proc.* 80:117-123. May 1, 1968. 81 F66
- 96943 HAWF, L. R., and SCHMID, W. E. Uptake and translocation of zinc by intact plants. *Plant Soil* 27(2):249-260. Ref. Oct. 1967. 450 P696  
Beans; includes effects of zinc.
- 96944 HAYASE, H., and TANAKA, M. Experimental modification of sex expression in the cucumber plant. IV. Induction of staminate flowers in the gynococious MSU-713-5 cucumber when applied with gibberellin and CCC (2-chlorethyl trimethyl ammonium chloride) as their mixture and alternatively applied at the definite intervals. (Ja) *Hokkaido Nat. Agr. Exp. Sta. Res. Bull.* 91:26-30. Ref. Mar. 1967. 107.6 H68  
English summary.
- 96945 HEINZE, P. H. Biochemical and physiological changes within potato tubers during storage. *Plant Sci. Symp. Proc.* 1966:197-208. Ref., p.205-208. SB211.P8P59
- 96946 HENSEL, D. R. Influence of surface mulches on growth of potatoes. *Fla. State Hort. Soc. Proc.* 80:186-193. Ref. May 1, 1968. 81 F66  
Polyethylene, petroleum.
- 96947 HERBICH, M., and TROJAN, P. Stability in the caloric equivalent of the potato. *Acad. Polon. Sci. Bull. Ser. Sci. Biol.* 15(12):739-741. 1967. 512 W262
- 96948 HEWITT, E. J., NOTTON, B. A., and AFRIDI, M. M. R. K. Comparative effects of some anti-metabolites on ribonucleic acid synthesis and induction of nitrate reductase in cauliflower leaf tissues. *Plant Cell Physiol.* 8(3):385-398. Ref. Oct. 1967. 450 P699
- 96949 HOWLETT, F. S., and KRETCHMAN, D. W. Fruit cracking in the greenhouse tomato as related to leaf nitrogen and potassium. *Ohio. Agr. Res. Develop. Center. Res. Sum.* 26:25-28. Apr. 1968. 100 Oh3Rs
- 96950 HOWLETT, F. S., and KRETCHMAN, D. W. Puffiness of greenhouse tomato fruits as related to leaf nitrogen and potassium. *Ohio. Agr. Res. Develop. Center. Res. Sum.* 26:21-24. Apr. 1968. 100 Oh3Rs
- 96951 HRUSKA, L. On the technique of starting the sprouting of potatoes for planting in the German Democratic Republic. (Cz) *Prague. Vyzk. Ustav Zemed. Vestn.* 13(2):66-69. 1966. 19.5 C333
- 96952 IVANOVA, T. I., and SEMIKHATOVA, O. A. The effect of high temperature on isolated mitochondria at different states. (Rus) *Bot. Zhur.* [Moscow] 52(11):1642-1645. Ref. Nov. 1967. 451 R923  
Peas.
- 96953 JAWORSKI, C. A. Yield and growth uniformity of tomato transplants in relation to nutrition levels. *Amer. Soc. Hort. Sci. Proc.* 89:577-583. Ref. Dec. 1966. 81 So12
- 96954 KADAR, P. K. Studies aimed at the intensive development at early stage of vegetables and agricultural plants. (Hu) *Kertesz. Szoleszeti Foiskola. Kiadv.* 3(1):279-290. 1966. SB13.K4  
Tomato as test plant.
- 96955 KALDY, M. S. Fiber content of green snap beans as influenced by variety and environment. *Amer. Soc. Hort. Sci. Proc.* 89:361-367. Dec. 1966. 81 So12
- 96956 KAN, V. M. Effect of fertilizers upon the yield of carrot root tubers, and carotin and ascorbic acid content in these latter in the conditions of Tselinograd region. (Rus) *Nauch. Dokl. Vyssh. Shk. Biol. Nauk.* 1(37):96-100. 1967. 442.8 N22
- 96957 KANEKO, T. Comparative studies on various calluses and crown gall of Jerusalem artichoke. II. Some biochemical properties. *Plant Cell Physiol.* 8(3):375-384. Oct. 1967. 450 P699
- 96958 KATSUMI, M., TAMURA, S., and SAKURAI, A. Physiological responses of light-grown cucumber hypocotyls to helminthosporol and its derivatives. *Plant Cell Physiol.* 8(3):399-407. Ref. Oct. 1967. 450 P699
- 96959 KHALIL, M. A., AMER, F., and ELGABALY, M. M. A salinity-fertility interaction study on corn and cotton. *Soil Sci. Soc. Amer. Proc.* 31(5):683-686. Ref. Sept./Oct. 1967. 56.9 So3  
Effects on N and P on growth and yield under different soil salinity levels.
- 96960 KIMBALL, M. H., SIMS, W. L., and WELCH, J. E. Plantclimate analysis for lettuce; introducing a new method for determining plant temperature requirements. *Calif. Agr.* 21(4):2-4. Apr. 1967. 100 C12Cag
- 96961 KNYPL, J. S., and RENNERT, A. Growth inhibitors and the indole-3-acetic acid oxidase contents of cucumber hypocotyl sections. *Naturwissenschaften* 54(20):544. Oct. 15, 1967. 474 N213
- 96962 KRASYL'NYKOVA, L. O. Ontogenetic changes in phosphorous compound metabolism of plant cytoplasmic structures. (Ukr) *Ukr. Biokhim. Zhur.* 40(1):83-88. Ref. 1968. 385 Uk72  
English summary.  
In potato, sugar beet and sunflower leaves.
- 96963 KRECHMAR, G. F. Decreasing bolting in Welsh onion [*Allium fistulosum*] by maleic hydrazide, under conditions of the Far North. (Rus) *Khim. Sel'skom Khoz.* 5(6):45-48. June 1967. 385 K524  
Treatment of seeds.
- 96964 KRETCHMAN, D. W. The influence of Alar on fruit set of greenhouse tomatoes. *Ohio. Agr. Res. Develop. Center. Res. Sum.* 26:11-13. Apr. 1968. 100 Oh3Rs
- 96965 KRETCHMAN, D. W., and HOWLETT, F. S. The influence of CO<sub>2</sub> enrichment on yield of greenhouse tomatoes. *Ohio. Agr. Res. Develop. Center. Res. Sum.* 26:9-10. Apr. 1968. 100 Oh3Rs
- 96966 KRETCHMAN, D. W. A preliminary report of several aspects of fruit setting of greenhouse tomatoes. *Ohio. Agr. Res. Develop. Center. Res. Sum.* 26:5-8. Apr. 1968. 100 Oh3Rs
- 96967 KRYLOVA, M. I. Carotenoids in the reproductive organs of fertile and sterile onion plants *Allium cepa* L. (Liliaceae). (Rus) *Bot. Zhur.* [Moscow] 52(9):1340-1341. Ref. Sept. 1967. 451 R923
- 96968 KULIEV, K. A. Vitamin C and sugar content in melon cultures of Turkmenian SSR. (Rus) *Akad. Nauk Turkm. SSR Izv. Ser. Biol. Nauk* 4:49-53. Ref. 1967. 442.9 Ak124
- 96969 KUMADA, H. M. Hematin compounds of bean seed embryo in the germination stage. *Bot. Mag. Tokyo* 80(944):75-85. Ref. Feb. 1967. 450 B651
- 96970 KURAISHI, S., UEMATSU, S., and YAMAKI, T. Auxin-induced incorporation of proline in mung bean hypocotyls. *Plant Cell Physiol.* 8(3):527-533. Ref. Oct. 1967. 450 P699

- 96971 KURAISHI, S., KASAMO, K., and YAMAKI, T. Growth of mung bean hypocotyl after auxin treatment. Tokyo Univ. Coll. Gen. Educ. Sci. Pap. 17(2):213-218. Ref. Dec.1967 330.9 T572
- 96972 LEONOV, G. B. Changes in the content and qualitative composition of protein substances in the seeds of different varieties of chick pea in relation to the stage of ripening. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 2(38):94-98. 1967. 442.8 N22
- 96973 LEPAGE, M. Identification and composition of turnip root lipids. Lipids 2(3):244-250. Ref. May 1967. QP751.L5
- 96974 LITTMANN, M. D. Effect of stage of development of bean pods at harvest on post-harvest changes. Queensland J. Agr. Anim. Sci. 24 (3/4):261-270. Sept./Dec.1967. 23 Q37 Includes characteristics on and off the plant.
- 96975 LOTTI, G., and BAZAN, E. The octadecenoic acids in seed oils of Umbelliferae grown in different climates. (It) Ric. Sci. 37(11):1005-1012. Ref. Nov.1967. Q4.R5 Tests with celery, parsley, and carrots.
- 96976 MACLEAN, A. A., and others. Fertilizer treatment and quality of potatoes for processing. Plant Sci. Symp. Proc. 1966:157-171. Ref., p.168-171. SB211.P8P59 D. C. Frost, H. T. Davies, and D. A. Young, joint authors.
- 96977 MASUDA, Y., and TANIMOTO, E. Effect of auxin and antiauxin on the growth and RNA synthesis of etiolated pea internode. Plant Cell Physiol. 8(3):459-465. Ref. Oct.1967. 450 P699
- 96978 MATHIS, P., and MICHEL GALMICHE, J. Effect of paramagnetic gas on a transitory state induced by a laser beam in a suspension of chloroplasts. (Fr) Acad. Sci. Compt. Rend. Ser. D, 264(15):1903-1906. Apr.10,1967. 505 P21 Spinach.
- 96979 MATTHYSSE, A. G., and TORREY, J. G. DNA synthesis in relation to polyploid mitoses in excised pea root segments cultured in vitro. Exp. Cell Res. 48(2):484-498. Ref. Nov.1967. 442.8 Ex7
- 96980 MEREDITH, F. I., and PURCELL, A. E. Changes in the concentration of carotenes of ripening Homestead tomatoes. Amer. Soc. Hort. Sci. Proc. 89:544-548. Ref. Dec.1966. 81 So12
- 96981 MIHOV, A., and KOPCHEV, G. On the growth and reproductive behaviour of certain garden bean varieties as affected by the planting date. (Bu) Gradinar. Lozar. Nauk. 4(7):37-47. 1967. 87 G75 English summary.
- 96982 MONDY, N. I., MOBLEY, E. O., and GEDDE-DAHL, S. B. Influence of potassium fertilization on enzymatic activity, phenolic content and discoloration of potatoes. J. Food Sci. 32(4):378-381. Ref. July/Aug.1967. 389.8 F7322
- 96983 MOROHASHI, Y., KOMAMINE, A., and SHIMOKORIYAMA, M. Respiratory metabolism in the phloem, xylem, and cambium of carrot root. Plant Cell Physiol. 8(3):423-432. Oct.1967. 450 P699
- 96984 NIEUWHOF, M. Development of sprouts in Brassica oleracea L. var. gemmifera DC. induced by kinetin. Naturwissenschaften 54(8):202-203. Apr.15,1967. 474 N213
- 96985 NIKULINA, G. N. Phosphate absorption by leaves at short exposures. (Rus) Bot. Zhur. [Moscow] 52(9):1334-1338. Ref. Sept.1967. 451 R923 Peas; radioactive phosphorus used.
- 96986 NISHI, K. Studies on the relations between the seedling stage of *Raphanus sativus* L. and vernalization. I. Growth in the seedling stage. (Ja) Kyushu Univ. Fac. Agr. Sci. Bull. 23(1):1-8. Ref. Mar.1967. 107.6 K995B English summary.
- 96987 NISHI, K. Studies on the relations between the seedling stage of *Raphanus sativus* L. and vernalization. II. Sensitivity to vernalization in the seedling stage of *Raphanus sativus* L. (Ja) Kyushu Univ. Fac. Agr. Sci. Bull. 23(1):9-14. Ref. Mar.1967. 107.6 K995B English summary.
- 96988 OUELLETTE, G., and GENEUREUX, H. Is it necessary to lime the potato soil? (Fr) Agriculture [Montreal] 24(2):13-15. June 1967. 7 Ag82 Chiefly physiological aspects.
- 96989 PANICHKIN, L. A. Vibration of bioelectrical potentials in bean leaf. (Rus) Moscow. Timiryazevskaya Sel'skokhoz. Akad. Dokl. 119:191-195. Ref. 1966. 20 M857
- 96990 PENNER, D., and ASHTON, F. M. Hormonal control of proteinase activity in squash cotyledons. Plant Physiol. 42(6):791-796. June 1967. 450 P692
- 96991 PILET, P. E., GUERN, J., and HUGON, E. On the transport of 6-benzylaminopurine- $\alpha$ - $^{14}$ C. (Fr) Physiol. Veg. 5(3):261-270. Ref. July/Sept.1967. 450 P5623 English summary. In lentils and chickpeas.
- 96992 PILLAI, K. M. Studies on the combined effect of 2,3,5-triiodobenzoic acid and certain micronutrients on the flowering and fruiting habits of chillies (*Capsicum annum* L.). Indian J. Agr. Sci. 37(5):413-418. Ref. Oct.1967. 22 Ag831
- 96993 PRESSEY, R. Purification and properties of phosphoglucomutase from potato tubers. J. Food Sci. 32(4):381-385. Ref. July/Aug.1967. 389.8 F7322
- 96994 QUAGLIOTTI, L. Observations on the flowering rhythm of some eggplant varieties (*Solanum melongena* L.). (It) Sementi Elette 13(1):8-20. Ref. Jan./Feb.1967. 61.8 Se53 English summary.
- 96995 RADCLIFFE, E. B., and LAUER, F. I. Resistance to *Myzus persicae*, *Macrosiphum euphorbiae*, and *Empoasca fabae* in the wild tuber-bearing *Solanum* L. species. Minn. Agr. Exp. Sta. Tech. Bull. 259,27 p. Ref. 1968. 100 M66
- 96996 RAO, K. B., and DAS, N. B. Effect of sulphur on methionine and cystine content of pea. Indian J. Agr. Sci. 37(5):390-394. Ref. Oct.1967. 22 Ag831
- 96997 REMY, M. Relationship between roots and shoots of the pea; stimulation, inhibition and radical absorption. (Fr) Acad. Sci. Compt. Rend. Ser. D, 265(16):1172-1130. Oct.16,1967. 505 P21
- 96998 RETIG, N., and KEDAR, N. The effect of stage of maturity on heat absorption and sunscald of detached tomato fruits. Israel J. Agr. Res. 17(2):77-83. Ref. Apr.1967. 107 J552
- 96999 RUBIN, B. A., GAVRILENKO, V. F., and FATALIEVA, S. M. Some indices of pea roots and maize roots energy metabolism in relation to Fe and Fe-porphyrine metabolism. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 5(41):108-112. 1967. 442.8 N22
- 97000 RUF, R. H., ECKERT, R. E., and GIFFORD, R. O. Components of osmotic adjustment of plants to rapid changes in root medium osmotic pressure. Soil Sci. 104(3):159-162. Sept.1967. 56.8 So3 Polyethylene glycol induced water stress in potatoes and crested wheatgrass.
- 97001 RUSCHEL, A. P., and COSTA, W. F. DA. Effect of some insecticides and fungicides on nitrogen fixation and nodulation of a seed treatment of beans (*Phaseolus vulgaris*). (Por) Pesquisa Agropecuar. Brasil. 1:147-149. 1966. S15.P42 English summary.
- 97002 SATO, Y., and UDAGAWA, K. Soil changes and control in vegetable production regions. (Ja) Agr. Hort. 42(6):947-950. June 1967. 22.5 N682 Spinach and soil relationship.



- 97003 EL SAYED, M. N. K., and ERICKSON, H. T. Pectic substances in tomatoes as related to whole-fruit firmness, and inheritance. *Amer. Soc. Hort. Sci. Proc.* 89:528-531. Dec.1966. 81 So12
- 97004 EL-SHAFIE, M. W., and DAVIS, G. N. Disc electrophoresis technique to determine protein components in tissues of mature bulbs of the common onion (*Allium cepa*). *Amer. Soc. Hort. Sci. Proc.* 89:431-437. Dec.1966. 81 So12
- 97005 SILVA, J. R. DA., and others. Effect of increasing doses of nitrogen, phosphorus and potassium on the yield of *Arracacia xanthorrhiza*. (Por) *Bragantia* 25(2):365-369. 1966. 102.5 B73Tb  
H. G. Blanco, E. S. Normanha, and E. S. Freire, joint authors.  
English summary.
- 97006 SKORPIL, M., and POLACH, J. The effect of increased level of salt in soils on the growth of vegetables. (Cz) *Agrochemia* [Bratislava] 7 (10):302-308. Oct.1967. 385 Ag88  
English summary.
- 97007 SMIRNOV, P. S. The role of leaves of the root-stock and the scion in the flowering of grafted plants. (Rus) *Bot. Zhur.* [Moscow] 52(9):1338-1340. Ref. Sept.1967. 451 R923  
Cabbage and Brassica.
- 97008 SOMOS, A., and TARJANYI, MRS. S. ZS. Characteristic of nutrient uptake of redpepper. (Hu) *Kertesz. Szoleszeti Fiskola, Kiadv.* 3 (1):111-127. 1966. SB13.K4
- 97009 SONGIN, H. The green matter increase of pulses and their resistance to the late autumn frosts in Szczecin Province. (Pol) *Stettin. Wyzsza Szkola Roln. Zeszyty Nauk.* 25:135-137. 1966, pub.1967. 20.5 St4  
English summary.
- 97010 SONGIN, W. Researches on the reproductive quality of the greened seed tubers of potato. (Pol) *Stettin. Wyzsza Szkola Roln. Zeszyty Nauk.* 25:94-97. 1966, pub.1967. 20.5 St4  
English summary.
- 97011 SPALDON, E., and IVANIC, J. The effect of mineral fertilizers on the quality and yield of spice pepper. (Hu) *Agrartud. Kozlem.* 27(1/2):13-24. Ref. 1968. 19 B855  
German summary.  
Bush redpeppers.
- 97012 STALFELT, M. G. The function of stomata in partial retarded transpiration. (Ge) *Protoplasma* 64(4):452-459. Ref. 1967. 442.8 P94  
English summary.  
Experiments with *Vicia faba*.
- 97013 STOLLER, B. B. Utilization of gamma rays in the culture of mushrooms. *Champignon* 8(78):12-13, 16-19. Feb.1968. 80 C352
- 97014 SZONYI, MRS. A. Some physiological and biochemical indices of sex character of cucumber. (Hu) *Kertesz. Szoleszeti Fiskola, Kiadv.* 3(1):223-240. Ref. 1966. SB13.K4
- 97015 TAMASSY, I., and MOLNAR, I. Determination of water requirement and drought resistance of horticultural plants on the basis of cell sap concentration. (Hu) *Kertesz. Szoleszeti Fiskola, Kiadv.* 3(1):143-183. Ref. 1966. SB13.K4  
Vegetables.
- 97016 TESI, R. Floral biology and reproduction in chicory. (It) *Sementi Elette* 13(1):22-27. Ref. Jan./Feb.1967. 61.8 Se53  
English summary.  
Pollination and breeding.
- 97017 TOMPKINS, D. R. Rhubarb petiole color and forced production as influenced by gibberellin, sucrose, and temperature. *Amer. Soc. Hort. Sci. Proc.* 89:472-477. Ref. Dec.1966. 81 So12
- 97018 TRANKOVSKII, D. A., and TROITSKAYA, T. A. The development of the gametophyte in a hybrid onion. (Rus) *Moscow Univ. Vestnik Ser. 6 Biol. Pochvoved.* 1:55-58. Jan./Feb.1967. 442.9 M854
- 97019 TSUJITA, M. J., and ANDREW, W. T. The influence of N<sup>6</sup>-benzyladenine on the storage, marketability and post-harvest chlorophyll content of cabbage. *Can. J. Plant Sci.* 47(2):193-195. Mar.1967. 450 C16
- 97020 VECHER, A. S., LEBEDEVA, T. I., and RAITSINA, G. I. Hill reaction and photosynthetic phosphorylation activity of isolated chloroplasts of pea leaves. (Rus) *Akad. Nauk Belorussk. SSR. Dokl.* 11(5):451-454. Ref. May 1967. 511 M663D
- 97021 VEGH, GY., KOVACS, J., and RADA, MRS. K. A hajtatott paprika es paradicsom tapanyagellatasi kerdesei, kulonos tekintettel a molibdenforgalomra. Questions of nutrient supply of forced paprika [*Capsicum annum*] and tomato with special regard to molybdenum turnover. *Kesztyhely. Agrartud. Foiskola. Kiadv.* 9(8), 24 p. 1967. 19 K48  
English summary.
- 97022 VLASYUK, P. A., VITKALENKO, L. P., and YASHOVSKII, I. V. The effect of gamma radiation on the proteins of pea and chickpea seeds. (Rus) *Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina. Dokl.* 3:7-10. Mar.1967. 20 Ak1
- 97023 VLASYUK, P. A., and IVCHENKO, V. I. The effect of molybdenum on nitrogen reductase action in pea and forage bean leaves. (Rus) *Zhytomyrs'kyi Sil'skokhospod. Inst. Mater. Konf.* 1967:259-262. S651.Z5
- 97024 VOGEL, J. The influence of mineral fertilizers on definite quality characteristics of potatoes. (Ge) *Kartoffelbau* 18(1):11-12. Jan.1967. 75.8 K145
- 97025 VOINILO, V. A., DEEVA, V. P., and MASHTAKOV, S. M. Effect of chlorocholine chloride and gibberellic acid on oxidizing phosphorylation of pea mitochondria. (Rus) *Akad. Nauk Belorussk. SSR. Dokl.* 11(10):930-933. Oct. 1967. 511 M663D
- 97026 VOTOUPAL, B. Basic tillage and preparation of soils as related to the growth of potato root system. (Cz) *Czech. Min. Zemedel. Les. Hospodar. Ustav Vedeckotech. Inform. Rostlinna Vyroba* 41(2):139-154. Ref. Feb.1968. 64.9 C33  
English summary.  
Includes application of manures.
- 97027 WARREN, R. Chemicals for pre-harvest drying of potato vines. *Oreg. Weed Contr. Handbook* 1968:189-190. 275.28 Or3
- 97028 WARREN, R. Control of sprouting during storage of commercial potatoes. *Oreg. Weed Contr. Handbook* 1968:168-169. 275.28 Or3  
CIPC, and maleic hydrazide.
- 97029 WATADA, A. E., and MORRIS, L. L. Growth and respiration patterns of snap bean fruits. *Plant Physiol.* 42(6):757-761. Ref. June 1967. 450 P692
- 97030 WEAVER, M. L., and STEEN, H. A. Quantitative determination of tyrosinase activity using paper discs and a recording densitometer. *Amer. Potato J.* 44(11):387-392. Nov.1967. 75.8 P842
- 97031 WEBB, J. A. Translocation of sugars in *Cucurbita melopepo*. IV. Effects of temperature change. *Plant Physiol.* 42(6):881-885. Ref. June 1967. 450 P692  
Studied with radioactive carbon.
- 97032 WELCH, N. C., and LITTLE, T. M. Heat treatment, and cutting, for increased sweet potato slip production. *Calif. Agr.* 21(5):4-5. May 1967. 100 C12Cag
- 97033 WEST, J., and HILL, R. Carbon dioxide and the reduction of indophenol and ferricyanide by chloroplasts. *Plant Physiol.* 42(6):819-826. Ref. June 1967. 450 P692  
Tests with peas.
- 97034 WIERSUM, L. K. Presumed aerotropic growth of roots of certain species. *Naturwissenschaften* 54(8):203-204. Apr.15,1967. 474 N213  
Brassica and potatoes.

- 97035 WILSON, C. W., and others. Recovery of volatile flavors from celery. Fla. State Hort. Soc. Proc. 80:292-296. May 1, 1968. 81 F66  
A. M. Neubert, M. K. Veldhuis, and W. H. Miller, joint authors.
- 97036 YAMADA, T., NAKAGAWA, H., and SHINOTÔ, Y. Studies on the differentiation in cultured cells. I. Embryogenesis in three strains of *Solanum callus*. Bot. Mag. Tokyo 80(944):68-74. Ref. Feb. 1967. 450 B651  
*Solanum melongena* and the effects of auxin and kinetin on embryogenesis.
- 97037 YANKOVSKAYA, N. M. Effect of fertilizers on chemical composition of cabbage and carrots. (Rus) Khim. Sel'skom Khoz. 5(5):11-13. May 1967. 385 K524  
Minerals.
- 97038 ZAERR, J. B., and MITCHELL, J. W. Polar transport related to mobilization of plant constituents. Plant Physiol. 42(6):863-874. Ref. June 1967. 450 P692  
Chiefly tests with beans and indoleacetic acid, sucrose and mannitol labelled with radioactive carbon.
- 97039 ZAKIROV, M. The weight and the content of nitrogen in root nodules, according to horizons. (Rus) Akad. Nauk Uzb. SSR. Dokl. 8:48-49. 1967. 511 Uz1  
Peas.
- 97040 ZINK, F. W. The response of head lettuce [*Lactuca sativa* L.] to soil application of zinc. Amer. Soc. Hort. Sci. Proc. 89:406-414. Ref. Dec. 1966. 81 S012
- Physiology and Biochemistry of Miscellaneous Economic Plants (Coffee, Tea, Cacao, Etc.)
- 97041 ALIEV, S. Yu. Quantitative characteristics and the dynamics of the underground parts of ephemeric wormwood in semi-arid Shirvan. (Rus) Akad. Nauk. Azerbaidzh. SSR. Izv. Ser. Biol. Med. Nauk. 1:15-23. 1967. 442.9 Ak132  
*Artemisia*.
- 97042 APLIN, R. T., PAGE, C. B. The constituents of native Umbelliferae. I. Coumarins from dill (*Anethum graveolens* L.). Chem. Soc. J. C, Org. 23:2593-2596. 1967. QD241.C5
- 97043 ARTHUR, H. R., LOO, S. N., and LAMBERTON, J. A. N<sub>p</sub>-methylated tryptamines and other constituents of *Acacia confusa* Merr. of Hong Kong. Australian J. Chem. 20(4):811-813. Apr. 1967. 475 Au73
- 97044 AUZAV, J. D., and JACOB, J. L. Adenosine triphosphates, allosteric inhibitor of lactic dehydrogenases in latex of *Hevea brasiliensis*. (Fr) Acad. Sci. Compt. Rend. Ser. D, 264(16): 2007-2010. Apr. 17, 1967. 505 P21
- 97045 BATTERSBY, A. R., and others. Alkaloids of calabash curare and *Strychnos* species. IV. Caracurine-II. Chem. Soc. J. C, Org. 22:2335-2339. 1967. QD241.C5  
H. F. Hodson, G. V. Rao, and D. A. Yeowell, joint authors.
- 97046 BERNIER, G., KINET, J. M., and BRONCHART, R. Cellular events at the meristem during floral induction in *Sinapis alba* L. Physiol. Veg. 5(3):311-324. Ref. July/Sept. 1967. 450 P5623
- 97047 BEZANGER-BEAUQUESNE, L., and TROTIN, F. Study of leafy stems of *Cussonia bojeri* Seem; preliminary tests. (Fr) Acad. Sci. Compt. Rend. Ser. D, 264(6):869-870. Feb. 6, 1967. 505 P21
- 97048 CARDOSO, M., ZINK, E., and BACCHI, O. A Preliminary report on conservation of seeds of the rubber tree [*Hevea brasiliensis*]. (Por) *Bragantia* 25(1):XXXV-XL. 1966. 102.5 B73Tb  
English summary.  
Storage for maintenance of germinating quality.
- 97049 CASSAGNE, C. Study of lipides of *Dumoria africana*, *Dumoria heckelii*, and *Irvingia gabonensis*. (Fr) J. Agr. Trop. Bot. Appl. 14(10-11): 494-499. Ref. Oct./Nov. 1967. 26 J822
- 97050 DELTOUR, R. Effects of sucrose on the growth and flowering of plants emerging from the apex of *Sinapis alba* grown in vitro. (Fr) Acad. Sci. C. R., Ser. D, 264(24):2765-2768. Ref. June 12, 1967. 505 P21
- 97051 GENEVOIS, L. Hallucinogenic substances in *Convolvulaceae*. (Fr) J. Agr. Trop. Bot. Appl. 15(4-5):180-182. Ref. Apr./May 1967. 26 J822  
In tropics.
- 97052 GOGORISHVILI, D. V. Character of growth and development of mulberry depending upon the vertical zones of Vani District. (Geo) Gruz. Sel'skokhoz. Inst. Tr. 70:61-68. 1966. 106 T44  
English summary.  
In relation to weather and soil conditions.
- 97053 GUTIERREZ G., J., and JIMENEZ S., E. Development of a physiological method for early selection of perennial plants with a high productive capacity. (Sp) *Cacao* 12(1):1-8. Ref. Jan./Mar. 1967. 68.38 C11  
English summary.  
Tests on 7 coffee varieties.
- 97054 HARLER, C. R. Trace and other elements in tea leaf. World Crops 19(4):48-49. Sept. 1967. 281.8 W892  
In the plant.
- 97055 HATA, K., and KOZAWA, M. Studies on coumarins from the root of *Angelica pubescens* Maxim. I. The structure of angelol. (Ja) Pharm. Soc. Jap. J. 88(3):283-292. Mar. 1968. 396.9 P49  
English summary.
- 97056 HATA, K., and KOZAWA, M. Studies on coumarins from the root of *Angelica pubescens* Maxim. II. Absolute configuration of angelol. (Ja) Pharm. Soc. Jap. J. 88(3):293-298. Ref. Mar. 1968. 396.9 P49  
English summary.
- 97057 HLUSHCHENKO, H. I. The biology of flowering and the embryology of *Solanum aviculare* Forst. (Ukr) Ukr. Bot. Zh. 25(1):82-91. Ref. Jan./Feb. 1968. 450 J8212J  
English summary.  
Drug plant.
- 97058 HORVATH, A., and others. Metabolic effects of calagualine, an antitumoral saponine of *Polypodium leucotomos*. Nature 214(5094): 1256-1258. June 17, 1967. 472 N21  
F. Alvarado, J. Szocs, Z. N. De Alvarado, and G. Padilla, joint authors.  
Honduras.
- 97059 ILIEVA, S., PENEVA, P., and MOINOVA, K. Changes in santonin content of *Artemisia maritima* L. var. *salina* Koch. at different growth stages. (Bu) *Rastenievudni Nauk.* 4(10):29-33. 1967. 64.8 R18  
English summary.
- 97060 ISERENTANT, R. The relationship between soil moisture potential and the leaf moisture potential of *Theobroma cacao* L. (Fr) Paris Acad. 53(15):1167-1170. Nov. 1967. 14 P214Bc
- 97061 JACOBSON, G. M., and FREY, M. J. Biosynthesis of cholesterol by seedlings of *Digitalis purpurea*. Amer. Chem. Soc. J. 89(13):3338-3340. Ref. June 21, 1967. 381 Am33J
- 97062 JAROS, Z. Plants and medicine. II. Plants containing glycosides. (Cz) *Ziva* 16(1):8-10. Jan. 1968. 409.6 Z6
- 97063 KASPRZYK, Z., PYREK, J., and SLIWOWSKI, J. Free and ester-bound methylsterols and triterpene monols in *Calendula officinalis* L. Acad. Polon. Sci. Bull. Ser. Sci. Biol. 15(12):723-726. 1967. 512 W262
- 97064 KAUL, H. L., KAPUR, K. L., and DATE, W. B. Marmelosin in bael [*Aegle marmelos*] fruit and its products. Indian Food Packer 21(5):5-7. Sept./Oct. 1967. 389.8 In25  
Drug plant.
- 97065 KINDL, H., and UNDERHILL, E. W. Biosynthesis of mustard oil glucosides: N-hydroxyphenylalanine, a precursor of glucotropaeolin and a substrate for the enzymatic and nonenzymatic formation of phenylacetaldehyde oxime. Phytochem. 7(5):745-756. Ref. May 1968. 450 P5622  
Obtained from *Sinapis alba*, *Tropaeolum majus*, and *T. officinale*.



- 97066 KONDO, N., and SHOJI, J. Studies on the constituents of *Panax japonicum* rhizome. I. Isolation and purification of the saponins. I. (Ja) Pharm. Soc. Jap. J. 88(3):325-329. Ref. Mar. 1968. 396.9 P49  
English summary.
- 97067 KORBUT, G. A. The effect of microelements on the accumulation of nitrogen in hop strobiles and corn kernels (not grains). (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:236-239. S651.25
- 97068 KUNERT, G. Storage and lipolysis studies on the endosperm of stored *Ricinus* [communis] seeds. (Ge) Flora Abt. A, Physiol. Biochem. 157(3):299-304. 1966. QK710.F5
- 97069 KUNESCH, N., and others. Alkaloids of *Voacanga*. VIII. Alkaloids of the leaves and seeds of *Voacanga africana* Stapf. (Fr) Ann. Pharm. Franc. 26(1):79-86. Ref. Jan. 1968. 396.8 An7  
C. Milet, M. Trolly, and J. Poisson, joint authors.
- 97070 LADO, P., and SCHWENDIMANN, M. Changes of mitochondrial RNA level during the transition from rest to growth in the endosperm of germinating Castor beans. Life Sci. 6(16, pt.2): 1681-1690. Ref. Aug. 15, 1967. 442.8 L62
- 97071 LEITE, J. R., and INFORZATO, R. Observations on rooting cuttings of black pepper (*Piper nigrum* L.) treated with plant hormones. (Por) Bragantia 25(1):VII-IX. 1966. 102.5 B73Tb  
English summary.
- 97072 MABEY, S. E. The effect of shade on the relationship between stem diameter and tree weight of young seedling cacao. East Afr. Agr. Forest. J. 33(1):14-22. July 1967. 24 Ea74
- 97073 MUHAMMAD, S., and others. A note on the sex reversal in *Ricinus communis* L. Madras Agr. J. 54(1):36-39. Jan. 1967. 22 M262  
N. Srinivasalu, K. Navakodi, and N. M. Ramaswamy, joint authors.
- 97074 MURAKAMI, T., and others. New triterpenoid saponins in the rhizome and roots of *Caulophyllum robustum* Maxim. (Ja) Pharm. Soc. Jap. J. 88(3):321-324. Ref. Mar. 1968. 396.9 P49  
M. Nagasawa, S. Urayama, and T. Satake, joint authors.  
English summary.
- 97075 NAKAGAWA, M., and SAKAMOTO, Y. Isolation of (-)-epicatechin and (+)-catechin from the leaf of *Camellia japonica*. (Ja) Jap. Tea Res. Sta. Stud. Tea 34:72-76. Mar. 1967. 68.18 Ok3  
English summary.
- 97076 OZAWA, M., and others. Studies on the free amino acids in plants. VI. Isolation of gamma-methyl and gamma-methylene glutamic acids from edible lily bulbs. (Ja) Tokyo. Meiji Univ. Fac. Agr. Bull. 22:7-13. Ref. Nov. 1967. 22.5 T576  
H. Inatomi, Y. Suyama, and F. Imukai, joint authors.  
English summary.  
*Lilium auratum*.
- 97077 PARIS, R. R., and SAINT-FIRMIN, A. Distribution and biogenesis of alkaloids in *Hyoscyamus*; study of ontogenic variations with thin layer chromatography at *Hyoscyamus muticus* L. and *Hyoscyamus aureus* L. (Fr) Acad. Sci. Compt. Rend. Ser. D, 264(6):825-827. Feb. 6, 1967. 505 P21
- 97078 PASSAMA, L. Action of environmental factors on *Rosmarinus officinalis* L. (Fr) Nat. Monspelienzia Ser. Bot. 18:389-403, map. Ref. 1967. 451 M766  
English summary.
- 97079 PAVELKOVSKAYA, G. P., ALYUKINA, L. S., and KLYSHEV, L. K. Flavonoid content in some sagebrush [*Artemisia*] species. (Rus) Akad. Nauk Kaz. SSR. Vestn. 9:60-65. Ref. Sept. 1967. 511 AL6
- 97080 PETHIYAGODA, U. Current trends in physiological inquiry. Ceylon. Tea Res. Inst. Tea Quart. 38(3):249-252. Sept. 1967. 68.18 C33
- 97081 POLINIERE, J. P., and BRANDT, H. VAN. Dry matter production and other vegetative characteristics of Hevea [brasiliensis] grafts in relation to their age. (Fr) Bois Forests Trop. 112: 39-51. Mar./Apr. 1967. 99.8 B632  
English summary.  
Vietnam.
- 97082 PUJARNISCLE, S. Lysosomal character of latex luteoids particles from *Hevea brasiliensis* Mul-Arg. (Fr) Physiol. Veg. 6(1):27-46. Ref. Jan./Mar. 1968. 450 P5623  
English summary.
- 97083 RIPLEY, E. A. Effects of shade and shelter on the microclimate of tea. East Afr. Agr. Forest. J. 33(1):67-80. July 1967. 24 Ea74
- 97084 RUBIA, A. C., ALOISI, J., and ABRAMIDES, E. Effect of pruning season and spacing in the first crop season upon leaf production of different varieties of mulberry trees shaped by the "cepo" system. I. (Por) Bragantia 25(1):233-236. 1966. 102.5 B73Tb  
English summary.  
*Morus alba*.
- 97085 RUBIA, A. C., PETTINELLI, A., and ABRAMIDES, E. Leaf production of different mulberry tree varieties, during the period of seedlings formation by the systems "cepo" and "fuste"; series I. (Por) Bragantia 25(1):203-209. 1966. 102.5 B73Tb  
English summary.
- 97086 SAIKI, Y., and others. Gas-chromatographical studies on natural volatile oils. I. On the volatile oil of Chinese drug "Xixin." (Ja) Pharm. Soc. Jap. J. 87(12):1524-1528. Ref. Dec. 1967. 396.9 P49  
T. Saito, H. Sasaki, and S. Fukushima, joint authors.  
English summary.  
From *Asiasarum heterotropoides seoulensis*, Korea.
- 97087 SAIKI, Y., and others. Gas-chromatographical studies on natural volatile oils. II. The gas-chromatography on the volatile oils of the plants belonging to *Asiasarum* and *Asarum* genera. (Ja) Pharm. Soc. Jap. J. 87(12):1529-1534. Dec. 1967. 396.9 P49  
Y. Akahori, T. Noro, K. Morinaga, T. Taira, S. Fukushima, and T. Harada, joint authors.  
English summary.
- 97088 SAIKI, Y., and others. Gas-chromatographical studies on natural volatile oils. III. The gas-chromatography on the volatile oils of the plants belonging to *Heterotropa* genus. 1. (Ja) Pharm. Soc. Jap. J. 87(12):1535-1538. Dec. 1967. 396.9 P49  
Y. Akahori, K. Morinaga, T. Taira, T. Noro, S. Fukushima, and T. Harada, joint authors.  
English summary.  
Essential oils.
- 97089 SAIKI, Y., and others. Gas-chromatographical studies on natural volatile oils. IV. The gas-chromatography on the volatile oils of the plants belonging to *Heterotropa* genus. 2. (Ja) Pharm. Soc. Jap. J. 87(12):1539-1543. Dec. 1967. 396.9 P49  
Y. Akahori, K. Morinaga, T. Taira, T. Noro, S. Fukushima, and T. Harada, joint authors.  
English summary.  
Essential oils.
- 97090 SAIKI, Y., and others. Gas-chromatographical studies on natural volatile oils. V. The gas-chromatography on the volatile oils of the plants belonging to *Heterotropa* genus. (Ja) Pharm. Soc. Jap. J. 87(12):1544-1547. Dec. 1967. 396.9 P49  
Y. Akahori, K. Morinaga, T. Taira, T. Noro, S. Fukushima, and T. Harada, joint authors.  
English summary.  
Essential oils.
- 97091 SAKAMOTO, Y. Flavones occurring in green tea. I. (Ja) Jap. Tea Res. Sta. Stud. Tea 34: 60-71. Mar. 1967. 68.18 Ok3  
English summary.

- 97092 SANAI, H., and others. Physiological studies on the etiolation method of tea cutting. 1. The influence of the etiolation treatment upon some physiological characters of the shoots and cuttings. (Ja) Jap. Tea Res. Sta. Stud. Tea 34:26-32. Mar.1967. 68.18 Ok3  
S. Sakai, T. Kano, and A. Nakayama, joint authors.  
English summary.
- 97093 SANAI, H., and others. Studies on the changes of internal constituents with the growth in young tea plant. (Ja) Jap. Tea Res. Sta. Bull. 4:1-33. Ref. Mar.1967. 68.19 J27K  
A. Nakayama, T. Kano, and S. Sakai, joint authors.  
English summary.
- 97094 SCHNARRENBARGER, C., and MOHR, H. Phytochrome-mediated synthesis of carotenoids in mustard seedlings (*Sinapis alba* L.). *Naturwissenschaften* 54(24):648-649. Ref. Dec.15, 1967. 474 N213
- 97095 EL SISSI, H. I., and EL SHERBEINY, A. E. A. Local plants as potential sources of tannins in Egypt. III. *Qualitas Plant. Mater. Veg.* 14(1/2): 28-36. Ref. Jan.10,1967. 64.8 M41
- 97096 SRIVASTAVA, S. K., and RANJAN, S. Physiological studies on plant tannins. II. Variation of tannin compounds in the leaves and twigs of *Emblca officinalis* Gaertn. during fruiting season. *Flora Abt. A, physiol. Biochem.* 157(3): 201-210. Ref. 1966. QK710.F5
- 97097 SYMPOSIUM ON NATURAL PRODUCTS AND CANCER CHEMOTHERAPY, LAS VEGAS, NEVADA, 1967. [Papers]. *Lloydia* 30(4):291-363. Ref. Dec.1967. 442.8 L77  
Partial contents: Treatment of leukemias, Hodgkins' disease and allied diseases by natural products, by J. Bernard, p.291-323; Plant products and the treatment of cancer in man, by E. Frei, W. W. Sutow, and J. K. Luce, p.324-331.  
Biochemistry of natural products of plant origin.
- 97098 TAPPER, B. A., and BUTLER, G. W. Conversion of oximes to mustard oil glucosides (glucosinolates). *Arch. Biochem. Biophys.* 120(3): 719-721. June 1967. 381 Ar2  
In *Cochlearia officinalis* and *Lepidium sativum*.
- 97099 TOMO, N., and others. Studies on cold resistance in individual selection work. (Ja) Jap. Tea Res. Sta. Stud. Tea 34:18-25. Ref. Mar. 1967. 68.18 Ok3  
A. Watanabe, M. Mitsui, and K. Masuda, joint authors.  
English summary.  
Tea.
- 97100 TULUS, R., and CALTI, C. On the isolation of lanatoside A from leaves of *Digitalis viridiflora* Lindl. (Ge) *Arch. Pharm.* 300(6):515-520. June 1967. 396.8 Ar2A
- 97101 VALVERDE, G., and MARTIN, G. Assisted pollination in young oil palm plantations; first results obtained in Colombia. (Fr) *Oleagineux* 23(2):81-84. Feb.1968. 77.8 OL2  
English summary, p.XXXV.
- 97102 VASANTHARAJAN, V. N., and BHAT, J. V. Interrelations of soil micro-organisms and mulberry [*Morus indica*]. I. Phytohormone production by soil and rhizosphere bacteria and their effect on plant growth. *Plant Soil* 27(2): 261-272. Ref. Oct.1967. 450 P696
- 97103 VESTER, F., BOHNE, L., and EL-FOULY, M. Study of the components of *Viscum album*. IV. Biological behavior of the single protein fractions. (Ge) *Hoppe-Seyler's Z. Physiol. Chem.* 349(4):495-511. Ref. Apr.1968. 384 Z38  
English summary.  
Cancerostatic activity.
- 97104 YANG, S. F. Biosynthesis of ethylene; ethylene formation from methional by horseradish peroxidase. *Arch. Biochem. Biophys.* 122(2): 481-487. Ref. Nov.1967. 381 Ar2
- 97105 ZOLOTOVICH, G., and DECHEVA, R. On the flavonoid substances in the Kazanlik rose (*Rosa damascena* Mill.). (Bu) *Rastenievudni Nauk.* 4(9):19-27. Ref. 1967. 64.8 R18  
English summary.
- Physiology and Biochemistry of Forest Trees
- 97106 AGAMIROV, U. M. Longstem oaks (*Q. longipes* Stev.) of the Apsheron peninsula. (Rus) *Akad. Nauk. Azerbaidzh. SSR. Izv. Ser. Biol. Med. Nauk.* 1:33-38. Ref. 1967. 442.9 Ak132  
Chiefly physiology.
- 97107 BARTELS, H. Germination tests of *Pinus sylvestris* L. and *Picea abies* Karst. (Ge) *Saatgut-Wirtsch.* 19(1):16-19; (2):49-51. Ref. Jan.-Feb.1967. 61.8 Sal
- 97108 BECKING, J. H. Root-nodule mycorrhiza of *Podocarpus*. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.5:158-171. 1967. 99.9 In82
- 97109 BELCHER, E. W. Germination of repellent-coated slash and loblolly pine seed. *Ass. Off. Seed Anal. News Lett.* 41(2):10-11. June 1967. 61.9 As7N  
*Pinus taeda* and *P. caribaea*.
- 97110 BIDNER-BARHAVA, N., and RAMATI, B. The tolerance of some species of *Eucalyptus*, *Pinus* and other forest trees to soil salinity and low soil moisture in the Negev. *Israel J. Agr. Res.* 17(2):65-76. Ref. Apr.1967. 107 J552
- 97111 BJORKMAN, E. Report on cooperation and contacts within the Mycorrhiza Research Working Group of IUFRO since 1861. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.5:1-3. 1967. 99.9 In82
- 97112 BOULLARD, B. Systematics of ectotrophic mycorrhizae and the problems they present. (Fr) *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.5:4-11. 1967. 99.9 In82
- 97113 BOWEN, G. D., and THEODOROU, C. Studies on phosphate uptake by mycorrhizae. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.5:116-138. Ref. 1967. 99.9 In82  
Of *Pinus radiata*.
- 97114 BROERMAN, B. F. S., GATHERUM, G. E., and GORDON, J. C. A controlled-environment chamber for measurement of gas-exchange of tree seedlings. *Forest Sci.* 13(2):207-209. June 1967. 99.8 F7632  
Photosynthesis and respiration.
- 97115 BROWN, N. A. C., and BOOYSEN, P. DE V. Seed germination and seedling growth of two *Acacia* [*nilotica* and *A. tortilis*] species under field conditions in grassveld. *S. Afr. J. Agr. Sci.* 10(3):659-666. Sept.1967. 24 Su3
- 97116 CARL, C. M., and YAWNEY, H. W. Four stratification media equally effective in conditioning sugar maple [*Acer saccharum*] seed for germination. *Tree Planters' Notes* 77:24-28. Aug. 1966. 1.962 C5T71
- 97117 CARLISLE, A., BROWN, A. H. F., and WHITE, E. J. The nutrient content of rainfall and its role in the forest nutrient cycle. *Int. Union Forest. Res. Organ. Papers*, 14th Congr., v.2: 145-158. Ref. 1967. 99.9 In82
- 97118 CHUPROV, N. P. Effect of some factors on the development of spruces regenerated by advance growth. (Rus) *Les. Khoz.* 2:17-20. Feb.1967. 99.8 L5622
- 97119 COZZO, D. Relations between seed size and height of plants of *Pinus elliottii*. (Sp) *Rev. Forest. Argentina* 11(1):16-19. Jan./Mar.1967. 99.8 R3252
- 97120 GALOUX, A., SCHNOCK, G., and GRULOIS, J. Phenological variability and climate. (Fr) *Belg. Soc. Roy. Bot. Bull.* 100(2):309-314. 1967. 451 B41B  
English summary.  
In an oak forest in Belgium.
- 97121 GLOCK, W. S., and AGERTER, S. R. Tree growth as a meteorological indicator. *Int. J. Biometeorol.* 10(1):47-62. July 1966. 340.8 In8  
Review of the literature.
- 97122 GRULOIS, J. Radiation extinction tropisms and leaf parameters. (Fr) *Belg. Soc. Roy. Bot. Bull.* 100(2):315-334. 1967. 451 B41B  
English summary.  
In *Quercus* and *Fagus*.



- 97123 GUNTHER, K. H. Effects of ground water decline on tree growth. (Ge) Bayer. Landwirt. Jahrbuch 44(spec.no.3):139-141. 1967. 18 L24
- 97124 HERMANN, R. K. Seasonal variation in sensitivity of Douglas-fir [*Pseudotsuga menziesii*] seedlings to exposure of roots. Forest Sci. 13(2):140-149. Ref. June 1967. 99.8 F7632  
Low survival and reduced growth.
- 97125 HOFFMEISTER, H., and HEINRICH, G. The occurrence of ecdysterone in yew [*Podocarpus*]. Naturwissenschaften 54(17):471. Sept.1, 1967. 474 N213
- 97126 IGNATENKO, M. M. Early flowering of Siberian pine. (Rus) Les. Khoz. 2:83. Feb.1967. 99.8 L5622
- 97127 JENSEN, K. F. Measuring oxygen and carbon dioxide in red oak trees. U. S. Forest Serv. Res. Note NE-70, 4 p. 1967. A99.9 F7622U  
*Quercus*.
- 97128 KAHL, W., and KUSZLIK-JOCHYM, K. The role of components of horse-chestnut (*Aesculus hippocastanum* L.) seeds in biochemical processes. I. Influence of extracts from horse-chestnut seeds on alcoholic fermentation. Acta Microbiol. Polon. 16(3):249-253. Ref. 1967. 448.3 Ac82
- 97129 KARTNIG, T., and HIERMANN, A. The distribution of saponins in *Aesculus hippocastanum* during different stages of development. 4. Observation on the formation of aescin in seedlings after the application of 2-14C-mevalonic acid lactone. (Ge) Planta Med. 16(1):109-113. Feb.1968. 450 P697  
English summary.
- 97130 KAWADA, H., MARUYAMA, A., and KINUGASA, T. Studies on *Pinus densiflora* forest soils in Kansai area. I. A study on correlations among nutrient concentrations of *Pinus densiflora* needle, growth and soil conditions. (Ja) Jap. Forest Exp. Sta. Bull. 199:67-97. Ref. Mar. 1967. 99.8 R47  
English summary.  
Includes foliar diagnosis.
- 97131 KORNEEVA, A. M. Lipids of acorns. II. Chemical composition of the cotyledone oil. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 1(37):106-108. 1967. 442.8 N22
- 97132 KROLIKOWSKI, L., and CIOK, B. Exchangeable aluminum curbs growth and development of *Pinus sylvestris* seedlings. (Fr) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.2: 270-281. Ref. 1967. 99.9 In82
- 97133 KROTOVA, N. G. Phytoncides in forest trees and shrubs of the Timiryazev Agricultural Academy experiment plot. (Rus) Moscow. Timiryazevskaya Sel'skokhoz. Akad. Dokl. 119:275-280. 1966. 20 M857
- 97134 KRUEGER, K. W., and TRAPPE, J. M. Food reserves and seasonal growth of Douglas-fir [*Pseudotsuga menziesii*] seedlings. Forest Sci. 13(2):192-202. Ref. June 1967. 99.8 F7632
- 97135 KURDYUK, M. H. Toward a biology of *Picea omorica* Purk. (Uk) Ukr. Bot. Zh. 25(1):101-103. Jan./Feb.1968. 450 J8212J
- 97136 KUROYANAGI, S. On the emission spectrochemical analysis for determination of mineral constituents of ash in forest and garden tree-leaves. (Ja) Okayama. Univ. Fac. Agr. Sci. Rep. 30:13-25. Ref. Oct.1967. 107.6 Ok12  
English summary.
- 97137 LAIHO, O. Field experiments with ectotrophic Scotch pine seedlings. Int. Union Forests. Res. Organ. Papers, 14th Congr., v.5:149-157. Ref. 1967. 99.9 In82
- 97138 LAVARENNE, S. Growth and organogenesis during germination of *Aesculus hippocastanum*. (Rus) Acad. Sci. Compt. Rend. Ser. D, 265(16):1124-1126. Oct.16,1967. 505 P21
- 97139 LEVY, G. Practical use of the foliar analysis for the study of the forest nutritional elements. (Fr) Rev. Forest. Franc. 20(4):249-263. Ref. Apr.1968. 99.8 R329
- 97140 LUNDEBERG, G. Raw humus as the nitrogen source for pine seedlings. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.5:112-115. 1967. 99.9 In82  
In relation to mycorrhiza formation.
- 97141 LYTVAK, P. V. Karelian birch (*Betula verrucosa* var. *carelica* Soe) in the Ukrainian Polesye. (Uk) Ukr. Bot. Zh. 25(1):103-106. Jan./Feb.1968. 450 J8212J  
Physiology.
- 97142 MIKSCH, J. P. Radiobotanical parameters of *Pinus banksiana*. Naturwissenschaften 54(12): 322. Ref. June 15,1967. 474 N213
- 97143 MIYAKE, N., and OKIBE, A. Fundamental studies on seed gardens of Japanese pine. 5. Effects of some fertilizers on the growth and cone crop of *Akamatsu* (*Pinus densiflora*). (Ja) Shimane Agr. Coll. Bull. 15(A-2):101-112. Jan. 1967. S539.J355  
English summary.
- 97144 NG, F. S. P. Age at first flowering in dipterocarps. Malayan Forest. 29(4):290-295. Oct. 1966. 99.8 M292
- 97145 PACHLEWSKI, R. Studies on mycorrhizal fungi of pine (*Pinus sylvestris* L.). *Lactarius rufus* (Scop. ex Fr.) Fr. and *Rhizopogon luteolus* Fr. and Nordh. under natural conditions and in pure cultures. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.5:12-25. Ref. 1967. 99.9 In82
- 97146 PAPP, L. Rhizome-dew in beech forests. (Ge) Int. Union Forest. Res. Organ. Papers, 14th Congr., v.4:497-503. 1967. 99.9 In82
- 97147 PASTERNAK, G. M. Regulatory mechanisms of photosynthesis of spruce trees in the Carpathians. (Rus) Lesovod. Agrolesomeliior. 12:99-103. 1967. SD1.L44  
U.S.S.R.
- 97148 PASTERNAK, P. S. Interaction between forest and soil in beech planting. (Rus) Lesovod. Agrolesomeliior. 12:3-1. 1967. SD1.L44  
Reaction of beech to soil acidity in U.S.S.R.
- 97149 PAULY, G. Identification of some soluble glucides in the root of maritime pine; variations of their content in the xylem and phloem during the year. (Fr) Acad. Sci. Compt. Rend. Ser. D, 265(17):1191-1194. Oct.23,1967. 505 P21
- 97150 PETROV, V. V. On the biology of aspen shoots. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 10(4):76-79. 1967. 442.8 N22
- 97151 PHARIS, R. P., and others. Response of conifers to growth retardants. Bot. Gaz. 128(2): 105-109. Ref. June 1967. 450 B652  
M. Ruddat, C. Phillips, and E. Heftmann, joint authors.  
Grown in phytotron.
- 97152 POLGE, H., and ILLY, G. Studies on anisotropy of *Pinus pinaster* in the Landes. (Fr) Nancy Ecole Nat. Eaux Forets Ann. 24(3):205-231. Ref. 1967. 99.9 F845  
English summary.
- 97153 RAKHTEENKO, I. N. Interaction and vital activity of root system of trees in forest stands. (Rus) Les. Khoz. 2:10-13. Feb.1967. 99.8 L5622  
Allelopathy.
- 97154 RAKHTEENKO, I. N., and YAKUSHEV, B. I. Peculiarities of development of absorbing surface of pine root system under various growing conditions. (Rus) Akad. Nauk Belorussk. SSR. Dokl. 11(9):841-843. Sept.1967. 511 M663D
- 97155 RYSIN, L. P. Role of root competition in regeneration of forests. (Rus) Les. Khoz. 3:21-24. Mar.1967. 99.8 L5622
- 97156 SATTERLUND, D. R., and HAUPT, H. F. Snow catch by conifer crowns. Water Resources Res. 3(4):1035-1039. Fourth Q.1967. 292.8 W295
- 97157 SCHOBBER, R. Phenology and height increase of larch during the year and their relation to provenance and weather. 1. (Ge) Allg. Forst-Jagdzeitung 138(4):65-75. (Cont.) Apr.1967. 99.8 AL3



- 97158 SHABAROV, A. A. On the depth penetration of oak roots into soil in its south bounds. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 10(4): 80-82. 1967. 442.8 N22
- 97159 SHANMUGAVELU, K. G. A note on the effect of gibberellic acid on the root and shoot weights of some tree species. Madras Agr. J. 54(1):44-45. Jan. 1967. 22 M262
- 97160 SHOULDERS, E. Fertilization increases long-leaf (*Pinus palustris*) and slash [*Pinus elliotii*] pine flower and cone crops in Louisiana. J. Forest. 66(3):193-197. Ref. Mar. 1968. 99.8 F768  
With various rates of nitrogen, phosphate and potash.
- 97161 SIDOROV, A. I. Poplar plantations in Kuban. (Rus) Les. Khoz. 2:30-34. Feb. 1967. 99.8 L5622  
Physiology.
- 97162 EL SISSI, H. I., and EL SHERBEINY, A. E. A. The flavonoid components of the leaves of *Acacia saligna*. Qualitas Plant. Mater. Veg. 14(3): 257-266. Ref. Apr. 28, 1967. 64.8 M41
- 97163 SLANKIS, V. Renewed growth of ectotrophic mycorrhizae as an indication of an unstable symbiotic relationship. Int. Union Forest. Res. Organ. Papers, 14th Congr., v. 5:84-99. 1967. 99.9 In82  
Review of the literature.
- 97164 SOGO, M. On the permanganate oxidation of bark phenolic acid, tannin, and bjorkman lignin isolated from bark of some gymnosperm and angiosperm trees. Kagawa Univ. Fac. Agr. Tech. Bull. 18(2):158-163. Ref. Mar. 1967. 107.6 K113
- 97165 STEFANOV, B., and NAIDENOVA, TS. Effect of soil moisture on transpiration and the growth of vegetative mass in some poplar species. (Bu) Gorskostopanska Nauk. 4(2):3-15. 1967. 99.8 G683  
German summary.
- 97166 STENMETZ, E. F. An estrogenic agent of vegetable origin: podocarpic acid. Acta Phytotherap. 14(8):141-143. Oct. 1967. 450 Ac88  
From *Dacrydium cupressinum*.
- 97167 STROTHMANN, R. O. The influence of light and moisture on the growth of red pine [*Pinus resinosa*] seedlings in Minnesota. Forest Sci. 13(2):182-191. Ref. June 1967. 99.8 F7632
- 97168 TRAPPE, J. M. Principles of classifying ectotrophic mycorrhizae for identification of fungal symbionts. Int. Union Forest. Res. Organ. Papers, 14th Congr., v. 5:46-59. Ref. 1967. 99.9 In82
- 97169 TRAPPE, J. M. Pure culture synthesis of Douglas-fir [*Pseudotsuga menziesii*] mycorrhizae with species of *Hebeloma*, *Suillus*, *Rhizopogon*, and *Astraeus*. Forest Sci. 13(2):121-130. Ref. June 1967. 99.8 F7632
- 97170 WIERSMA, N. The spruce blooming in Sweden, year 1967. (Sw) Skogen [Stockholm] 54(16): 416-417. Aug. 17, 1967. 99.8 Sk51  
Report of pollen yield 1967.
- 97171 WILDE, S. A., LAFOND, A., and FASSI, B. On the terminology related to mycorrhizae. Int. Union Forest. Res. Organ. Papers, 14th Congr., v. 5:40-45. 1967. 99.9 In82
- 97172 WILSON, B. F. Root growth around barriers. Bot. Gaz. 128(2):79-82. June 1967. 450 B652  
*Acer rubrum*.
- 97173 YAMAMOTO, T., SANADA, M., and SANADA, E. A study on the growth of Todo fir and sustenance of soil fertility. (Ja) Hokkaido. Forest Exp. Sta. Annu. Rep. 1965:32-55. Ref. Dec. 1966. 99.9 J2724A  
English summary.  
*Abies sachalinensis*.
- 97174 ZAUGOLINOVA, L. B. On the biology of self-seeding of *Fraxinus excelsior* L. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 5(41):98-102. 1967. 442.8 N22
- 97175 ZELAWSKI, W. A contribution to the question of the CO<sub>2</sub>-evolution during photosynthesis in dependence on light intensity. Acad. Polon. Sci. Bull. Ser. Sci. Biol. 15(9):565-570. Ref. 1967. 512 W262  
In *Pinus sylvestris*.
- AGRONOMY (FIELD CROPS)
- 97176 AGERBERG, L. S. Single crop farming can decrease harvest by 50%. (Sw) Jord Skog 19(6):23-25. 1967. 58.8 M373  
Advocates crop rotation in Sweden.
- 97177 AMERICAN SOCIETY OF AGRONOMY. Advances in agronomy. Vol. 19. 1966. 370 p. \$0 Ad9
- 97178 CERVATO, A. Conferences on agronomy, horticulture, herbaceous crops. (It) Agricoltura 17(1):63-76. Jan. 1968. 16 Ag8226  
English summary, p. 9.
- 97179 CHANDRA, J. Changing pattern of cropping in the lower Bhavani Ayacut. Madras Agr. J. 54(7):361-369. Ref. July 1967. 22 M262
- 97180 CHENEY, H. B. Interpretation of experimental results. Oreg. Agr. Exp. Sta. Spec. Rep. 254: 2-4. Apr. 1968. 100 Or3M  
Field crop research.
- 97181 CLINE, R. A., and SANDERSON, E. E. Field crop varieties recommended in South Dakota for 1968. S. Dak. State Univ. Ext. FS 382, 2 p., map. Dec. 1967. 275.29 So85Fs
- 97182 DEFFONTAINES, J. P. A method of determining the technical factors that limit agricultural production in the mountains. (Fr) Fourrages 31:36-52, map. Sept. 1967. 60.8 F82  
English summary, p. 133.
- 97183 DEKAPRELEVICH, L. L. Breeding of field crops in Georgian SSR, the initial material, methods and results. Genetika 10:142-151. Ref. Oct. 1967. QH431.A1G4  
English summary.
- 97184 GALIEN, M. V. D., and JONG, G. J. D. Date of sowing and yield. (Du) Neth. Provinc. Dir. Rijkslandbouwoverlichting Friesland, Voorlichting Onderz. 1966:54-57. SB183.N4A3  
Advantages of early sowing of some summer field crops.
- 97185 GIDWANI, H. M., AGARWAL, M. C., and DUBEY, L. N. Crop rotation for reclaimed ravine lands. J. Soil Water Conserv. India 15(1/2):55-60. Jan./June 1967. 56.8 J824
- 97186 GOLDSON, J. R. Notes on field experimentation. 1. A method of recording data obtained from agricultural experiments. 2. Preparation for the planting of field trials. 3. Work on trials in the field. East Afr. Agr. Forest. J. 33(1):100-118. July 1967. 24 Ea74  
In Kenya.
- 97187 HOREJS, J., and PLASS, E. Technologie vyroby osiva, kvalita osiv a semen [Technology of the production of seeds, quality of seeds and seeds for planting]. (Cz) Zajmova Aktual. Listovka MZLH 11, 16 p. 1966. S16.C95Z3  
Field crops.
- 97188 JORNADAS AGRONOMICAS, 6TH, MARACAIBO, 1966. Memoria [Report of the Agricultural Sessions] Caracas, Sociedad Venezolana de Ingenieros Agronomos, 1966. 2 v. Ref. 1966. S211.J6 1966  
Volume I, Agronomy; II, Soil science.
- 97189 KABANOV, P. G. Working methods of agricultural experiment station and their recommendations to producers. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 5:118-122. May 1967. 20 V633  
Agronomy chiefly.
- 97190 KING, R. D. Two rows are better than one. Doanes Agr. Rep. 32(5):36-37. Feb. 1968. 281.8 D652  
Cultivators and seeding of field crops.
- 97191 KRISTAN, F. A decade of the experimental plot of the Central Research Institute for Plant Production [Ustredny Vyzkumny Ustav Rostlinne Vyroby, Pracoviste] at Lukavci. (Cz) Prague. Vyzk. Ustav Zemed. Vestn. 14(5):255-227. 1967. 19.5 C333
- 97192 MANSSON, E. Results from the experimental activities of the year. (Sw) Hallands Lans Hushallingssallsk. Tidskr. 10(6):8-10. Dec. 1967. 11 H152
- 97193 MASSAUX, F., BRASSEUR, P., and MAUDOUX, C. Measuring dense beta rays with a geometric tube Geiger-Mueller counter. (Fr) Bull. Rech. Agron. Gembloux 2(2):273-284. 1967. S5.B8



- 97194 NAKAZAWA, A., and NAKAYAMA, K. Studies on the adaptability of summer crops to late seeding in Kanto district. (Ja) Konusu. Cent. Agr. Exp. Sta. J. 10:23-49. Ref. May 1967. 107.6 K832  
English summary.
- 97195 NETHERLANDS. PROVINCIALE DIRECTIE VOOR DE RIJSKLANDBOUWVOORLICHTING IN FRIESLAND. Voorlichting en onderzoek. Akkeren tuinbouw [Information and research. Field crops and horticulture], 1966. Leeuwarden, 1967. 94 p. SB183.N4A3
- 97196 NIKLEWSKI, M., and KRZYWY, E. The influence of three- and four-course rotations and of papilionaceous plants, residues on yields and manurial effects of following plants. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25: 208-212. 1966, pub. 1967. 20.5 St4  
English summary.
- 97197 PANDEY, S. N., and GOSWAMI, N. N. Multiple cropping can maximise food and fibre production in West Bengal. Indian Farming 17(12): 18-19. Mar. 1968. 22 In283  
Jute and field crops.
- 97198 POPOV, P. The Great October Revolution and its influence on plant science in Bulgaria. (Bu) Rastenievudni Nauk. 4(9):3-9. 1967. 64.8 R18  
Agronomy.
- 97199 RUSSELL, E. W. Climate and crop yields in the tropics; a review of progress in reducing some harmful effects of climate on crop production. Empire Cotton Growing Rev. 44(2):87-99. Ref. Apr. 1967. 72.8 Em7
- 97200 RUTHERFORD, A. A., and STEWART, D. A. The use of subsidiary information in the improvement of the precision of experimental estimation. Northern Ireland Rec. Agr. Res. 16(1):19-24. Aug. 1967. 10 N81R  
Crop yields following fertilizer application.
- 97201 SHAIKH, A. U. Revolutionary seeds. Maharashtra Co-op. Quart. 51(1):13-21. July 1967. 280.28 B63  
Research programs.
- 97202 SONGIN, H. Characteristics of some pulse species in stubble catch-crops on heavy soils. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:138-140. 1966, pub. 1967. 20.5 St4  
English summary.
- 97203 STOJANOV, B. Order of change of crops in the rotation of crops system. (Se) Sovremeno Zemjod. 14(4):8. Apr. 1967. S13.S6
- 97204 STOJANOV, B. The rotation of crops, an important agrotechnical measure. (Se) Sovremeno Zemjod. 14(2):6-7. Feb. 1967. S13.S6
- 97205 STOJANOV, B. The rotation of crops and agrotechnical measures. (Se) Sovremeno Zemjod. 14(3):6. Mar. 1967. S13.S6  
Includes tillage and fertilizers.
- 97206 TUIN, W. Weather and work in the period from October 1, 1966 to September 30, 1967. (Du) Neth. Dir. Landbouw Verslag Landbouwkundig Onderz. Noordelijk-Groningen. 1967:9-12. 12 N38Vg  
Netherlands; includes yields for individual field crops.
- 97207 VENKATARATNAM, L. Cropping pattern in Nagarjunasagar is related to land and water use. Indian Farming 17(10):48-50. Jan. 1968. 22 In283  
Soils, irrigation, and rotation of field crops.
- 97208 WESTERN ONTARIO AGRICULTURE SCHOOL. Excerpts from papers given at 1967 farmers week. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:100-161. 64.9 On83
- 97209 YU, I. S., and REE, D. W. Studies on the number of the individuals of plant to be observed in field experiments. The coefficients of variation of some characters in staple field crops. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(1):95-99. Sept. 1967. 22.5 K843  
English summary.

## Cereals

- 97210 ARUNACHALAM, S., and others. ASD. 13 (Arikiravi) — a new paddy strain of Madras State. Madras Agr. J. 54(12):644-645. Dec. 1967. 22 M262  
M. Subbarayalu, T. S. Theetharappan, and P. Pothiraj, joint authors.
- 97211 ASHMAN, R. B., and REED, J. 1967 hybrid popcorn performance trials. Ind. Agr. Exp. Sta. Res. Progr. Rep. 327.23 p. Feb. 1968. 100 In2Res
- 97212 ATANASOVA, I. The penetrometer — a device for determination of wheat strength at early phases of the selection process. (Bu) Rastenievudni Nauk. 4(9):29-36. 1967. 64.8 R18  
English summary.
- 97213 AULDIST, I. H., BATH, J. G., and MCPHERSON, J. B. Higher production on Tungamah wheat farms. J. Agr. [Melbourne] 65(6):235-280, 258. June 1967. 23 V66J
- 97214 BALASOIU, A., STEFANESCU, A., and OPROIU, E. Trials with spring wheat varieties during 1962-1964 at the Brasov experimental station. (Rum) Bucharest. Inst. Cercet. Pentru Cereale Plante Teh. Fundulea. An. Ser. C, Amelior. Genet. Fiziol. Tehnol. Agr. 32:29-37. 1964, pub. 1965. 451. R86  
English summary.
- 97215 BALASUBRAMANIAN, K. M., JAYARAMAN, N., and PURUSHOTHAMAN, G. Preliminary note on the suitability of rice strains for the Parambikulam — Aliyar Project Area. Madras Agr. J. 54(8):438-439. Aug. 1967. 22 M262  
Hybrid yields.
- 97216 BALDWIN, C. S. Past management and present-day corn production. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:117-120. 64.9 On83
- 97217 BALDWIN, C. S. Row width, population, and fertility studies — corn. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:103-106. 64.9 On83
- 97218 BARLEY IMPROVEMENT CONFERENCE. Proceedings, Minneapolis, Minnesota. Jan. 19, 1967. Milwaukee, Wisc., 1967. 77 p. 59.9 M583  
Sponsored by the Malting Barley Improvement Association.
- 97219 BARTELLI, M., and ALTOMONTE, V. Varietal and fertilizer tests on corn in the Lao-Scalea Plain. (It) Raccolto 9(3):39-44. Mar. 1968. 16 R11
- 97220 BAUMAN, L. F., and CRANE, P. L. 1967 performance trials of experimental Dent corn hybrids. Ind. Agr. Exp. Sta. Res. Progr. Rep. 326.24 p. Feb. 1968. 100 In2Res
- 97221 BEAUPERTHUY, P. A. Trial on planting density and distance for corn (Zea mays L.) on savanna soils of Jusepin. (Sp) Jornadas Agron. Mem., 6th Conf., v. 1, paper 18, 20 p. Ref. 1966. S211.J6 1966
- 97222 BHATNAGAR, P. S., and SHARMA, J. C. Heterosis in wheat. Madras Agr. J. 54(8): 404-409. Ref. Aug. 1967. 22 M262
- 97223 BOER, H. TEN. Winter barley. (Du) Neth. Dir. Landbouw Verslag Landbouwkundig Onderz. Noordelijk-Groningen. 1967:17-19. 12 N38Vg  
Performance of some varieties in the Netherlands.
- 97224 BOER, H. TEN. Winter wheat. (Du) Neth. Dir. Landbouw Verslag Landbouwkundig Onderz. Noordelijk-Groningen. 1967:13-15. 12 N38Vg  
Performance of some varieties in the Netherlands.
- 97225 BOEREMA, E. B., and MCDONALD, D. J. Evaluation of sowing methods for establishing rice in southern Australia. Int. Rice Comm. News Lett. 16(3):25-29. Sept. 1967. 59.9 In83N
- 97226 BOLAM, P. Intensive cereal growing. Great Brit. Min. Agr. Fish. Food. Agr. 73(12):562-567. Dec. 1966. 10 G79J

- 97227 BOOTH, A. K. Finds of value from Wairarapa wheat trials. New Zeal. J. Agr. 114(4):57. Apr.1967. 23 N48J  
Varieties.
- 97228 BOSNJAKOVIC, A. The effect of the planting density of corn on its growth and on the quality of performance of equipment. (Se) Novi Sad. Poljopr. Fak. Letop. Naucnih Rad. 10:251-266. Ref. 1966. 106.6 N85  
English summary.
- 97229 CABULEA, I., and others. Results of cultural trials with the early and very early varieties of double hybrid corn HD 100, HD 98, and HD 97 produced at the Turda experiment station. (Rum) Bucharest. Inst. Cercet. Pentru Cereale Plante Teh. Fundulea. An. Ser. C, Amelior. Genet. Fiziol. Tehnol. Agr. 32:241-257. 1964, pub.1965. 451 R86  
C. Grecu, L. Ciorlaus, and L. Roman, joint authors.  
English summary.  
Yields.
- 97230 CEREAL culture in France. (Fr) Bull. Engrais 503:9-32. Jan./Feb.1968. 57.8 B87
- 97231 CHACKO, A. J. Current rice research activities in Kerala state, India. Int. Rice Comm. News Lett. 16(3):40-41. Sept.1967. 59.9 In83N
- 97232 CORNU, A. Moroccan hybrid corns. (Fr) Rev. Int. Prod. Trop. 42(443/444):2-5, 7. Jan./Feb.1967. 286.8 R326
- 97233 CSANADI, J. Careful preparation for rice planting. (Hu) Magyar Mezogazdasag 22(13):22. Mar.29,1967. 19 M27
- 97234 CUNARD, A. C. Maize agronomy. 1. Nutrition and silage. World Crops 19(1):20-27. Ref., p.26-27. Mar.1967. 281.8 W892  
Nutritive value for man and use for silage and the effects of fertilizers and other cultural methods on them.
- 97235 DAVIES, F. F. Performance tests of grain and forage sorghums. Okla. Agr. Exp. Sta. Process. Ser. P-584:19-20. May 1968. 100 Ok4M  
Hybrids and varieties.
- 97236 DICKSON, A. D. Report on quality of barley varieties and selections. Barley Impr. Conf. Proc. Jan.19,1967:41-50. 59.9 M583  
Primarily malting; includes statistics.
- 97237 DIONIGI, A. Genetic possibilities for improving the quality of grain. (It) Tec. Molitoria 19(4):73-83. Ref. Feb.29,1968. 298.8 Se42  
Wheat.
- 97238 DIONIGI, A. Genetics and agronomy for the qualitative improvement of wheat products. (It) Molini Ital. 19(2):44-52. Ref. Feb.1968. 298.8 M73
- 97239 DIVAKARAN, K. Studies on age of seedlings in ragi-Eleusine coracana (Gaertn.). Madras Agr. J. 54(9):458-464. Sept.1967. 22 M262  
Effect of planting age on yields in India.
- 97240 DOBROWOLSKI, W. Present and future role of rye production in Poland. U. S. Joint Publ. 630:21-28. Mar.4,1968. (JPRS 44,573) 173 J663Ste  
Includes cultural methods and yields.  
Translation from Nowe Rolnictwo 1:20-22. Jan.1968.  
Issued by CFSTI.
- 97241 DRUMMOND, W. D. Results of barley variety surveys and acceptable varieties of malting barley for 1967. Barley Impr. Conf. Proc. Jan.19,1967:3-10. 59.9 M583
- 97242 DZIENIA, S. The effect of different stands on winter rye yields. (Pol) Stettin. Wyzsza Roln. Zeszyty Nauk. 25:62-65. 1966, pub.1967. 20.4 St4  
English summary.  
Crop rotations.
- 97243 DZIENIA, S. The effect of the different depths of sowing-time, ploughing and of the height of nitrogenous fertilizer doses on winter rye yield. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:59-62. 1966, pub.1967. 20.5 St4  
English summary.
- 97244 EJIMA, K. A study of direct-sowing rice culture from the viewpoint of paddy rice husbandry in Japan. (Ja) Tokyo. Nat. Inst. Agr. Sci. Bull. Ser. H (Farm Manage. Land Util.) 37:219-258. Ref. Mar.1967. 281.9 C434B
- 97245 ESTLER, M., and STREHLER, A. Harvesting and drying of granular maize. (Ge) Mitt. Deut. Landwirt.-Ges. 82(49):1617-1620. Dec.7, 1967. 18 N39  
In Germany.
- 97246 FATYGA, J. Introduction of systematic cultivation of barley in the Province of Wroclaw. (Pol) Wroclaw Wyzsza Szkola Roln. Zeszyty Nauk. Roln. 21(66):167-179. 1967. 20.5 B75  
English summary.
- 97247 FATYGA, J. The selection of varieties and nitrogen fertilizing of barley. (Pol) Wroclaw Wyzsza Szkola Roln. Zeszyty Nauk. Roln. 21(66):133-155. 1967. 20.5 B75  
English summary.
- 97248 FIDDIAN, W. E. H. Wheat, barley and oat varieties completing primary trials in 1966. Nat. Inst. Agr. Bot. J. 11(1):1-27. 1967. 103 N21J  
Yields in Great Britain.
- 97249 FIDDIAN, W. E. H. Wheat, barley and oat varieties completing primary trials in 1967. Nat. Inst. Agr. Bot. J. 11(1):28-53. 1967. 103 N21J  
Yields in Great Britain.
- 97250 FONTANA N., E. Behavior of grain sorghum hybrids at the Araure Experimental Station. (Sp) Jornadas Agron. Mem., 6th Conf., v.1, paper 21,8 p. 1966. S211.J6 1966
- 97251 FOOTE, W. H. Progress in development of improved malting barley varieties for the West - two row. Barley Impr. Conf. Proc. Jan.19,1967:24-27. 59.9 M583  
Northwestern states; includes statistics.
- 97252 FOSTER, A. E. Hybrid barley - a practical appraisal of the potential. Barley Impr. Conf. Proc. Jan.19,1967:36-41. 59.9 M583
- 97253 FUENTES, F. D. Testing of rice varieties for resistance to rice blast. Researcher 3(2):88-92. Ref. Aug.1967. 475 Sci237 Suppl.
- 97254 GALIEN, M. VAN DER, and KOOPMANS, T. Study of grain varieties. (Du) Neth. Provinc. Dir. Rijkslandbouwvoorlichting Friesland Voorlichting Onderz. 1966:58-61. SB183.N4A3  
Wheat and barley.
- 97255 GANDHI, S. M., and BHATNAGAR, M. P. Kharchia-65 a new rust-resistant wheat for saline areas. Indian Farming 17(12):7-8, 26. Mar.1968. 22 In283
- 97256 GARKAVY, P. F., and BASHELKHANOVA, V. B. The manifestation of heterosis in spring barley hybrids as affected by growing conditions. (Rus) Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina Dokl. 5:2-4. May 1967. 20 Ak1
- 97257 GRABOUSKI, P. New proso millet developed for short-season replacement crop. Nebr. Univ. Coll. Agr. Home Econ. Quart. Serving Farm Ranch Home 11, i.e.14(3):9. Fall 1967. 100 N27N  
Yields in Nebraska from new variety, Panhandle.
- 97258 GRAVES, C. R., SANDERS, K. B., and ODOM, J. Barley varieties and soil acidity on the Cumberland Plateau. Tenn. Farm Home Sci. Progr. Rep. 65:10-11. Jan./Mar.1968. 100 T25F  
Yields.
- 97259 GREBENNIKOV, P. E., and GREBENNIKOV, V. G. Reaction of winter wheat varieties to cultural practices and irrigation. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 5:13-17. May 1967. 20 V633  
English summary.
- 97260 GRIGNAC, P. Technical problems of French hard wheat production. (Fr) Paris. Ecole Franc. Meun. Bull. Anciens Eleves 218:67-70. Mar./Apr.1967. 298.9 P21  
Varieties and quality.
- 97261 GUGUVCHEVSKI, M. The planting of wheat. (Se) Sovremeno Zemjod. 13(7):2-4. July 1966. S13.S6



- 97262 GUGUVCHEVSKI, M. The planting of wheat. (Se) *Sovremeno Zemjod.* 13(10):2-5. Oct.1966. S13.S6
- 97263 HAGEMAN, R. H., LENG, E. R., and DUDLEY, J. W. A biochemical approach to corn breeding. *Advances Agron.* 19:45-86. Ref. 1966. 30 Ad9  
Heterosis in growth and yield.
- 97264 HAM, Y. S., and others. New barley varieties "Yeugi" and "Hang-mi." (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(1):81-87. Sept.1967. 22.5 K843  
C. H. Cho, D. W. Ree, C. S. Yang, and B. H. Hong, joint authors.  
English summary.
- 97265 HARRINGTON, F. J. Which break crop? *Agr. Northern Ireland* 42(9):294-297. Jan.1968. 256.13 Ag82M  
Considers oil seed rape and field beans as a break crop for continuous cereal growing.
- 97266 HASHIMOTO, T., and TAKEUCHI, T. Studies on the non-preparation sowing of Italian rye-grass on paddy field in snowy region. Liming before rice planting and sowing germinant seed of Italian ryegrass. (Ja) *Jap. Soc. Grassland Sci. J.* 13(1):19-25. Ref. May 1967. 60.9 J27  
English summary.  
Rice and Italian ryegrass yields in Japan.
- 97267 INTERNATIONAL RICE COMMISSION. Report of the tenth session held at New Delhi, 3-8 October 1966. Rome, Food and Agriculture Organization of the United Nations, 1967. 44 p. 59.9 In83
- 97268 ITO, M., and SOGA, Y. Precocity of wheat by early sowing. (Ja) *Shikoku Agr. Exp. Sta. Bull.* 17:47-69. Ref. Sept.1967. 107.6 Z4  
English summary.
- 97269 JACK, M. Extracting the second \$ from corn. *Ontario Soil Crop Impr. Ass. Addresses Proc.* 1967:145-146. 64.9 On83
- 97270 JEFFREYS, M. D. W. Pre-Columbian maize in Southern Africa. *Nature* 215(5102):695-697. Ref. Aug.12,1967. 472 N21
- 97271 JENNINGS, P. R., and DE JESUS, J. Studies on competition in rice. I. Competition in mixtures of varieties. *Evolution* 22(1):119-124. Ref. Mar.1968. 443.8 Ev62  
In Philippines.
- 97272 JODON, N. E. Should rice varieties be composite or pure? *La. Ass. Agron. Proc.* 8:15-28. Ref. 1967. 4 L933  
Hybrid yields.
- 97273 JOHNSON, L. P. V. More rice in monsoon Asia. *Alberta Univ. Fac. Agr. Agr. Bull.* 7:10-11. Feb.1968. 101 AL1A  
Yield records of special varieties.
- 97274 JOHNSON, V. A., SCHMIDT, J. W., and MATTERN, P. J. Hybrid wheat in the United States. *Qualitas Plant. Mater. Veg.* 14(3):193-211. Ref. Apr.28,1967. 64.8 M41
- 97275 JONES, I. T., and HAYES, J. D. The effect of seed rate and growing season on four oat cultivars. I. Grain yield and its components. *J. Agr. Sci. [London]* 69(1):103-109. Aug.1967. 10 J822
- 97276 JOSEPHSON, L. M., and others. Can we find corn hybrids resistant to the Southwestern corn borer? *Tenn. Farm Home Sci. Progr. Rep.* 65:18-20. Jan./Mar.1968. 100 T25F  
J. Arnold, S. E. Bennett, and J. Connell, joint authors.  
*Zeadiatraea grandiosella*.
- 97277 KIM, D. S., and others. Studies on the cropping system of late seasonal culture in the southern part. I. Studies on the spacing of planting under late seasonal culture. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(1):59-63. Sept.1967. 22.5 K843  
S. B. Ahn, H. Heu, and S. P. No, joint authors.  
English summary.  
Rice.
- 97278 KIM, D. S., and others. Studies on the cropping system of late seasonal culture in the southern part. II. Studies on the period of nursery bed under late seasonal culture. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(1):65-69. Sept.1967. 22.5 K843  
S. B. Ahn, H. Heu, and S. P. No, joint authors.  
English summary.  
Rice.
- 97279 KIM, D. S., and others. Studies on the cropping of late seasonal culture in the southern part. III. Studies on the late transplanting under ordinary and late seeding. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(1):71-74. Sept.1967. 22.5 K843  
S. B. Ahn, H. Heu, and S. P. No, joint authors.  
English summary.
- 97280 KIM, I. H., and LEE, D. K. The introduced naked-barley variety, "Sedohataka." (Ja) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(1):89-90. Sept.1967. 22.5 K843  
English summary.
- 97281 KIM, I. H., LEE, D. K., and PARK, K. Y. The varietal yield trials of spring naked barley. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(1):91-93. Sept.1967. 22.5 K843  
English summary.
- 97282 KIRBY, E. J. M. The effect of plant density upon the growth and yield of barley. *J. Agr. Sci. [London]* 68(3):317-324. Ref. June 1967. 10 J822  
Tests by varieties.
- 97283 KOPCZYNSKI, J. The five-year observation on companion crops' cultivation with winter and summer cereals on light soils in Pomerania. (Pol) *Stettin. Wyzsza Szkola Roln. Zeszyty Nauk.* 25:127-131. 1966, pub.1967. 20.5 St4  
English summary.
- 97284 KORNETI, D. The selection of hybrid corn for planting. (Se) *Sovremeno Zemjod.* 13(4):2-3. Apr.1966. S13.S6
- 97285 KORNETI, D. The selection of hybrid corn for planting and the correct planting density. (Se) *Sovremeno Zemjod.* 14(4):7. Apr.1967. S13.S6
- 97286 KRONSTAD, W. E., and KLOCK, G. O. Field corn variety trial. *Oreg. Agr. Exp. Sta. Spec. Rep.* 254:5-9. Apr.1968. 100 Or3M
- 97287 KURKURIN, I. Experience with growing winter wheat on irrigated soils. (Rus) *Gidrotekh. Melior.* 11:84-89. Nov.1967. 290.8 G362
- 97288 KWON, S. M., and KANG, J. C. Studies on the cropping system in relation to the early and late cultivation of low-land rice. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(1):75-80. Ref. Sept.1967. 22.5 K843  
English summary.
- 97289 LABOUNEK, V. The cultivation of barley in the past and today. (Cz) *Uroda* 16(5):164-166. May 1968. 64.8 Z12
- 97290 LAU, D., and NOVER, I. Experience and results in breeding for resistance to yellow rust (*Puccinia striiformis* West.) in spring barley. (Ge) *Z. Pflanzenzucht.* 56(3):278-298. Ref. Nov.1967. 450 Z36  
English summary.
- 97291 LAUBSCHER, F. X., and others. The significance of genetic variability in wheat cultivars. I. S. Afr. *J. Agr. Sci.* 10(3):631-640. Ref. Sept.1967. 24 Su3  
J. P. Jordaan, F. P. Cillie, J. C. Theron, B. E. Eisenberg, J. M. Stevens, and T. C. Lochner, joint authors.
- 97292 LEJEUNE, A. J. The current status of Dickson and Conquest. *Barley Impr. Conf. Proc.* Jan.19,1967:11-12. 59.9 M583  
Malting barley.
- 97293 LINDEGAARD, J. Kinds of spring grains. (Da) *Landbonyt* 22(2):47-50. Feb.1968. 11 L2322  
Wheat and oats in Denmark.
- 97294 LISOVSKII, G. M., and VEDROV, N. G. Selecting wheat hybrids according to embryonic roots. (Rus) *Selek. Semenobodstvo* 1:67-68. Jan./Feb.1968. 61.9 Se5
- 97295 LOGSDAIL, D. E. The Ontario corn competition - what we can learn. *Ontario Soil Crop Impr. Ass. Addresses Proc.* 1967:84-87. 64.9 On83
- 97296 LOUISIANA AGRICULTURAL EXPERIMENT STATION. 59th annual progress report, Rice Experiment Station, Crowley, Louisiana, 1967. n.p., 1967? 262 p. 100 L93  
U. S. Department of Agriculture, cooperating.

- 97297 LUNDQVIST, K. E. Can the amount of seeds for planting be reduced? (Sw) Vastmanlands Lans Hushallningssallsk. Tidskr. 1:6-9. 1967. 11 V44T  
Wheat, oat and barley yields.
- 97298 MAHADEVAPPA, M. Choice of type of cross and predicting hybrid performance in pearl millet (*Pennisetum typhoides* Staff & Hubb.). Madras Agr. J. 54(9):452-457. Sept. 1967. 22 M262
- 97299 MARTIRANO, F. Corn culture and livestock raising in the Province of Cosenza. (It) Raccolto 9(3):63-65. Mar. 1968. 16 R11
- 97300 MCLAREN, A. D. Corn production practices. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:100-102. 64.9 On83
- 97301 MEHTA, T. R. Prospects of wheat cultivation in Andhra Pradesh. Andhra Agr. J. 14(3):97. 1967. 34.2 An4
- 97302 MEILA, T., and MARJANEN, H. Svenno spring wheat under Finnish conditions. (Fi) Ann. Agr. Fenn. 6(4):159-173. Ref. 1967, pub. 1968. 20 An7  
English summary.
- 97303 MITTELHOLZER, A. S. Results of trials on wheat and barley carried out by the Mucuchies Experimental Station in 1964. (Sp) Agron. Trop. [Maracay] 16(4):311-316. Oct./Dec. 1966. 26 Ag87  
English summary.
- 97304 MIU, T. S., CHANG, L. C., and CHANG, C. M. A study on the influences of environmental factors to pure line selection from hybrid population of rice. 2. The analysis of variance on grain yields of different rice varieties selected at different localities. (Ch) Taiwan Agr. Res. J. 16(1):1-30, map. Mar. 1967. 22.5 Ag823  
English summary.
- 97305 MROZ, S. Problems of winter grains regioning. (Pol) Nowe Roln. 16(4):8-9. 1967. 20.5 N86
- 97306 MUNOZ, M. Corn yield varietal tests. (Sp) Jornadas Agron. Mem., 6th Conf., v.1, paper 19, 17 p. 1966. S211.J6 1966
- 97307 MURESAN, T., COSMIN, O., and BICA, N. Results of field trials at the experimental plots of the Research Institute for Cereals and Technical Plants [Institutul de Cercetari pentru Cereale si Plante Tehnice] with new corn hybrids. (Rum) Probl. Agr. [Bucharest] 20(3):4-14. Ref. Mar. 1968. 21 R862  
English summary.  
Includes yields.
- 97308 NEWMAN, B. E., and MASON, L. The response of a prolific corn hybrid to varying plant populations and nitrogen levels. La. Ass. Agron. Proc. 8:29-35. 1967. 4 L933  
Yields.
- 97309 NORTHERN IRELAND. MINISTRY OF AGRICULTURE. ADVISORY SERV. Varieties of cereals. Northern Ireland. Min. Agr. Adv. Serv. Leaf. 96, 8 p. Apr. 1968. 10 N81
- 97310 NOVAK, I., and POPOVIC, B. Results of competition of cooperatives for high yields of corn. (Se) Glasnik 12(3):34-36. 1968. 280.28 Z13
- 97311 PAK, K., and STEPANETS, I. Rice culture on Solonetz soils. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 4:20-21. Apr. 1967. 281.8 Se4  
Kalmyk ASSR.
- 97312 PALANISAMY, S., SIVASUBRAMANIAM, S., and KALYANIKUTTY, T. Time of sowing and its effect on two medium duration varieties of paddy rice. Madras Agr. J. 55(3):120-124. Ref. Mar. 1968. 22 M262  
Effect on yield.
- 97313 PANEL discussion - corn production - today's concept. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:67-69. 64.9 On83
- 97314 PARTHASARATHY, N. Future trends in the development of new varieties of rice. Int. Rice Comm. News Lett. 16(3):32-39. Sept. 1967. 59.9 In83N
- 97315 PASOV, V. M., and MORDINOVA, M. N. Quantitative estimation of cultivated grasses development conditions. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 5:103-107. 1967. 442.8 N22  
Grain crops.
- 97316 PASS, B., SMITH, E., and EDWARDS, L. Small grains variety research. Okla. Agr. Exp. Sta. Process. Ser. P-584:15-18. May 1968. 100 Ok4M  
Barley, oats, and wheat.
- 97317 PATIL, M. D. A study of high yielding varieties in Maharashtra State. Agr. Situation India 22(5):517-521. Aug. 1967. 281.9 In23  
Grains.
- 97318 PAWLUS, M. The yields of winter wheat after the mixtures of spring vetch for seeds. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:161-163. 1966, pub. 1967. 20.5 St4  
English summary.
- 97319 PETERSON, G. A. Progress in development of improved malting barley varieties for the Midwest - North Dakota. Barley Impr. Conf. Proc. Jan. 19, 1967:13-15. 59.9 M583.  
Includes statistics.
- 97320 PHILLIPS, S. H., FINKNER, V. C., and TUTT, C. R. Barsoy, a new early winter barley variety. Ky. Univ. Ext. Leaf. 313, 4 p. May 1968. 275.29 K415Le
- 97321 PHILLIPSEN, W. L. Wageningen; booming rice colony in Surinam. Foreign Agr. 6(28):6-7. July 8, 1968. A281.9 F76Fo
- 97322 PIACCO, R. The weather for rice in Vercelli (Italy) from 1941 to 1960. (It) Riso 16(2):101-111, map. June 1967. 59.8 R49  
English summary.
- 97323 PIECH, M. The comparison of qualitative grain characteristics of the parental varieties and intervarietal hybrids of spring wheat. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:223-225. 1966, pub. 1967. 20.5 St4  
English summary.
- 97324 PIECH, M., and MALCHEREK, M. The effect of the kind of companion-crop and cover crop as the forecrop for spring wheat on its baking quality. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:228-232. 1966, pub. 1967. 20.5 St4  
English summary.
- 97325 PIOVARCI, A. Results of the evaluation of combined capacity of self-pollinated corn lines (Cz) Sb. UVTI (Ustav Vedeckotech. Inform.) Genet. Slechteni 3(3):203-212. Ref. June 1967. QH431.A1S25  
English summary.  
Yielding capacity of hybrids.
- 97326 PLATE, H. Plant population and soil fertility. Agway Coop. 4(2):6-7. Mar. 1968. 280.28 Ag9  
Corn.
- 97327 PORTERES, R. First European illustrations of corn (*Zea mays* L.). (Fr) J. Agr. Trop. Bot. Appl. 14(10-11):500-501. Oct./Nov. 1967. 26 J822
- 97328 PRICE, P. B. Progress in development of improved malting barley varieties for the Midwest - South Dakota. Barley Impr. Conf. Proc. Jan. 19, 1967:19-23. 59.9 M583  
Includes statistics.
- 97329 PROCTOR, J. M., and MANN, G. C. N.A.A.S./N.I.A.B. trials of winter wheat varieties, 1958-60. Nat. Inst. Agr. Bot. J. 11(1):62-79. 1967. 103 N21J  
Yields in Great Britain, National Agricultural Advisory Serv.
- 97330 RAO, G. M. The breeding behaviour of pollen sterility in rice hybrids. Andhra Agr. J. 14(2):36-46. Ref. 1967. 34.2 An4
- 97331 RAO, L. V., RAO, K. V. R., and PARDHASA RADHY, A. V. N. 13 - a high yielding Striga resistant strain of Jonna. Andhra Agr. J. 14(3):67-71. 1967. 34.2 An4  
In India.
- 97332 RASMUSSEN, D. C. Progress in development of improved malting barleys for the Midwest - Minnesota. Barley Impr. Conf. Proc. Jan. 19, 1967:15-19. 59.9 M583  
Includes statistics.



- 97333 RICE TECHNICAL WORKING GROUP, 11, LITTLE ROCK, ARKANSAS, 1966. Proceedings. Berkley, California, 1967. 81 p. SB191.R5R52  
Agricultural Experiment Stations and Extension Services of Arkansas, California, Louisiana, Mississippi, and Texas; and U. S. Department of Agriculture, cooperating.  
Abstracts of papers.  
Bibliography, p. 73-81.  
Culture.
- 97334 ROBERTSON, W. K., and LUNDY, H. W. New cultural practices are increasing corn yields. Sunshine State Agr. Res. Rep. [Fla. Sta.] 13(2): 10-11. Mar. 1968. 100 F66Su
- 97335 RUMBLE, J. T. Which variety of oat? Dairy-farming Dig. 15(1):23-24. Jan./Feb. 1968. 44.8 D1443
- 97336 RUSMINI, B. A trial of F1 wheat hybrids. (It) Sementi Elette 13(2/3):134-139. Ref. Mar./June 1967. 61.8 Se53  
English summary.
- 97337 SAGE, G. C. M. How about hybrids to boost yields? Arable Farmer 1(3):4-6. June 1967. S3.A7  
Corn and sorghum.
- 97338 SAMMETA, K. P. V., and RAO, M. V. Evaluation of strains of wheat developed through pedigree and backcross methods. Indian J. Genet. Plant Breeding 26(3):327-336. Ref. Nov. 1966. 64.8 In2  
Yields.
- 97339 SARKIZOV, M. Cover crops as predecessors to irrigated corn. (Bu) Rastenievudni Nauk. 4(9):37-44. Ref. 1967. 64.8 R18  
English summary.
- 97340 SASAKI, M., and others. Effect of growing location and mass selection in the good quality wheat breeding. I. Grain yield and agronomic characters. (Ja) Hokkaido Nat. Agr. Exp. Sta. Res. Bull. 91:1-13. Ref. Mar. 1967. 107.6 H68  
S. Osanai, S. Ozeki, K. Noro, H. Araki, and H. Ito, joint authors.  
English summary.
- 97341 SASAKI, M., and others. Effect of growing location and mass selection in the good quality wheat breeding. II. Quality of grain characters and wheat flour. (Ja) Hokkaido Nat. Agr. Exp. Sta. Res. Bull. 91:14-25. Ref. Mar. 1967. 107.6 H68  
S. Osania, S. Ozeki, K. Noro, H. Araki, and M. Maitani, joint authors.
- 97342 SASAMURA, S., ONO, I., and KAMEI, H. Drill planting for labour saving and yield increasing in upland rice culture (preliminary report). (Ja) Utsunomiya Univ. Coll. Agr. Bull. 6(3):13-24. Mar. 1967. 107.6 Ut7B  
English summary.
- 97343 SCHAFER, J. F., and others. Jefferson winter barley. Ind. Agr. Exp. Sta. Res. Progr. Rep. 328.2 p. Mar. 1968. 100 In2Res  
F. L. Patterson, R. M. Caldwell, and L. E. Compton, joint authors.  
U. S. Department of Agriculture, cooperating.
- 97344 SCHALLER, C. W. Progress in development of improved malting barley varieties for the West—six-row. Barley Impr. Conf. Proc. Jan. 19, 1967:27-32. 59.9 M583.  
Includes statistics.
- 97345 SCHRAGE, R. Oats. (Du) Neth. Dir. Landbouw Verslag Landbouwkundig Onderz. Noordelijk-Groningen. 1967:21-23. 12 N38Vg  
Performance of some varieties in the Netherlands.
- 97346 SCHRAGE, R. Summer barley. (Du) Neth. Dir. Landbouw Verslag Landbouwkundig Onderz. Noordelijk-Groningen. 1967:19-21. 12 N38Vg  
Performance of some varieties in the Netherlands.
- 97347 SCHRAGE, R. Summer wheat. (Du) Neth. Dir. Landbouw Verslag Landbouwkundig Onderz. Noordelijk-Groningen. 1967:15-17. 12 N38Vg  
Performance of some varieties in the Netherlands.
- 97348 SECHLER, D., CHAPMAN, W. H., and LUKE, H. H. Florida 501 oats. Fla. Agr. Exp. Sta. Circ. S-185.10 p. Mar. 1968. 100 F66Ci  
New variety.
- 97349 SHANMUGASUNDARAM, A., and others. Note on a new dwarf variety ofumbu. Madras Agr. J. 55(3):145-146. Mar. 1968. 22 M262  
R. Rajasekaran, S. Selvaraj, and T. G. Ramamurthi, joint authors.
- 97350 SHARROCK, J. N., and GREGG, A. S. N.A.A.S./N.I.A.B. spring wheat trials, 1959-61. Nat. Inst. Agr. Bot. J. 11(1):54-61. 1967. 103 N21J  
Yields and varieties in Great Britain, National Agricultural Advisory Serv.
- 97351 SHULMEISTER, K., and ANIKEEV, E. Legumes in the rotation of crops, under dry climatic conditions in the Volga River region. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 10: 18-19. Oct. 1967. 281.8 Se4  
Wheat culture.
- 97352 SHULYNDIN, A. F., and SURKOVA, L. I. The development of No. 3 earlymaturing tetraploid corn. (Rus) Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina Dokl. 5:11-13. May 1967. 20 Ak1
- 97353 SILC, J. Corn hybrids for central and western Slovenia. (Sl) Soc. Kmetijstvo Gozdarstvo 18 (2):35-37. Feb. 22, 1967. 21.5 So14  
Tests and yields.
- 97354 SILVEY, V. Statistical aspects of the design and analysis of N.I.A.B. cereal trials. Nat. Inst. Agr. Bot. J. 11(1):91-103. 1967. 103 N21J  
In Great Britain.
- 97355 SINGH, B. V., and PRATAP, R. Correlation studies in Indian wheat. Madras Agr. J. 54(9):487-488. Sept. 1967. 22 M262  
Yield and yield components.
- 97356 SISLER, W. W. Research on improvement of malting barley in Canada. Barley Impr. Conf. Proc. Jan. 19, 1967:68-73. 59.9 M583  
Includes variety statistics.
- 97357 SKOPIK, P. On the activity of the Grain Research Institute [Vyzkumny Ustav Obil'marsky] at Kromeriz. (Cz) Prague. Vyzk. Ustav Zemed. Vestn. 13(12):561-569. 1966. 19.5 C333
- 97358 SMITH, H. V., and DOESCHER, C. O. Corn growing practices, 1965. U. S. D. A. Statist. Bull. 418.18 p. 1968. 1 Ag84St
- 97359 SOGA, Y., and KATAYAMA, T. On the malting quality of the two-rowed barley in the warmer region of Japan. (Ja) Shikoku Agr. Exp. Sta. Bull. 17:71-90. Sept. 1967. 107.6 Z4  
English summary.
- 97360 SOUTHON, T. F. 500 acres set aside for Te Puke rice crops. New Zeal. J. Agr. 114(3):41-45. Mar. 1967. 23 N48J  
Includes costs and returns.
- 97361 SRIDHARAN, C. S., SITARAMAN, P., and THANDAVARAYAN, K. Note on performance of hybrid sorghum. Madras Agr. J. 54(12):639-640. Dec. 1967. 22 M262  
In India.
- 97362 SRINIVASAN, V., and others. Trial of paddy strains from Central Rice Research Institute, Cuttack. Madras Agr. J. 54(1):42-43. Jan. 1967. 22 M262  
S. Manamohanlal, R. H. Krishnan, and T. G. Soundararajan, joint authors.
- 97363 SRINIVASULU, K., and RAJAGOPALA REDDY, V. MCM.2-A short duration saline and alkaline tolerant rice strain from Andhra Pradesh. Andhra Agr. J. 14(3):94-95. 1967. 34.2 An4
- 97364 STEVENS, M. Two crops of grain sorghum per year? La. Ass. Agron. Proc. 8:1-3. 1967. 4 L933  
In Louisiana.
- 97365 STOJKOVIC, L. The monoculture of corn and the effect of weather on yields. (Se) Arh. Poljoprivredne Nauk. 20(69):3-12. 1967. 21.5 Y9  
German summary.
- 97366 STOSKOPF, N. C. Increasing yields of winter wheat. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:41-42. 64.9 On83
- 97367 SUNESON, C. A., and FEATHER, J. T. Rapida, a new oat crop for California. Calif. Agr. 21 (3):2. Mar. 1967. 100 C12Cag

- 97368 TABORDA, F. Four years of observations on grain sorghum in Zulua. (Sp) Jornadas Agron. Mem., 6th Conf., v.1, paper 1,32 p., map. Ref. 1966. S211.J6 1966
- 97369 TAKEUCHI, J., HIRONO, S., and URANO, K. Maize in Cambodia. (Ja) Agr. Asia 5(7):10-21. July 1967. 22.5 Aj5  
Culture.  
Includes discussion.
- 97370 TANAKA, A. On the way toward development of tropical rice culture. (Ja) Agr. Asia 5(7): 22-25. July 1967. 22.5 Aj5
- 97371 THIPPHAWONG, B. Cereal varieties for 1967. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:115-116. 64.9 On83  
Wheat, barley, oats.
- 97372 TRUJILLO, P. M. Performance of small grain varieties at the Espanola Valley Branch Station. N. Mex. Agr. Exp. Sta. Res. Rep. 141,6 p. May 1968. 100 N465R
- 97373 TYUMYAKOV, N. Forgotten pages of the national history of breeding. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 8:24-28. Ref. Aug. 1967. 281.8 Se4  
Contribution of G. K. Meister to grain breeding in the USSR.
- 97374 WALIGORSKA, A. The maize cultivation of mixed seedings in main-crop. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:163-166. 1966, pub. 1967. 20.5 St4  
English summary.  
Corn interplanting with sunflowers and legumes.
- 97375 WALIGORSKA, A. The maize cultivation of mixed seedings in secondary crop. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:166-169. 1966, pub. 1967. 20.5 St4  
English summary.  
Corn interplanting with sunflowers and legumes.
- 97376 WANG, M. K. A study on yield and components of yield in rice. (Ch) Taiwan Agr. Res. J. 16 (1):31-34. Mar. 1967. 22.5 Ag823  
English summary.
- 97377 WESSELS, W. H. Which maize hybrid answers best? Farming S. Afr. 43(3):33-35. June 1967. 24 So842  
For cultivation in specific regions.
- 97378 WIIDAKAS, W. Adapted corn hybrids are more dependable. N. Dak. Farm Res. 25(1):13-16, map. Sept./Oct. 1967. 100 N813B  
Yields.
- 97379 WILTEN, W. Field trials 1967. (Du) Nat. Inst. Brouwergerst, Mout Bier-T.N.O. Jaarb. 32: 57-78. 1968. 390.9 N21  
English summary.  
In malting barley varieties.
- 97380 WRIGHT, B. C. Water management: the key to increased production in new dwarf wheats. Indian Farming 17(10):28-30. Jan. 1968. 22 In283  
Planting and irrigation.
- 97381 WRIGHT, H. Increasing yields of barley. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:43-45. 64.9 On83
- 97382 WYOMING. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Small grain. Wyo. Univ. Ext. [4-H Club Circ.] GR-5-67,7 p. June 1967. 275.29 W99Fc
- 97383 YOUNG, F. P., TENG, Y. C., and HSU, T. H. Comparative studies on the effect of selection in hybrid population of rice under different levels. (Ch) Taiwan Agr. Res. J. 16(1):35-41. Mar. 1967. 22.5 Ag823  
English summary.
- 97384 ZEMAN, L., and BRANTLEY, B. There's a revolution brewing in wheat production. Big Farmer 40(2):12-13, 16, 18. Spring 1968. 58.8 B46  
Culture.
- 97385 ZSCHEISCHLER, J. Report. Study trip through France by the German Corn Committee, September 27 to 30, 1966. (Ge) Bayer. Landwirt. Jahrbuch 44(4):500-509. 1967. 18 L24  
Study of corn culture in France.
- 97386 ZUBRISKI, J. C. Research on causes of high protein barley. Barley Impr. Conf. Proc. Jan. 19, 1967:51-63. 59.9 M583  
Malting, in North Dakota.

## Fiber Crops

- 97387 ABDEL BARY, A. A., and BISHR, M. A. Alexandria 2, a new strong Egyptian cotton. Empire Cotton Growing Rev. 44(2):114-116. Ref. Apr. 1967. 72.8 Em7
- 97388 ANNAPPAN, R. S., BOOMINATHAN, H., and KAMALANATHAN, S. Past, present and future of desi (G. arboreum) cottons in Madras State. Madras Agr. J. 54(9):476-481. Sept. 1967. 22 M262  
Varieties, yields, and fiber quality.
- 97389 BISHR, M. A., and ABDEL BARY, A. A. Effect of selection within selfed lines on yield and other fibre properties in Egyptian cotton, Giza 45. Empire Cotton Growing Rev. 44(3):184-189. Ref. July 1967. 72.8 Em7
- 97390 BOZA BARDUCCI, T. New developments in the field of cotton breeding for disease resistance; work done in Peru. Seminar Cotton Prod. Res. Cotton Breed. Dis. Resist. Contr. Dis. 1966:7-16. Ref. SB608.C8S4
- 97391 BRASHEARS, A. D., KIRK, I. W., and HUDSPETH, E. B. Effects of row spacing and plant population on double-row cotton. Tex. Agr. Exp. Sta. MP-872,7 p. Feb. 1968. 100 T31M  
Yields.
- 97392 BUTANY, W. T., SINGH, M., and MEHRA, R. B. Interrelationships between some characters in Hirsutum cotton. Indian J. Genet. Plant Breeding 26(3):262-268. Ref. Nov. 1966. 64.8 In2  
Fiber quality in India.
- 97393 CHAPAU, A. Type heredity studies of fertile branches of fine fiber cotton hybrids. (Rus) Akad. Nauk Turkm. SSR Izv. Ser. Biol. Nauk 3:70-73. 1967. 442.9 Ak123  
In U.S.S.R.
- 97394 CHI, C. Y., and others. Study of the effect on irrigation and supplying additional amount of fertilizers in growing stage of jute. (Ch) Agr. Ass. China J. (n.s.) 57:62-71. Mar. 1967. 22.5 Ag862  
H. T. Ch'u, Y. L. Li, and C. C. Tai, joint authors.  
Taiwan.
- 97395 GURZHII, E. S., and MEREZKO, V. S. The hemp variety Poltava 3. (Rus) Len Kono- plya 12:33. 1967. 73.8 L542
- 97396 HASAN, W. Chotanagpur farmers should try cotton with groundnut for more cash. Indian Farming 17(12):9-13. Mar. 1968. 22 In283
- 97397 HRISTOV, S., and KOVACEV, S. Production of quality cotton seeds for planting. (Se) Sovremeno Zemjod. 14(2):3-4. Feb. 1967. S13.S6
- 97398 KAMALANATHAN, S. A selection index for lint yield in cotton (G. arboreum L.). Madras Agr. J. 54(12):612-618. Dec. 1967. 22 M262  
In India.
- 97399 LAGIERE, R. Observations on plant breeding for disease resistance. Seminar Cotton Prod. Res. Cotton Breed. Dis. Resist. Contr. Dis. 1966:21-24. SB608.C8S4  
Cotton; Africa.
- 97400 LAI, M. L., YANG, C. C., and CHING, P. S. Introduction and selection of the dual-purpose varieties of sunn hemp and their fiber extraction and paper manufacturing experiments. (Ch) Taiwan Agr. Quart. 3(2):34-46. Ref. June 1967. S19.T3  
English summary.
- 97401 LAWES, D. A. Crop husbandry and the yield of cotton in Northern Nigeria. Empire Cotton Growing Rev. 45(1):1-16. Ref. Jan. 1968. 72.8 Em7
- 97402 LICHEV, S. Technological properties of cotton as affected by farm operations. (Bu) Rastenievudni Nauk. 4(10):65-73. Ref. 1967. 64.8 R18  
English summary.  
Culture in Bulgaria.
- 97403 MAMEDOV, K. Third generation cotton hybrid characteristics obtained by various methods of foreign pollination. (Rus) Akad. Nauk Turkm. SSR. Izv. Ser. Biol. Nauk 3:8-13. Ref. 1967. 442.9 Ak124



- 97404 MATHUR, B. N., SINGH, V. S., and AGRAWAL, N. K. Three steps to double cotton yields in Rajasthan. *Indian Farming* 18(1):11-14. Apr. 1968. 22 In283  
Fertilizers, seed rate, and insecticides.
- 97405 MATTHEWS, G. A., MCKINLEY, D. J., and TUNSTALL, J. P. Seed and lint quality of sprayed and unsprayed cotton in Malawi. *Empire Cotton Growing Rev.* 45(1):27-35. Ref. Jan. 1968. 72.8 Em7
- 97406 MILLER, P. A., and RAWLING, J. O. Selection for increased lint yield and correlated responses in Upland cotton, *Gossypium hirsutum* L. *Crop Sci.* 7(6):637-640. Nov./Dec. 1967. 64.8 C883
- 97407 MUNRO, J. M. Controls in a series of field experiments. *Empire Cotton Growing Rev.* 45(1):42-52. Jan. 1968. 72.8 Em7
- 97408 PACHECO G., J. J. Effects of misses on yields of cotton on experimental parcels. (Sp) *Jornadas Agron. Mem.*, 6th Conf., v.1, paper 2, 15 p. 1966. S211.J6 1966.  
Planting experiments.
- 97409 PARK, J. M., CHUNG, K. Y., and KANG, K. H. Studies on the variety improvement by the gamete selection in hemp. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(1):101-111. Ref. Sept. 1967. 22.5 K843  
English summary.
- 97410 PEELER, C. H. Production of kenaf and other soft fibres in Kenya. *East. Afr. Agr. Forest. J.* 33(2):139-144. Ref. Oct. 1967. 24 Ea74
- 97411 PELLICER, J. Modern programs of cotton crossing. (Sp) Cent. Algodonero Nac. Circ. Inform. 69:3-4. May/June 1967. 281.3729 C33
- 97412 PRESLEY, J. T. Current status of breeding for disease resistance in cotton in the United States. Seminar Cotton Prod. Res. Cotton Breed. Dis. Resist. Contr. Dis. 1966:1-6. Ref. SB608.C8S4
- 97413 RAJAMANI, A., and others. A comparative study of Lakshmi cotton and Karunganni. 7. *Madras Agr. J.* 54(1):41. Jan. 1967. 22 M262  
D. S. Aaran, R. S. Annappan, and T. B. K. Rao, joint authors.  
Varieties.
- 97414 RIGGS, T. J. Response to modal selection in upland cotton in northern and eastern Uganda. *Empire Cotton Growing Rev.* 44(3):176-183. Ref. July 1967. 72.8 Em7
- 97415 RIJKS, D. A. Optimum sowing date for yield: a review of work in the BP52 cotton area of Uganda. *Empire Cotton Growing Rev.* 44(4):247-256. Oct. 1967. 72.8 Em7
- 97416 ROZHDESTVENSKII, M. N., and AKBAROV, S. A. Experiments with concentrated crops in the cotton-corn crop rotation. (Rus) *Khlopkovodstvo* 12:16-17. Dec. 1967. 72.8 K522
- 97417 SANTHANAM, V. Problems and prospects in cotton breeding in India. *Madras Agr. J.* 54(9):445-452. Sept. 1967. 22 M262  
Yields, fiber quality, and seed oil content.
- 97418 SEMINAR ON COTTON PRODUCTION RESEARCH, LIMA, 1966. Cotton breeding for disease resistance and the control of diseases. Washington, Secretariat, International Cotton Advisory Committee, 1966. 75 p. Ref. SB608.C8S4
- 97419 SUN, I. M., LIN, Y., and YANG, C. B. Varietal improvement of cotton in Taiwan. (Ch) *Taiwan Agr. Quart.* 3(2):71-78. June 1967. S19.T3  
English summary.
- 97420 WILHELM, S., and SAGEN, J. E. Vegetative propagation of cotton plants by cuttings. *Calif. Agr.* 21(6):10-11. June 1967. 100 C12Cag
- Forage Crops and Grasses
- 97421 ABERG, E. The fodder production—its importance and place in the Swedish crop culture. (Sw) *Lantmannen* 78(14/15):6-8. July 8, 1967. 11 L234
- 97422 ADACHI, K., MIYAZAKI, K., and SUYAMA, N. Studies on Dudzu, *Pueraria hirsuta* Matsum., a Japanese leguminous forage plant. II. Propagation by cutting, breaking the hardness of seed coat and inducing polyploid by colchicine. (Ja) *Shimane Agr. Coll. Bull.* 15(A-1):1-4. Jan. 1967. S539.J2S5  
English summary.
- 97423 AKESSON, G. Summer in the seed field. (Sw) *Svensk Frotidn.* 36(6):85-86. June 15, 1967. 61.8 Sv2  
Culture of forage plant seeds.
- 97424 ALDEN, L. Planting technique and harvest results of forage grain. (Sw) *Lantmannen* 78(14/15):20. July 8, 1967. 11 L234
- 97425 ALDRICH, D. T. A., and DENT, J. W. The relationship between yield and digestibility in the primary growth of nine grass varieties. *Nat. Inst. Agr. Bot. J.* 11(1):104-113. 1967. 103 N21J
- 97426 ALONSO OLIVE, R. E. Pitilla villarena [*Andropogon caricosus*] a grass for soils with insufficient drainage. (Sp) *L. Rev. Agr.* [Havana] 1(2):22-33. May/Aug. 1967. S15.R4  
English summary.
- 97427 ANSLOW, R. C. Frequency of cutting and sward production. *J. Agr. Sci. [London]* 68(3):377-384. Ref. June 1967. 10 J822  
*Lolium perenne*.
- 97428 ASGROW GMBH, HAMBURG. Experiences with the culture of hybrid sorghum and hybrid sorghum sudangrass. (Ge) *Saatgut-Wirtsch.* 19(2):44. Feb. 1967. 61.8 Sal  
Forage plants.
- 97429 BANOCH, Z. A contribution to the culture of alfalfa under irrigation conditions. (Cz) Czech. Min. Zemedel. Les. Hospodar. Ustav Vedeckotechn. Inform. Rostlinna Vyroba 41(1):29-40. Jan. 1968. 64.9 C33  
English summary.
- 97430 BATRA, P. C., and GILL, G. S. Seed setting investigations with lucerne (*Medicago sativa*). II. Effect of cutting frequencies and spacings. *Punjab Agr. Univ. J. Res.* 4(1):25-29. Mar. 1967. S19.P8  
On yields.
- 97431 BENGTTSSON, A., and THOMKE, S. The forage grain - plant material and its valuation. (Sw) *Lantmannen* 78(14-15):14-19. July 8, 1967. 11 L234
- 97432 BERG, M. The value of grain forage plants in different crop rotations and environments. (Sw) *Lantmannen* 78(14/15):9-10. July 8, 1967. 11 L234
- 97433 BIRECKI, M., and RUDKIEWICZ, F. Density of sowing corn. II. Effects of various spacings between plants on yields of corn grown for silage. General characteristics of research work accomplished and of experimental conditions. 12 p. (TT 65-50347) Transl. 16784  
Translation from Instytut Uprawy, Nawozenia i Gleboznawstwa. Pamietnik Pulawski. Prace 10:281-299. 1963.  
Issued by CFSTI.
- 97434 BLAND, B. F. The effect of cutting frequency and root segregation on the yield from perennial ryegrass-white clover associations. *J. Agr. Sci. [London]* 69(3):391-397. Dec. 1967. 10 J822
- 97435 BOGDAN, A. V., and KIDNER, E. M. Grazing natural grassland in western Kenya. *East Afr. Forest. J.* 33(1):31-34. July 1967. 24 Ea74
- 97436 BUBAR, J. S., and ARCHAMBAULT, L. J. The behavior of varieties of Lotus in Quebec. (Fr) *Agriculture [Montreal]* 24(2):3-6. June 1967. 7 Ag82
- 97437 BUBAR, J. S. Fodder radish. *Forage Notes [Ottawa]* 13(1):44-46. Spring 1967. 60.8 F742  
Culture.
- 97438 CEGLAREK, F. The companion crops of fodder plants with winter and spring cereals on heavy soils. (Pol) *Stettin. Wyzsza Szkola Roln. Zeszyty Nauk.* 25:175-179. 1966, pub. 1967. 20.5 St4  
English summary.

- 97439 CHILDERS, W. R. Forage varieties. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:77-79. 64.9 On83
- 97440 CHRISTIE, B. R. A possible weakness in the synthetic approach? Forage Notes [Ottawa] 13 (1):15-17. Spring 1967. 60.8 F742  
Breeding of forage plants.
- 97441 COELHO, M., and others. Comportamento de capins de corte na zona da mata de Pernambuco [Behavior of grasses for cutting in the mata zone of Pernambuco]. Inst. Pesqui. Agron. Pernambuco. Bol. Tec. 17,41 p. Ref. Aug.1966. S15.I53  
L. De A. Falcao, A. Tavares, G. Caricio, and G. Franca, joint authors.  
English summary.  
Management.
- 97442 COOP, I. E. A table of ewe equivalents. Christchurch. Tussock Grassland Mountain Lands Inst. Rev. 13:46-48. Sept.1967. 60.9 C46  
To aid in New Zealand range management.
- 97443 CURTIS, J. D. Crop recommendations for Eastern Ontario, 1967. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:165-169. 64.9 On83  
Forage plants.
- 97444 DANCIC, J. Analysis of making secure the basis of forage crops by areas and yields abroad as compared with those in Czechoslovakia. (Cz) Pol'nohospodarstvo 14(3):214-219. Ref. 1968. 19.5 P752
- 97445 DENMAN, C. E. Forage crop variety testing. Okla. Agr. Exp. Sta. Process. Ser. P-584:20-25. May 1968. 100 Ok4M  
Yields; includes hybrids.
- 97446 DESSUREAUX, L., and BRADNER, N. R. Effect of inbreeding on heterosis. Forage Notes [Ottawa] 13(1):19. Spring 1967. 60.8 F742  
Alfalfa.
- 97447 DESSUREAUX, L. Towards maximum yields. Forage Notes [Ottawa] 13(1):21. Spring 1967. 60.8 F742  
Alfalfa culture.
- 97448 DONOHO, H. R. Sound planning in pasture management operations. Hawaii. Univ. Ext. Misc. Publ. 45:5-7. Aug.26,1967. S544.3.H3H3
- 97449 DUDAR', A. Prostrate summercypress—valuable forage plant. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 10:26-27. Oct.1967. 281.8 Se4  
Cultivation of Kochia prostrata.
- 97450 EDMOND, D. B. Pasture utilization and the near future. New Zeal. Grassland Ass. Proc. 29(7):135-142. 1967. 60.19 N48
- 97451 ELDER, W. C., and TUCKER, B. B. Pasture management; biennial report of progress for 1966 & 1967 on forage crop grazing studies and fertility tests. Okla. Agr. Exp. Sta. Process. Ser. P-583,35 p. Apr.1968. 100 Ok4M  
Beef cattle.
- 97452 FAIZIEVA, G. Afterharvest corn. (Rus) Zhivotnovodstvo 6:48-49. June 1967. 49 Z6  
Corn as catch crop.
- 97453 FEDORENKO, I. P. Methods for increasing yields and nutritive values of corn. (Rus) Vses. Nauch.-Issled. Inst. Zhivotn. Tr. 30:164-171. 1967. 49.9 R92  
Forage plant variety test.
- 97454 FRYCEK, A. Influence of alternating use of herbage on the production of green mass. (Cz) Pol'nohospodarstvo 14(2):109-121. 1968. 19.5 P752  
English summary.  
Pasture management.
- 97455 FRYCEK, A. Research on pastures and meadows on Tatra Mountain slopes. (Cz) Prague. Vyzk. Ustav Zemed. Vestn. 14(5):214-217. 1967. 19.5 C333
- 97456 FULKERSON, R. S. Insurance for good seedings. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:174-178. 64.9 On83  
Forage plants.
- 97457 GASSER, H. The mixture of grass in the Province of Quebec: A synthesis of the results (1955-1964). (Fr) Agriculture [Montreal] 24(2):16-20. June 1967. 7 Ag82
- 97458 GIRENKO, A. P., and BABICH, A. A. The productivity of mixed stands of corn hybrids and soyabean varieties of different maturing stage, harvested for silage in the Ukrainian steppe. (Rus) Vses. Akad. Sel'skhokhoz. Nauk V. I. Lenina. Dokl. 1:11-14. Jan.1968. 20 Ak1
- 97459 GOOLD, G. J. Establishment of oversown white clover on unimproved North Auckland clay hill country. New Zeal. Grassland Ass. Proc. Nov.14/16,1967:88-95. 60.19 N48  
Includes discussion.
- 97460 GRAY, E., and BENNETT, S. E. Progress report: Alfalfa managed as an annual. Tenn. Farm Home Sci. Progr. Rep. 65:6-9. Jan./Mar.1968. 100 T25F
- 97461 GREEN, J. E. Stocking rates - where to now? Dairyfarming Dig. 14(1):25-28. Feb.1967. 44.8 D1443
- 97462 HALL, B. G. Lucerne on the red-brown earths. S. Australia J. Agr. 71(4):118-123. Nov.1967. 23 So84
- 97463 HAWAII. UNIVERSITY. AGRICULTURAL EXTENSION SERV. Proceedings of the third annual Beef Cattle Field Day: Pasture management. Hawaii. Univ. Ext. Misc. Publ. 45,50 p. Aug.26,1967. S544.3.H3H3
- 97464 HAWKINS, R. P. A note on Kersey white clover. Nat. Inst. Agr. Bot. J. 11(1):226-227. 1967. 103 N21J  
In Great Britain.
- 97465 HEINRICHS, D. H. Management of forage crops in Canadian agriculture. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:179-185. 64.9 On83
- 97466 HONCZARENKO, G. After-effects of mowing height on yields of peat meadows. (Pol) Stettin. Wyzsza Szkoła Roln. Zeszyty Nauk. 25: 249-251. 1966, pub. 1967. 20.5 St4  
German summary.
- 97467 HONCZARENKO, G. Effect of harvesting time and fertilizing on hay yield and feed value of meadow plants. (Pol) Stettin. Wyzsza Szkoła Roln. Zeszyty Nauk. 25:251-254. 1966, pub. 1967. 20.5 St4  
German summary.
- 97468 HOGERKAMP, J. M. New developments in the meadow improvement in Holland. II. (Ge) Tierzucht 20(5):215-216. Apr.1968. 49 T445
- 97469 JOHNSTON, R. W. Increasing the yields of alfalfa. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:49-52. 64.9 On83
- 97470 JUERISSON, J. Some problems of pasture management in northwestern U. S. S. R. (Ge) Tierzucht 21(11):553-554. Nov.1967. 49 T443
- 97471 KANEKO, K., and others. Changes of some characters in red clover varieties seed-produced under different conditions. (Ja) Jap. Soc. Grassland Sci. J. 13(3):179-188. Ref. Oct.1967. 60.9 J27  
K. Murakami, N. Nishimura, K. Sugino, and S. Kojima, joint authors.  
English summary.
- 97472 KEHR, W. R. Registration of Dawson alfalfa. Crop Sci. 7(6):680-681. Nov./Dec.1967. 64.8 C883
- 97473 KILCHER, M. R. Rambler alfalfa and row spacings. Forage Notes [Ottawa] 13(1):26. Spring 1967. 60.8 F742  
For greater yield.



- 97474 KINOSHITA, T., WATANABE, T., and NAKASHIMA, T. Studies on varietal characters of Italian ryegrass. 2. Varietal differences of the yielding ability by sowing time. (Ja) Jap. Soc. Grassland Sci. J. 13(3):172-178. Oct. 1967. 60.9 J27  
English summary.
- 97475 KIRTON, H. R. Winter management practices and their effects on pasture species and production. New Zeal. Grassland Ass. Proc. Nov. 14/16, 1967:96-101. 60.19 N48
- 97476 KLEIN, J. Representative forage grasses of economic importance to Todd County. S. Dak. Acad. Sci. Proc. 46:239. 1967. 500 So82
- 97477 KLEIN-BRUCKSCHWAIGER, F. Mountain pasture study in Austria and the Innsbruck School of Mountain Pasture Research [Innsbrucker Schule der Almsforschung]. (Ge) Z. Agrargesch. Agrarsoziol. 15(1):23-32. Ref. Apr. 1967. 30.98 Z3
- 97478 KOKENY, B. The vetches of the Mediterranean Basin and the determination of their provenance. (It) Sementi Elette 13(1):47-49. Jan./Feb. 1967. 61.8 Se53
- 97479 KOPCZYNSKI, J. Researches for the cultivation possibilities of companion crops with rye cut for silage on light soils. (Pol) Stettin. Wyższa Szkoła Roln. Zeszyty Nauk. 25:123-127. 1966, pub. 1967. 20.5 St4  
English summary.
- 97480 KOROLEVA, R. S., and VOLKOV, F. N. A new technology of drying alfalfa on the field. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 8:128-130. Aug. 1967. 20 V633
- 97481 KOROSEC, J. The culture of clover and grasses for seeds. (Sl) Soc. Kmetijstvo Gozdarstvo 18(2):34-35. Feb. 22, 1967. 21.5 So14
- 97482 KRONSTAD, W. E., and KLOCK, G. O. Corn silage variety trial. Oreg. Agr. Exp. Sta. Spec. Rep. 254:10-11. Apr. 1968. 100 Or3M
- 97483 KVETNOI, M. YA. Cultivating peas after harvesting the main crops. (Rus) Zhivotnovodstvo 6:50-51. June 1967. 49 Z6  
Peas as forage plant.
- 97484 LAGUTA, A. F., KHODANOVICH, M. A., and MAZELKINA, N. V. The effectiveness of some agrotechnical methods of cultivation of mallow for silage. (Rus) Vses. Nauch.-Issled. Inst. Zhivotn. Tr. 30:146-157. 1967. 49.9 R92
- 97485 LAMBERT, J. P. Pasture species for Northland. New Zeal. Grassland Ass. Proc. Nov. 14/16, 1967:78-87. 60.19 N48  
Includes discussion.
- 97486 LANDI, R. Genetic improvement of cultivated sorghums. (It) Sementi Elette 13(2/3):94-132. Ref. Mar./June 1967. 61.8 Se53  
English summary.  
Heterosis and male-sterility included.
- 97487 LE ROUX, A. A. The role of statistics in formulating programme plans at the national level. Rhodesia Agr. J. 64(2):45-50. Mar./Apr. 1967. 23 R34  
Cattle carrying capacity of pastures.
- 97488 LOTERO C., J., BERNAL E., J., AND HERRERA P., G. Distance of sowing and application of nitrogen on Pennisetum purpureum. (Sp) ICA (Inst. Colombiano Agropecuar.) Rev. 2(2): 123-133. June 1967. S15.1592  
English summary.  
Effects on yields.
- 97489 LOTOVA, L. I., and KASHURO, V. I. Effect of various procedures of sowing upon the resistance of fodder bean stems to lodging. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk 2:74-79. 1967. 442.8 N22  
Soybeans.
- 97490 LUBENETS, P. A. The use of wild-growing perennial alfalfa species. (Rus) Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina Dokl. 5:19-22. May 1967. 20 Akl  
Culture.
- 97491 MACGREGOR, M. My forage program. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967: 186-189. 64.9 On83
- 97492 MACKIEWICZ, Z., and KOPCZYNSKI, J. The effect of forecrops on the yielding of forage mixtures in the stubble catch-crops on light soils of the Szczecin Province. (Pol) Stettin. Wyższa Szkoła Roln. Zeszyty Nauk. 25:119-123. 1966, pub. 1967. 20.5 St4  
English summary.
- 97493 MACKIEWICZ, Z., and BALCEREK, W. The effect of the terms of seeding and soiling the winter fodder rape "Szczecinski" (Brassica rapa var. oleifera) on the yields of green matter and protein. (Pol) Stettin. Wyższa Szkoła Roln. Zeszyty Nauk. 25:109-113. 1966, pub. 1967. 20.5 St4  
English summary.
- 97494 MACKIEWICZ, Z., and BALCEREK, W. The rape seeding of fodder cruciferous plants for seeds in Western Pomerania conditions. (Pol) Stettin. Wyższa Szkoła Roln. Zeszyty Nauk. 25: 106-109. 1966, pub. 1967. 20.5 St4  
English summary.
- 97495 MAEDA, S., and others. Studies on the balanced productive structure of forage crops in warm areas in Japan. I. Influence of Rhodesgrass reseeding on preventing summer depression of cool season type pastures. (Ja) Jap. Soc. Grassland Sci. J. 13(2):87-92. Aug. 1967. 60.9 J27  
H. Matsuda, K. Nakajima, and N. Kishi, joint authors.  
English summary.
- 97496 MAEDA, S., and others. Studies on the balanced productive structure of forage crops in warm areas in Japan. II. Change of botanical composition from Italian ryegrass community to Rhodesgrass community by Rhodesgrass reseeding after clipping of Italian ryegrass in spring season. (Ja) Jap. Soc. Grassland Sci. J. 13(2):93-99. Aug. 1967. 60.9 J27  
H. Matsuda, K. Tsunemi, and N. Kishi, joint authors.  
English summary.
- 97497 MAKI, Y., and others. Studies on seed production in timothy (Phleum pratense L.) and orchardgrass (Dactylis glomerata L.). I. Path-coefficient analysis of agronomic traits influencing seed yield. Jap. Soc. Grassland Sci. J. 13(1): 71-89. Ref. May 1967. 60.9 J27  
S. Nakayama, Y. Tanabe, T. Aota, joint authors.
- 97498 MARCHUK, A. A. On the question of planting dates for red clover and protein content in relation to the development stage. (Rus) Zhytomys's'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:325-327. S651.Z5
- 97499 MARINOVA, R. Studies on soybean varieties grown for green fodder and grain in the Vidin area. (Bu) Rastenievudni Nauk. 4(10):97-109. Ref. 1967. 64.8 R18  
English summary.
- 97500 MCLAREN, A. D. Let's look at forages. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:133-135. 64.9 On83  
Yields.
- 97501 MIKHAILOV, S. Afterharvest planting—as important factor of feed production. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 8:28-29. Aug. 1967. 281.8 Se4  
Corn and sorghum as catch crops.

- 97502 MURPHY, R. P., and LOWE, C. C. Alfalfa - its production potential. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:60-67. 64.9 On83
- 97503 NAGASE, Y., SAITO, Y., and TAKEMURA, S. Effects of various management practices on growth and forage yield of new-sorgo. (Ja) Jap. Soc. Grassland Sci. J. 13(2):105-111. Ref. Aug. 1967. 60.9 J27  
English summary.  
Hybrid between *Sorghum vulgare* and *S. sudanense*.
- 97504 NIELSON, R. F. Good pastures are possible - even high and dry. Utah Sci. 28(2):43-46. June 1967. 100 Ut1F
- 97505 NOONAN, J. B. Prepare thoroughly for lucerne. Milk Board J. 18(5):33,35. May 1967. 44.8 M5934  
Australia.
- 97506 OKAMOTO, K., SAWAMURA, H., and WATANABE, N. Studies on establishment of Italian ryegrass-Rhodes grass pasture by sod-sowing method. 1. An evaluation of sod-sowing of Italian ryegrass to Rhodes grass orchardgrass, Ladino clover and alfalfa pastures. Jap. Soc. Grassland Sci. J. 13(1):7-12. May 1967. 60.9 J27  
English summary.
- 97507 OKAMOTO, K., SAWAMURA, H., and WATANABE, N. Studies on establishment of Italian ryegrass-Rhodes grass pasture by sod-sowing methods. 2. An evaluation of sod-sowing of Rhodes grass to Italian ryegrass field. (Ja) Jap. Soc. Grassland Sci. J. 13(1):13-18. May 1967. 60.9 J27  
English summary.
- 97508 OKLAHOMA. AGRICULTURAL EXPERIMENT STATION, EASTERN OKLAHOMA PASTURE STATION. Research progress report, 1968. Okla. Agr. Exp. Sta. Process. Ser. P-584,28 p. May 1968. 100 Ok4M
- 97509 OLSCHESKI, H. Thoughts about centralized pasture and feed competition. (Ge) Tierzucht 22(2):61-63. Ref. Feb. 1968. 49 T443  
Germany (East).
- 97510 ONDRICEK, J. Hundred years from the prohibition of pasturing in Krkonose Mountains. (Cz) Ziva 16(1):2-3. Jan. 1968. 409.6 Z6
- 97511 PATEL, B. M., PATEL, C. A., and DHAMI, B. M. Effect of different cutting intervals on the dry matter and nutrient yield of Napier hybrid grass. Indian J. Agr. Sci. 37(5):404-409. Oct. 1967. 22 Ag831
- 97512 PAVLENKO, A. Improve natural pastures! (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 7: 25-26. July 1967. 281.8 Se4  
Management.
- 97513 PAWLUS, M. The following effect of soiled mixtures with spring vetch on yield of winter rape. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:158-160. 1966, pub. 1967. 20.5 St5  
English summary.
- 97514 RANJAN, S. K., SINGH, R. P., and TALAPATRA, S. K. Yield and chemical composition of various varieties of oat fodders. Indian J. Dairy Sci. 19(4):214-215. Dec. 1966. 44.8 In28
- 97515 RELWANI, L. L. "Sudan grass" [*Sorghum sudanense*] - an emergency fodder for warm and dry regions. Indian Dairyman 19(9):303-304. Sept. 1967. 44.8 In282  
Chiefly culture.
- 97516 RICHTER, K., and NAUMANN, S. Higher and surer yields through nitrogenous fertilizing and utilization of hay pasture. (Ge) Tierzucht 22(2):52-55. Feb. 1968. 49 T443
- 97517 ROBERTSON, R. W. Promising introductions in the 1964-66 nursery. Forage Notes [Ottawa] 13(1):47-48. Spring 1967. 30.8 F742  
Forage plants.
- 97518 ROD, J. Perspectives for the breeding of pasture type alfalfa. (Cz) Sb. UVTI (Ustav Vedeckotech. Inform.) Genet. Slechteni 3(2):163-170. Ref. Mar. 1967. QH431.A1S25  
English summary.
- 97519 ROLLINS, M. B., DYLLA, A. S., and ECKERT, R. E. Reseeding greasewood, rabbitbrush ranges with tall wheatgrass: a beginning. Nev. Ranch Home Rev. 3(9):6. Spring 1967. 60.18 Sci2
- 97520 ROTAR, P. P. Problems associated with seedling pasture; establishment of new seedlings. Hawaii. Univ. Ext. Misc. Publ. 45:8-10. Aug. 26, 1967. S544.3.H3H3
- 97521 RYCHLICKI, F. Progress in production organization in the pasture community and increased rates of production. (Pol) Nowe Roln. 16(1):31-32. 1967. 20.5 N86
- 97522 SALETTE, J. E. Some agronomic aspects of tropical forage plants. (Fr) J. Agr. Trop. Bot. Appl. 14(4-5):159-179. Ref. Apr./May 1967. 26 J822
- 97523 SATO, K., NISHIMURA, N., and ITO, M. Ecophysiological studies on maintenance of density in forage crop sward. V. The effects of plant density, level of nitrogen application and cutting frequency on the tillering behaviour and its relation to the yield of orchardgrass sward originated from one clone. (Ja) Jap. Soc. Grassland Sci. J. 13(2):128-142. Ref. Aug. 1967. 60.9 J27  
English summary.
- 97524 SCHONER, C. A., and others. Alfalfa variety tests in central California. Calif. Agr. 21(6): 13-15. June 1967. 100 C12Cag  
T. S. Torngren, V. L. Marble, W. R. Sheesley, and E. F. Nourse, joint authors.
- 97525 SEVECKA, L. The effect of the density of planting alfalfa on the yield of green cut of the first harvesting. (Cz) Piestany. Vysk. Ustav Rastlinn. Vyroby. Ved. Pr. 4:57-77. Ref. 1966. S13.V9  
English summary.
- 97526 SHAIN, S. S., and SHIRSHOV, V. A. Application of luminescent analysis in controlling the dominant peculiarities of grain and legume hybrids, cultivated as forage plants. (Rus) Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina. Dokl. 1:9-11. Jan. 1968. 20 Ak1
- 97527 SHERSNEV, P. M. Catch crop culture as important source of feeding stuff. (Rus) Zhivotnovodstvo 6:53. June 1967. 49 Z6
- 97528 ŠINGH, H. K. A pasture grass - Pangola (*Digitaria decumbens*). Indian Dairyman 19(9): 297-300. Sept. 1967. 44.8 In282  
Culture and nutritive value.
- 97529 SONGIN, H. Effect of the quality sowing on the yield of horse beans. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:140-143. 1966, pub. 1967. 20.5 St4  
English summary.
- 97530 SONGIN, H. The forecrop effect on yields of forage mixtures with pulse plants in stub catch-crops on heavy soil in conditions of Szczecin Province. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:131-135. 1966, pub. 1967. 20.5 St4  
English summary.



- 97531 STANOJEVIC, M. Krusevac, a center for improvement of forage plant production. (Se) Glasnik 12(2):30-32. 1968. 280.28 Z13  
Research at the Zavod za Krmno Bilje.
- 97532 STEENBERGEN, T. VAN. Bruto-opbrengstbepaling op grasland [Determination of gross yields on grasslands]. Wageningen. Proefsta. Akker- Weidebouw. Meded. 136,97 p. June 1967. 64.9 W122
- 97533 STEPANOV, V. N., and BERDINAZAROV, C. Two entire yields from one plot. (Rus) Zhivotnovodstvo 6:47-48. June 1967. 49 Z6  
Corn as catch crop.
- 97534 STYLOSANTHES humilis; a new annual legume is recommended for use in Florida pastures. Sunshine State Agr. Res. Rep. [Fla. Sta.] 13(2): 15. Mar.1968. 100 F66Su
- 97535 SUTTIE, J. M., and OGADA, J. Desmodium uncinatum; the production of Desmodium uncinatum seed with special reference to mechanical harvesting. Kenya Farmer 131:22,36. June 1967. 24 R812
- 97536 TARTIERE, H. Present level of plant production in the mountainous areas of the Massif Central and potentialities. (Fr) Fourrages 31: 78-101. Sept.1967. 60.8 F82  
English summary, p.136.  
Chiefly pastures.
- 97537 VENTURI, F. Mixed pastures for hill lands. (It) Romagna Agr. Zootec. 53(2):48-51. Feb. 1968. 16 R66
- 97538 VORSTER, L. F. The yields of three perennial grasses under dryland conditions in the central O.F.S. (Orange Free State). (Af) S. Afr. J. Agr. Sci. 10(1):77-83. Mar.1967. 24 Su3  
English summary.  
Sorghum, a hybrid between Sorghum vulgare sudanense and Sorghum halepense, compared with Sorghum alnum and Eragrostis curvula.
- 97539 WARREN, F. S. Reed canarygrass renovation. Forage Notes [Ottawa] 13(1):40. Spring 1967. 60.8 F742  
Includes use of fertilizers.
- 97540 WARREN, R. Chemicals for pre-harvest drying of seed crops. Oreg. Weed Contr. Handbook 1968:189. 275.28 Or3  
Chiefly forage legumes.
- 97541 WASHKO, J. B., and others. Management and productivity of perennial grasses in the Northeast. III. Orchardgrass [Dactylis glomerata]. W. Va. Agr. Exp. Sta. Bull. 557T,48 p. Ref. Dec.1967. 100 W52  
G. A. Jung, A. M. Decker, R. C. Wakefield, D. D. Wolf, and M. J. Wright, joint authors.  
Northeast Regional Research Publication.
- 97542 WATANABE, T., KINOSHITA, T., and NAKASHIMA, T. Studies on varietal characters of Italian ryegrass. 1. Varietal differences of heading and grass vigor by spring sowing. (Ja) Jap. Soc. Grassland Sci. J. 13(3):167-171. Oct.1967. 60.9 J27  
English summary.
- 97543 WESCHE, J. Site investigation of permanent grassland and its use in grassland science, research and practice. (Ge) Z. Kulturtech. Flurbereinigung 8(5):280-290. Ref. Sept./Oct.1967. S605.A1Z4  
English summary.
- 97544 WHITNEY, A. S. Pasture improvement practices. Hawaii. Univ. Ext. Misc. Publ. 45:29-33. Aug.26,1967. S544.3.H3H3
- 97545 WILLIAMS, W. A. The role of the Leguminosae in pasture and soil improvement in the neotropics. Trop. Agr. [St. Augustine] 44(2): 103-115. Ref.,p.113-115. Apr.1967. 26 T754
- 97546 WINCH, J. E. Increasing yields of birdsfoot trefoil. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:46-48. 64.9 On83
- 97547 YOSHIYAMA, T., and TANAKA, H. The influence of management such as plant density and manuring on the seed production of orchardgrass (Dactylis glomerata L.) in Japan. (Ja) Jap. Soc. Grassland Sci. J. 13(1):64-70. Ref. May 1967. 60.9 J27  
English summary.
- 97548 ZMLJEWSKA, Z. Soilless culture of greens. I. (Pol) Drobniarstwo 15(3):8-9. Mar.1967. 47.8 P953  
Forage plants for winter feeding of poultry.
- 97549 ZMLJEWSKA, Z. Soilless culture of greens. (Pol) Drobniarstwo 15(4):9-10. Apr.1967. 47.8 P953  
Forage plants for winter feeding of poultry.
- 97550 ZUBENKO, V. KH. Planting sunflowers after harvesting the main crops. (Rus) Zhivotnovodstvo 6:52. June 1967. 49 Z6  
Sunflowers as forage plant.

## Oil Crops

- 97551 APPELQVIST, L. A. Canadian rape breeding. (Sw) Svensk Frotidn. 37(1):2-5. Jan.15,1968. 61.8 Sv2
- 97552 ASHRIF, M. I. Effects of fertilizer, weeding and pre-emergence MCPB on groundnuts in the Gambia. PANS (Pest Articles News Sum.) Sect. C Weed Contr. 13(3):207-214. Ref. Sept.1967. 79.9 G792  
Factor analysis of yields.
- 97553 AUCKLAND, A. K. Soyabeans in Tanzania. II. Seasonal variation and homeostasis in soyabeans. J. Agr. Sci. [London] 69(3):455-464. Ref. Dec.1967. 10 J822  
Breeding.
- 97554 BUZZELL, R. I. Increasing yields of soybeans. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:40. 64.9 On83
- 97555 CAVINESS, C. E., THOMPSON, L. F., and WIMPY, T. S. Response of Lee soybeans to applications of TIBA "2,3,5-triiodobenzoic acid". Ark. Farm Res. 17(2):4. Mar./Apr. 1968. 100 Ar42F  
Yield increases.
- 97556 CURTIS, J. D. Soybean production. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967: 120-123. 64.9 On83
- 97557 HARPER, J. C. Soyabeans (Glycine max (L.) Merr). Rhodesia Agr. J. 64(2):27-34. Ref. Mar./Apr.1967. 24 R34  
Chiefly culture and physiology.
- 97558 HINSON, K., and SMITH, R. L. Varieties. Fla. Agr. Exp. Sta. Bull. 716:47-56, map. Aug. 1967. 100 F66S  
Soybeans grown in Florida.
- 97559 HORIE, M. Studies on breeding methods of soybeans; experimental studies on the theory of the bulk method. (Ja) Tokyo. Nat. Inst. Agr. Sci. Bull. Ser. A (Phys. Statist.) 14:17-84. Ref. Mar.1967. 334.9 C43  
English summary.
- 97560 HUTTON, C. W. Area recommendations. 1-3. Fla. Agr. Exp. Sta. Bull. 716:92-107. Aug. 1967. 100 F66S  
1. West Florida, by C. E. Hutton; 2. North-central Florida, by H. W. Lundy; 3. Organic soils, by W. T. Scudder.  
Soybean culture.
- 97561 KANE, J. G. India's hidden wealth: minor and non-edible oils. Indian Farming 17(9):44-48. Dec.1967. 22 In283  
Oil plants.

- 97562 KHUSPE, V. S., and SAOJI, B. H. Safflower responds to spacing and nitrogen. *Fert. News* 13 (3):33,38. Mar.1968. 57.8 F4123
- 97563 KLIMOV, S. Expanding the culture of selected Russian varieties of sunflowers as an important factor in the production of high yields of oil. (Se) *Sovremeno Zemjod.* 13(2):4-6. Feb.1966. S13.S6
- 97564 KRSTIC, V. Cultural practices for sunflowers. (Se) *Sovremeno Zemjod.* 14(4):2. Apr.1967. S13.S6
- 97565 KRSTIC, V. Planting of sunflowers. (Se) *Sovremeno Zemjod.* 14(3):2. Mar.1967. S13.S6
- 97566 KULKARNI, L. G. Asiriya Nwitunde: Groundnut variety that will surpass many others. *Indian Farming* 17(9):4-7. Dec.1967. 22 In283  
Culture and yields.
- 97567 KUMAR, K., BHARGAVA, P. D., and UPAD-  
HYAYA, S. M. Variability studies in sesame in Rajasthan. *Indian J. Agr. Sci.* 37(5):293-301. Ref. Oct.1967. 22 Ag831  
Breeding program.
- 97568 LIN, H., and CHEN, C. C. Studies on the yield components of peanut. I. (Ch) *Agr. Ass. China J. (n.s.)* 57:35-48. Mar.1967. 22.5 Ag862  
Taiwan.
- 97569 MILNER, R. T. Program for furthering the production of soybeans in India by the University of Illinois. *U. S. Agr. Res. Serv. ARS-71-35:221-222.* May 1967. A381 R31Ac  
Discussion by M. Milner, p.263-265.  
Culture.
- 97570 MOHAN, J. C., ALI, A. M., SUBRAMANIAM, C. Correlation studies in groundnut (*Arachis hypogaea* L.) - correlation of certain quantitative characters with yield in the strain TMV, 2. *Madras Agr. J.* 54(9):482-484. Sept.1967. 22 M262
- 97571 MOROZOV, V. Agricultural practices in growing sunflowers. (Rus) *Sel'skokhoz. Proizvodstvo Povolzh'ya* 4:23-24. Apr.1967. 281.8 Se4
- 97572 MUHAMMAD, S. V., and DURAIRAJ, M. S. Interspecific hybridization in *Sesamum* L. - Trispecific hybrid between *S. indicatum* x *S. lacinientale*. *Madras Agr. J.* 55(3):140-141. Mar.1968. 22 M262
- 97573 MURTY, B. R. Linseed - new breeding techniques at IARI [Indian Agricultural Research Institute]. *Indian Farming* 17(9):19-21. Dec. 1967. 22 In283
- 97574 MURTY, B. R. Sarson (*Brassica campestris* sarson) and other oil-yielding brassicas. *Indian Farming* 17(9):22-25. Dec.1967. 22 In283  
Breeding, hybrids, and yields.
- 97575 NEME, N. A. Scarifier "IAC" for perennial soybean seeds (*Glycine javanica* L.). (Por) *Bragantia* 25(1):XIX-XXI. 1966. 102.5 B73Tb  
English summary.
- 97576 RAJAN, S. S. Sesamum - high productivity potential. *Indian Farming* 17(9):14-18. Dec. 1967. 22 In283  
Culture, breeding, and yields.
- 97577 RAMANAMURTHY, G. V., and KULKARNI, L. G. Safflower - need for better varieties. *Indian Farming* 17(9):11-13. Dec.1967. 22 In283  
Culture, breeding, and products.
- 97578 RODRIGUEZ, O., and MONTILLA, D. Effects of planting time, fertilizing, and soil type on sesame yield. (Sp) *Jornadas Agron. Mem., 6th Conf., v.2, paper 16, 31 p.* Ref. 1966. S211.J6 1966
- 97579 ROWSELL, J. How I grow oilseed rape. *Arable Farmer* 1(4):12-13. Feb.1967. S3.A7  
Culture in Great Britain.
- 97580 SINGH, H. Sunflower has a future. *Indian Farming* 17(9):26-28. Dec.1967. 22 In283  
Varieties and culture as an oilseed corp.
- 97581 SMITH, R. L., and HINSON, K. Culture. Fla. Agr. Exp. Sta. Bull. 716:57-71. Aug.1967. 100 F66S  
Soybeans; includes planting in Florida.
- 97582 STEFAN, O., and MOGA, I. A contribution to the determination of agrotechnique for sunflowers under conditions of Baragan plains. (Rum) *Probl. Agr. [Bucharest]* 20(3):31-37. Mar.1968. 21 R862  
English summary.
- 97583 TATTERSFIELD, J. R. Release of a new soybean variety-Rhosa. *Rhodesia Agr. J.* 64(2): 25. Mar./Apr.1967. 24 R34
- 97584 VOROB'EV, N. V., and SEDYKH, L. M. Determining oil content in sunflower seeds for breeding purposes. (Rus) *Vestnik Sel'skokhoz. Nauk. [Moscow]* 5:100-103. May 1967. 20 V633  
English summary.
- 97585 WILLIAMS, D. H. Irrigated castorbean, soybean, and safflower trials at the Northeastern Branch Station. *N. Mex. Agr. Exp. Sta. Res. Rep.* 133,12 p. Mar.1968. 100 N465R
- 97586 WILSON, R. R., and COLE, R. H. The potential of dwarf soybean varieties. *Del. Agr. Exp. Sta. Bull.* 367,17 p. Ref. Apr.1968. 100 D375
- 97587 YU, C. H. Studies on selection soybean crosses by means of geometrical diagram. (Ch) *J. Agr. Forest.* 15:43-51. Ref. Oct.1966. 22.5 J823  
English summary.

#### Sugar Crops

- 97588 ACKER, W. New conditions in the area of beet growing. (Ge) *Lohnunternehmen Land-Forstwirtschaft.* 23(3):64-68. 1968. 58.8 D81  
New cultural methods.
- 97589 AMERICAN SOCIETY OF SUGAR BEET TECHNOLOGISTS EASTERN UNITED STATES AND EASTERN CANADA. Proceedings of the fourteenth regional meeting, East Lansing, Michigan, January 19 and 20, 1967. n.p., 1967. 92 p. Ref. 66.9 Am353
- 97590 BORNSCHEUER, E. Modern sugar beet culture. (Ge) (Sum.) *Grune* 96(12):394-402. Mar.22,1968. 17 Sch9  
Germany.
- 97591 BREMNER, P. M. Higher yields but problems, too, with transplanted sugar beet. *Arable Farmer* 1(8):12-14. June 1967. S3.A7
- 97592 BUTKEVICH, TS. B. The effect of crop rotations on the yields of sugar beets under irrigation. (Rus) *Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf.* 1967:299-302. S651.Z5
- 97593 DIAZ BARREIRO, F. Productiveness of sugarcane varieties. (Sp) *Rev. Agr. [Havana]* 1(2): 34-44. May/Aug.1967. S15.R4  
English summary.
- 97594 DU TOIT, J. L., and MURDOCH, M. G. Summary of agricultural data: sugarcane crop 1965/66. *S. Afr. Sugar Technol. Ass. Proc.* 1967:129-136. 65.9 So83  
Yields.
- 97595 FIEDLER, J. Agrotechnical research and mechanization of sugar beet culture in the People's Republic Poland. (Cz) Prague. *Vyzk. Ustav Zemed. Vestn.* 13(7):303-305. 1966. 19.5 C333
- 97596 GALIEN, M. V. D., and POSTMA, J. Raising beets without manual labor. (Du) Neth. Provinc. Dir. Rijkslandbouwvoorlichting Friesland Voorlichting Onderz. 1966:50-52. SB183.N4A3  
Planting distances and chemical weed control of sugar beets.
- 97597 GANDHI, R. T., and BHATTARAI, A. N. Harvest extra rupees between your cane rows. *Intensive Agr.* 4(11):25-26. Jan.1967. 22 In8  
Field crops and vegetables.



- 97598 GASKILL, J. O., and others. Breeding for combined resistance to leaf spot [*Cercospora beticola*] and curly top in sugar beet. *Amer. Soc. Sugar Beet Technol. J.* 14(6):518-537. July 1967. 66.9 Am35J  
C. L. Schneider, A. M. Murphy, and G. E. Coe, joint authors.
- 97599 HECKER, R. J. Evaluation of three sugar beet breeding methods. *Amer. Soc. Sugar Beet Technol. J.* 14(4):309-318. Jan. 1967. 66.9 Am35J
- 97600 HECKER, R. J., PAYNE, M. G., and REMMENGA, E. E. Performance of sugar beet hybrids at different harvest dates. *Amer. Soc. Sugar Beet Technol. J.* 14(6):455-464. July 1967. 66.9 Am35J
- 97601 HYZIK, J., FIEDLER, J., and CECHE, J. Nove poznatky v rozvoji reparstvi [New notions on the culture of sugar beets]. (Cz) *Zajmová Aktua. Listovka MZLH 2,24* p. 1966. S16.C95Z3
- 97602 INSTITUT DE RECHERCHES DE L'INDUSTRIE SUCRIERE (MAURITIUS). Introduction of the annual report for 1966. (Fr) *Rev. Agr. Sucrerie Ile Maurice* 46(2):61-87. Ref. Apr./June 1967. 24 M44
- 97603 JOKIC, M. On what depends a successful planting of sugar beets. (Se) *Sovremeno Zemjod.* 13(2):7-9. Feb. 1966. S13.S6
- 97604 KAR, K. Intercropping with sugarcane. *Sugar Technol. Ass. India Proc.*, 35th Annu. Conv., pt.1:325-327. 1967. 65.9 Su35p
- 97605 LARSON, R. G. Summer checklist: Things to do now that will count and jingle in the fall. *Sugar Beet* 52:23-24. Summer 1967. 66.8 Su34B  
Sugar beet culture.
- 97606 MARSHALL, C. A. Tapping the root of success. *Holly Agr. News* 14(4):12. Winter 1966/1967. 66.8 H72  
Sugar beet culture and yields in Sidney, Montana area in 1966.
- 97607 OLDEMEYER, R. K., and ZIELKE, R. C. Mass selection for improvement of *Cercospora* resistance and sugar content in the Northern Ohio Sugar Company areas. *Amer. Soc. Sugar Beet Technol. J.* 14(6):465-469. July 1967. 66.9 Am35J  
Leaf spot disease (*Cercospora beticola* Sacc.).
- 97608 PETERSON, D. F. Curly top. *Holly Agr. News* 16(1):14. Spring 1968. 66.8 H72  
Breeding resistant sugarbeets.
- 97609 POPE, A. Trials of growing sugarbeets. *Holly Agr. News* 16(1):12. Spring 1968. 66.8 H72
- 97610 RACIK, J. Evaluation of technical quality and optimum time of harvesting sugar beet. (Cz) *Pol'nohospodarstvo* 14(3):161-175. Ref. 1968. 19.5 P752  
English summary.
- 97611 RUMSEY, G. Monogerm as good as multigerm. *Arable Farmer* 1(4):20-21,23. Feb. 1967. S3.A7  
Sugar beets.
- 97612 SAMUELSON, B. E. Determination makes a great difference in any endeavor. *Holly Agr. News* 14(4):26-27. Winter 1966/1967. 66.8 H72  
Sugar beet culture in Montana.
- 97613 SARNO, R. Sugarcane (*Saccharum officinarum* L.); cultivation requirements and results of several years of experiments conducted in Sicily. (It) *Palermo. Univ. Ist. Agron. Gen. Colt. Erbacee. Quad. Agron.* 4:163-243. Ref., p.240-243. 1967, pub. 1968. 16 P172  
English summary.
- 97614 SCHAAF, A. VAN DER, and SCHAAFSTAL, H. A. Spring activities with sugar beets. (Du) *Neth. Dir. Landbouw Verslag Landbouwkundig Onderz. Noordelijk-Groningen.* 1967:56-65. 12 N38Vg
- 97615 SIVA RAO, D. V. Hardness of sugarcane varieties and its relation to shoot borer (*Chilotranea infuscatellus* Snell) incidence. *Andhra Agr. J.* 14(4):99-105. Ref. 1967. 34.2 An4
- 97616 SON, S. H. Studies on the sweet sorghum varieties in Korea. I. Relationship among the accumulation of sugar content, various growing stage and some other agronomic characters. (Ko) *Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep.* 10(1):113-125. Ref. Sept. 1967. 22.5 K843  
English summary.  
Sorghum planted in Korea as a sugar crop.
- 97617 STAFFORD, T. J. Some notes on sugarcane production in Guatemala. *La. Ass. Agron. Proc.* 8:11-14. 1967. 4 L933  
Varieties and management.
- 97618 VERRES, G., and BORNHCEURER, E. Influence of different stand densities on sugar beet yield after drilling to a final stand. (Ge) *Zucker* 20(6):149-156. Mar. 15, 1967. 65.8 Z82  
English summary.
- 97619 WILLEY, L. A. Sugar beet trials, 1961-66. *Nat. Inst. Agr. Bot. J.* 11(1):165-172. 1967. 103 N21J  
Varieties and yields in Great Britain.
- 97620 WILLEY, L. A. Two more monogerm complete trials. *Arable Farmer* 1(5):8-9. Mar. 1967. S3.A7  
Sugar beet trials in Great Britain.
- 97621 WYOMING. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. 4-H sugar beet project record and story book. *Wyo. Univ. Ext. [4-H Club Circ.]* SB-5a-67, 15 p. May 1967. 275.29 W99Fc

## Tobacco

- 97622 ARCIA M., M. A. Behavior of new varieties of Virginia tobacco. (Sp) *Jornadas Agron. Mem.*, 6th Conf., v.1, paper 8, 12 p. 1966. S211.J6 1966
- 97623 BEAKA, H. Harvesting, drying and curing tobacco. (Se) *Sovremeno Zemjod.* 13(8):6-8. Aug. 1966. S13.S6
- 97624 BEAKA, H. Last date for planting tobacco and measures for its timely hoeing. (Se) *Sovremeno Zemjod.* 13(6):2-4. June 1966. S13.S6
- 97625 BEAKA, H. Organization of works of tobacco planting. (Se) *Sovremeno Zemjod.* 14(5):3-4. May 1967. S13.S6
- 97626 BEAKA, N. Notes on the production of tobacco in 1966. (Se) *Sovremeno Zemjod.* 13(7):4-6. July 1966. S13.S6  
Culture and acreage.
- 97627 CHEN, C. H., and others. Studies on the use of Holmes resistant Line in breeding tobacco resistant to CMV [cucumber mosaic virus]. (Ch) *Agr. Ass. China J. (n.s.)* 57:24-34. Mar. 1967. 22.5 Ag862  
H. Wan, W. T. Chin, and J. K. Wu, joint authors.
- 97628 CHEN, C. H. Tobacco variety improvement in Taiwan. (Ch) *Taiwan Agr. Quart.* 3(2):79-88. June 1967. S19.T3  
English summary.
- 97629 GUILLERMO, A. A., and others. Production performance of six cigar-filler tobacco varieties. *Philippine Tobacco Rev.* 4(2):6-7. Ref. Apr./June 1967. 286.89 P53  
J. D. Beltran, A. Abanto, A. S. Firme, and P. L. Bagoyo, joint authors.
- 97630 LAMPRECHT, M. P. Breeding for disease resistance and yield improvement in flue-cured tobacco. (Af) *S. Afr. J. Agr. Sci.* 10(1):41-49. Mar. 1967. 24 Su3  
English summary.  
Resistant to powdery mildew, caused by *Erysiphe cichoracearum*, and tobacco mosaic virus.
- 97631 MCKEE, C. G. Maryland 64, a high yielding, later maturing variety of Maryland tobacco. *Md. Agr. Exp. Sta. Misc. Publ.* 654, 4 p. Mar. 1968. 100 M36M
- 97632 PANKAR, S. N., SAJNANI, B. T., and WALUNKAR, W. G. Growing Motihari tobacco the improved way. *Indian Farming* 18(1):13-14. Apr. 1968. 22 In283

- 97633 ROGERS, C. H. Varieties for mechanized farming. *Flue Cured Tobacco Farmer* 4(11): 28. Dec.1967. SB273.A1F58
- 97634 UZUNOVSKI, M. The planting date of tobacco and the necessary amount of seeds. (Se) *Sovremeno Zemjod.* 13(2):6-7. Feb.1966. S13.S6
- 97635 WHITTY, E. B., and MILES, R. L. 1968 varieties for Florida & Georgia. *Flue Cured Tobacco Farmer* 4(11):26-27. Dec.1967. SB273.A1F58

## HORTICULTURAL CROPS

- 97636 AMERICAN SOCIETY FOR HORTICULTURAL SCIENCE. Proceedings. Volume 89, Beltsville, Maryland, 1966. 853 p. Ref. 81 So12
- 97637 EAST MALLING RESEARCH STATION. 55th Annual report, 1967. Ashford, 1968. 216 p. 103 Ea7
- 97638 FABRIZ, G. New meeting place for horticulture proves itself. (Ge) *Landesverband Gartenbau Landwirt.* Berlin. *Mitteilungsbl.* 18(4): 18-19. Apr.1967. 85 L233  
Not a school, but a center in Grunberg for discussion and encouraging youth.
- 97639 FLORIDA STATE HORTICULTURAL SOCIETY. Eightieth annual meeting held at Miami Beach, Florida, November 6-9, 1967. n.p., 1967. 527p. 81 F66.
- 97640 GREAT BRITAIN. NATIONAL AGRICULTURAL ADVISORY SERV. EFFORD EXPERIMENTAL HORTICULTURE STATION. Annual report, 1966. Lymington, 1967. 172 p. 84 G7942S
- 97641 IDAHO STATE HORTICULTURE SOCIETY. Transactions of the 73rd annual meeting, November 27-28, 1967, Boise, Idaho. 72p. 81 ID12
- 97642 KOZMA, P., ed. A "Lippai Janos" tudományos ulesszak eladasai, 1965 majus 17-19 [Lectures of the "Janos Lippai" scientific session, May 17-19, 1965]; I-II. Kerteez, Szoleszeti Foiskola. *Kiadv.* 3(1), 426 p.; (2), 484 p. 1966. SB13.K4  
Horticulture and viticulture.
- 97643 LA MONT, T. E. What the Society has done during the past year. N. Y. State Hort. Soc. *Proc.* 113:9-12. 1968. 81 N484
- 97644 MICHIGAN STATE HORTICULTURAL SOCIETY. Ninety-sixth annual report, for the year 1966. Lansing, 1967. 192 p. 81 M58
- 97645 MORRISON, T. M. University [Lincoln College] raises status of study in horticulture. *New Zeal. J. Agr.* 114(1):58-59, 61. Jan.1967. 23 N48J
- 97646 NEW YORK STATE HORTICULTURAL SOCIETY. Proceedings of the 113th annual meeting, Rochester, 1968. 335 p. 81 N484
- 97647 SENGOKU, M. Inspection of horticulture in Java. 1. (Ja) *Agr. Asia* 5(7):28-33, map. July 1967. 22.5 Aj5
- 97648 SMITH, C. N. Some recent developments in the Florida flower and nursery industry. I. General aspects, nursery and bulbs. *Fla. State Hort. Soc. Proc.* 80:465-470. May 1, 1968. 81 F66
- 97649 WASHINGTON STATE HORTICULTURAL ASSOCIATION. Proceedings of the sixty-second annual meeting, Yakima, Washington, December 5-6-7-, 1966. Yakima, 1966. 296 p. 81 W273
- 97650 WASHINGTON STATE HORTICULTURAL ASSOCIATION. Proceedings of the sixty-third annual meeting, Wenatchee, Washington, December 4, 5, and 6, 1967. n.p., 1968? 81 W273
- 97651 ZAGNOLI, M. The specialists of Minoprio. (It) *Esso Agr.* 16(4):30-31. Aug.1967. 58.8 Es7  
School of Horticulture [Scuola di Orto-floro-frutti-coltura] at Minoprio.
- 97653 BORDEIANU, T. Study of vegetative root-stocks in Rumania. (Fr) *Rev. Roum. Biol. Ser. Bot.* 12(4):329-332. 1967. QK1.R4  
Fruit:
- 97654 BROOKS, R. M., and OLMO, H. P. Register of new fruit and nut varieties. List 21. *Amer. Soc. Hort. Sci. Proc.* 89:773-787. Dec.1966. 81 So12
- 97655 CAREW, J. An investment in the future. *Mich. State Hort. Soc. Annu. Rep.* 96:35-40. 1966, pub. 1967. 81 M58  
Fruit research programs of the Department of Horticulture, Michigan State University.
- 97656 CROWDER, M. Results of mold and hold pruning in the Chelan-Manson area. *Wash. State Hort. Ass. Proc.* Dec.5-7, 1966:49-50. 81 W273
- 97657 DEMEL, R. Visit to the experimental garden of the Anderlecht Provincial Horticultural Institute [Institut Provincial d'Enseignement Horticole] at Roosdaal (Pamel). (Fr) *Fruit Belg.* 35(311):251-256. (Cont.) July 1967. 80 F9493  
Chiefly orchard management.
- 97658 FOSTER, L. Forecasts for spraying. *Nova Scotia Fruit Growers Ass. Annu. Rep.* 103(1): 113-118. Dec.1966. 82 N85  
Wind forecasts for Nova Scotia.
- 97659 GRUPCEV, M., and JAKOVSKI, M. The thinning of fruit stands. (Se) *Sovremeno Zemjod.* 14(5):9-10. May 1967. S13.S6
- 97660 HANNON, C. I. A grove record map - what it can tell. *Fla. State Hort. Soc. Proc.* 80:107-111. May 1, 1968. 81 F66  
Layouts, data processing equipment, management.
- 97661 HUMPHRY-BAKER, P. Fruit growing in England. *Wash. State Hort. Ass. Proc.* 1967:96-98. 81 W273
- 97662 JOVICEBIC, S. The state of breeding of fruit and grapes in the collective sector in FR Serbia. (Se) *Savremena Poljoprivreda* 15(4): 367-373. Apr.1967. 21 P75
- 97663 KVAALE, A. Fruit growing at sixty-one degrees north. *Wash. State Hort. Ass. Proc.* 1967:102-103. 81 W273  
Norway.
- 97664 LONGLEY, R. P. A co-operative pruning project of the N.S.F.G.A. [Nova Scotia Fruit Growers Association], NSDA [Nova Scotia Dept of Agriculture] and the Canada Research Station, Kentville. *Nova Scotia Fruit Growers Ass. Annu. Rep.* 103(1):75-76. Dec.1966. 82 N85
- 97665 LUTRICK, M. C., and others. A home orchard for north Florida. *Fla. Univ. Ext. Circ.* 322, 24 p. May 1968. 275.29 F66C  
J. S. Shoemaker, A. H. Krezdorn, and J. E. Brogdon, joint authors.  
Includes nuts.
- 97666 MASSACHUSETTS FRUIT GROWERS' ASSOCIATION. Proceedings of the seventy-third annual meeting, January 5-6, 1967. North Amherst, 1967. 147 p. 81 M384  
In cooperation with the Massachusetts Cooperative Extension Service.
- 97667 MONIN, A. Mist propagation. (Fr) *Fruit Belg.* 35(315):395-401. (Cont.) Nov.1967. 80 F9493
- 97668 MONIN, A. Mist propagation. (Fr) *Fruit Belg.* 36(318):65-70. Feb.1968. 80 F9493
- 97669 NOVA SCOTIA FRUIT GROWERS' ASSOCIATION. One hundred and third annual report; proceedings of the convention held at Kentville, Nova Scotia, Dec.12, 13, 14, 1966. n.p., 1967? 152 p. 82 N85
- 97670 OBSTBAUVERSUCHSRING DES ALTEN LANDES. Report of activity for 1967, by E. L. Loewel. (Ge) *Obstbauversuchsring Alten Landes. Mitt.* 22(1):2-6. Jan.1967. 85 J76
- 97671 SCHAAF, S. V. D. Pruning of young fruit plantings. (Du) *Neth. Provinc. Dir. Rijkslandbouwvoorlichting Friesland. Voorlichting Onderz.* 1966:82-83. SB183.N4A3

## Fruit - General

- 97652 ARGAILLOT, L. Fruit production in Berry. (Fr) *Congr. Pomol. [Compt. Rend.]* 97:11-22. Oct.6,7,8, 1966. 93.09 C7643



- 97672 SCHAAF, S. V. D. Thinning of fruit. (Du) Neth. Provinc. Dir. Rijkslandbouwvoorlichting Friesland, Voorlichting Onderz. 1966:84-87. SB183.N4A3  
To improve quality.
- 97673 SIMOVSKI, K., and others. Possibilities for the exploitation of eroded soils for fruit plantations. (Se) Sots. Zemjod. 18(7/8):1-15. Ref. 1966. 280.28 So7  
B. Manusev, D. Veleva, and I. Kuzmanov, joint authors.
- 97674 SPIROVSKA, R., and GRUPCEV, M. Planting small home orchards. (Se) Sovremeno Zemjod. 13(12):8-10. Dec.1966. S13.S6
- 97675 SPRENG, H. Education of apprentices in commercial fruit growing. (Ge) Schweiz. Z. Obst-Weinbau 103(7):230-237. Apr.1,1967. 80 Sch9
- 97676 STEBBINS, R. L. Fruit and nut varieties for home orchards. Oreg. State Univ. Ext. FS 143, 2 p., map. Apr.1968. 275.29 Or36
- 97677 TREE topping panel. Wash. State Hort. Ass. Proc. Dec.5-7,1966:43-48. 81 W273  
Members: D. Clark, R. Redman, J. E. Kobes, R. Cowin, H. Mills.
- 97678 WILLIAMS, M. W. What about light penetration in high density plantings? Wash. State Hort. Ass. Proc. Dec.5-7,1966:39-42. 81 W273  
Orchard crops.
- 97679 ZBETULLAEV, A. Mountain slopes—for orchards. (Rus) Sadovodstvo [Moscow] 10:14-16. Oct.1967. 80 Sa13
- Citrus and Subtropical Fruits
- 97680 ALLAN, P. Papaw research at Pietermaritzburg. 1. Production from seedlings. Farming S. Afr. 42(10):25-29,31. Jan.1967. 24 So842  
Includes physiology.
- 97681 BLAZQUEZ, C. H. Ortanique, a new orange-tangerine cross. Fla. State Hort. Soc. Proc. 80:331-337. Ref. May 1,1968. 81 F66
- 97682 CAMPBELL, C. W. The mamey sapote in southern Florida. Fla. State Hort. Soc. Proc. 80:318-320. May 1,1968. 81 F66  
Calocarpum sapota.
- 97683 CARVALHO, A. M. DE., and others. Spacing experiments with papaya at Ribeirao Preto, S. P. (Por) Bragantia 25(2):LIX-LX. 1966. 102.5 B73Tb  
G. De Sordi, E. Abramides, and A. J. Reis, joint authors.  
English summary.
- 97684 CEGARRA B., J. R. Comparative study of some important chemical and physical indexes in grafted mango varieties, from the point of view of their industrial utilization. (Sp) Jornadas Agron. Mem., 6th Conf., v.1, paper 13, 21 p. Ref. 1966. S211.J6 1966
- 97685 CHOLAN, G. S., BAKHSI, J. C., and NAURIYAL, J. P. Prebearing performance of sweet orange (*Citrus sinensis* Osbeck) varieties in the arid irrigated regions of Punjab. Punjab Agr. Univ. J. Res. 4(1):68-73. Mar.1967. S19.P8
- 97686 FIGUEROA R., M. Behavior of mango varieties in the Agronomical Research Center. (Sp) Jornadas Agron. Mem., 6th Conf., v.1, paper 5, 30 p. Ref. 1966. S211.J6 1966
- 97687 GARCIA BENAVIDES, J., and SANCHEZ CARRILLO, J. M. Climatic zones for the date palm (*Phoenix dactylifera*) in Venezuela. (Sp) Jornadas Agron. Mem., 6th Conf., v.1, paper 14, 13 p. 1966. S211.J6 1966
- 97688 GARDNER, F. E., and HORANIC, G. E. Poncirus trifoliata and some of its hybrids as rootstocks for Valencia sweet orange. Fla. State Hort. Soc. Proc. 80:85-88. May 1,1968. 81 F66
- 97689 HADDAD GARCIA, O. Yields of the purple granadilla (*Passiflora edulis* var. *flavicarpa*) with different planting differences and espalier heights. (Sp) Jornadas Agron. Mem., 6th Conf., v.1, paper 4, 14 p. Ref. 1966. S211.J6 1966
- 97690 HAWAII PAPAYA INDUSTRY ASSOCIATION. Proceedings: Third annual meeting. Hawaii. Univ. Ext. Misc. Publ. 49, 44 p. Feb.1968. S544.3 H3H3  
Chiefly culture.
- 97691 HOLMQUIST, J. D. Comparative test in grafting of avocado (*Persea americana* Mill.). (Sp) Jornadas Agron. Mem., 6th Conf., v.1, paper 16, 36 p. Ref. 1966. S211.J6 1966
- 97692 HSIUNG, C. M. A study on artificial cross-breeding of citrus. (Ch) Taiwan Agr. Quart. 3(2):10-16. June 1967. S19.T3  
English summary.
- 97693 INOMATA, I. Cultivating and marketing analysis of fuyu-persimmon. (Ja) Shimane Agr. Coll. Bull. 15(A-5):32-44. Jan.1967. S539.J3S5  
English summary.  
In Japan.
- 97694 KAMINEK, M. Date trees in Mesopotamia in the past and today. (Cz) Ziva 16(1):6-7. Jan. 1968. 409.6 Z6  
Culture.
- 97695 KROME, W. H. Avocado varieties I am planting now - and why. Fla. State Hort. Soc. Proc. 80:359-361. May 1,1968. 81 F66
- 97696 KUHNE, F. A. Cultivation of granadillas. 2. Farming S. Afr. 43(12):23-28. Mar.1968. 24 So842
- 97697 LUH, C. L., and YEN, M. J. Citriculture in Japan today. (Ch) Hort. Soc. China. J. 12(3/4): 58-61. Dec.1966. 80 C47  
English summary.
- 97698 LUNA, J. M. Determination of yield and hydrocyanic acid content in some varieties of yuca (*Manihot utilisissima* Pohl.). (Sp) Jornadas Agron. Mem., 6th Conf., v.1, paper 17, 15 p. Ref. 1966. S211.J6 1966
- 97699 MALO, S. E. A successful method for propagating sapodilla trees. Fla. State Hort. Soc. Proc. 80:373-376. May 1,1968. 81 F66
- 97700 MONTALDO, A. Work with yuca (*Manihot utilisissima*) in Venezuela. (Sp) Jornadas Agron. Mem., 6th Conf., v.1, paper 15, 31 p. 1966. S211.J6 1966  
Cultural.
- 97701 MORTON, J. F. Yellow Passionfruit ideal for Florida home gardens. Fla. State Hort. Soc. Proc. 80:320-330. Ref. May 1,1968. 81 F66
- 97702 MOSER, R., and others. Changing technology influencing the fruit processing industry. Hawaii. Univ. Ext. Misc. Publ. 47:33-41. Dec. 1967. S544.3 H3H3  
D. P. Watson, J. K. Wang, J. E. Brekke, and R. Handwerk, joint authors.  
Research in culture and processing.
- 97703 MUNIER, P., HENRY, R. P., and MONNET, J. The date-palm in Haiti. Fruits 22(6):279-280, map. June 1967. 80 F9492  
English summary, p.293.
- 97704 NAGASAKA, K., and HARA, N. Studies on the utilization of Citrus natsudaidai. 2. Discussion of the harvesting period of fruits as materials for manufacturing. (Ja) Shimane Agr. Coll. Bull. 15(A-3):29-33. Jan.1967. S539.J3S5  
English summary.
- 97705 NAKASONE, H. Y. Papaya varieties. Hawaii. Univ. Ext. Misc. Publ. 49:12-14. Feb.1968. S544.3 H3H3
- 97706 OPPENHEIMER, C. Nimrod - a new mango variety selected in Israel. Fla. State Hort. Soc. Proc. 80:358-359. May 1,1967. 91 F66
- 97707 RATNAM, T. C. Coconut improvement: indigenous types show promise. Indian Farming 17(12):21-23. Mar.1968. 22 In283  
Yields in India.
- 97708 ROSANIA, A., and MOSELE, L. Date palms in Elche (Spain). (It) Riv. Agr. Subtrop. Trop. 61(1/3):15-20. Jan./Mar.1967. 26 Ag82
- 97709 SCHREADER, W. R., and RIZZI, A. D. Olive yield decline study in Tehama County; a progress report. Calif. Agr. 21(3):8-9. Mar.1967. 100 C12Cag

- 97710 SIMAO, S. The cultivation of mangoes in Brazil. (Fr) *Fruits* 22(5):239-240. May 1967. 80 F9492  
English summary, p.255.
- 97711 WHITMAN, W. F. A decade of banana introductions. *Fla. State Hort. Soc. Proc.* 80:361-373. May 1, 1968. 81 F66
- 97712 YEE, W. Y. S., and others. Current status of the fruit processing industry in Hawaii. *Hawaii. Univ. Ext. Misc. Publ.* 47:5-16. Dec. 1967. S554.3 H3H3  
P. P. Wallrabenstein, O. Gilbert, and R. Y. Matsuno, joint authors.  
Culture, marketing and processing.
- Deciduous Fruits
- 97713 ABEEV, A. R., and BONDAREV, N. T. Grafting wild apple trees using green cuttings from cultivated varieties. (Rus) *Les. Khoz.* 1:76-77. Jan. 1967. 99.8 L5622
- 97714 ARASU, N. T. Spur-type sports in apples. *East Malling Res. Sta. Annu. Rep.*, Apr. 1968.: 113-119. Ref. 103 Ea7
- 97715 BARTRAM, R. D. Golden Delicious apples. *Wash. State Hort. Ass. Proc.* 1967:193. 81 W273  
Yields in Washington.
- 97716 BEAM, R. Practical management of dense plantings. *Wash. State Hort. Ass. Proc.* 1967: 157. 81 W273  
Deciduous fruit trees in the Western States.
- 97717 BLODGETT, E. C., and AICHELE, M. D. The present status of the nursery certification program in Washington. *Wash. State Hort. Ass. Proc.* 1967:93-94. 81 W273
- 97718 BRAUNS, E. B. Thinning apples with naphthalene acetic acid. *Wash. State Hort. Ass. Proc.* 1967:176. 81 W273
- 97719 CAIN, N. Controversies in maintaining close plantings. *Wash. State Hort. Ass. Proc.* 1967: 151. 81 W273  
Deciduous fruit trees.
- 97720 CAMPANELLO, F. Growing fruit in Emilia. (It) *Esso Agr.* 17(6):14-15. Dec. 1, 1967. 58.8 Es7  
Apples, peaches, pears.
- 97721 CARLSON, R. F. Tree size control and orchard modification. *Mass. Fruit Growers' Ass. Rep.* 73:44-52. 1967. 81 M384  
Apples; with rootstocks.
- 97722 CHRISTENSEN, J. V. Pruning of apples. (Da) *Erhvervsfrugtavlere* 34(12):479-481. Dec. 1, 1967. 80 Er3
- 97723 CLARK, A. D. Thinning apricots. *Wash. State Hort. Ass. Proc.* 1967:171. 81 W273  
Chemical.
- 97724 CROWDER, M. Why we should be interested in mold and hold pruning in the Chelan-Manson area. *Wash. State Hort. Ass. Proc.* 1967:153-155. 81 W273  
Apples.
- 97725 CROWE, A. D. Heavy pruning, large apples and what to do next year. *Nova Scotia Fruit Growers Ass. Annu. Rep.* 103(1):93-95. Dec. 1966. 82 N85
- 97726 CUMMINS, J. N. Orchard performance of Malling-Merton apple rootstocks - an interim report. *N. Y. State Hort. Soc. Proc.* 113:253-258. 1968. 81 N484
- 97727 DARLINGTON, H. Fruit thinning. *Wash. State Hort. Ass. Proc.* 1967:168. 81 W273  
Deciduous fruit trees.
- 97728 DEAL, J. Golden Delicious - production problems. *Wash. State Hort. Ass. Proc.* 1967:194. 81 W273
- 97729 DELMAS, J. Diagnostic methods and criteria for orchard farmers before planting. (Fr) *Congr. Pomol. [Compt. Rend.]* 97:197-206. Oct. 6, 7, 8, 1966. 93.09 C7643
- 97730 DONOHO, C. W. Procedures for chemical thinning apples in years like 1966. *Mich. State Hort. Soc. Annu. Rep.* 96:79-84. 1966, pub. 1967. 81 M58  
Naphthaleneacetic acid, carbaryl, and Amide-Thin.
- 97731 DOTTI, F. Chemical thinning of apples. (It) *Terra Trentina* 14(3):111-117. Mar. 1968. 16 T277
- 97732 DUBOV, S. Investigation on curtailment of skeletal branch prolongators in tree training of Alberta peach variety. (Bu) *Gradinar. Lozar. Nauk.* 4(7):3-10. Ref. 1967. 87 G75  
English summary.
- 97733 EBETULLAEV, A. A. Effectiveness of defoliants in fruit nurseries. (Rus) *Khim. Sel'skom Khoz.* 7:62-64. July 1967. 385 K524  
Calcium chlorate chloride and magnesium hexahydrate chlorate applied on deciduous fruit.
- 97734 ELEMA, R. K., and ROOSJE, G. S. Are intensive apple plantings justified from the point of view of business economics? (Du) *Neth. Dir. Tuinbouw Mededel.* 30(12):487-496. Ref. Dec. 1967. 86 N384  
English summary, p.506.
- 97735 ELLIS, R. Voyage of the Liege Pomological League to England. (Fr) *Fruit Belg.* 35(316): 433-435. Dec. 1967. 80 F9493
- 97736 EMERSON, F. H. Chemical thinning of peaches *Mountaineer Grower* 275:17-20. Apr. 1968. 80 M86
- 97737 FISHER, D. V. Fruit growing observations in the Okanagan. *Nova Scotia Fruit Growers Ass. Annu. Rep.* 103(1):23-29. Dec. 1966. 82 N85  
Deciduous fruit; includes marketing.
- 97738 FREW, S. Harvest your stone fruit carefully. *New Zeal. J. Agr.* 114(4):66-67, 69. Apr. 1967. 23 N48J
- 97739 FRIDAY, D. Your orchard ten years from now! *Mass. Fruit Growers' Ass. Rep.* 73:57-58. 1967. 81 M384  
A Michigan grower's apple orchard management program.
- 97740 GILMORE, T. R. Apple production on the Cumberland Plateau. *Tenn. Agr. Exp. Sta. Bull.* 432, 31 p. Oct. 1967. 100 T25S  
Varieties and yields.
- 97741 GLENN, E. M. Two semi-dwarfing plum rootstock trials. *East Malling Res. Sta. Annu. Rep.*, Apr. 1968:85-87. 103 Ea7  
Yields.
- 97742 GOGOLEVA, B. M. Anis—initial parental form. (Rus) *Sadovodstvo [Moscow]* 11:34. 1967. 80 Sa13  
An apple variety used for hybridization.
- 97743 GRIGOROV, I. Studies on pruning of fruiting wood in peach trees. (Bu) *Gradinar. Lozar. Nauk.* 4(5):15-25. Ref. 1967. 87 G75  
English summary.
- 97744 GYURO, F. Intensive crown forms in large-scale apple culture. (Hu) *Kertes. Sz. Sz. Sz. Foiskola. Kiadv.* 3(2):147-163. 1966. SB13.K4
- 97745 HAMILTON, R. Apple industry research - past and future. *Wash. State Hort. Ass. Proc.* 1967:55-56. 81 W273
- 97746 HANAN, D. Water thinning of peaches. *Wash. State Hort. Ass. Proc.* 1967:171-172. 81 W273
- 97747 HARRINGTON, A., and WILCOX, E. We will have more apples than we thought. *Wash. State Hort. Ass. Proc.* Dec. 5-7, 1966:161-172. 81 W273  
Tree surveys.
- 97748 HEINICKE, D. R. Maintaining high-density plantings. *Wash. State Hort. Ass. Proc.* 1967: 152. 81 W273  
Deciduous fruit trees.
- 97749 HENDRICK, C. Close planting of trees. *Wash. State Hort. Ass. Proc.* 1967:155. 81 W273  
Deciduous fruit trees.
- 97750 HESS, W. F. Evaluation of tree topping as practiced in Washington. *Wash. State Hort. Ass. Proc.* 1967:143-144. 81 W273  
Deciduous fruit trees.
- 97751 JOHNSTON, S. New varieties of peaches, apricots and strawberries. *Mich. State Hort. Soc. Annu. Rep.* 96:154-156. 1966, pub. 1967. 81 M58
- 97752 JONES, A. R. Fruit growing in Colorado. *Wash. State Hort. Ass. Proc.* 1967:111-112. 81 W273  
Apples, peaches, and pears.



- 97753 KARNATZ, Variety changes in the Dutch apple culture during the last 15 years. (Ge) Obstbauversuchsring Alten Landes. Mitt. 22(1): 40-43. Jan.1967. 85 J76
- 97754 KATSURA, O. P. Propagating apple varieties, selected by S. F. Chernenko. (Rus) Sadovodstvo [Moscow] 11:32-33. 1967. 80 Sa13
- 97755 KRAPF, B. Does the Golden Delicious variety need pollination? (Ge) Schweiz. Z. Obst-Weinbau 103(8):266-268. Apr.15,1967. 80 Sch9
- 97756 KRESTNIKOV, A. D., and BARKAUSKAS, A. On the experiment plots of the Baltic States. (Rus) Sadovodstvo [Moscow] 11:28. 1967. 80 Sa13  
Propagation of apples.
- 97757 LAMB, R. C., and WATSON, J. P. Peach and nectarine varieties for New York State. Cornell-Univ. Ext. Cornell Ext. Bull. 1200, 7 p. Mar.1968. 275.29 N48E
- 97758 LAW, W. A. Controversies in maintaining close plantings. Wash. State Hort. Ass. Proc. 1967:156. 81 W273  
Apples.
- 97759 LOMBARD, P. B. Bartlett pear thinning. Wash. State Hort. Ass. Proc. 1967:169-170. 81 W273
- 97760 LONGLEY, R. P. Strains of apple varieties. Nova Scotia Fruit Growers Ass. Annu. Rep. 103(1):31-34. Dec.1966. 82 N85  
Research findings.
- 97761 MARGOLIN, A. F. Crimean common apple. (Rus) Sadovodstvo [Moscow] 11:27. 1967. 80 Sa13  
Propagation.
- 97762 MAUER, K. J. First yields of several apple varieties on their own roots and on two other stocks. (Ge) Klosterneuburg. Hoheren Bundeslehr- Versuchsanst. Wein- Obstbau. Mitt. 16(1):48-51. Jan.1966. 105.9 K696  
English summary.  
Austria.
- 97763 MCCLISKE, J. Fruit growing in New Zealand. Wash. State Hort. Ass. Proc. 1967:105-106. 81 W273  
Harvesting and marketing apples and pears.
- 97764 MCMANUS, G. The problems we face in growing sweet cherries. Mich. State Hort. Soc. Annu. Rep. 96:72-75. 1966, pub.1967. 81 M58
- 97765 MICHALSON, E. L. Projecting apple yields by variety and tree density. Wash. State Hort. Ass. Proc. 1967:76-80. 81 W273  
In Washington.
- 97766 MINOVSKI, D. Thinning of pears and apples. (Se) Sovremeno Zemjod. 13(5):4-5. May 1966. S13.S6
- 97767 A PANEL. Wash. State Hort. Ass. Proc. Dec.5-7,1966:177-184. 81 W273  
Members: R. W. Daniel, J. Van Well, J. H. Stuart, B. Hukarim, B. Zahn.  
On dwarf apple trees.
- 97768 PONS, F. Arboriculture within the C. E. T. A. [Centres d'Etudes Techniques Agricoles] and S. I. C. A. [Societes d'Interet Collectif Agricole] in the Moyenne Durance. (Fr) Potasse 42(352):28-30. Feb.1968. 57.8 P84
- 97769 PRAVICA, D. A contribution to the study of the growth of year old grafted apple seedlings in relation to the density of planting in nurseries. (Se) Poljoprivredni Pregl. 15(7/8):287-289. July/Aug.1966. 21.5 P753
- 97770 PRESTON, A. P., and QUINLAN, J. D. A fruit thinning experiment with Cox's Orange Pippin apple. East Malling Res. Sta. Annu. Rep. Apr.1968:75-78. 103 Ea7
- 97771 PRINCE, R. Tree size and orchard modification. Mass. Fruit Growers' Ass. Rep. 73:53-56. 1967. 81 M384  
Apples; control with rootstocks.
- 97772 PROBOCKAI, E. Propagation by layering of Golden Delicious, Jonathan and Starking apple varieties. (Hu) Kertesz. Szoleszeti Foiskola. Kiadv. 3(2):7-28. Ref. 1966. SB13.K4
- 97773 PROEBSTING, E. L. Peach thinning. Wash. State Hort. Ass. Proc. 1967:172-173. 81 W273  
Chemical.
- 97774 RITTER, C. M. Developing apple trees on clonal rootstocks. Mountaineer Grower 275:3-8. Apr.1968. 80 M86
- 97775 ROGERS, L. A. Pear growing in Lake County, California. Wash. State Hort. Ass. Proc. 1967:99-100. 81 W273
- 97776 SAURE, M. Variety protection for apples too? (Ge) Obstbauversuchsring Alten Landes. Mitt. 22(2):77-80. Feb.1967. 85 J76
- 97777 SAVAGE, E. F., HAYDEN, R. A., and WARD, W. E. The effect of subsoiling on the growth and yield of peach trees. Ga. Agr. Exp. Sta. Res. Bull. 30, 15 p. Mar.1968. S51.E2
- 97778 SCHELL, B. Chemical thinning of Golden Delicious and Red Delicious apples. Wash. State Hort. Ass. Proc. 1967:173-176. 81 W273
- 97779 SLOVIC, D. The growth of Malus pumila types of apples in stock nursery for vegetative propagation. (Se) Novi Sad. Poljopr. Fak. Letop. Naucnih Rad. 10:73-83. 1966. 106.6 N85  
English summary.
- 97780 SNYDER, J. C. Training trees in high density plantings. Wash. State Hort. Ass. Proc. 1967:158-162. 81 W273  
Apples, pears, cherries.
- 97781 SPIROVSKA, R. Santa Maria, a summer variety of pears of high quality. (Se) Sovremeno Zemjod. 14(4):12. Apr.1967. S13.S6
- 97782 THOMPSON, A. H. Chemical thinning - today and tomorrow. Mountaineer Grower 275:8-12. Apr.1968. 80 M86  
In apple culture.
- 97783 TOROPOVA, G. N. Harvesting date and the keeping quality. (Rus) Sadovodstvo [Moscow] 10:23-24. Oct.1967. 80 Sa13  
Apples.
- 97784 TSELUIKO, N. A. Determining harvesting date for fruit. (Rus) Sadovodstvo [Moscow] 10:23. Oct.1967. 80 Sa13  
Deciduous.
- 97785 VAN BLARICOM, L. O., and others. Evaluation of peach varieties for processing in South Carolina. S. C. Agr. Exp. Sta. Bull. 539, 19 p. Feb.1968. 100 So8  
H. J. Sefick, R. A. Baumgardner, and R. J. Ferree, joint authors.
- 97786 VONDRACEK, J. A contribution to the study of possible shortening of juvenility phase in apple hybrids. (Cz) Sb. UVTI (Ustav Vedeckotech. Inform.) Genet. Slechteni 3(3):183-190. Ref. June 1967. QH431.A1S25  
English summary.  
Includes effect of pruning and grafting.
- 97787 WIRTH, A., and MELI, T. The rationalization of harvest in intensive fruit farms. (Ge) Schweiz. Z. Obst- Weinbau 103(19):560-571. Sept.16,1967. 80 Sch9  
Apples.
- 97788 WIRTH, A., MELI, T., and DARBELLAY, C. Studies on harvesting efficiency in intensive fruit culture. (Ge) Schweiz. Landwirt. Forsch. 4(3):247-285. 1967. 17 Sch99  
English summary.
- 97789 WOODS, I. Establishing and managing pollinizers. Wash. State Hort. Ass. Proc. 1967:200. 81 W273  
Apples.

## Small Fruits

- 97790 ANDERSEN, R. G. Design of berry cultivation program. (No) Norsk Landbruk 12(1):14-15, 20. Jan.1968. 11 N8122
- 97791 ANDERSON, E. T., and GRIMSBO, N. Native fruits for northeast Minnesota. Minn. Sci. 23 (3):52. Apr.1967. 100 M668  
Culture of blueberries and cranberries.
- 97792 AVRAMOVSKI, K. Pinching as an important measure in the regulation of growth and production of new grapes. (Se) Sovremeno Zemjod. 14(4):13. Apr.1967. S13.S6
- 97793 AVRAMOVSKI, K. Pruning of grapes injured by winter frost. (Se) Sovremeno Zemjod. 14 (3):8. Mar.1967. S13.S6

- 97794 BARANOVA, O. Propagating currants in Altai. (Rus) Sadovodstvo [Moscow] 10:29. Oct.1967. 80 Sa13
- 97795 CHIGOEV, I. Z. Grapes in the piedmont zone. (Rus) Sadovodstvo [Moscow] 10:34. Oct.1967. 80 Sa13  
Cultivation in Osetia.
- 97796 CHRISTENSEN, L. P., and others. A study of pneumatic pruning in vineyards, and comparisons with hand pruning costs. Calif. Agr. 21(5): 8-10. May 1967. 100 C12Cag  
A. N. Kasimatis, B. B. Burlingame, and D. A. Luvisi, joint authors.
- 97797 CLORE, W. J., BRUMMUND, V. P., and CARTER, G. H. 1966 grape production in Washington State. Wash. State Hort. Ass. Proc. Dec.5-7,1966:193-197. 81 W273  
Culture and fields.
- 97798 CLORE, W. J., BRUMMUND, V. P., and CARTER, G. H. 1967 grape production in Washington State. Wash. State Hort. Ass. Proc. 1967:206-210. 81 W273
- 97799 CRAIG, D. L., and AALDERS, L. E. Influence of cultural systems on strawberry fruit yield and berry size. Amer. Soc. Hort. Sci. Proc. 89:318-321. Dec.1966. 81 So12
- 97800 CSEPREGI, P. Factors determining yield capacity of grape buds. (Hu) Kertesz. Szoleszeti Foiskola. Kiadv. 3(2):339-358. Ref. 1966. SB13.K4
- 97801 DEBEUNNE, J. L. First reflections on the strawberry season in Southern France. (Fr) Pomol. Franc. 9(6):167-168. June 1967. 80 P77
- 97802 EINSET, J., KIMBALL, K., and WATSON, J. Grape varieties for New York State. Cornell Univ. Ext. Cornell Ext. Bull. 1201,8 p. Mar. 1968. 275.29 N48E
- 97803 HARANT, M. Results of field trials with currant varieties. (Cz) Zahradnicke Listy 61(5): 137-139. May 1968. 80 Z12  
Yields.
- 97804 IMPRESSIONS from a viticultural study trip to France. (Ge) Winzer 23(12):239-242. Dec. 1967. 95.8 W73
- 97805 JANKOWSKI, T. A cultivated noble garden wild strawberry and its importance in the light of comparative studies. (Pol) Wroclaw Wyzsza Szkola Roln. Zeszyty Nauk. Roln. 21(66):227-235. 1967. 20.5 B75  
English summary.
- 97806 JOVANOVSKI, D. Providing quality planting material for intensive grape plantations. (Se) Sovremeno Zemjod. 14(3):10. Mar.1967. S13.S6
- 97807 KEEP, E., and KNIGHT, R. L. Use of the black raspberry (*Rubus occidentalis* L.) and other *Rubus* species in breeding red raspberries. East Mallng Res. Sta. Annu. Rep., Apr.1968: 105-107. 103 Ea7
- 97808 KELEINIKOVA, N., and SMARAGDOVA, N. Better varieties of raspberries and gooseberries. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 9:44. Sept.1967. 281.8 Se4
- 97809 KONDAREV, M. Development of grape culture in Bulgaria. (Hu) Kertesz. Szoleszeti Foiskola. Kiadv. 3(2):467-484. 1966. SB13.K4
- 97810 LELEKOV, I. Land clearing for planting grapes. (Se) Sovremeno Zemjod. 13(3):7-8. Mar.1966. S13.S6
- 97811 LELEKOV, I. Planting grape varieties of high yields. (Se) Sovremeno Zemjod. 13(10):9-11. Oct.1966. S13.S6  
Includes cultural practices.
- 97812 LELEKOV, I. Pruning of grapes during the vegetative period. (Se) Sovremeno Zemjod. 13(5):6-8. May 1966. S13.S6
- 97813 LELEKOV, I. Staking of grapes. (Se) Sovremeno Zemjod. 13(6):9-11. June 1966. S13.S6
- 97814 LELEKOV, I. Summer cultural practices of grapes. (Se) Sovremeno Zemjod. 13(8):8-10. Aug.1966. S13.S6  
Includes harvesting.
- 97815 LUNDIN, Y. Preussen. (Sw) Hallands Lans Hushallningssallsk. Tidskr. 2:26-27. Mar.1967. 11 H152  
Raspberry.
- 97816 MAJOROS, L. Our table grape sortiments increased with the Rekord variety. (Hu) Kertesz. Szolesz. 16(15):15. Aug.1967. 80 K474
- 97817 MISIC, P. D., BUGARCIC, V. Z., and TESIC, M. B. New strawberry variety 45/7. (Se) Arh. Poljoprivredne Nauk. 20(69):23-31. 1967. 21.5 Y9  
English summary.
- 97818 MOORE, J. N., and BOWDEN, H. L. Post-harvest defoliation of strawberries. Ark. Farm Res. 17(2):9. Mar./Apr.1968. 100 Ar42F  
Mowing plant to increase yields and fruit size of next crop.
- 97819 NADZHAFOV, S. A. Raisin type grape varieties. (Rus) Sadovodstvo [Moscow] 10:33. Oct. 1967. 80 Sa13
- 97820 NENOV, S. Pruning as affecting yields of vineyards established on bench terraces. (Bu) Gradinar. Lozar. Nauk. 4(7):103-109. 1967. 87 G75
- 97821 NORTHERN IRELAND. MINISTRY OF AGRICULTURE. ADVISORY SERV. Raspberries. Northern Ireland. Min. Agr. Adv. Serv. Leaflet. 71,7 p. Mar.1968. 10 N81  
Culture.
- 97822 OURECKY, D. K. New and promising varieties of strawberries and raspberries. N. Y. State Hort. Soc. Proc. 113:297-300. 1968. 81 N484
- 97823 PALIERI, M. Grapevines, green pruning and fertilizing in Lazio. (It) Raccolto 9(3):45-48. Mar.1968. 16 R11
- 97824 POSPISILOVA, D. Study on table varieties of grapes. II. (Cz) Pol'nohosopodarstvo 14(2):95-108. Ref. 1968. 19.5 P752  
English summary.
- 97825 PROCTOR, J. T. A. Growing raspberries and currants in England. N. Y. State Hort. Soc. Proc. 113:300-302. 1968. 81 N484
- 97826 PRONI, G., and PALLAVICINI, G. Introduction to viticultural study in agricultural economy of Piedmont. (It) Turin. Univ. Fac. Sci. Agr. Ann. 1:253-306. 1961-62, pub.1966. S9.T8  
English summary.  
Grape culture and wine industry.
- 97827 SCHOFFLING, H. Determination of optimal height of foliage at the top of grape vine. (Ge) Schweiz. Z. Obst- Weinbau 103(19):571-577. (Cont.) Sept.16,1967. 80 Sch9
- 97828 SHERMAN, W. B., and WESTGATE, P. J. Blackberry production in Florida. Fla. Univ. Ext. Circ. 325,12 p. May 1968. 275.29 F66C
- 97829 SHERMAN, W. B., WESTGATE, P. J., and KUHN, G. D. Characterization of some Florida blackberries. Fla. State Hort. Soc. Proc. 80:344-347. May 1,1968. 81 F66
- 97830 SHERMAN, W. B., JANICK, J., and ERICKSON, H. T. Inheritance of fruit size in strawberry. Amer. Soc. Hort. Sci. Proc. 89:309-317. Ref. Dec.1966. 81 So12  
Breeding.
- 97831 STAUDT, G. The genetics and evolution of heterocism in the genus *Fragaria* I. Investigations on *Fragaria orientalis*. (Ge) Z. Pflanzenzucht. 58(3):245-277. Ref. Nov.1967. 450 Z36  
English summary.
- 97832 TONCHEV, G. On the pruning of Rkatsiteli grape variety. (Bu) Gradinar. Lozar. Nauk. 4(7):119-125. Ref. 1967. 87 G75  
French summary.
- 97833 U. S. AGRICULTURAL RESEARCH SERV. CROP RESEARCH DIV. Strawberry culture; eastern United States. U. S. D. A. Farmers' Bull. 1028, slightly rev., 20 p., map. Mar.1968. 1 Ag84F
- 97834 ULICEVIC, M. Prilog proucavanju osobina najvaznijih sorta vinove loze gajenih u SR Crnoj Gori [A contribution to the study of properties of most important grape varieties grown in Montenegro]. (Se) Bibl. Arh. Poljopr. Nauke 10(23), 100 p. Ref. 1966. 21.5 B47  
French summary.
- 97835 VITANOV, R. Planting of grapes. (Se) Sovremeno Zemjod. 14(2):10-11. Feb.1967. S13.S6



- 97836 ZORKIC, M. The effect of rootstocks on the life span of grapes. (Se) Savremena Poljoprivreda 15(4):361-366. Apr.1967. 21 P75 English summary.
- 97837 ZVARA, V. The highbush blueberry [*Vaccinium corymbosum*]. (Cz) Les [Bratislava] 24 (2):84-85. 1968. 99.8 L5632 Culture.
- Nuts
- 97838 AIYADURAI, S. G., and PREMANAND, P. P. Can cashew become a more remunerative plantation crop? Indian Cashew J. 4(1):2-7. Mar.15,1967. 286.83 C26 Cultural methods.
- 97839 ALLAN, P., and MITCHELL, C. F. More macadamias. Farming S. Afr. 43(12):7-12. Mar.1968. 24 So842 Propagation of *M. integrifolia* and *M. tetraphylla*.
- 97840 AYFER, M. The cultivation of the pistachio [*Pistacia vera*] in Turkey. (Fr) Fruits 22(8):351-367. Ref. Sept.1967. 80 F9492 English summary, p.391.
- 97841 DILENDIK, N. N. In the Belorussia. (Rus) Sadovodstvo [Moscow] 10:36-37. Oct.1967. 80 Sa13 Cultivation of *Juglans regia*.
- 97842 FONTANAZZA, G., and SALLEO, S. Propagation of the hazelnut; continuous layering tests. (It) Ital. Agr. 105(3):277-289. Ref. Mar.1968. 16 It1
- 97843 HOWARD, B. H. Hazel propagation by hardwood cuttings. East Malling Res. Sta. Annu. Rep., Apr.1968:93-94. 103 Ea7 *Corylus avellana*.
- 97844 KALMYKOV, S. Persian walnut; varieties. (Rus) Sadovodstvo [Moscow] 10:35-36. Oct. 1967. 80 Sa13
- 97845 LAGERSTEDT, H. B., BYERS, D. R., and ROBERTS, W. W. The 1967 walnut variety evaluations. Nut Growers Soc. Oreg. Wash. Proc. Dec.8,1967:55-58. 94.69 W52 In Oregon.
- 97846 LAGERSTEDT, H. B. Plans for research with nut crops. Nut Growers Soc. Oreg. Wash. Proc. Dec.8,1967:23-29. 94.69 W52 Filberts: propagation and culture.
- 97847 NORTHWOOD, P. J., and others. Cashew nut production in Southern Tanzania. III. Early yields from a cashew spacing experiment. IV. The root system of the cashew nut tree. V. Water balance of cashew trees in relation to spacing. East. Afr. Agr. Forest. J. 33(1):81-94. July 1967. 24 Ea74 A. Tsakiris, M. Dagg, R. G. Tapley, joint authors.
- 97848 POPOVSKI, P. Establishment of nuts stands. (Se) Sovremeno Zemjod. 13(6):4-6. June 1966. S13.S6 Chiefly planting seeds and care of seedlings.
- Shade Trees and Ornamental Plants
- 97849 AALSMEER. PROEFSTATION VOOR DE BLOEMISTERIJ IN NEDERLAND. Jaarverslag [Annual report of the Experiment Station for Floriculture in Netherlands]. Aalsmeer, 1966. 147 p. 86 Aa4
- 97850 ADOLFS, P. J. H. N. Selection of *Chrysanthemum* novelties. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:51. 86 Aa4
- 97851 ADOLFS, P. J. H. N. Selection of new Dahlias. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:66. 86 Aa4
- 97852 AMOS, J. Water lilies are beautiful and easy to grow. New Zeal. J. Agr. 114(4):34-35,37, 39. Apr.1967. 23 N48J Nymphaeaceae.
- 97853 ASKENAS, K. Do cut roses have to wilt quickly? (Pol) Pol. Tow. Milosnikow Roz. Roc. 1:114-118. 1965, pub.1966. SB403.P6 Preservation.
- 97854 BAKKER, J. Early forcing of *Lilium longiflorum* "Early White." (Du) Aalsmeer, Proefsta. Bloemisterij. Jaarverslag 1966:86-87. 86 Aa4
- 97855 BAKKER, J. Forcing of *Lilium Brandywine*. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:85-86. 86 Aa4
- 97856 BEASLEY, J. L. Good planting for safe enjoyable motoring. Turf Bull. 4(4):12-14. Summer 1967. 60.18 T846 Implementation of Beautification Program.
- 97857 BELGRAVER, W. Comparative yields of cuttings of different age and provenance. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:28-29. 86 Aa4 Carnations.
- 97858 BELGRAVER, W. Variety trials 1966-1967. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:26-28. 86 Aa4 Carnations.
- 97859 BELGRAVER, W. Yield trials with densely planted carnations. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:29-31. 86 Aa4
- 97860 BEN-YEHOSHUA, S., and others. Effect of ethylene oxide on opening and longevity of cut rose flowers. Amer. Soc. Hort. Sci. Proc. 89:677-683. Dec.1966. 81 So12 B. Juven, M. Fruchter, and A. H. Halevy, joint authors.
- 97861 BENS, S. Carnation culture in the Mediterranean. (It) Ital. Agr. 104(4):455-466. Apr. 1967. 16 It1
- 97862 BESSERER, R. The flower show, a place for international meetings. (Ge) Landesver. Gartenbau Landwirt. Berlin. Mitteilungsbl. 18 (2):3-5. Feb.1967. 85 L233 At the Grune Woche 1967 in Berlin.
- 97863 BLASER, R. E. Establishing and maintaining turf and soil cover along newly constructed highways. West. Va. Agr. Exp. Sta. Misc. Publ. 5,11-16. May 1968. S127.E2 To beautify and to control erosion.
- 97864 CANIZO PERATE, J. A. DEL. Conservation of gardens. 1. (Sp) Agricultura [Madrid] 37(430):67-70. Feb.1968. 15 Ag84 Maintenance of ornamental plants.
- 97865 CIHAR, J. Low Rhododendrons in the garden and rock garden. (Cz) Ziva 15(3):94-97. May 1967. 409.6 Z6 Culture.
- 97866 CORNELL UNIVERSITY. STATE COLLEGE OF AGRICULTURE. EXTENSION SERV. Cornell recommendations for commercial production and maintenance of trees and shrubs. Cornell Univ. Ext. Cornell Misc. Bull., Mar.1968, rev., 50 p. 275.29 N48Cm
- 97867 DAVIS, R. R. Grass mixtures for lawns and golf courses. West. Va. Agr. Exp. Sta. Misc. Publ. 5:34-40. May 1968. S127.E2
- 97868 DEKERT, F. Some practical advice on rose planting for amateur gardeners. (Pol) Pol. Tow. Milosnikow Roz. Roc. 1:57-60. 1965, pub.1966. SB403.P6
- 97869 DESPUJOL TRENOR, R. Insertion of the graft. (Sp) Tierra [Mexico] 23(3):102-103. (Cont.) Feb.1968. 8 T445 Shrubs.
- 97870 DUBOSE, L. W. Changing bermuda varieties on golf greens without fumigants. Tex. Turf-grass Conf. Proc. 22:26-27. Dec.1967. 60.19 T31
- 97871 DUNCAN, A. A. Ornamental gourds. Oreg. State Univ. Ext. FS 136, 2 p. Mar.1968. 275.29 Or36 Culture.
- 97872 DURKIN, D., and KUC, R. Vascular blockage and senescence of the cut rose flower. Amer. Soc. Hort. Sci. Proc. 89:683-688. Ref. Dec. 1966. 81 So12
- 97873 DURKIN, D. J., and JANICK, J. The effect of plant density on greenhouse carnation production. Amer. Soc. Hort. Sci. Proc. 89:609-614. Dec.1966. 81 So12
- 97874 FACHGRUPPE BLUMEN- UND ZIERPFLANZENBAU. Election meeting, February 22, 1967, Berlin. (Ge) Landesverband Gartenbau Landwirt. Berlin. Mitteilungsbl. 18(3):3-6. Mar.1967. 85 L233 Includes abstracts of papers presented.

- 97875 FAVREAU, J. Attempts to force cut branches of lilac. (Fr) Fr. Hort. 197:38-51. Apr.1967. SB7.F7
- 97876 FISCHER, W. J. Ferns, rewarding indoor plants. (Ge) Kosmos 64(2):\*39-\*42. Feb.1968. 474 K842
- 97877 FOOTE, L. E. Put strength in roadside turf with fertilizer. Better Crops Plant Food 52(2): 10-12. 1968. 6 B46  
Chiefly maintenance.
- 97878 GALANTAI, M. Field species of Primula. (Hu) Kertesz. Szolesz. 16(15):12-13. Aug.1967. 80 K474
- 97879 GELEIN, C. A comparison of Begonia semperflorens hybrids. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:44-48. 86 Aa4
- 97880 GELEIN, C. A comparison of Begonia semperflorens varieties for pot plant culture under glass. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:48-49. 86 Aa4
- 97881 GLATZEL, K. The planting of shelter-hedges as measures in the care of landscapes in Upper Rhine. (Ge) Baden-Württemg. Landesstelle Naturschutz Landschaftspflege Veröffentlichungen 35:144-151. 1967. 410.9 W96
- 97882 GOLEBIEWSKA, I. A review of the activities of the Polish Rose Society [Polskie Towarzystwo Milosnikow Roz]. (Pol) Pol. Tow. Milosnikow Roz. Roczn. 1:18-32. 1965, pub. 1966. SB403.P6
- 97883 GRABCZEWSKA, J. The Canadian Rose Society. (Pol) Pol. Tow. Milosnikow Roz. Roczn. 1:33-35. 1965, pub. 1966. SB403.P6
- 97884 GRABCZEWSKA, J. "Miss Canada". (Pol) Pol. Tow. Milosnikow Roz. Roczn. 1:93-96. 1965, pub. 1966. SB403.P6  
Canada's "Centennial Rose."
- 97885 GRABCZEWSKY, J. L. Some remarks on new varieties. (Pol) Pol. Tow. Milosnikow Roz. Roczn. 1:71-79. 1965, pub. 1966. SB403.P6
- 97886 GRABCZEWSKI, L. Rose Growers' Group [Zespol Producentow Roz]. (Pol) Pol. Tow. Milosnikow Roz. Roczn. 1:38-41. 1965, pub. 1966. SB403.P6  
Includes rose nurseries.
- 97887 GRIPP, P. Cymbidiums--five popular miniatures with lasting appeal. Amer. Orchid Soc. Bull. 37(4):284-286. Apr.1968. 80 Am329
- 97888 GUERTNER, B. How to choose and use shrubs and trees. Sydney, Grenville, 1967. 128 p. SB435.G8
- 97889 ISHCHENKO, L. E. Introduction of some ornamental plant cultures of Turkmenistan flora. (Rus) Akad. Nauk Turkm. SSR. Izv. Ser. Biol. Nauk 4:54-60. 1967. 442.9 Ak124
- 97890 IVCHENKO, N. Arborvitae as ornamental plants. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 8:48. Aug.1967. 281.8 Se4  
Thuja occidentalis in the USSR.
- 97891 JOINER, J. N., CONOVER, C. A., and SHEEHAN, T. J. Variations in yield and quality of Chrysanthemum morifolium 'Iceberg' flowers due to different planting patterns. Fla. State Hort. Soc. Proc. 80:421-423. May 1, 1968. 81 F66
- 97892 KADNER, D. A way to a better and more beautiful village. (Ge) Bl. Naturschutz 48(1):3-5. Mar.1968. 279.8 B61
- 97893 KOTLABA, F. The genus Annona in Cuba. (Cz) Ziva 16(1):18. Jan.1968. 409.6 Z6  
Culture and varieties.
- 97894 KRUK, C. 24. (Du) Zaadbelangen 22(3):55-57. Feb.15, 1968. 61.8 Z1  
Varieties of ornamentals.
- 97895 KUROWSKI, L. Production of tree roses. (Pol) Pol. Tow. Milosnikow Roz. Roczn. 1:54-56. 1965, pub. 1966. SB403.P6  
Grafting, rootstocks, and culture.
- 97896 LA FOUCHARDIERE, G. DE. Some thoughts on the use of shade trees. (Fr) Rev. Forest. Franc. 20(4):245-248. Apr.1968. 99.8 R329
- 97897 LARSEN, F. E., and CROMARTY, R. W. Effect of N-dimethyl amino succinamic acid (Alar) on micro-organism growth in relation to cut flower senescence. Amer. Soc. Hort. Sci. Proc. 89:723-726. Dec.1966. 81 So12
- 97898 LARSEN, F. E., and SCHOLLES, J. F. Effects of 8-hydroxyquinoline citrate, N-dimethyl amino succinamic acid, and sucrose on vase-life and spike characteristics of cut snapdragons. Amer. Soc. Hort. Sci. Proc. 89:694-701. Ref. Dec.1966. 81 So12
- 97899 LEFFRING, L. Breeding for resistance. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:31-32. 86 Aa4  
Resistance of carnations to Phialophora.
- 97900 LEFFRING, L., and ZWAARD, P. VAN DER. Culture and selection of irradiated Chrysanthemums. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:50. 86 Aa4
- 97901 LEFFRING, L. Hybridization. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:84. 86 Aa4  
Kalanchoe.
- 97902 LEFFRING, L. Selection of Gerbera. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:73. 86 Aa4
- 97903 LEVONEN, H. J. How close should we plant Chrysanthemum? (No) Gartneryrket 36(57): 761-762. Sept.8, 1967. 80 G1938
- 97904 LEWANDOWSKI, H. Miniature roses. (Pol) Pol. Tow. Milosnikow Roz. Roczn. 1:80-83. 1965, pub. 1966. SB403.P6
- 97905 LOFGREN, J. A., and others. Evergreens. Minn. Univ. Ext. Bull. 258, 36 p. Mar.1968. 275.29 M66S  
H. G. Johnson, M. C. Eisel, M. E. Smith, and J. P. McKinnon, joint authors.  
Chiefly care as ornamental plants.
- 97906 LUER, C. A. A natural hybrid in Habenaria. Amer. Orchid Soc. Bull. 37(4):323-324. Apr. 1968. 80 Am329  
Habenaria schweinfurthii, hybrid of H. blephariglottis and H. ciliaris.
- 97907 LYON, L. Breeding African violets and roses. GSN (Gesneriad Saintpaulia News) 4(3):20-21. May/June 1967. 80 G33
- 97908 MAGIE, R. O. Curing gladiolus corms in relation to flower and corm production. Fla. State Hort. Soc. Proc. 80:436-439. May 1, 1968. 81 F66
- 97909 MARSBERGEN, W. VAN. Transplanting of new rose varieties. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:98-103. 86 Aa4
- 97910 MATHIAS, M. E., and others. Ornamentals for California's middle elevation desert. Calif. Agr. Exp. Sta. Bull. 839, 43 p., map. Mar.1968. 100 C125  
W. Metcalf, M. H. Kimball, C. L. Hemstreet, D. E. Gilbert, and W. B. Davis, joint authors.
- 97911 MILLER, P. F., and HETHERINGTON, E. E. Magnificent miniatures. Amer. Orchid Soc. Bull. 37(4):313-317. Apr.1968. 80 Am329  
Description of Cymbidium varieties.
- 97912 MILLER, R. W. Thatch development and control. W. Va. Agr. Exp. Sta. Misc. Publ. 5:41-44. May 1968. S127.E2  
Turf management.
- 97913 MILLER, R. W., and others. Your lawn. Ohio. State Univ. Ext. Bull. 271, rev., 35 p. May 1968. 275.29 Oh32  
R. L. Miller, R. E. Partyka, E. W. Stroube, R. R. Davis, and M. H. Niehaus, joint authors.
- 97914 MOHLEN, P. Raising tulips in hills. (Du) Neth. Provinc. Dir. Rijkslandbouwvoorlichting Friesland Voorlichting Onderz. 1966:92. SB183.N4A3
- 97915 NIEMIRSKI, W. The rosarium in the Provincial park for culture and recreation in Katowice. (Pol) Pol. Tow. Milosnikow Roz. Roczn. 1:36-37. 1965, pub. 1966. SB403.P6
- 97916 NIGHSWONGER, J. J., and PARKS, C. E. Site planning for home landscape development. Kans. State Univ. Ext. C-381, 12 p., map. Mar. 1968. 275.29 K13Ex  
Includes architecture.
- 97917 NOWAK, J. On hybrid multiflora roses (Rosa floribunda and R. floribunda grandiflora). (Pol) Pol. Tow. Milosnikow Roz. Roczn. 1:63-70. 1965, pub. 1966. SB403.P6
- 97918 OATES, J. T. Trees have flowers too! Arborists News 33(2):1-2. Feb.1968. 99.8 Ar14



- 97919 OPLT, J. The planting of orchids. (Cz) Ziva 15(3):90-94. May 1967. 409.6 Z6
- 97920 OPLT, J. Prospective ornamental house plants. (Cz) Ziva 15(5):170-173. Sept.1967. 409.6 Z6 Culture.
- 97921 PANCHO, J. V., and CABALQUINTO, L. C. Exotic ornamental bamboos. Philippine Farms Gard. 4(5):38-39. May 1967. 25 P5323 Culture.
- 97922 PARKS, C. E., and NIGHSWONGER, J. J. Landscape development for an urban home. Kans. State Univ. Ext. C-379,24 p. May 1967. 275.29 K13Ex  
Includes architecture.
- 97923 PATTERSON, J. M. Container growing. II. Learn about the business. Amer. Nurseryman 126(12):11,75,77. Dec.15,1967. 80 Am371
- 97924 POLSKIE TOWARZYSTWO MIŁOSNIKÓW ROZ. Rocznik [Yearbook of the Polish Rose Society], 1, 1965. Warszawa, Polskie Wydawnictwo Rolnicze i Leśne, 1966. 136 p. SB403.P6
- 97925 POWELL, R. H. Grown plants ready for the garden. New Zeal. J. Agr. 114(4):25. Apr. 1967. 23 N48J  
Container grown ornamentals from nurseries.
- 97926 SCHELL, G. W. Maintaining turf for beauty. Tex. Turfgrass Conf. Proc. 22:83-85. Dec.1967. 60.19 T31
- 97927 SCHERY, R. W. Turfgrass, America's "growingest" crop. Better Crops Plant Food 52(2): 24-27, map. 1968. 6 B46
- 97928 SCHMITT, R. J. Comparison of Euphorbia pulcherrima varieties. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:92-94. 86 Aa4
- 97929 SCHMITT, R. J. A comparison of Hibiscus rosa-sinensis varieties. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:76-79. 86 Aa4
- 97930 SCHMITT, R. J. New Cyclamen varieties. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:59. 86 Aa4
- 97931 SCHOLZ, H. International seed exchange and our singular Botanic Garden. (Ge) Landesver. Gartenbau Landwirt. Berlin. Mitteilungsbl. 19 (1):41-42. Jan.1968. 85 L233  
Berlin Botanischer Garten und Botanisches Museum Dahlem; ornamental plant seeds.
- 97932 SCHUPPER, J. F. B. M. Sortiment en opbrengsten van de rozen teelt in oost-Noordbrabant [Variety and yields of rose culture in eastern North Brabant]. Landbouw-Econ. Inst. Overz. 326,29 p. July 1966. 281.9 L230
- 97933 SKRZYPCZAK, P. In the world's nurseries. (Pol) Pol. Tow. Miłosników Roz. Roczn. 1:97-100. 1965, pub.1966. SB403.P6
- 97934 SMITH, C. N. Some recent developments in the Florida flower and nursery industry. II: Flowers and flowering plants. Fla. State Hort. Soc. Proc. 80:470-477. May 1, 1968. 81 F66
- 97935 SNYDER, L. C., and others. Native plants for community landscaping. Minn. Sci. 23(3):46-47. Apr.1967. 100 M668  
A. G. Johnson, R. Mullin, H. Pellett, R. Phillips, M. Smithberg, and D. B. White, joint authors.
- 97936 SODERHOLM, P. K. Evaluation of Dombeya introductions for new ornamentals for Florida. Fla. State Hort. Soc. Proc. 80:477-480. May 1, 1968. 81 F66
- 97937 SOUTH DAKOTA. AGRICULTURAL EXPERIMENT STATION. McCrory Gardens; New Horticultural Research, instruction, and demonstration area at SDSU [South Dakota State University]. S. Dak. Farm Home Res. 18(2):4-5. Spring 1967. 100 So82S
- 97938 STEVENS, W. R. Some interesting plants. New Zeal. Plants Gard. 7(6):271-274. Mar.1968. 80 N4824  
Lyonothamnus florabundus, Eriogonum giganteum, and Haemanthus katherinae.
- 97939 STRYDOM, D. Creepers for the garden. Farming S. Afr. 42(10):48-50. Jan.1967. 24 So842
- 97940 TEXAS TURFGRASS ASSOCIATION. Proceedings of the twenty-second annual Texas Turfgrass Conference, College Station, Texas, December 4-6, 1967. n.p., 1967. 113 p. 60.19 T31  
Texas A. & M. University cooperating.
- 97941 THOMAS, G. S. The old shrub roses. Ed. 4. London, Phoenix House, 1966. 232 p. Ref. SB411.T52 1966
- 97942 TRUELSEN, A. R. Safety practices in tree pruning. Arborists News 33(2):3-4. Feb.1968. 99.8 Ar14
- 97943 TU, G. S. Cultural experiments on introduced Sim carnations. (Ch) Hort. Soc. China. J. 12(3/4):15-23. Ref. Dec.1966. 80 C47  
English summary.
- 97944 VERMEER, H. J. A medieval treatise on rose-breeding. (Ge) Z. Agrargesch. Agrarsoziol. 15(2):134-136. Oct.1967. 30.98 Z3
- 97945 VESEL, S. What Gladioli varieties are suitable for commercial planting. (Sl) Soc. Kmetijstvo Gozdarstvo 18(2):40-42. Feb.22, 1967. 21.5 So14
- 97946 WALKER, G. D. Mr. Homebuilder: Save that shade. Ga. Univ. Ext. Circ. 586,8 p. May 1968. 275.29 G29C  
Ornamental trees.
- 97947 WALTER, K. The history of the rose. (Pol) Pol. Tow. Miłosników Roz. Roczn. 1:7-11. 1965, pub.1966. SB403.P6
- 97948 WATLING, M. Useful shrubs for floral work. New Zeal. Plants Gard. 7(6):248-256. Mar.1968. 80 N4824
- 97949 WATSON, J. R. Care of turf on football fields. Tex. Turfgrass Conf. Proc. 22:7-13. Dec.1967. 60.19 T31
- 97950 WEISS, W. Practical protection for Chrysanthemum blossoms. (Ge) Landesver. Gartenbau Landwirt. Berlin. Mitteilungsbl. 18(2): 23. Feb.1967. 85 L233  
A plastic stretchable sleeve.
- 97951 WELLS, J. S. Growing hybrid Rhododendrons in the field. IV. Dependable varieties for the grower. Amer. Nurseryman 126(12):14,85-87. Dec.15,1967. 80 Am371
- 97952 WEST VIRGINIA TURFGRASS CONFERENCE, MORGANTOWN, AUGUST 2 and 3, 1967. Proceedings. West. Va. Agr. Exp. Sta. Misc. Publ. 5,44 p. Ref. May 1968. S127.E2
- 97953 WIDMER, R. E., and PHILLIPS, R. A. Sunny Glow and Minnwhite, new garden Chrysanthemums for 1968. Minn. Sci. 24(2):24. Winter 1968. 100 M668
- 97954 WIZNER, K. In defense of the perpetual rose (Rosa hybrida biferia Hort.). (Pol) Pol. Tow. Miłosników Roz. Roczn. 1:84-89. 1965, pub.1966. SB403.P6
- 97955 WIZNER, K. Sic transit gloria—(on the seventy fifth birthday). (Pol) Pol. Tow. Miłosników Roz. Roczn. 1:90-92. 1965, pub.1966. SB403.P6  
Of two hybrid tea rose varieties, Kaiserin Augusta Victoria and Madame Caroline Testout.
- 97956 ZWAARD, P. VAN DER. Culture of potted plants in plastic pots on sand beds. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:122-125. 86 Aa4  
Cyclamen.
- 97957 ZWAARD, P. VAN DER. Plastic pots in irrigated-sand culture. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:126-127. 86 Aa4  
Cyclamen.
- 97958 ZWAARD, P. VAN DER. Pot culture of Azalea on different potting mixtures. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:39-40. 86 Aa4
- 97959 ZWAARD, P. VAN DER. Research on flower-pots. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:119-121. 86 Aa4  
For Cyclamen culture.

## Vegetable and Truck Crops (Including Potatoes)

- 97960 AKELEY, R. V. Development of potato varieties resistant to tuber diseases. Plant Sci. Symp. Proc. 1966:125-147. Ref. SB211.P8P59

- 97961 ASTA-ASHS vegetable variety names: Asparagus, muskmelon, potato, rhubarb, southern pea. Ithaca, Cornell University, 1966-1967. 5 pts. SB320.A6  
Sponsored jointly by American Seed Trade Association, Garden Seed Research Committee and American Society for Horticultural Science, Committee on Vegetable Breeding and Varieties.
- 97962 BAKKER, J., and GALIEN, M. V. D. Study of strains of potatoes. (Du) Neth. Provinc. Dir. Rijkslandbouwvoorlichting Friesland. Voorlichting Onderz. 1966:30-34. SB183.N4A3  
New varieties.
- 97963 BANGA, O. Varieties and mechanization. (Du) Neth. Dir. Tuinbouw. Mededel. 30(7/8):297-301. July/Aug. 1967. 86 N384  
English summary, p.323.  
Vegetables chiefly.
- 97964 BARNES, W. C. Development of multiple disease resistant hybrid cucumbers. Amer. Soc. Hort. Sci. Proc. 89:390-393. Dec. 1966. 81 Sol2
- 97965 BATE, G. C. White bean varieties and cultural practices. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:131-132. 64.9 On83
- 97966 BERBEKOV, N. L., and CHUNOSOVA, V. N. Osobennosti semenovodstva kartofelya v Kabardino-Balkarii [The peculiarities of growing seed potatoes in the Kabardino-Balkar ASSR]. Nal'chik, Kabardino-Balkarskoe Knizhnoe Izdatel'stvo, 1967. 151 p. Ref. SB211.P8B45
- 97967 BEREZKINA, L. L. Applying decapitation method to intervarietal hybridization of potatoes. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 131:221-225. 1967. 20 M857
- 97968 BIGNARDI, M. G. Practical notes on horticulture: Cultivation of the principal kinds of vegetables. (It) Agr. Zootec. 53(4):162-163. (Cont.) Apr. 1968. 16 R66
- 97969 BIGNARDI, M. G. Practical notes on horticulture. (It) Romagna Agr. Zootec. 53(2):79-81. (Cont.) Feb. 1968. 16 R66  
Vegetable culture.
- 97970 BOGATYRENKO, A. Garlic bulb and clove size. (Rus) Kartoffel' Ovoshchi 3:29-30. Mar. 1968. 75.8 K147  
As related to agricultural practices.
- 97971 BOTHA, J. P. What is watercress? Farming S. Afr. 42(5):24,49. Aug. 1966. 24 So842  
Chiefly cultivation in Great Britain.
- 97972 BOWERS, J. L., and MULKEY, W. A. Slicer cucumber varieties for use in Arkansas. Ark. Farm Res. 17(2):11. Mar./Apr. 1968. 100 Ar42F
- 97973 BOYA, F. J. Vegetable gardening. Ulimo Nemfuyo 2(2):9-10. June 1966. S17.U4
- 97974 BROWN, W. N. Two new greenhouse tomato lines available for pre-release trial. Ohio. Agr. Res. Develop. Center. Res. Sum. 26:1-4. Apr. 1968. 100 Oh3Rs
- 97975 BRYAN, H. H., STROBEL, J. W., and DALTON, J. D. Effects of plant populations, fertilizer rates on tomato yields on Rockdale soil. Fla. State Hort. Soc. Proc. 80:149-156. Ref. May 1, 1968. 81 F66
- 97976 BURTON, W. G. The potato; a survey of its history and of factors influencing its yield, nutritive value, quality and storage. Ed. 2., completely rev. Wageningen, Veenman, 1966. 382 p. SB211.P8B8 1966  
Bibliography, p.311-362.  
Chiefly culture, physiology and diseases in Europe.
- 97977 CASSERES, E. The three phases of the introduction of vegetables. (Sp) Ceiba 13(1):38-42. Mar. 1967. 475 C32
- 97978 CHING, C. K. Cultivation of sea kale in China. 13 p. Ref. (JPRS 20,013; OTS 63-31200) Transl. 14111  
Translation from Komissiya po Rybokhozyaistvennom Issledovaniyu Zapadnoi Chasti Tikhogo Okeana. II. Plenum. Sbornik Dokladov 1962: 235-245.  
Issued by CFSTI.
- 97979 CHOI, J. I., and others. Experiment on the vegetable growing in the off-season at Taekwanlyong. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(2):43-53. Ref. Sept. 1967. 22.5 K843  
K. H. Chi, B. H. Han, and J. R. Kim, joint authors.  
English summary.  
Includes polyethylene house culture and forcing.
- 97980 CLARK, B. E., and PECK, N. H. Relationship between the size and performance of snap bean seeds. N. Y. (State) Agr. Exp. Sta. Bull. 819, 30 p. Mar. 1968. 100 N48  
Yields.
- 97981 CUNNINGHAM, C. E. Potato breeding to meet specific processing characteristics. Plant Sci. Symp. Proc. 1966:149-155. SB211.P8P59
- 97982 CURI, S. M., and BOOCK, O. J. Competition of national (IAC) potato varieties. (Por) Bragantia 25(1):107-116. 1966. 102.5 B73Tb  
English summary.
- 97983 DASKALOV, KH., RUSENOVA, I., and POPOVA, D. New hybrids and constant varieties of peppers. (Bu) Gradinar. Lozar. Nauk. 4(6):63-71. 1967. 87 G75  
English summary.
- 97984 DENMARK. STATENS FORSOGSVIRKSOMHED I PLANTEKULTUR. Trials with varieties and strains of beets 1965-66. (Da) Tidsskr. Plant-eavl 71(2):281-284. 1967. 11 T439
- 97985 DERCO, M. The effect of a synthesis of factors on the yield of early potatoes under conditions of irrigation. (Cz) Czech. Min. Zemedel. Les. Hospodar. Ustav Vedeckotech. Inform. Rostlinna Vyroba 41(1):53-84. Ref. Jan. 1968. 64.9 C33  
English summary.
- 97986 DEVOS, J. A test of strains - raising radishes under glass. (Fl) Tuinbouwberichten 31(11):385-386. Nov. 1967. 80 T817
- 97987 EASTMAN, P. J. New potato varieties to order. United Fresh Fruit Veg. Ass. Yearbook 1968: 35-36,39. 280.3939 Un3  
Includes breeding.
- 97988 ENTENMANN, F. M., MORRISON, K. J., and YOUNGMAN, V. E. Growing lentils in Washington. Wash. State Univ. Ext. Ext. Bull. 590, 7 p. Feb. 1968. 275.29 W27P
- 97989 ESCANDE, G. Comparative trial of tomatoes in plastic tunnel greenhouse in the Dordogne Valley (Pujols C.E.T.A.). (Fr) Paris. Acad. Agr. France. Compt. Rend. Hebd. Seances 53 (17):1337-1339. Dec. 6/13, 1967. 14 P215Bc
- 97990 FLORIDA. AGRICULTURAL EXPERIMENT STATION. 1968 vegetable Crops Field Day. Fla. Everglades Exp. Sta. Mimeo Rep. EES68-8, 6 p. May 9, 1968. 100 F663
- 97991 FORBES, R. B. Carrot variety trials in central Florida. Fla. State Hort. Soc. Proc. 80:123-132. Ref. May 1, 1968. 81 F66
- 97992 GALIEN, M. V. D., and KOOPMANS, T. Potatoes in autumn hills. (Du) Neth. Provinc. Dir. Rijkslandbouwvoorlichting Friesland. Voorlichting Onderz. 1966:36-39. SB183.N4A3  
Culture.
- 97993 GERISMA, A. Potato hills at 75 cm. (Du) Neth. Provinc. Dir. Rijkslandbouwvoorlichting Friesland. Voorlichting Onderz. 1966:40-41. SB183.N4A3  
Spacing at this distance had no effect on yield.
- 97994 GRAINGER, V. F. Red beet early bunching trials, 1963-65. Nat. Inst. Agr. Bot. J. 11(1): 191-198. 1967. 103 N21J  
Varieties, yields, and quality in Great Britain.
- 97995 GREENE, G. L., and MINNICK, D. R. Snap bean yields following simulated insect defoliation. Fla. State Hort. Soc. Proc. 80:132-134. May 1, 1968. 81 F66
- 97996 GROSSMANN, P. Current problems in vegetable culture: instruction sheet. (Ge) Landesverband Gartenbau Landwirt. Berlin. Mitteilungsbl. 18(4):13-14. Apr. 1967. 85 L233  
Includes new varieties suitable for West Berlin.



- 97997 HAMMES, P. S. Potatoes for the crisp industry. *Farming S. Afr.* 43(3):6-7. June 1967. 24 So842  
Cultivation for quality of processed chip.
- 97998 HEIDENREICH. Late defoliation of potatoes before harvesting. (Ge) *Kartoffelbau* 18(3):90-91. Mar.1967. 75.8 K145
- 97999 HERRMANN, L. S. E., and BOOCK, O. J. Bibliografia brasileira de batatinha, *Solanum tuberosum* L. [Brazilian bibliography of potatoes, *Solanum tuberosum* L.]. Sao Paulo, Inst. Agron. Bol. 177,115 p. June 1967. 102.5 B73T
- 98000 HIBMA, H., and ZEEUW, A. D. Seed potatoes and growth factors. (Du) *Neth. Provinc. Dir. Rijkslandbouwoorlichting Friesland Voorlichting Onderz.* 1966:46-47. SB183.N4A3  
Effect of soil heaviness, number of plants, planting date, and length of growing season on yield.
- 98001 HILL, W. M. Increasing yields of field beans. *Ontario Soil Crop Impr. Ass. Addresses Proc.* 1967:36-39. 64.9 On83  
Navy beans only.
- 98002 HOPP, R. J. Home garden vegetables; the ABC of better gardening. *Vt. Univ. Ext. Brieflet* 1149,8 p. Feb.1967. 275.29 V59E
- 98003 HOPP, R. J. Muskmelons in Vermont. *Vt. Agr. Exp. Sta. Bull.* 653,8 p. Apr.1968. 100 V59  
Variety tests.
- 98004 HOSSLIN, R. VON. Espalier or staked cucumbers? Results of experiments for two years. (Ge) *Gemuse* 2(12):299-300. Dec.1966. SB320.G4
- 98005 HOW, J. Autumn cauliflower variety trials 1962-65. *Nat. Inst. Agr. Bot. J.* 11(1):180-190. 1967. 103 N21J  
Yields and quality in Great Britain.
- 98006 HUNNIUS, W. Choice of variety, culture, and harvesting technique in growing potatoes for starch. (Ge) *Starke Kartoffel* 12(1):2-3. In *Kartoffelbau* 18(2). Feb.1967. 75.8 K145
- 98007 JABLONSKA-CEGLAREK, R. The characteristics of yields of four root celery varieties in Szczecin Province conditions. (Pol) *Stettin. Wyzsza Szkola Roln. Zeszyty Nauk.* 25:281-283. 1966,pub.1967. 20.5 St4  
English summary.
- 98008 JARVIS, R. H. Will it work here? *Arable Farmer* 1(4):50-51,53. Feb.1967. S3.A7  
Application of the Dutch system of potato growing in Great Britain.
- 98009 JOUBERT, T. G. LA G. A new tomato cultivar: Roodeplaat Premier. *Farming S. Afr.* 42(5):6-7. Aug.1966. 24 So842
- 98010 KAMAEV, I. N. Using polyethylene films in growing early cabbage variety. (Rus) *Khim. Sel'skom Khoz.* 7:79-80. July 1967. 385 K524
- 98011 KATARZHIN, M., and MALYSHKIN, P. Methods of increasing production of vegetables. (Rus) *Sel'skokhoz. Proizvodstvo Povolzh'ya* 4:44-45. Apr.1967. 281.8 Se4  
Proper cultivation.
- 98012 KNAAP, W. VAN DER, and MELJAARD, D. Does the soil (still) influence yields of early tomatoes? (Du) *Gorenten Fruit* 23(21):913-914. Nov.29,1967. 80 G89
- 98013 KRONENBERG, H. G. Vegetative propagation of brussels sprouts. (Du) *Neth. Dir. Tuinbouw. Mededel.* 30(7/8):314-315. July/Aug. 1967. 86 N384  
English summary, p.323.
- 98014 KUNKEL, R. Cultural practices and their effects on potatoes for processing. *Plant Sci. Symp. Proc.* 1966:177-192. Ref.,192-195. SB211.P8P59
- 98015 KUPERUS, J. Brussels sprouts in farming. (Du) *Neth. Provinc. Dir. Rijkslandbouwoorlichting Friesland Voorlichting Onderz.* 1966:78-80. SB183.N4A3  
Culture.
- 98016 KYLE, J. H., PERRY, B. A., and WOODFIN, V. I. Irish potato variety and breeding evaluations for north central Texas, 1967. *Tex. Agr. Exp. Sta. Progr. Rep.* PR-2536,10 p. May 15, 1968. 100 T31P
- 98017 KYLE, J. H., and REGIER, C. Onion variety trials on the Northern High Plains of Texas. *Tex. Agr. Exp. Sta. Progr. Rep.* PR-2538,8 p. May 15,1968. 100 T31P
- 98018 LAL, S., PANDE, N. C., and KHANNA, A. N. Varietal differences in ascorbic acid content and yield contributing characters in pea (*Pisum sativum* L.). *Madras Agr. J.* 54(12):640-642. Dec.1967. 22 M262
- 98019 LEE, S. C. Experiments on the cultural methods for asparagus. (Ch) *Taiwan Agr. Quart.* 3(2):98-104. June 1967. S19.T3  
English summary.
- 98020 LEONARD, T. F. Spaced and sprayed roots demand precision work. *Arable Farmer* 1(8):15-16. June 1967. S3.A7  
Swedes.
- 98021 LESHEM, Y., and others. Seed production potential of English winter cauliflower varieties growing under Mediterranean conditions in Israel. *Nat. Inst. Agr. Bot. J.* 11(1):173-179. 1967. 103 N21J  
H. Gelmond, K. E. Haine, S. Steiner, joint authors.
- 98022 LITYNSKI, M., and JABLONSKA-CEGLAREK, R. The effect of planting distance on the growth and yielding of head cabbage var. Amager. (Pol) *Stettin. Wyzsza Szkola Roln. Zeszyty Nauk.* 25:275-277. 1966,pub.1967. 20.5 St4  
English summary.
- 98023 LITYNSKI, M., and JABLONSKA-CEGLAREK, R. The effect of planting thickening on the growth and yield of root celeries-var. Jablkowy. (Pol) *Stettin. Wyzsza Szkola Roln. Zeszyty Nauk.* 25:278-281. 1966,pub.1967. 20.5 St4  
English summary.
- 98024 LOCASCIO, S. J., MARTIN, F. G., and LUNDY, H. W. Plot size studies with watermelons. *Amer. Soc. Hort. Sci. Proc.* 89:597-600. Dec. 1966. 81 So12  
Planting in reference to the quality of watermelons.
- 98025 MACKIEWICZ, Z., and PAWLUS, M. The effect of plant distance and nitrogen fertilization on the yields of kale in secondary crop. (Pol) *Stettin. Wyzsza Szkola Roln. Zeszyty Nauk.* 25:149-151. 1966,pub.1967. 20.5 St4  
English summary.
- 98026 MARTYNYUK, R. I. Yields of different kinds of potatoes and winter wheat on experimental farms in the Zhitomir District depending on soil conditions. (Rus) *Zhytomyr's'kyi Sil's'kohospod. Inst. Mater. Konf.* 1967:296-298. S651.Z5
- 98027 MAY, D. M., and CURLEY, R. Precision planting for cannery tomatoes. *Calif. Agr.* 21(3):6-7. Mar.1967. 100 C12Cag
- 98028 MEYAARD, D. Reasons for differences in vegetable growing in the open. (Du) *Neth. Dir. Tuinbouw Mededel.* 39(12):474-478. Dec.1967. 86 N384  
English summary, p.505.  
Differences due to efficiency of cultivation, profitability of different crops, and yield level.
- 98029 MONTELARO, J., and MARVEL, M. E. Celery production guide. *Fla. Univ. Ext. Circ.* 121A, 12 p. May 1968. 275.29 F66C
- 98030 MULLIN, R., and LAUER, F. I. Breeding behavior of F1 and inbred potato clones. *Amer. Soc. Hort. Sci. Proc.* 89:449-455. Dec.1966. 81 So12
- 98031 MURPHY, E. F., HEPLER, P. R., and TRUE, R. H. An evaluation of the sensory qualities of inbred lines of squash (*Cucurbita maxima*). *Amer. Soc. Hort. Sci. Proc.* 89:483-490. Dec. 1966. 81 So12
- 98032 NAMBIAR, P. K. V. Panniyur-1 pepper variety that promises four-fold yield. *Indian Farming* 17(12):13-15. Mar.1968. 22 In283
- 98033 NANDPURI, K. S., and SINGH, J. Studies on floral biology of bottle gourd (*Lagenaria siceraria* (Mol.) Standl.). *Punjab Agr. Univ. J. Res.* 4(1):54-58. Mar.1967. S19.P8  
For breeding improvement.

- 98034 NAUCHNO-ISSLEDOVATEL'SKII INSTITUT OVOSHCHNOGO KHOZYAISTVA. Sbornik nauchnoi informatsii po ovoshchevodstvu [Collection of scientific papers concerning vegetable growing]. Moskva, Kolos, 1966. 160 p. Ref. SB323.N3
- 98035 NGUR, M., and others. 1966 vegetable variety trials. N. Mex. Agr. Exp. Sta. Res. Rep. 125, 9 p. Apr. 1968. 100 N465R  
R. M. Nakayama, J. N. Corgan, D. C. H. Hsi, and P. M. Trujillo, joint authors.
- 98036 OHIO. AGRICULTURAL RESEARCH AND DEVELOPMENT CENTER. Greenhouse vegetable research 1968. Ohio. Agr. Res. Develop. Center: Res. Sum. 26, 40 p. Apr. 1968. 100 Oh3Rs  
Tomatoes.
- 98037 OVERSTEYNS, A. The till process or the growing of mushrooms on a sterile substratum. (Du) Champignoncultuur 11(3):94-97. Apr. 1967. 80 C35  
Netherlands.
- 98038 PETRIK, M. I. Interspecific hybridization in pea. (Rus) Genetika 3:40-47. Ref. 1967. QH431.A1G4  
English summary.
- 98039 PLANT SCIENCE SYMPOSIUM, CAMDEN, NEW JERSEY, 1966. Proceedings. Camden, Campbell Institute for Agricultural Research, 1966. 223 p. Ref. SB211.P8P59  
Potatoes: culture, breeding, processing, products.
- 98040 POPOV, P. Response of some potato varieties to defoliation in connection with injuries caused by *Leptinotarsa decemlineata* Say. (Bu) Rastenievudni Nauk. 4(9):93-105. Ref. 1967. 64.8 R18  
English summary.  
Yields.
- 98041 POPOV, S. Pruning and care of early tomato varieties rootstocks. (Se) Sovremeno Zemjod. 14(2):8-9. Feb. 1967. S13.S6
- 98042 POPOVA, V., and NENOV, N. Introduction of a new technology as a significant potentiality for raising the economic effectiveness of greenhouse vegetable production. (Bu) Gradinar. Lozar. Nauk. 4(7):65-74. 1967. 87 G75  
English summary.
- 98043 POTATO Day 1967 in Beedenbostel near Celle. (Ge) Kartoffelbau 18(2):52-53. Feb. 1967. 75.8 K145  
F. Veth-Gockenholz as chairman; includes abstracts of some papers.
- 98044 REYNOLDS, J. D. Vining pea varieties completing trials during 1958-65. Nat. Inst. Agr. Bot. J. 11(1):147-164. Ref. 1967. 103 N21J  
Yield and quality in Great Britain.
- 98045 RHODE. Culture of starch potatoes today. (Ge) Starke Kartoffel 12(1):3-4. In Kartoffelbau 18(2). Feb. 1967. 75.8 K145
- 98046 ROFLO, J. More cultivation of potatoes or. . . (No) Norsk Landbruk. 2:9, 24. Jan. 26, 1968. 11 N8122
- 98047 RUITER, D. DE. Forcing of secondary crops. (Du) Naaldwijk. Proefsta. Groenten- Fruitteelt Glas. Jaarverslag 1966:79-98. 86 N112J  
English summary, on p. 4-5 of summaries.  
Vegetable culture.
- 98048 SAN ANTONIO, J. P. Effects of injection of nutrient solutions into compost on the yield of mushrooms (*Agaricus bisporus*). Amer. Soc. Hort. Sci. Proc. 89:415-422. Dec. 1966. 81 S012
- 98049 SARDANA, M. G., SREENATH, P. R., and MALHOTRA, V. P. Size and shape of plots and blocks in field trials with potato. Indian J. Agr. Sci. 37(5):338-355. Ref. Oct. 1967. 22 Ag831
- 98050 SARPE, N., and others. The effect of density on the production of peas for different pedoclimatic regions. (Rum) Prob. Agr. [Bucharest] 20(3):23-30. Mar. 1968. 21 R862  
F. Olteanu, O. Stefan, D. Pinzaru, N. Popa, M. Les, GH. Sipos, H. Bredt, and P. Zahan, joint authors.  
English summary.
- 98051 SAWHNEY, J. S., and MOOLANI, M. K. Effect of sowing date, spacing and seed-rate on the yield of moong (*Phaseolus aureus* Roxb.). Punjab Agr. Univ. J. Res. 4(1):30-33. Mar. 1967. S19.P8
- 98052 SCARPERI, I. Method for carrots in relation to present market requirements. (It) Terra Trentina 14(1):32-35. Jan. 1968. 16 T277  
Comparison of Dutch and Italian methods of culture.
- 98053 SCHMIDT, H. H., and PETERSDORF, H. The second condensed report on test cultures of vegetable seeds imported during the years 1962-1965. (Ge) Saatgut-Wirtsch. 19(1):11-13; (2):47-49. Jan./Feb. 1967. 61.8 S01
- 98054 SCHUPPMANN, T. Does it pay to improve the quality of table potatoes? (Ge) Kartoffelbau 18(2):32. Feb. 1967. 75.8 K145  
Varieties.
- 98055 SCHWARZ, M. Foam plastic, a commercial plant growth medium. Plant Soil 27(2):289-291. Oct. 1967. 450 P696  
Eggplant and lettuce culture in Israel.
- 98056 SCUDDER, W. T. Ametryne as a pre-harvest desiccant for Irish potatoes. Southern Weed Conf. Proc. 21:203-206. 1968. 79.9 S08
- 98057 SHIRUR, R. J. Why have a vegetable garden? Nutrition 2(3):21-23. Apr. 1968. TX341.N8
- 98058 SIMONOV, D. Sweetcorn as a vegetable. (Se) Sovremeno Zemjod. 14(4):10. Apr. 1967. S13.S6  
Culture and varieties.
- 98059 SLOBBE, A. Coldframe culture of lettuce. (Du) Groenten Fruit 23(21):911. Nov. 29, 1967. 80 G89
- 98060 SLOWINSKI, H. The influence of different ways of cultivation upon the weight of tubers of three varieties of potatoes. (Pol) Wroclaw Wyzsza Szkola Roln. Zeszyty Nauk. Roln. 21(66):189-200. 1967. 20.5 B75  
English summary.
- 98061 SLOWINSKI, H. Variableness of yields of three varieties of potatoes depending upon the ways of cultivation. (Pol) Wroclaw Wyzsza Szkola Roln. Zeszyty Nauk. Roln. 21(66):201-226. Ref. 1967. 20.5 B75  
English summary.
- 98062 SMITH, B. F., and ALDRICH, D. T. A. Spring bean variety trials, 1954-65. Nat. Inst. Agr. Bot. J. 11(1):114-132. 1967. 103 N21J  
Yields in Great Britain.
- 98063 SMITH, B. F., and ALDRICH, D. T. A. Winter bean variety trials, 1952-64. Nat. Inst. Agr. Bot. J. 11(1):133-146. 1967. 103 N21J  
Yields in Great Britain.
- 98064 SOEST, W. VAN. Developments in vegetable growing in the U.S.A. (Du) Neth. Dir. Tuinbouw. Mededel. 30(5):191-200. May 1967. 86 N384
- 98065 SOHMER, S. H. Some cultivars of *Manihot esculenta* Crantz in Costa Rica. Ceiba 13(1):54-59. Ref. Mar. 1967. 475 C32
- 98066 SOMOS, A., and TURI, I. Possibilities for vegetable culture with nutrient solutions. (Hu) Kertesz. Szoleszeti Foiskola. Kiadv. 3(1):85-109. 1966. SB13.K4  
Effects on yields.
- 98067 SPARKS, W. C. Introductory remarks. fourth session. Plant Sci. Symp. Proc. 1966:173-175. SB211.P8P59  
Cultural practices and the quality of potatoes for processing.
- 98068 STONER, A. K., and THOMPSON, A. E. The potential for selecting and breeding for solids content of tomatoes. Amer. Soc. Hort. Sci. Proc. 89:505-511. Ref. Dec. 1966. 81 S012
- 98069 STORCHSCHNABEL, G. The pyramid cut as a useful basis of selection for cabbage (*Brassica oleracea* var. *capitata* L.). (Ge) Bodenkultur 19(1):55-62. Feb. 1968. 19 B635  
English summary.
- 98070 STRYDOM, E. Irrigation studies with onions. S. Afr. J. Agr. Sci. 10(3):767-780. Ref. Sept. 1967. 24 Su3



- 98071 STRYDOM, E. List of recommended vegetable cultivars for 1966. *Farming S. Afr.* 42(5):21-23. Aug.1966. 24 So842
- 98072 STRYDOM, E., and others. Production of tomatoes in Transvaal. 2. *Farming S. Afr.* 43(3):9,11,13-15. June 1967. 24 So842  
J. E. Tillema, B. H. Boelema, and C. C. Daiber, joint authors.  
Includes varieties.
- 98073 STRYDOM, E. C., and others. Production of tomatoes in the Transvaal. *Farming S. Afr.* 43(2):3,15,26-29,50. (Cont.) May 1967. 24 So842  
J. E. Tillema, B. H. Boelema, and C. C. Daiber, joint authors.
- 98074 SZUCS, K. Cultivation of the Hungarian spice paprika. (Hu) *Kertesz. Szolesz.* 16(18):16-18. Sept.1967. 80 K474
- 98075 TAKAKURA, S. Production of vegetable crops in a high cold area in Oita prefecture and the prospect of future problems. Oita Prefect. Agr. Exp. Sta. Bull. 4,11 p.,map. Ref. Mar. 1966. 107.6 O18K
- 98076 TERADA, T., and TAKAHASHI, A. Studies of tomatoes for processing. Solid content in F<sub>1</sub> generation. (Ja) *Shimane Agr. Coll. Bull.* 15(A-1):28-31. Jan.1967. S539,J3S5  
English summary.
- 98077 TORFS, P. Raising tomatoes in the greenhouse in the United States. (Fl) *Tuinbouwberichten* 31(10):334-337. Oct.1967. 80 T817
- 98078 TSENG, T. C. The improvement of onion varieties in Taiwan. (Ch) *Taiwan Agr. Quart.* 3(2):89-94. June 1967. S19.T3  
English summary.
- 98079 TUBERTINI, R. Observations on the potato varieties "Primura" and "Radusa." (It) *Sementi Elette* 13(1):45-46. Jan./Feb.1967. 61.8 Se53
- 98080 U. S. AGRICULTURAL RESEARCH SERV. CROPS RESEARCH DIV. Growing pumpkins and squashes prepared by Crops Research Division and Entomology Research Division, Agricultural Research Service. U. S. D. A. Farmers' Bull. 2086,21 p. 1968. 1 Ag84F
- 98081 VELJANOV, D. Important measures for field planting of early tomatoes and redpeppers. (Se) *Sovremeno Zemjod.* 13(4):7-10. Apr.1966. S13.S6  
Culture.
- 98082 VERGNIAUD, M. Effect of the separation of the rows and the spacing along the rows on the crop yields of tomatoes. (Fr) *Paris Acad. Agr. France Compt. Rend. Hebd. Seances* 53(15):1158-1166. Nov.1967. 14 P215Bc
- 98083 VIRNICH, H. Studies on the behavior of male sterility and other characteristics in polyploid onions (*Allium cepa* L.) as basis for its use in breeding. (Ge) *Z. Pflanzenzucht.* 58(3):205-244. Nov.1967. 450 Z36  
English summary.
- 98084 WALLACE, E. G. R. Growing green peas for commercial processing. *New Zeal. J. Agr.* 114(1):68-69. Jan.1967. 23 N48J
- 98085 WHITWELL, J. D. Planned cauliflower production. *Great Brit. Min. Agr. Fish. Food. Agr.* 73(12):590-597. Dec.1966. 10 G79J
- 98086 WORTHINGTON, J. T., and SMITH, W. L. Effect of root trimming and storage containers on field survival and yield of asparagus plants. *Amer. Soc. Hort. Sci. Proc.* 89:346-349. Dec. 1966. 81 So12  
Nurseries.
- 98087 WYOMING UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. 4-H vegetable garden. *Wyo. Univ. Ext.* [4-H Club Circ.] GN-5-67,37 p. July 1967. 275.29 W99Fc
- 98088 WYOMING UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Vegetable garden record book. *Wyo. Univ. Ext.* [4-H Club Circ.] GN-5a-67,14 p. May 1967. 275.29 W99Fc
- 98089 YOUNG, D. A. Introductory remarks; third session. *Plant Sci. Symp. Proc.* 1966:99-102. SB211.P8P59  
Potato breeding and its effects on quality.

- 98090 ZADINA, J. On the breeding of potatoes in Hungary. (Cz) *Prague. Vyzk. Ustav Zemed. Vestn.* 13(12):539-541. 1966. 19.5 C333
- 98091 ZADINA, J. On the culture and breeding of potatoes in Yugoslavia. (Cz) *Prague. Vyzk. Ustav Zemed. Vestn.* 13(12):531-532. 1966. 19.5 C333

## Miscellaneous Economic Plants (Coffee, Tea, Cacao, Etc.)

- 98092 BALU, V. A story of blooming coffee blossoms Indian Coffee 31(6):9. June 1967. 68.29 In23M
- 98093 BARTELLI, I. May is morel month in Michigan; identifying morels for food. *Mich. State Univ. Ext. Bull.* E-614,22 p. Apr.1968. 275.29 M58B  
Mushrooms.
- 98094 BOHL, P. The culture of the tung tree [*Aleurites fordii*] in Madagascar. (Fr) *Potasse* 41(347):163-165,map. Sept.1967. 57.8 P84
- 98095 BOULAY, H. Lavender and "lavandin" in Haute Provence. (Fr) *Potasse* 42(352):37-44, map. Ref. Feb.1968. 57.8 P84  
Culture.
- 98096 CHINGOVA, B. Results from tests with some coriander varieties. (Bu) *Rastenievudni Nauk.* 4(9):11-18. Ref. 1967. 64.8 R18  
English summary.
- 98097 CRAICIU, E. Measures for the extension of intensive plantations of mulberry. (Rum) *Sericicultura* 4(1):2-5. 1968. SF541.S4
- 98098 CULLEY, A. F. Hop wirework. *Great Brit. Min. Agr. Fish. Food. Agr.* 73(12):579-583. Dec.1966. 10 G79J
- 98099 CUNHA, J. F. DA. The rubber plant [*Hevea brasiliensis*] in the valley of the Paraíba River. (Por) *Bragantia* 25(1):129-144. 1966. 102.5 B73Tb  
English summary.  
Culture.
- 98100 DAPPER, H. Food plants of Tenerife and their area of cultivation. (Ge) *Natur. Mus.* 97(8):289-300,map. Ref. Aug.1967. 509 F856
- 98101 DOUGLAS, J. S. The growing and field processing of perfumery and allied crops. *Soap, Perfumery Cosmetics* 41(1):25-30. Jan.1968. 307.8 So13  
Essential oil plants.
- 98102 ENRIQUEZ, G., and SORIA, J. Selection and study of the useful characteristics of the flower for the identification and description of cacao varieties. (Sp) *Cacao* 12(1):8-16. Jan./Mar. 1967. 68.38 C11  
English summary.
- 98103 FACKLER, E. Mandragora, an interesting plant of the nightshades. (Ge) *Acta Phytotherap.* 14(8):153-157. Oct.1967. 450 Ac88  
Drug plant.
- 98104 FERNANDO, L. H. A reappraisal of practices in the cultivation of low-country tea. *Ceylon. Tea Res. Inst. Tea Quart.* 38(3):241-244. Sept. 1967. 68.18 C33
- 98105 FREUDENTHAL, H. D. Marine agriculture - is it possible, desirable, or essential? *Res. Develop. Ass. Activ. Rep.* 19(1):97-103. Spring 1967. 389.9 As74A  
Need for further research in seaweed industry.
- 98106 GIESS, W. Veld plants of South-West Africa. (Ge) *S. West Afr. Sci. Soc. J.* 20:59-68,145-149. 1965/66. 515 So85  
Food plants.
- 98107 GULDENTORPS, R. E., and SCUWIE, L. Recherche de la densité optimale pour le palmier a huile plante en allees [Research on the optimum density for oil palms planted in lanes]. *Inst. Nat. Etude Agron. Congo. Publ. Ser. Tech.* 75,72 p. 1968. 24 In7P  
English summary.
- 98108 HAINSWORTH, E. The management of tea in dry conditions. I. *Tea [Nairobi]* 8(1):19-23. Apr.1967. 68.19 T224
- 98109 KAN, W. S. Investigation and study on vegetable drugs in Taiwan. 3. (Ch) *Taiwan Forest. Res. Inst. Bull.* 133:1-97. Ref. Sept.1966. 99.9 F7652  
English summary.  
Botanical description.

- 98110 KARRYEV, M. O. *Juniperus turcomanica* B. Fedtsch - raw material for Turkmenistan pharmaceutical industry. (Rus) Akad. Nauk Turkm. SSR Izv. Ser. Biol. Nauk 4:80-84, map. 1967. 442.9 Ak124
- 98111 KOBYLKA, B. They are not only ornamental but also medicinal. (Cz) Ziva 16(1):17-18. Jan. 1968. 409.6 Z6  
Plants.
- 98112 KORKASHVILI, A. V. Fruiting of fodder mulberry. (Geo) Gruz. Sel'skokhoz. Inst. Tr. 70: 105-113. 1966. 106 T44  
English summary.  
Includes culture.
- 98113 KRICKL, M. Fennel=*Foeniculum vulgare* var. *azoricum*, possibilities of culture in Europe—a breeding problem. (Ge) Saatgut-Wirtsch. 19(2):45,47; (3):82-85. (Cont.) Feb.-Mar. 1967. 61.8 Sa1
- 98114 KRODEL, F. The importance of provenance questions concerning dill for forcing. (Ge) Saatgut-Wirtsch. 19(1):14. Jan. 1967. 61.8 Sa1
- 98115 MAKHLAYUK, V. Carrot. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 9:45. Sept. 1967. 281.8 Se4  
As medicinal plant.
- 98116 NEWHALL, A. G., and DIAZ, F. Sawdust vs coffee bean endocarp or parchment as a cacao seedbed mulch. Cacao 12(2):12-14. Apr./June 1967. 68.38 C11  
Tropics.
- 98117 NIKURADZE, V. G. Influence of the beginning of exploitation on the growth and yield of the hybrid mulberry. (Geo) Gruz. Sel'skokhoz. Inst. Tr. 70:115-123. 1966. 106 T44  
English summary.
- 98118 NILSSON, G. Horse radish—the special plant of Nordhalland. (Sw) Hallands Lans Hushallningssallsk. Tidskr. 2:12-14. Mar. 1967. 11 H152  
Culture.
- 98119 PEELER, C. H. Castor seed production in Kenya. East Afr. Agr. Forest. J. 33(1):1-7. July 1967. 24 Ea74  
Culture and industry.
- 98120 POLUDENNYI, L. V. Planting date for mayweed. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 5:132-134. May 1967. 20 V633  
Matricaria.
- 98121 RAO, H. H. Coffee in Biligiri Rangans. Indian Coffee 31(6):7-8, 10. June 1967. 68.29 In23M
- 98122 RICHARDS, A. V. Some observations on the performance of the popular TRI [Tea Research Institute] and estate clones. Ceylon. Tea Res. Inst. Tea Quart. 38(3):245-248. Sept. 1967. 68.18 C33
- 98123 ROBINSON, J. B. D., and TAPLEY, R. G. Yield and response to fungicide and fertilizer of peasant-grown Arabica coffee on Mt. Kilimanjaro, Tanzania. III—Effects of treatments and seasons on yield. East. Afr. Agr. Forest. J. 33(2):123-130. Ref. Oct. 1967. 24 Ea74  
Nitrogen fertilizer and copper fungicide.
- 98124 ROIG, J. T. Ginger. (Sp) Rev. Agr. [Havana] 1(2):45-48. May/Aug. 1967. S15.R4  
Culture and use.
- 98125 ROMANKO, R. R., LIKENS, S. T., and SHEPHARD, J. C. Talisman, a new American clusters-type hop variety. Idaho. Agr. Exp. Sta. Bull. 496, 15 p. Mar. 1968. 100 Id14
- 98126 SNOECK, J. The regeneration of *Canephora* coffee trees on the east Malagasy Coast. (Fr) Cafe, Cacao, The 10(4):305-310. Oct./Dec. 1966. 68.8 C112  
English summary.  
By pruning.
- 98127 SUNDARAJ, J. S., SHANMUGAVELU, K. G., and RAMAN, K. R. A note on the air-layering of drumstick (*Moringa ptygosperma* Gaerin.). Madras Agr. J. 54(7):382. July 1967. 22 M262
- 98128 TEODOSIEVSKI, D. Brief advice on the collecting of drug plants. (Se) Sovremeno Zemjod. 14(2):17-18. Feb. 1967. S13.S6
- 98129 TODD, W. A., and MURRAY, M. J. New essential oils from hybridization of *Mentha citrata* EHRH. Perfumery Essent. Oil Rec. 59(2):97-102, 113. Feb. 1968. 308.8 P41  
Emphasis on breeding.
- 98130 VASCONCELOS, A., and ALVIM, P. DE T. Program for replacing old cacao trees in Bahia [Brazil]. (Sp) Cacao 12(2):6-11, map. Apr./June 1967. 68.38 C11  
English summary.
- 98131 VIGOROV, L. A garden of medicinal plants. (Rus) Sadovodstvo [Moscow] 11:39-40. 1967. 80 Sa13
- 98132 WATT, J. M. African plants potentially useful in mental health. Lloydia 30(1):1-22. Ref. Mar. 1967. 442.8 L77  
Bibliography, p. 17-22.
- 98133 WORMER, T. M., and NGUGI, D. Calculating the weight of young coffee trees from non-destructive observations. Exp. Agr. 4(1):29-40. Ref. Jan. 1968. 10 Ex72  
Correlation analysis of yield and measurement data.
- 98134 YANG, Y. Y., and LUH, C. L. Spacing experiments on citronella grass. (Ch) Taiwan Agr. Res. J. 16(1):42-49. Mar. 1967. 22.5 Ag823  
English summary.  
*Cymbopogon winterianus*. --

## PLANT PATHOLOGY AND PROTECTION

- 98135 AMERICAN PHYTOPATHOLOGICAL SOCIETY. POTOMAC DIV. Report and abstracts of the 1967 annual meeting. Phytopathology 57(7):644-649. July 1967. 464.8 P56
- 98136 ATKINSON, C. Rubber; pests and disease of plants. World Crops 19(4):67-70. Sept. 1967. 281.8 W892
- 98137 ATKINSON, C. Tea. 1. Pests and disease. World Crops 19(1):53-56. Mar. 1967. 281.8 W892
- 98138 AVIDOV, Z., ed. Studies in agricultural entomology and plant pathology. Jerusalem, Hebrew University, 1966. 208 p. Ref. (Scripta Hierosolymitana, v. 18) SB605.I78A8
- 98139 BAKER, R., MAURER, C. L., and MAURER, R. A. Ecology of plant pathogens in soil. VII. Mathematical models and inoculum density. Phytopathology 57(7):662-666. Ref. July 1967. 464.8 P56
- 98140 BARAN, W. Crop pesticides that are new this year. Agway Coop. 4(2):17. Mar. 1968. 280.28 Ag9
- 98141 DO HUY BICH. Protecting medicinal plants. Joint Publ. Res. Serv. Transl. N. Vietnam 316: 81-82. Feb. 28, 1968. (JPRS 44,523) DS557.A7J6  
Protection of wild plants through forest protection.  
Translation from Nhan Dan, Dec. 12, 1967:2. Issued by CFSTI.
- 98142 D'YAKOV, YU. T. Genetic studies in the host plant-parasite relationships. (Rus) Genetika 2:176-187. Ref. 1967. QH431.A1G4  
Disease and pest resistance; reviews.
- 98143 FEDOTOVA, T. I. Phytopathological foundations of selecting disease resistant plant varieties. (Rus) Zashch. Rast. 5:10-12. 1968. 421 Z1
- 98144 FISCHER, H. Problems of plant protection advisory services. (Ge) Gesunde Pflanzen 19(1): 4-6. Jan. 1967. 464.8 G33
- 98145 FONCE, J. Plant disease control in uniform. (Fr) Phytoma 19(184):18-20. Jan. 1967. 464.8 P563  
U. S. Department of Agriculture inspection and quarantine services in Hawaii.
- 98146 GIBAN, J. Summary of attempts 1963-1965 to protect fruit tree buds by dusting with toxaphene. (Fr) Congr. Pomol. [Compt. Rend.] 97:107-123. Oct. 6, 7, 8, 1966. 93.09 G7643  
Against birds.
- 98147 HAUPT, H. G. Regulation of allowable amount of economic poisons in plant protection. (Ge) Indus. Obst-Gemüseverwertung. 52(17):513-516. (Cont.) Sept. 7, 1967. 389.8 K832



- 98148 HICKS, P. G. Observations on the diseases and conditions of cacao pods in Papua and New Guinea—pod losses 1962–1965. Papua New Guinea Agr. J. 19(1):5-9. July 1967. 23 N453
- 98149 HIROE, I. Plant pathology from a new angle; progress to plant medicine. Tottori Univ. Fac. Agr. J. 5(1):43-53. Ref. Mar.1967. 107.6 T643
- 98150 HOUTEN, J. G. TEN. New developments and problems in plant disease research in Netherlands. (Du) Neth. Dir. Tuinbouw. Mededel. 30 (6):232-240. June 1967. 86 N384  
English summary, p.275.
- 98151 KSIAZEK, J. New direction in plant protection. (Pol) Nowe Roln. 16(3):6-8. 1967. 20.5 N86  
Pesticides and application methods.
- 98152 LEIB, E. Plant protection in the developing lands—some German experiences. (Ge) Gesunde Pflanzen 19(1):15-18. Jan.1967. 464.8 G33
- 98153 MANCEV, J. Attention to the hazards connected with the application of means for plant protection. (Se) Sovremeno Zemjod. 14(4):13-15. Apr.1967. S13.S6  
Economic poisons.
- 98154 MASAAKIRA, H. The development of recent plant protection in Japan. Agr. Asia 10:27-42. 1967. 22.5 Aj5
- 98155 MONASTERO, S. Palermo Observatory for Plant Diseases [Osservatorio per le Malattie delle Piante di Palermo]. (It) Agricoltura 16 (10):113-117. Oct.1967. 16 Ag8226  
English summary.
- 98156 NETHERLANDS. PLANTENZIEKTENKUNDIGE DIENST. Bestrijding van ziekten, plagen en onkruiden met behulp van het vliegtuig [Control of diseases, pests and weeds with aid of aircraft]. Plantenziektenkundige Dienst. Ber. 1698, 10 p. Mar.8,1968. 464.9 N38
- 98157 NEW SOUTH WALES. DEPT. OF AGRICULTURE. BIOLOGY BR. PLANT PATHOLOGICAL SECT. Plant disease survey for the twelve months ending 30th June, 1966. 36th annual report. Sydney, 1967. 49 p.,map. 464.9 N47P
- 98158 ORIEUX, L. M. M. Guide for the struggle against plant diseases. (Fr) Rev. Agr. Sucriere Ile Maurice 46(3):119-137. July/Sept.1967. 24 M44
- 98159 PAGANI, P. Notes on the symptoms and therapy of plant chemical poisoning. (It) Agr. Zootec. 53(4):147-150. Apr.1968. 16 R66
- 98160 PAGANI, P. Toxicology of plant pharmaceuticals: Criteria of antiparasitical control; acts to limit the dangers of plant pharmaceuticals. (It) Romagna Agr. Zootec. 53(2):56-61. (Cont.) Feb.1968. 16 R66
- 98161 SCHEIBE, K. Plant protection has new tasks. (Ge) Gesunde Pflanzen 19(1):1-3. Jan.1967. 464.8 G33  
These entail higher costs and more labor.
- 98162 SCHUPHAN, W. The problem of plant production from a biochemical point of view. (Ge) Deut. Lebensm.-Rundsch. 63(10):295-302. Ref. Oct.1967. 389.8 D482  
Economic poisons, residues, and toxicity, in Germany.
- 98163 SEMENII, G. M. The use of microelements for pre-planting corn seed treatment in central Polesye, U.S.S.R. (Rus) Zhytomys'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:251-254. S651.Z5
- 98164 WENZL, H. Basic problems of evaluating attack by diseases. (Ge) Bodenkultur 19(1):63-78. Ref. Feb.1968. 19 B635  
English summary.  
Statistical method.
- 98165 YASUO, S. Export and import plant quarantine. Agr. Asia 5(8):31-35. Aug.1967. 22.5 Aj5  
In Japan.
- 98166 ZANARDI, D. Cagliari Observatory for Plant Diseases [Osservatorio per le Malattie delle Piante di Cagliari]. (It) Agricoltura 16(10):118-124. Oct.1967. 16 Ag8226  
English summary.
- 98167 ZARZYCKI, J. The main difficulties in the development of plant protection on the basis of the 1966 campaign. (Pol) Nowe Roln. 16(1):26-28. 1967. 20.5 N86  
Poland.

### Diseases of Field Crops

- 98168 AUBE, C. Diseases of forage plants in Quebec. (Fr) Agriculture (Montreal) 24(4):22-23. Dec. 1967. 7 Ag82
- 98169 CANADA. DEPT. OF AGRICULTURE. Diseases of field crops in the Prairie Provinces, revised by W. C. MacDoland. Can. Dep. Agr. Publ. 1008, rev., 100 p. 1967. 7 C16Pu
- 98170 EDGINGTON, L. V. New promise in disease control. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:96. 64.9 On83  
Field crops.
- 98171 HASHIOKA, Y. A simplification method for seed rice disinfection and application of Arasan. 10 p. Ref. Transl. 16845  
Translation from Plant Protection 4:173-175. 1952.
- 98172 KOENIG, M. J. P. Notes on diseases of sugarcane at Hippo Valley Estates Limited - 1962 to 1967. S. Afr. Sugar Technol. Ass. Proc. 1967:202-205. 65.9 So83
- 98173 MILNE, J. A. Pest and disease control. Kenya Farmer 131:3-6. June 1967. 24 R812  
Text also in Swahili.  
Chemical control in field crops.
- 98174 RAAB, R. The effect of plant protection on the culture of field crops in Hessen. (Ge) Gesunde Pflanzen 19(4):70-72. Apr.1967. 464.8 G33
- 98175 RAYCHAUDHURI, S. P. Controlling diseases of oilseed crops. Indian Farming 17(9):29-33. Dec.1967. 22 In283
- 98176 SETHI, B. L. Other methods for the control of diseases. Seminar Cotton Prod. Res. Cotton Breed. Dis. Resist. Contr. Dis. 1966:65-75. Ref. SB608.C8S4  
Cultural.
- 98177 SKOK, J. Tumor and teratoma induction in tobacco plants by debudding. Plant Physiol. 42 (6):767-773. June 1967. 450 P692
- 98178 SRINIVASAN, K. V., and RAO, J. T. Hot-water treatment of sugarcane seed material. Indian Farming 18(1):25-26. Apr.1968. 22 In283  
Disease control in India.
- 98179 VEMBAR, R. N., and THOBBI, V. V. Seed and soil dressings give good return from groundnut. Indian Farming 17(9):34-37. Dec.1967. 22 In283  
Captan, thimet, and BHC for insect, fungus and disease control.

### Diseases of Horticultural Crops

- 98180 BAKKER, J., and GALIEN, M. V. D. Irrigation of seed potatoes. (Du) Neth. Provinc. Dir. Rijkslandbouwvoorlichting Friesland Voorlichting Onderz. 1966:42-45. SB183.N4A3  
Irrigation carried out at the right time limits the susceptibility of potatoes to scab.
- 98181 BIGORNIA, A. E., and RILLO, E. P. Frond-drop: an unrecorded disease of coconut of unknown etiology in the Bicol region of the Philippines. FAO Plant Protect. Bull. 15(1):6-9. Feb.1967. 421 P692
- 98182 BRITISH COLUMBIA. DEPT. OF AGRICULTURE. Vegetable and field crop pests and diseases control recommendations, 1967. Victoria, 1967. 25 p. 464.9 B77C
- 98183 CACA, Z. A contribution to the study of some relations between the microclimate and health conditions of potatoes grown under conditions of irrigation; preliminary report. (Cz) Czech. Min. Zemedel. Les. Hospodar. Ustav Vedeckotechn. Inform. Rostlinna Vyroba 41(1):95-104. Ref. Jan.1968. 64.9 C33  
English summary.

- 98184 COVEY, R. P. Why is my tree sick? Wash. State Hort. Ass. Proc. Dec.5-7, 1966:93-94. 81 W273  
Prevention of diseases in fruit trees.
- 98185 DIVOUX, M. R. Phytosanitary spray irrigation. (Fr) Congr. Pomol. (Compt. Rend.) 97:169-180 Oct.6,7,8,1966. 93.09 C7643
- 98186 FLUITER, H. J. DE. Some experiences with integrated control of pests and diseases in experimental apple orchards in the Netherlands. (Du) Neth. Dir. Tuinbouw. Mededel. 30(6):241-247. June 1967. 86 N384  
English summary, p.275-276.
- 98187 GILLES, G. L. Parasitology of the strawberry plant. (Fr) Fruit Belg. 35(316):427-432. Dec.1967. 80 F9493  
Diseases and pests.
- 98188 GRAHAM, K. Tomato diseases. Fiji Farmer 3(1):7-9. Mar.1967. 25 F473
- 98189 HINFNER, K. A repa betegsegei es kartevoi [Diseases and pests of beet]. Budapest, Mezőgazdasági Kiado, 1966. 180 p. (Novenyvedelmi Zsebatlasz) SB608.B4H5
- 98190 HORI, M. Sweet potato and potato; protection of sweet potato and potato. Agr. Asia 6(1):38-42. 1968. 22.5 Aj5  
Diseases and their control through inspection of the seed potato stock under the Plant Protection Law.
- 98191 HORN, N. L., CARVER, R. B., and CARVER, R. G. The five most serious diseases of Louisiana strawberries. La. Agr. Exp. Sta. Bull. 624,18 p. Ref. Dec.1967. 100 L93  
Control.
- 98192 IWATA, Y. Vegetables' protection. Agr. Asia 5(8):36-42. Aug.1967. 22.5 Aj5  
Diseases and pests in Japan.
- 98193 KITAJIMA, H. Fruit-tree protection in Japan. Agr. Asia 5(7):35-42. July 1967. 22.5 Aj5  
Diseases and pests.
- 98194 KLOS, E. J. Disease control suggestions from research findings. Mich. State Hort. Soc. Annu. Rep. 96:84-85. 1966, pub.1967. 81 M58  
Deciduous fruits and berries.
- 98195 LAVILLE, E., and SACHS, G. First observations on a serious disease of unknown origin in the date palm. (Fr) Fruits 22(7):309-312. July/Aug.1967. 80 F9492  
English summary, p.335.  
In Mauritania.
- 98196 MARTINEZ, A. P., and ROBERTS, D. A. Lethal yellowing of coconuts in Florida. Fla. State Hort. Soc. Proc. 80:432-436. Ref. May 1, 1968. 81 F66
- 98197 MCCAIN, A. H. What you should know about plant disease control (PDC) chemicals. Pest Contr. Oper. News 27(6):12-14. June 1967. SB951.A1P4  
Ornamental plants.
- 98198 MILLER, R. T. New developments in disease control in turf. Tex. Turfgrass Conf. Proc. 22:28-30. Dec.1967. 60.19 T31
- 98199 OREGON STATE UNIVERSITY. FEDERAL CO-OPERATIVE EXTENSION SERV. 1968 Wasco County spray schedule. Dalles, 1968. chart. 275.29 Or32Sp  
Disease and pest control for apricots, cherries, and peaches.
- 98200 PUERTA, C. DE LA. Disinfection in olives. (Sp) Oleo 7(306):9. Apr.6, 1967. 307.8 OL22  
Cleaning of the hollows in aged trees.
- 98201 REICH, H. Uniform or variety specific pest control? (Ge) Obstbauversuchsring Alten Landes. Mitt. 22(1):17-21. Jan.1967. 85 J76  
Diseases and insects in fruit.
- 98202 TUIN, W. Put an end to these five plant diseases. (Du) Neth. Dir. Landbouw Verslag Landbouwkundig Onderz. Noordelijk-Groningen. 1967:41-44. 12 N38Vg  
Of horticultural crops in the Netherlands.
- 98203 VASUDEVA, R. S., and MANSER, P. D. Rapport au Gouvernement du Togo sur la maladie de kaincope du cocotier et sur certaines autres maladies des plantes cultivees au Togo [Report to the Government of Togo on kaincope disease of coconuts and on certain other diseases of cultivated plants in Togo]. Rome, 1966. 23 p. 281.9 F733E  
Of uncertain origin
- 98204 WASHINGTON STATE UNIVERSITY. EXTENSION SERV. Disease spray schedule for home orchards. Wash. State Univ. Ext. E. M. 2465, rev., 8 p. May 1968. 275.29 W27Mi
- 98205 ZUFFEREY, M., and FAVRE, C. Attempts at phytosanitary spray irrigation. (Fr) Congr. Pomol. [Compt. Rend.] 97:181-194. Oct.6,7,8, 1966. 93.09 C7643  
Control of pests and diseases.
- Diseases of Forest Trees
- 98206 BENSON, M. L., and SIMS, W. G. False-color film fails in practice. J. Forest. 65(12):904. Dec.1967. 99.8 F768  
Forest tree disease and insect detection from ground or air.
- 98207 FRENCH, D. W. Tree diseases affect Minnesota's forest industry. Minn. Sci. 23(3):48-50, map. Apr.1967. 100 M668  
Control.
- 98208 HERRERA, S. Principal diseases affecting Pinus radiata in Chile. FAO Plant Protect. Bull. 15(1):17-18. Feb.1967. 421 P692
- 98209 MAJOR, R. T. The ginkgo, the most ancient living tree. Science 157(3794):1270-1273. Ref. Sept.15, 1967. 470 Sci2  
Ginkgo biloba, its resistance to diseases.
- 98210 NICHOLS, L. P. Tree diseases, description and control. Pen. State Univ. Ext. Spec. Circ. 85,29 p. 1968? 275.29 P382Sp
- 98211 ZAVEDNYUK, V. F. Establishing forest plantations using resistant varieties. (Rus) Les. Khoz. 1:78-79. Jan.1967. 99.8 L5622  
To insects and diseases.
- Bacterial Diseases
- 98212 BEL'TYUKOVA, K. H. Phytopathogenic bacteria of the genera Pseudomonas and Erwinia as bacteriosis agents in plants in the Ukraine. (Uk) Mikrobiol. Zhur. 29(5):392-400. 1967. 448.3 K54  
English summary.
- 98213 MANASSE, R. J., and CORPE, W. A. Chemical composition of cell envelopes from Agrobacterium tumefaciens. Can. J. Microbiol. 13(12):1591-1603. Ref. Dec.1967. 448.8 C162  
Causative agent of crown gall in plants.
- 98214 STONIER, T., MCSHARRY, J., and SPEITEL, T. Agrobacterium tumefaciens Conn. IV. Bacteriophage PB21 and its inhibitory effect on tumor induction. J. Virol. 1(2):268-273. Ref. Apr.1967. QR360.J6  
In plants.
- 98215 TESIC, Z. The classification of phytopathogenic bacteria by special forms. (Se) Zastita Bilja 93/95:45-53. Ref. 1967. 464.8 Z1  
English summary.
- Bacterial Diseases - Field Crops
- 98216 ARNOLD, M. H. Variation in the host-parasite relationship and its implications in breeding for resistance to bacterial blight of cotton. Seminar Cotton Prod. Res. Cotton Breed. Dis. Resist. Contr. Dis. 1966:18-20. SB608.C854  
Caused by Xanthomonas malvacearum; in East Africa.
- 98217 CHAKRAVARTI, B. P., and RANGARAJAN, M. A virulent strain of Xanthomonas oryzae isolated from rice seeds in India. Phytopathology 57(7):688-690. Ref. July 1967. 464.8 P56
- 98218 FUJIKAWA, T., UTSUNOMIYA, T., and OKADOME, Z. On the seed disinfection effect of mercuric tabloid (Luberon) applied to the blast disease of rice plants. 3 p. Transl. 16861  
Caused by bacteria.  
Translation from Kyushu Agricultural Research, No.19. Mar.1967.
- 98219 HABISH, H. A. Role of antagonistic bacterium in the decline of Xanthomonas malvacearum in wet cotton debris. Empire Cotton Growing Rev. 45(1):36-41. Ref. Jan.1968. 72.8 Em7



- 98220 HEINRICH, D. H. Alfalfa varieties—yield in growth chamber and bacterial wilt reaction. Forage Notes [Ottawa] 13(1):27. Spring 1967. 60.8 F742
- 98221 SINGH, N., CHAND, J. N., and RAI, I. S. Angular leaf spot of cotton in relation to date of sowing. Punjab Agr. Univ. J. Res. 4(1):76-78. Mar. 1967. S19.P8  
Caused by *Xanthomonas malvacearum*.
- 98222 TOMINAGA, T. Bacterial stripe of teosinte caused by *Pseudomonas andropogonis* (E. F. Smith) Stapp. (Ja) Jap. Soc. Grassland Sci. J. 13(3):156-159. Ref. Oct. 1967. 60.9 J27  
English summary.
- 98223 ULRICH, V., and SNELL, R. S. The relative efficiency of ear-to-row and convergent improvement in increasing disease resistance of *Zea mays*. W. Va. Acad. Sci. Proc. 39:235-242. Ref. 1967. 500 W52  
*Xanthomonas stewartii*, causal factor of wilt, transmitted by *Chaetocnema pulicaria*.
- 98224 VIDAVER, A. K., and SCHUSTER, M. L. Needed, new approaches to "birth control" for bacteria that cause disease in plants. Nebr. Univ. Coll. Agr. Home Econ. Quart. Serving Farm Ranch Home 11, 14(3):6-8. Fall 1967. 100 N27N  
Protecting field crops.
- Bacterial Diseases - Horticultural Crops**
- 98225 ABDEL-REKHM, M. A. Black leg disease of potatoes in UAR. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 4:114-116. 1967. 442.8 N22  
Caused by *Pectobacterium carotovorum atrosepticum*.
- 98226 BONING, K. Influence of fertilizers on outbreak of parasitic diseases of potato leaves. (Ge) Kartoffelbau 18(1):19-20. Jan. 1967. 75.8 K145  
Bacterial diseases.
- 98227 BRAUN, H. New data on black leg of potatoes and soft rot. (Ge) Kartoffelbau 18(1):20-21. Jan. 1967. 75.8 K145  
Bacterial diseases.
- 98228 CAMERON, H. R. Filbert blight. Nut Growers Soc. Oreg. Wash. Proc. Dec. 8, 1967:51-52. 94.69 W52  
*Xanthomonas corylina*.
- 98229 CONSTANTINESCU, G., and others. The primary cankerous tumor in different grape varieties. (Fr) Rev. Roum. Biol. Ser. Bot. 12(4):319-328. Ref. 1967. QK1.R4  
I. Morlova, T. Ursu, and F. Dobre, joint authors.  
Caused by *Agrobacterium tumefaciens*.
- 98230 COYIER, D. L. Fire blight - past, present and future. Wash. State Hort. Ass. Proc. 1967:142-143. Ref. 81 W273  
*Erwinia amylovora* in pear.
- 98231 GARRETT, C. M. E. Bacteria associated with frost-damaged apple blossoms. East Malling Res. Sta. Annu. Rep. Apr. 1968:139-140. 103 Ea7  
*Pseudomonas* spp.
- 98232 KHRISTOV, KH., KAROV, S., and VILCHEV, S. Bacterial rot of table onion. (Hu) Kertesz. Szoleszeti Foiskola. Kiadv. 3(1):411-426. 1966. SB13.K4  
*Pseudomonas allicola* and *P. cepacia* as causal agents.
- 98233 KURKDJIAN, A., BEARDSLEY, R., and MANIGAULT, P. Bacteriophages of *Agrobacterium tumefaciens*. II. (Fr) Inst. Pasteur. Ann. 114(4):555-561. Ref. Apr. 1968. 448.3 An75  
English summary.  
In peas.
- 98234 LOCKHART, C. L., and GOURLEY, C. O. Fire blight, a new bacterial disease of fruit trees in Nova Scotia. Nova Scotia Fruit Growers Ass. Annu. Rep. 103(1):61-66. Dec. 1966. 82 N85  
*Erwinia amylovora* on pears and apples.
- 98235 LOCKHART, C. L., and GOURLEY, C. O. Fire blight information guide. Nova Scotia Fruit Growers Ass. Annu. Rep. 103(1):66-70. Dec. 1966. 81 N85  
*Erwinia amylovora* on pears and apples.
- 98236 LOVREKOVICH, L., LOVREKOVICH, H., and STAHMANN, M. A. Inhibition of phenol oxidation by *Erwinia carotovora* in potato tuber tissue and its significance in disease resistance. Phytopathology 57(7):737-742. Ref. July 1967. 464.8 P56  
Resistance to soft rot.
- 98237 MANIGAULT, P., and KURKDJIAN, A. Effects of light on the development of tumors of *Pisum sativum* L. seedlings, induced by *Agrobacterium tumefaciens* (Smith and Town) Conn. (Fr) Acad. Sci. Compt. Rend. Ser. D, 264(19):2304-2306. May 8, 1967. 505 P21
- 98238 MICHEL, M., and HOMES, J. Some morphological aspects of crown-gall development on tomato plants [*Lycopersicon lycopersicum* L. Karst]. (Fr) Belg. Soc. Roy. Bot. Bull. 100(2):293-308. Ref. 1967. 451 B41B  
*Agrobacterium tumefaciens*.
- 98239 RUDOLPH, K. On the future importance of halo blight of beans (*Phaseolus vulgaris* L.) caused by *Pseudomonas phaseolicola* (Burkh.) Dowson and possibilities of controlling it. (Ge) Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz 74(9):545-552. Ref. Sept. 1967. 464.8 Z3  
English summary.  
Germany.
- 98240 WILSON, E. E., ZEITOUN, F. M., and FREDRICKSON, D. L. Bacterial phloem canker, a new disease of Persian walnut [*Juglans regia*] trees. Phytopathology 57(6):618-621. June 1967. 464.8 P56  
*Erwinia rubrifaciens* n. sp.
- Fungus Diseases**
- 98241 ADAMS, P. B. A buried membrane filter method for studying behavior of soil fungi. Phytopathology 57(6):602-603. Ref. June 1967. 464.8 P56  
*Thielaviopsis basicola*, chiefly.
- 98242 BAKER, K. F., and others. Effect of antagonists on growth and survival of *Rhizoctonia solani* in soil. Phytopathology 57(6):591-597. Ref. June 1967. 464.8 P56  
N. T. Flentje, C. M. Olsen, and H. M. Stretton, joint authors.
- 98243 BELL, A. A. Formation of gossypol in infected or chemically irritated tissues of *Gossypium* species. Phytopathology 57(7):759-764. Ref. July 1967. 464.8 P56  
Its role in resistance to various fungus diseases.
- 98244 BYRDE, R. J. W. The vulnerability of fungus spores to fungicides. In Madelin, M. F., ed. The fungus spore, p. 289-297. Ref. 1966. QK601.M3
- 98245 CAPRILES DE REYES, L., SCHULZ SCHOMBURGK, E., and MUNOZ, A. The chlorogenic acid content of various varieties of cacao and its relation to resistance to the fungus *Cercosyia fimbriata*. (Sp) Agron. Trop. [Maracay] 16(4):273-284. Ref. Oct./Dec. 1966. 26 Ag87
- 98246 CRANDALL, B. S., and GRAVATT, G. F. The distribution of *Phytophthora cinnamomi*. Ceiba 13(1):43-53. Mar. 1967. 475 C32
- 98247 DHAR, A. K., and BOSE, S. K. Studies on versicolin, a new antifungal antibiotic from *Aspergillus versicolor*. II. Appl. Microbiol. 16(5):749-752. May 1968. 448.3 Ap5
- 98248 EASLEY, W. K., PURVIS, M. B., and COPELAND, T. P. Bioassay of certain organic compounds employing *Aspergillus niger*. La. Acad. Sci. Proc. 30:16-20. 1967. 500 L932  
For possible fungicidal activity.
- 98249 EMDEN, J. H. VAN. On soilborne pathogenic fungi. (Du) Neth. Dir. Tuinbouw. Mededel. 30(6):248-256. June 1967. 86 N384  
English summary, p. 276.
- 98250 FORD, E. J., BOURRET, J. A., and SNYDER, W. C. Biologic specialization in *Calonectria* (*Fusarium*) *rigidiuscula* in relation to green point gall of cocoa. Phytopathology 57(7):710-712. Ref. July 1967. 464.8 P56

- 98251 GARRETT, S. D. Spores as propagules of disease. In Madelin, M. F., ed. The fungus spore, p.309-319. Ref. 1966. QK601.M3  
Includes discussion.
- 98252 GOOD, H. M., and ZATHURECZKY, P. G. M. Effects of drying on the viability of germinated spores of *Botrytis cinerea*, *Cercospora musae*, and *Monilinia fructicola*. *Phytopathology* 57(7):719-722. July 1967. 464.8 P56
- 98253 GORSKA-POCZOPKO, J., MIERNIK, J., and LUKASIEWICZ, A. Fungistatic activity of some  $\alpha$ -(trihalogenomethyl) amines. *Acad. Polon. Sci. Bull. Ser. Sci. Biol.* 15(11):649-651. 1967. 512 W262  
Tested on *Alternaria tenuis*.
- 98254 GREAT BRITAIN. MINISTRY OF AGRICULTURE, FISHERIES AND FOOD. Violet root rot. Great Brit. Min. Agr. Fish. Food. Adv. Leaflet 346, rev. 4 p. Dec. 1968. 10 G79La  
Caused in plants by *Helicobasidium purpureum*.
- 98255 HOCKING, D. Disease resistance in coffee berries. IV - Reversible susceptibility induced by metabolic inhibitors. *East. Afr. Agr. Forest. J.* 33(2):197-200. Oct. 1967. 24 Ea74  
To fungus diseases.
- 98256 HOCKING, D., WHITE, P. J., and JAFFER, A. Fungicides for arabica coffee. V. Improved laboratory assessments and further tests against *Hemileia vastatrix*. *East. Afr. Agr. Forest. J.* 33(2):136-138. Oct. 1967. 24 Ea74
- 98257 JARAS, A., TOMAN, M., and SKROBAL, M. Liquid mercuric seed dressing with broad effectiveness. *Agrochemia [Bratislava]* 7(12):368-370. 1967. 385 Ag88  
Fungus control.
- 98258 KLJAJIC, R. Determination of the lethal doses of Co-60 gamma rays for certain phytopathogenic fungi. 7 p. Ref. Transl. 14701  
Translation from *Journal for Scientific Agricultural Research* 13(39). 1960.
- 98259 KRISTINSSON, H. Investigations on the sexual course of development of *Pseudopeziza medicaginis* (Lib.) Sacc. and *Drepanopeziza ribis* (Kleb. v. Hohn.). (Ge) *Phytopathol. Z.* 60(1):1-40. Ref. Sept. 1967. 464.8 P562  
English summary.
- 98260 LEATHER, R. I. The occurrence of a *Phytophthora* root and leaf disease of black pepper [*Piper nigrum*] in Jamaica. *FAO Plant Protect. Bull.* 15(1):15-16. Feb. 1967. 421 P692
- 98261 MANTLE, P. G. Growth of *Atkinsonella hypoxylon* in pure culture. *Brit. Mycol. Soc. Trans.* 50(3):497-498. Sept. 1967. 451 B76  
Isolated from roots of *Danthonia spicata*.
- 98262 MARTIN, R. The effect of malachite green as a fungicide. *Ohio J. Sci.* 68(2):118-121. Ref. Mar. 1968. 410 Oh3
- 98263 MCNAB, J. M., NEVINS, D. J., and ALBERSHEIM, P. Differential resistance of cell walls of *Acer pseudoplatanus*, *Triticum vulgare*, *Hordeum vulgare*, and *Zea mays* to polysaccharide-degrading enzymes. *Phytopathology* 57(6):625-631. Ref. June 1967. 464.8 P56  
Enzymes from *Colletotrichum lindemuthianum*.
- 98264 MEIFFREN, M., and TANGUY, J. The rôle of phenolic compounds during the infection of *Theobroma cacao* L. pods by *Phytophthora palmivora* Butl. (Fr) *Acad. Sci. Compt. Rend. Ser. D*, 265(16):1131-1133. Oct. 16, 1967. 505 P21
- 98265 MENZIES, J. D., and GRIEBEL, G. E. Survival and saprophytic growth of *Verticillium dahliae* in uncropped soil. *Phytopathology* 57(7):703-709. July 1967. 464.8 P56
- 98266 MIXON, A. C., and CURL, E. A. Influence of plant residues on *Sclerotium rolfsii* and inhibitory soil microorganisms [*Trichoderma*]. *Crop Sci.* 7(6):641-644. Ref. Nov./Dec. 1967. 64.8 C883
- 98267 NAITO, N., and YAMAMOTO, H. Infection structures produced on peeled epidermis of plants by *Puccinia coronata* uredospores. (Ja) *Kagawa Univ. Fac. Agr. Tech. Bull.* 19(1):24-32. 1967. 107.6 K113  
English summary.
- 98268 NESHEIM, O. N., and LINN, M. B. The fungitoxicity of thiram, captan, and chemagro 2635 in relation to organic matter and clay content of soil. *Ill. State Acad. Sci. Trans.* 61(1):26-30. Ref. 1968. 500 IL6
- 98269 OLSEN, C. M., FLENTJE, N. T., and BAKER, R. F. Comparative survival of monobasidial cultures of *Thanatephorus cucumeris* in soil. *Phytopathology* 57(6):598-601. Ref. June 1967. 464.8 P56
- 98270 PAZ, M. H. The pink disease. (Sp) *Rev. Cafetalera* 64:26. Dec. 1966. 68.28 R322  
Caused by *Corticium salmonicolor*.
- 98271 RABBE, R. D. WEINHOLD, A. R., and WILBUR, W. D. Research on *Armillaria mellea*, the oak root fungus. *Calif. Agr.* 21(4):12-14. Apr. 1967. 100 C12Cag  
Cause of disease chiefly, in oak, fruit, and ornamentals.
- 98272 RAJENDREN, R. B. The identity and status of the rust on *Dalbergia paniculata*. *Torrey Bot. Club. Bull.* 94(2):84-86. Mar./Apr. 1967. 451 T63B  
A recently described genus and species, *Scopelopsis dalbergiae*.
- 98273 SCHIFFMANN-NADEL, M., and COHEN, E. Method for production of sporangia of *Phytophthora citrophthora*. *Phytopathology* 58(4):550. Apr. 1968. 464.8 P56
- 98274 SHANMUGANATHAN, N. The economics of *Porra* eradication. *Ceylon. Tea Res. Inst. Tea Quart.* 38(3):253-259. Sept. 1967. 68.18 C33
- 98275 SILVA, R. L. DE. A new look at the economics of blister blight [*Exobasidium vexans*] control. *Ceylon. Tea Res. Inst. Tea Quart.* 38(3):282-286. Sept. 1967. 68.18 C33
- 98276 SINGH, R. A., and PAVGI, M. S. Secondary host infection by an *Entyloma* species. *Cur. Sci.* 37(1):26. Jan. 5, 1968. 475 Sci23  
*Blumea oxydonta* infected by *E. thirumalachari*.
- 98277 SOMERS, E. The sites of reaction of fungicides in spores. In Madelin, M. F., ed. The fungus spore, p.299-308. Ref. 1966. QK601.M3  
Includes discussion.
- 98278 TATSUYAMA, K. Influence of several fungicides on the mycelial growth of *Schizophyllum commune* and inactivation of fungicidal activity caused by making contact with powder made from sap wood of *Cryptomeria* tree. (Ja) *Shimane Agr. Coll. Bull.* 15(A-1):49-51. Jan. 1967. S539, J355  
English summary.
- 98279 VENKATARAMAIAH, G. H. Bordeaux mixture, a review. *Indian Coffee* 31(5):5-9. Ref. May 1967. 68.29 In23M  
For use against coffee leaf rust, *Hemileia vastatrix*.
- 98280 VEVER, R., NANGNIOT, P., and MARTENS, P. H. Polarography applied to the quantitative analysis of fungicide or insecticide deposits or residues on cultivated plants. VI. The polarographic determination of N-(1,1,2,2-tetrachloroethyl-thio)-tetrahydro-phthalimide or ortho-difolatan. (Fr) *Bull. Rech. Agron. Gembloux* 2(2):369-376. 1967. S5.B8  
Fungicide.
- 98281 WILSON, C. L., and AIST, J. R. Motility of fungal nuclei. *Phytopathology* 57(7):769-771. Ref. July 1967. 464.8 P56
- 98282 ZARACOVITIS, C. The germination in vitro of conidia of powdery mildew fungi. In Madelin, M. F., ed. The fungus spore, p.275-287. Ref. 1966. QK601.M3  
Includes discussion.
- 98283 ZENTMYER, G. A. Recent advances in the control of soil fungi. *FAO Plant Protect. Bull.* 15(1):1-5. Feb. 1967. 421 P692  
California.

## Fungus Diseases - Field Crops

- 98284 AHMED, N. J., and PADMANABHAN, D. Studies on the incidence of sugarcane smut (*Ustilago scitaminea* Syd.) in relation to ratooning. *Madras Agr. J.* 54(12):651-652. Dec. 1967. 22 M262



- 98285 ANDERSSON, K. Aphids and mildew—two economically important pests of grain in southern Sweden 1967. (Sw) Vaxtskyddnotiser 32(1):2-8. 1968. 464.9 Sw3V
- 98286 ARTSIKHOVSKAYA, E. V., and MIKHALEVSKAYA, O. B. The comparative histochemical study of the tissues of corn infected with *Ustilago maidis*. (Rus) Vses. Akad. Sel'skokhoz. Nauk. V. I. Lenina. Dokl. 5:17-19. May 1967. 20 Ak1
- 98287 AUJLA, S. S., and BEDI, P. S. Relative reaction of different varieties of gram to blight disease incited by *Phyllosticta rabiei* (Pass.) Trot in the Punjab. Punjab Agr. Univ. J. Res. 4(2):214-216. June 1967. S19.P8
- 98288 BAGYOY, A. C., REYES, T. T., and ELA, V. M. Test of four fungicides for the control of *Cercospora* leaf spot or frog-eye disease of tobacco. Philippine Agr. 50(8):823-830. Ref. Jan. 1967. 25 P542
- 98289 BARTOS, P., SEBESTA, J., and BARES, I. Field trials with the resistance to the *Puccinia graminis* tritici of world varieties of wheat. (Cz) Sb. UVTI (Ustav Vedeckotech. Inform.) Genet. Slechteni 3(3):213-220. Ref. June 1967. QH431.A1S25  
English summary.
- 98290 BEINGOLEA GUERRERO, O. Recent developments in non-breeding methods for the control of cotton diseases. Seminar Cotton Prod. Res. Cotton Breed. Dis. Resist. Contr. Dis. 1966:25-64. SB608.C8S4  
Bibliography, p.56-64.  
Chemical and biological.
- 98291 BHULLAR, G. S., ANAND, S. C., and SINGH, G. Study of field reaction to yellow rust in intervarietal crosses of *Triticum aestivum*. Punjab Agr. Univ. J. Res. 4(1):47-49. Mar. 1967. S19.P8
- 98292 BOND, D. A., and TOYNBEE-CLARKE, G. Resistance to *Sclerotinia trifoliorum* in red clover collected from North Africa. J. Agr. Sci. [London] 69(2):259-262. Oct. 1967. 10 J822
- 98293 BORZOVA, I. A. Pathological-anatomical changes in vegetative organs of maize attacked by the smut. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 1:77-82. 1967. 442.8 N22
- 98294 BULOW, J. F. W. VON. Corn (*Zea mays*) rusts (*Puccinia sorghi*, *P. polysora*, *Physopella zeae*). I. Review. (Por) Pesquisa Agropecuar. Brasil. 1:249-262. Ref. 1966. S15.P42  
English summary.
- 98295 BULOW, J. F. W. VON. Corn (*Zea mays*) rusts (*Puccinia sorghi*, *P. polysora*, *Physopella zeae*). II. A comparative study and natural enemies. (Por) Pesquisa Agropecuar. Brasil. 1:289-293. 1966. S15.P42  
English summary.  
Natural enemies include the fungus *Darlucula filum* and the larva of the order Diptera belonging either to the family Cecidomyiidae or Mycetophyllidae.
- 98296 BUSH, L. Cytoplasmic carotenes of race 15B and race 56 of *Puccinia graminis* f. sp. tritici. Phytopathology 57(7):785-788. July 1967. 464.8 P56  
Pathogenicity to wheat.
- 98297 CALPOUZOS, L., and STALLKNECHT, G. F. Effects of light on sporulation of *Cercospora beticola*. Phytopathology 57(7):679-681. July 1967. 464.8 P56  
Isolated from sugar beets and exposed to fluorescent light.
- 98298 CALPOUZOS, L., and STALLKNECHT, G. F. Symptoms of *Cercospora* [beticola] leaf spot of sugar beets influenced by light intensity. Phytopathology 57(7):799-800. July 1967. 464.8 P56
- 98299 CANTER-VISSCHER, T. W. Survival of *Verticillium dahliae* in tobacco plant residues. New Zeal. Tobacco Growers J. Mar. 1967:6-8. 69.8 N48
- 98300 CARLSON, L. W. Relation of weather factors to dispersal of conidia of *Cercospora beticola* (Sacc.). Amer. Soc. Sugar Beet Technol. J. 14(4):319-323. Jan. 1967. 66.9 Am35J  
Precipitation.
- 98301 CARMO E. FREITAS, A. P. DO. *Puccinia recondita* Rob. IV. New physiological races on wheat for the Portuguese continent and survey in the years 1962 and 1963. (Por) Agron. Lusitana 28(1):47-64. Ref., p.63-64. 1966, pub. 1967. 105.7 Ag8  
English summary.
- 98302 CHINTE-SANCHEZ, P., and OU, S. H. Effect of media and hydrogen-ion concentration on the growth and sporulation of *Piricularia oryzae* Cav. Philippine Agr. 50(8):745-754. Jan. 1967. 25 P542
- 98303 CHOI, H. O., and others. "Kwan Ok" a new blast resistant rice variety. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(1):13-20, map. Sept. 1967. 22.5 K843  
S. H. Bae, K. S. Chung, J. Y. Lee, T. S. Kim, R. K. Park, H. Heu, and H. S. Lee, joint authors.  
English summary.  
Caused by *Piricularia oryzae*.
- 98304 CHUNG, G. S. Studies on the inheritance of blast resistance of rice varieties to several Philippine isolates. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(1):33-41. Ref. Sept. 1967. 22.5 K843  
English summary.
- 98305 COLE, H., MASSIE, L. B., and DUICH, J. Bentgrass [*Agrostis*] varietal susceptibility to *Sclerotinia* [homoeocarpa] dollar spot and control with 1-(butylcarbamoyl)-2-benzimidazole carbamic acid, methyl ester, a new systemic fungicide. Plant Dis. Rep. 52(5):410-414. May 1968. 1.9 P69P
- 98306 DARUNDAY, Z. D., and HANSON, E. W. Some factors affecting the development of northern anthracnose of red clover. Crop Sci. 7(6):613-616. Nov./Dec. 1967. 64.8 C883  
Kabatiella caulivora as agent.
- 98307 DIMITRIJEVIC, M. A contribution to the study of *Cercospora* herpotrichoides on wheat. (Se) Zastita Bilja 93/95:241-246. Ref. 1967. 464.8 Z1  
English summary.
- 98308 DODOV, D. N., and DONCHEV, N. Physiologic races of wheat stem rust (*Puccinia graminis* tritici) differentiated in Bulgaria in 1961-1965. (Bu) Rastenievudni Nauk. 4(9):107-122. Ref. 1967. 64.8 R18  
English summary.
- 98309 DOLING, D. A. Evaluation of the reaction to yellow rust, *Puccinia striiformis*, of wheat varieties, 1957-66. Nat. Inst. Agr. Bot. J. 11(1):80-90. Ref. 1967. 103 N21J
- 98310 FERNANDO, DOMINGUEZ, P. Density of planting in tobacco nurseries and incidence of "sanchocho." (Sp) Jornadas Agron. Mem., 6th Conf., v.1, paper 9, 18 p. 1966. S211.J6 1966  
A complex of fungus diseases.
- 98311 GHAFAR, A. Interactions of soil fungi with *Macrophomina phaseoli* (Maubl.) Ashby, the cause of root rot of cotton. Mycopathol. Mycol. Appl. 34(2):196-201. Mar. 22, 1968. 450 M994
- 98312 GOLATO, C., and MEOSSI, E. Alternaria of cotton in Somalia. (It) Riv. Agr. Subtrop. Trop. 61(1/3):11-14. Ref. Jan./Mar. 1967. 26 Ag82  
Especially *Alternaria macrospora*.
- 98313 GOLYSHIN, N. M., and others. Using dithiocarbamates in control of *Peronospora* on tobacco. (Rus) Khim. Sel'skom Khoz. 5(6):27-30. Ref. June 1967. 385 K524  
V. I. Abelenstev, G. M. Dymshakova, T. M. Matveenko, and I. V. Yarynkina, joint authors.  
Caused by *Peronospora tabacina* Adam.
- 98314 GRUSHEVOI, S. E., and SHERSTYANYKH, O. I. Chemical control of tobacco *Peronospora* and root rot [*Rhizoctonia*]. (Rus) Tabak 3:50-52. 1967. 69.8 T112  
With Zineb, Bordeaux mixture and copper sulfate.
- 98315 HAMILTON, L. M., and STAKMAN, E. C. Time of stem rust appearance on wheat in the western Mississippi Basin in relation to the development of epidemics from 1921 to 1962. Phytopathology 57(6):609-614, map. Ref. June 1967. 464.8 P56

- 98316 HANCHEY, P., WHEELER, H., and LUKE, H. H. Pathological changes in ultrastructure: effects of victorin on oat roots. *Amer. J. Bot.* 55(1): 53-61. Ref. Jan. 1968. 450 Am36  
Study related to Victoria blight caused by *Helminthosporium victorae*.
- 98317 HASSEBRAUK, K. The epidemiology of black rust [*Puccinia graminis*] in central Europe. (Ge) *Phytopathol. Z.* 60(2):169-176. Ref. Oct. 1967. 464.8 P562  
English summary.  
Transmitted from *Berberis vulgaris* or by wind-borne spores to grain.
- 98318 HERMANSEN, J. E. Dispersal of mildew and rust over long distances. (Da) *Landbonyt* 21 (10):400-404. Oct. 1967. 11 L2322  
Cause of fungus diseases of grain.
- 98319 HIDA, W., and TAKAHASHI, H. Relation of environmental factors and age of Ladino clover plant to occurrence of *Curvularia leafspot* of Ladino clover. (Ja) *Jap. Soc. Grassland Sci. J.* 13(3):199-204. Ref. Oct. 1967. 60.9 J27  
English summary.
- 98320 JACKSON, A. O., and YOUNG, H. C. Teliospore formation by *Puccinia recondita* f. sp. *tritici* on seedling wheat plants. *Phytopathology* 57(7):793-794. July 1967. 464.8 P56
- 98321 JACKSON, C. R. A field study of fungal associations on peanut fruit. *Ga. Agr. Exp. Sta. Res. Bull.* 26,29 p. Ref. Feb. 1968. S51.E2
- 98322 JADOT, R. Behavior of tobacco in response to mildew epidemics (*Peronospora tabacina* Adam). (Fr) *Ann. Gembloux* 73(2):77-88. 1967. 13 G28
- 98323 JOHNSON, L. B., ZSCHEILE, F. P., and BRANNAMAN, B. L. Effect of *Puccinia recondita* infection on the RNA composition of wheat leaves. *Phytopathology* 57(6):632-638. Ref. June 1967. 464.8 P56
- 98324 KABIERSCH, Practical *Phytophthora* prognosis for the contract firm. (Ge) *Lohnunternehmen Land-Forstwirtschaft.* 23(3):75,78. 1968. 58.8 D81  
In potatoes.
- 98325 KENNETH, R. Studies on downy mildew diseases caused by *Sclerospora graminicola* (Sacc.) Shroet. and S. *sorghii* Weston and Uppal. In Avidov, Z., ed. *Studies in agricultural entomology and plant pathology*, p. 143-170. Ref. 1966. SB605.178A8  
S. *graminicola* on *Pennisetum typhoideum* and S. *sorghii* on *Sorghum vulgare sudanense*, *Sorghum halepense*, and corn.
- 98326 KHRISTOVA, E. *Cercospora* leafspot of sugar beet in Bulgaria. Biology of the pathogen *Cercospora beticola* Sacc. and its control. (Bu) *Rastenievudni Nauk.* 4(9):71-84. Ref. 1967. 64.8 R18  
English summary.
- 98327 KILPATRICK, R. A., and MERKLE, O. G. Seedling disease of wheat caused by *Sclerotium rolfsii*. *Phytopathology* 57(6):538-540. June 1967. 464.8 P56
- 98328 KIMBER, G. The incorporation of the resistance of *Aegilops ventricosa* to *Cercospora* leafspot into *Triticum aestivum*. *J. Agr. Sci. [London]* 68(3):373-376. June 1967. 10 J822
- 98329 LEHAMN, W. F., ERWIN, D. C., and STANFORD, E. H. Root rot tolerance in new alfalfa strains now available to plant breeders. *Calif. Agr.* 21(4):6. Apr. 1967. 100 C12Cag  
Caused by *Phytophthora megasperma*.
- 98330 LINDERMAN, R. G., and TOUSSOUN, T. A. Behavior of chlamydospores and endoconidia of *Thielaviopsis basicola* in nonsterilized soil. *Phytopathology* 57(7):729-731. July 1967. 464.8 P56  
Isolated from cotton and tobacco.
- 98331 LITHGOW, A. V. Blind seed disease in ryegrass paddocks. *New Zeal. J. Agr.* 114(5):18-19. May 1967. 23 N46J
- 98332 LOPEZ, L. C., and CHRISTENSEN, C. M. Effect of moisture content and temperature on invasion of stored corn by *Aspergillus flavus*. *Phytopathology* 57(6):588-590. June 1967. 464.8 P56
- 98333 LUDERS, W. The per hectare costs of the control of *Peronospora tabacina* Adam in tobacco. (Ge) *Gesunde Pflanzen* 19(6):124-128. June 1967. 464.8 G33
- 98334 MALYSHEVA, K. M., and ZEL'TSER, S. S. A protein-lipoid-polysaccharide complex of the cultural liquid and mycelium of the fungus *Verticillium [dahliae]* causing wilt in the cotton plant. (Rus) *Akad. Nauk SSR, Dokl.* 179:231-234. Ref. 1968. 511 P444A
- 98335 MANNINGER, I. Two years of experience on *Fusarium* infection of corn and on control possibilities. (Hu) *Magyar Mezogazdasag* 22(13): 12-13. Mar. 29, 1967. 19 M27  
Chiefly on *Fusarium graminearum*.
- 98336 MANZANILLA, A. R., and EXCONDE, O. R. Resistance of isolates of *Pyricularia oryzae* to fungicides. *Philippine Agr.* 50(8):755-770. Ref. Jan. 1967. 25 P542
- 98337 MARTENS, J. M., MCKENZIE, R. I. H., and GREEN, G. J. Thermal stability of stem rust [*Puccinia graminis*] resistance in oat seedlings. *Can. J. Bot.* 45(4):451-458. Ref. Apr. 1967. 470 C16C
- 98338 MATHRE, D. E., GARBER, R. H., and RAVENSCROFT, A. V. Effect of *Thielaviopsis basicola* root rot of cotton on incidence and severity of *Verticillium* wilt. *Phytopathology* 57(6):604-608. Ref. June 1967. 464.8 P56  
Causal organism, *Verticillium albo-atrum*.
- 98339 MCCARTER, S. M. Effect of soil moisture and soil temperature on black shank disease development in tobacco. *Phytopathology* 57(7):691-695. Ref. July 1967. 464.8 P56
- 98340 MCDONALD, W. C. Variability and the inheritance of morphological mutants in *Pyrenophora* species. *Phytopathology* 57(7):747-755. Ref. July 1967. 464.8 P56  
Isolated from barley.
- 98341 MISRA, D. P. Genes conditioning resistance of some more of H<sub>2</sub> Flor's differentials against Indian races of linseed rust. *Indian J. Genet. Plant Breeding* 26(3):295-310. Nov. 1966. 64.8 In2  
*Melampsora lini* in flax.
- 98342 MONTILLA, D., and NAVA, C. Observations on an epidemic of wilt in the sesame crop in the State of Portuguesa. (Sp) *Agron. Trop. [Maracay]* 16(4):285-290. Oct./Dec. 1966. 26 Ag87  
English summary.  
*Phytophthora*.
- 98343 NAIM, M. S., and EL-ESAWY, A. A. Bacterial and fungal metabolites of rhizospheric microflora of cotton antagonistic to *Rhizoctonia solani* Kuhn. *Mycopathol. Mycol. Appl.* 32(1):68-74. Ref. June 13, 1967. 450 M994  
Cause of damping-off; tested with *Bacillus* and *Aspergillus* spp.
- 98344 NAJDENOVSKI, R. The lodging of rootstocks. (Se) *Sovremeno Zemjod.* 14(3):7. Mar. 1967. S13.S6  
Of tobacco in hotbeds caused by *Pythium debaryanum*; includes control.
- 98345 NATH, V. R., and KULKARNI, L. G. Effect of different dates of sowing of groundnut on the development and intensity of leaf-spot disease by *Cercospora* spp. *Indian J. Agr. Sci.* 37(5): 362-368. Ref. Oct. 1967. 22 Ag831  
Caused by *Cercospora personata* and *C. arachidicola*.
- 98346 NODDEGAARD, E. Chemical control of mildew on grain. (Da) *Landbonyt* 22(4):161-164, 166. Apr. 1968. 11 L2322
- 98347 PARASHAR, R. D., and CHOCHAN, J. S. Effect of black point disease of wheat (*Helminthosporium sativum* P. K. & B. and *Alternaria tenuis* Nees) on seed germination under laboratory and field conditions and on yield. *Punjab Agr. Univ. J. Res.* 4(1):73-75. Mar. 1967. S19.P8
- 98348 PEDERSON, V. D. A recent development in control of barley loose smut [*Ustilago nuda* (Jens.) Rostr.] *Barley Impr. Conf. Proc.* Jan. 19, 1967:33-35. 59.9 M583  
With Vitavax in South Dakota.



- 98349 PEPPER, E. H. Kernel blighting of malting barley varieties. N. Dak. Farm Res. 25(1):10-12. Sept./Oct. 1967. 100 N813B  
Pathogens chiefly *Alternaria* spp., *Helminthosporium* spp. and *Fusarium* spp.
- 98350 PERISIC, M., and STOJANOVIC, D. A contribution to the study of biology of *Stemphylium botryosum* Wall. and *Pleospora herbarum* (Pers.) Rabenii an agent of brown spots of alfalfa. (Se) Zastita Bilja 93/95:37-44. 1967. 464.8 Z1  
English summary.
- 98351 PRAKASAM, P., and SATYANARAYANA, V. A note on in-vitro sporulating culture of *Cercospora koepkei* Kruger, the causal organism of yellow-spot disease of sugarcane. Indian J. Agr. Sci. 37(5):395-397. Oct. 1967. 22 Ag831
- 98352 RINTELEN, J. Studies of *Fusarium* stem rot of maturing corn in southern Germany. (Ge) Phytopathol. Z. 60(2):141-168. Ref. Oct. 1967. 464.8 P562  
English summary.
- 98353 SANDHU, S. S., and BABU, C. N. On the comparative efficiency of the existing two methods of rating sugarcane varieties for red rot resistance. Punjab Agr. Univ. J. Res. 4(2):211-213. June 1967. S19.P8
- 98354 SCHILTZ, P. Contribution to the study of the aggressivity of *Peronospora tabacina*. (Fr) Acad. Sci. C. R., Ser. D, 264(24):2785-2788. June 12, 1967. 505 P21
- 98355 SCHNATHORST, W. C., and MATHRE, D. E. Strains of the *Verticillium* wilt fungus in California cotton. Calif. Agr. 21(3):4-5. Mar. 1967. 100 C12Cag  
Caused by *Verticillium albo-atrum*.
- 98356 SCHULTZ, O. E. Common foliar diseases of alfalfa and clovers. Cornell Univ. Ext. Cornell Ext. Bull. 1205, 7 p. May 1968. 275.29 N48E  
Fungus diseases.
- 98357 SCHWARZBACH, E. Recessive total resistance of barley to the mildew (*Erysiphe graminis* D.C. f. sp. *hordei* Marchal) as a mutation induced by ethyl methanesulfonate. (Cz) Sb. UVTI (Ustav Vedeckotech. Inform.) Genet. Slechteni 3(2):159-162. Mar. 1967. QH431.A1S25  
English summary.
- 98358 SHIPTON, W. A. Fungi associated with "purple patch" of subterranean clover in Western Australia. Australian J. Sci. 30(2):65-66. Aug. 1967. 475 Au72
- 98359 SMILJAKOVIC, H., and KOSTIC, B. Study of resistance of some barley varieties to *Helminthosporium teres* Sacc. and *Helminthosporium sativum* Pam., King and Bakke. (Se) Zastita Bilja 93/95:125-131. 1967. 464.8 Z1  
English summary.
- 98360 SPROCHOVA, H. Growth substances effecting stomata opening of the barley attacked by powdery mildew [*Erysiphe graminis hordei*]. Phytopathol. Z. 60(2):177-180. Oct. 1967. 464.8 P562
- 98361 STUBBS, R. W. Influence of light intensity on the reactions of wheat and barley seedlings to *Puccinia striiformis*. Phytopathology 57(6):615-617. Ref. June 1967. 464.8 P56
- 98362 STUBBS, R. W., VECHT, H., and FUCHS, E. Report on the Yellow Rust Trials Project in 1965. Stichting Ned. Graan-Cent. Tech. Ber. 16, 56 p., map. June 1967. 59.9 St52Tb  
World survey of *Puccinia striiformis* on wheat and barley.
- 98363 SUBRAMANIAN, S. Rice blast, [*Piricularia oryzae*] nyctotemperature and metabolic changes. Phytopathol. Z. 60(1):41-50. Ref. Sept. 1967. 464.8 P562
- 98364 SUGAWARA, T., and others. Effect of planting methods on infection of spot diseases in Italian ryegrass selection. (Ja) Jap. Soc. Grassland Sci. J. 13(1):32-38. Ref. May 1967. 60.9 J27  
S. Murasato, S. Kojima, M. Watanabe, joint authors.  
English summary.  
Leaf spot caused by *Helminthosporium siccans* and *Pseudomonas coronafaciens*.
- 98365 SUNDARAM, N. V. Ergot disease of bajra: its symptoms and control. Indian Farming 17(9):56-58. Dec. 1967. 22 In283
- 98366 SUNDARAM, N. V. Sugary disease of jowar—how to recognize and control it. Indian Farming 18(1):21-22. Apr. 1968. 22 In283  
*Sphacelia sorghi* in India.
- 98367 SURYANARAYANA, D. India ergot [*Claviceps purpurea*] on barley. FAO Plant Protect. Bull. 15(1):19. Feb. 1967. 421 P692
- 98368 TAKEGAMI, S., and SASAI, K. Studies on resistance of wheat varieties to scab (*Gibberella zeae* (Schw.) Petch.). VII. Scab infection of rachis of wheat head by the improved method of inoculation and varietal differences in resistance. (Ja) Crop Sci. Soc. Japan. Proc. 36(2):169-172. June 1967. 22.5 C88  
English summary.
- 98369 TATSUYAMA, K. Fungicidal activity of mercury compounds co-existing with protein in rice plant. (Ja) Shimane Agr. Coll. Bull. 15(A-1):39-45. Ref. Jan. 1967. S539.J3S5
- 98370 TERBLANCHE, M., and RABIE, C. J. A toxic fungus (*Sclerotium rolfsii*) isolated from groundnuts. S. Afr. J. Agr. Sci. 10(1):253-261. Ref. Mar. 1967. 24 Su3  
Toxic to livestock.
- 98371 VANDERWALLE, R., and SOMMEREYNS, G. The resistance of loose smut spores [*Ustilago*] of grain to the action of anaerobic media. (Fr) Bull. Rech. Agron. Gembloux 2(2):355-368. Ref. 1967. S5.B8
- 98372 VASIL'EVA, K. V., and METLITSKII, L. V. Trans-eliminative decomposition of pectinal substances, caused by *Verticillium dahliae* Klebahn. (Rus) Akad. Nauk SSSR. Dokl. 179:461-464. 1968. 511 P444A  
Isolated from cotton.
- 98373 VEERARAGHAVAN, J. A note on screening rice varieties for resistance to blast disease caused by *Piricularia oryzae* Cav. Indian J. Agr. Sci. 37(5):410-412. Oct. 1967. 22 Ag831
- 98374 VIJAYAN, K. M., and NATARAJAN, S. A note on the fungicidal control of ragi blast at Tindivanam. Madras Agr. J. 54(9):485-486. Sept. 1967. 22 M262  
*Piricularia setariae*.
- 98375 VORONKOV, L. A. The content of heteroauxin in maize leaf tissues infected by smut tumor. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 2 99-102. 1967. 442.8 N22
- 98376 VOZDOVA, G., and PRUDEK, M. Trials with the resistance of the self-pollinating lines of foreign varieties of corn to the smut (*Ustilago maydis*) under conditions of natural infection. (Cz) Sb. UVTI (Ustav Vedeckotech. Inform.) Genet. Slechteni 3(2):147-158. Mar. 1967. QH431.A1S25  
English summary.
- 98377 WALKER, E. E. *Pythium* and *Phytophthora* in transplants. New Zeal. Tobacco Growers J. Mar. 1967:16-19. 69.8 N48  
Control in tobacco.
- 98378 WELLS, H. D., and BURTON, G. W. *Helminthosporium setariae* on pearl millet, *Pennisetum typhoides*, as affected by age of host and host differences. Crop Sci. 7(6):621-622. Nov./Dec. 1967. 64.8 C883
- 98379 WILLIAMS, P. G., and ALLEN, P. J. Endogenous respiration of wheat stem rust uredospores. Phytopathology 57(7):656-661. Ref. July 1967. 464.8 P56  
*Puccinia graminis tritici*.
- 98380 YAMAMOTO, M., TATSUYAMA, K., and TAKAGI, Y. Effect of some herbicides on the occurrence of helminthosporiose of rice plant. (Ja) Shimane Agr. Coll. Bull. 15(A-1):46-48. Jan. 1967. S539.J3S5  
English summary.  
Two, 4-D; PCP; MCP.
- 98381 ZIMMER, D. E., and URIE, A. L. Significance of seedling rust resistance of safflower and its relationship to foliage rust resistance. Phytopathology 57(7):772-776. Ref. July 1967. 464.8 P56

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- 98382 ALFIERI, S. A., MARTINEZ, A. P., and WEHLBURG, C. Stem and needle blight of Florida Torreya, *Torreya taxifolia* Arn. Fla. State Hort. Soc. Proc. 80:428-431. May 1, 1968. 81 F66  
Torreya taxifolia.
- 98383 ALGHISI, P., and LENNA, P. DI. Results of a test for control of collar rot of chicory. (It) Agr. Venez. 22(2):81-87. Ref. Feb. 1968. 16 Ag826  
English summary.  
Caused by *Sclerotinia minor*.
- 98384 ASSCHE, C. VAN. The influence of soil composition and moisture on the effectiveness of methyl bromide. (Fl) Tuinbouwberichten 31(11):377-378. Nov. 1967. 80 T817  
For control of fungus diseases of vegetables in Belgium.
- 98385 BAKKER, J. Storage of *Lilium pumilum* bulbs. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:88. 86 Aa4  
With reference to fungus diseases.
- 98386 BARKAI-GOLAN, R., and KAHAN, R. S. Combined action of diphenyl and gamma radiation on the in vitro development of fungi pathogenic to citrus fruits. *Phytopathology* 57(7):696-698. July 1967. 464.8 P56
- 98387 BAUDYS, E. Destructive galls on *Forsythia*. (Cz) Ziva 15(5):186. Sept. 1967. 409.6 Z6  
*Forsythia suspensa*; probably caused either by fungi of the genus *Phomopsis* or by *Agrobacterium tumefaciens* and *Corynebacterium fascians*.
- 98388 BAUMGARTNER, H. Sprays influence yield and quality. (Ge) Schweiz. Z. Obst- Weinbau 103(7):249-251. Apr. 1, 1967. 80 Sch9  
Fungicides applied to grapes.
- 98389 BECKER, H. Botrytis [cinerea] and grape grafting. (Ge) Weinberg Keller 13(12):533-547. Ref. Dec. 1966. 95.8 W435  
English summary.
- 98390 BECKMAN, C. H. Respiratory response of radish varieties resistant and susceptible to vascular infection by *Fusarium oxysporum* f. *conglutinans*. *Phytopathology* 57(7):699-702. Ref. July 1967. 464.8 P56
- 98391 BELGRAVER, W., and BEUZENBERG, M. P. Control of parasites through the use of mixed pesticides. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:36-38. 86 Aa4  
Control of fungus diseases and insects of carnations.
- 98392 BENNETT, M., and MOORE, M. H. Intensive field comparison of fungicides for apple mildew control. East Malling Res. Sta. Annu. Rep.. Apr. 1968:145-150. 103 Ea7  
*Podosphaera leucotricha*.
- 98393 BENNETT, M. Strawberry fruit malformation. II. Role of disease and fungicides. East Malling Res. Sta. Annu. Rep. Apr. 1968:203-204. 103 Ea7  
Botrytis rot.
- 98394 BERGER, R. D. Marginal leaf blight of lettuce. Fla. State Hort. Soc. Proc. 80:134-138. Ref. May 1, 1968. 81 F66
- 98395 BEUZENBERG, M. P. Control of mildew of roses. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:107-108. 86 Aa4  
Caused by *Sphaerotheca pannosa*.
- 98396 BEUZENBERG, M. P. Control of root rot. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:67. 86 Aa4  
*Fusarium* and *Pectobacterium parthenii* on *Dieffenbachia*.
- 98397 BEUZENBERG, M. P. Methyl bromide tests. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:133-136. 86 Aa4  
Soil treatment for the control of fungus diseases of ornamentals.
- 98398 BLAZQUEZ, C. H. *Corynespora* leaf spot of cucumber. Fla. State Hort. Soc. Proc. 80:177-182. Ref. May 1, 1968. 81 F66  
*Corynespora cassicola*.
- 98399 BLAZQUEZ, C. H., and HUNT, P. *Sphaeropsis* knot, a disease of rough lemon rootstock. Fla. State Hort. Soc. Proc. 80:46-52. May 1, 1968. 81 F66  
In West Indies.
- 98400 BOMPEIX, G. Effects of some mineral ions on the evolution of lenticel rot in Golden Delicious apples. (Fr) Acad. Sci. Compt. Rend. Ser. D, 265(14):969-971. Oct. 2, 1967. 505 P21  
Caused by *Phlyctaena vagabunda*.
- 98401 BROWN, G. E., and WILSON, W. C. Stem-end rot fungi in oranges: entry and possible use of preharvest fungicides for control. Fla. State Hort. Soc. Proc. 80:301-305. Ref. May 1, 1968. 81 F66
- 98402 BURCHILL, R. T. Air-dispersal of fungal spores with particular reference to apple scab [*Venturia inaequalis* (Cooke) Winter]. In Madelin, M. F., ed. The fungus spore, p. 135-141. Ref. 1966. QK601.M3  
Includes discussion.
- 98403 BURCHILL, R. T., and EDNEY, K. L. Experiments on the control of *Gloeosporium* fruit rots by field sprays. East Malling Res. Sta. Annu. Rep. Apr. 1968:135-137. 103 Ea7  
Apples.
- 98404 BURDEN, O. J. Studies on crown rot of bananas. Queensland Agr. J. 93(3):186. Mar. 1967. 23 Q33  
Thiabendazole used against *Colletotrichum musae*.
- 98405 CASTELLANI, E., and MATTA, A. First experiences in the use of mineral oil in *Pero-nospora* control of grape. (It) Turin. Univ. Fac. Sci. Agr. Ann. 1:163-174. 1961-62, pub. 1966. S9.T8  
English summary.  
Us of copper oxychloride, Zineb and Omadine in oil.
- 98406 CHAMBERS, A. Y. Evaluation of fungicides for control of stem anthracnose of lima beans. Tenn. Farm Home Sci. Progr. Rep. 62:4-6. Apr./June 1967. 100 T25F  
Caused by *Colletotrichum truncatum*.
- 98407 CHAND, J. N., RATTAN, B. K., and SURYAN-ARAYANA, D. Epidemiology and control of fruit rot of citrus caused by *Alternaria citri* Ellis and Pierce. Punjab Agr. Univ. J. Res. 4(2):217-222. June 1967. S19.P8
- 98408 CONOVER, R. A. Efficacy of new fungicides for control of gray leaf spot of tomatoes. Fla. State Hort. Soc. Proc. 80:162-167. May 1, 1968. 81 F66  
*Stemphylium solani*.
- 98409 COODE, M. J., FULTON, J. P., and SCOTT, H. A. *Fusarium* [oxysporum spinaceae] decline; a new disease of spinach in Arkansas. Ark. Farm Res. 17(2):16. Mar./Apr. 1968. 100 Ar42F
- 98410 CORKE, A. T. K. The role of rainwater in the movement of *Gloeosporium* spores on apple trees. In Madelin, M. F., ed. The fungus spore, p. 143-150. Ref. 1966. QK601.M3  
Includes discussion.
- 98411 COTTER, D. J., and WALKER, J. N. Climate-humidity interrelationships in plastic greenhouses. Amer. Soc. Hort. Sci. Proc. 89:584-593. Dec. 1966. 81 S012  
In relation to tomato leaf mold caused by *Cladosporium fulvum*.
- 98412 COUCH, H. B. Developing a turfgrass disease control program. West Va. Agr. Exp. Sta. Misc. Publ. 5:17-20. May 1968. S127.E2  
Chiefly fungus diseases.
- 98413 DALLE ROSE, A. D. Triphenyl tin acetate in the control of leaf spot on seed bearing beet plants. (It) Sementi Elette 13(1):28-32. Jan./Feb. 1967. 61.8 Se53  
English summary.  
*Cercospora beticola*.
- 98414 DE MEIRLEIRE, H. Black spot disease of Rosa. (Fr) *Phytoma* 19(184):16-17. Jan. 1967. 464.8 P563  
Control of *Marssonina rosae* with maneb, ziram, and mancoub.



- 98415 DIMITROV, S. Chemical control of Plasmodiophora brassicae Wor. on cabbage in Bulgaria. II. Testing new means against the disease on transplants. (Bu) Gradinar. Lozar. Nauk. 4(6): 73-81. 1967. 87 G75  
English summary.
- 98416 ENGELHARD, A. W. Safety of fungicides and Meta-Systox-R to Chrysanthemum flowers in Florida. Fla. State Hort. Soc. Proc. 80:443-448. May 1, 1968. 81 F66
- 98417 EVERETT, P. H., and BLAZQUEZ, C. H. Influence of lime on the development of Fusarium wilt of watermelons. Fla. State Hort. Soc. Proc. 80:143-148. Ref. May 1, 1968. 81 F66  
Fusarium oxysporum.
- 98418 FAYRET, J. Natural and in vitro biological cycle of Gnomonia leptostyla (Fr.) Ces. and de Not. (Fr) Acad. Sci. Compt. Rend. Ser. D, 265 (13):908-911. Ref. Sept. 25, 1967.  
Causal agent of anthracnose on Juglans regia.
- 98419 FISHER, K. D., CALAHAN, C. L., and MILLS, W. D. Understanding apple scab. Vt. Univ. Ext. Brieflet 1152, 7 p. Apr. 1967. 275.29 V59E  
Venturia inaequalis.
- 98420 GERLACH, W. Some observations and investigations on Fusarium bulb rot of tulip bulbs. (Ge) Gesunde Pflanzen 19(9):183-187. Ref. Sept. 1967. 464.8 G33  
F. oxysporum tulipae.
- 98421 GILMORE, A. E. Phycomycetous mycorrhizal organisms collected by open-pot culture methods. Hilgardia 39(4):87-105. Ref. May 1968. 100 C12H  
Endogone sp. on strawberries.
- 98422 GRANIN, E. F., and IZUBENKO, V. V. Effect of some fungicides in controlling tomato Phytophthora. (Rus) Khim. Sel'skom Khoz. 5(5): 27-31. Ref. May 1967. 385 K524
- 98423 GROSCLAUDE, C., and DETIENNE, G. The treatment of fruit tree pruning cuts. Trial of three fungicide paints. (Fr) France Min. Agr. Bull. Tech. Inform. 222:647-650. Ref. Sept. 1967. 14 F844B
- 98424 HARTMAIR, V., and HEPP, E. Observations on the occurrence of Alternaria on grapes. (Ge) Klosterneuburg. Hoheren Bundeslehr-Versuchsanst. Wein- Obstbau. Mitt. 16(1):1-5. Jan. 1966. 105.9 K696  
English summary.
- 98425 HEIDENREICH, E. Early defoliation in the case of an attack of blight. (Ge) Kartoffelbau 18(3): 88. Mar. 1967. 75.8 K145  
Fungus disease.
- 98426 HICKS, P. G. Resistance of Colocasia esculenta to leaf blight caused by Phytophthora colocasiae. Papua New Guinea Agr. J. 19(1):1-4. July 1967. 23 N453
- 98427 HILTY, J. W. Rhizoctonia [solani] disease of snap beans. Tenn. Farm Home Sci. Progr. Rep. 65:21-23. Jan./Mar. 1968. 100 T25F
- 98428 HOLMES, J., and RICH, A. E. The etiology and control of black rot [Phytophthora obtusa] of apple. Mass. Fruit Growers' Ass. Rep. 73:75-77. 1967. 81 M384  
In New Hampshire, with chemicals.
- 98429 HUNTER, J. Aerial application of fungicides. Hawaii. Univ. Ext. Misc. Publ. 49:3-6. Feb. 1968. S544.3 H3H3  
Papayas.
- 98430 INGRAM, D. S. The expression of R-gene resistance to Phytophthora infestans in tissue cultures of Solanum tuberosum. J. Gen. Microbiol. 49(1):99-108. Ref. Oct. 1967. 448.3 J823
- 98431 ISHIOKA, S., YOKOGI, K., and YAMAMOTOA, M. On a disease of grapes found at Yasugi City, Shimane Prefecture. (Ja) Shimane Agr. Coll. Bull. 15(A-1):35-38. Ref. Jan. 1967. S539.J3S5  
English summary.  
Pestalotia.
- 98432 JANEZIC, F. The susceptibility of potato varieties to the powdery scab Spongospora subterranea Wallr. John. (Se) Zastita Bilja 93/95:21-23. 93/95:21-23. 1967. 464.8 Z1  
English summary.
- 98433 KACARSKI, K. Black canker of apples. (Se) Sovremeno Zemjod. 14(2):12-14. Feb. 1967. S13.S6  
Caused by Physalospora cydoniae; includes chemical control.
- 98434 KASZONYI, S. Development cycle of Blumeriella jaapii (Rehm) v. Arx. infecting stone fruits in Europe and Hungary. (Hu) Kertesz. Szoleszeti Fiskola. Kiadv. 3(2):187-199. Ref. 1966. SB13.K4
- 98435 KERCHER, A. Plant protection measures in potatoes—particularly control of blight. (Ge) Kartoffelbau 18(3):80, 82. Mar. 1967. 75.8 K145  
Control of Phytophthora and also insects.
- 98436 KHANDOBINA, L. M., and KUZNETSOVA, T. A. Effect of thiram on respiration of carrot and its resistance to Phoma rostrupii. (Rus) Khim. Sel'skom Khoz. 6(2):23-26. Ref. 1968. 385 K524
- 98437 KOOISTRA, E. Mildew resistance in cucumbers and gherkins. (Du) Zaadbelangen 21(14):270-272. July 1967. 61.8 Z1  
Caused by Sphaerotheca fuliginea.
- 98438 KUNDERT, J. Blight of vine is actual again. (Ge) Schweiz. Z. Obst- Weinbau 103(19):580-583. Sept. 16, 1967. 80 Sch9  
Includes chemical control and Pseudopeziza tracheiphila causative agent.
- 98439 KYLE, J. H. Applications of soil fungicides to control Rhizoctonia solani on Irish potatoes. Tex. Agr. Exp. Sta. Progr. Rep. PR-2539, 9 p. May 15, 1968. 100 T31P
- 98440 LAUBER, H. P. Fungus injuries to grape cane. (Ge) Schweiz. Z. Obst- Weinbau 103(8):272-273. Apr. 15, 1967. 80 Sch9  
Botrytis cinerea.
- 98441 LAWES, G. S. A further look at neck rot in onions. New Zeal. J. Agr. 114(1):50-51. Jan. 1967. 23 N48J  
Botrytis allii control.
- 98442 LEFFRING, L. Effects of soil heating on Gerbera. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:72-73. 86 Aa4  
With reference to Phytophthora cryptogea infection and growth.
- 98443 LOGAN, C. The control of potato gangrene by tuber disinfection. Northern Ireland Rec. Agr. Res. 16(1):25-28. Aug. 1967. 10 N81R  
Phoma foveata controlled with MEMC.
- 98444 LUCIE, S. A contribution to the study of Alternaria tenuis Nees as agent of tomato leaf spots. (Se) Zastita Bilja 93/95:161-168. 1967. 464.8 Z1  
English summary.
- 98445 LUEPSCHEN, N. S., and ROHRBACH, K. G. The effect of surfactants on botran applications in controlling Rhizopus [stolonifer] decay of peaches. Colo. Agr. Exp. Sta. Colo. Progr. Rep. 68-3, 4 p. Apr. 1968. 100 C71C  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 98446 MAGIE, R. O. Fungicidal treatment of gladiolus corms after harvest and before planting. Fla. State Hort. Soc. Proc. 80:439-443. May 1, 1968. 81 F66
- 98447 MCCORNACK, A. A., and BROWN, G. E. Thiabendazole, an experimental fungicide for fresh citrus fruit. Fla. State Hort. Soc. Proc. 80:232-237. Ref. May 1, 1968. 81 F66
- 98448 MAHESWARI, R., HILDEBRANDT, A. C., and ALLEN, P. J. The cytology of infection structure development in urediospore germ tubes of Uromyces phaseoli var. typica (Pers.) Wint. Can. J. Bot. 45(4):447-450. Ref. Apr. 1967. 470 C16C  
Isolated from beans.
- 98449 MANCEV, J. Contribution of the industry of organic chemicals "Ohis" from Skopje to the improvement of Yugoslav viticulture. (Se) Sots. Zemjod. 18(7/8):53-62. 1966. 280.28 So7  
Tests with fungicides in the control of powdery mildew.
- 98450 MARTINOVIC, M. Gnomonia erythrostoma (Pers.) Auersw. on apricots (Prunus L.). (Se) Zastita Bilja 93/95:199-205. 1967. 464.8 Z1  
French summary.

- 98451 MATTA, A. Recording of *Cercospora unamui* (Unam.) E. Castel and its parasites on pepper grown in greenhouse. (It) Turin. Univ. Fac. Sci. Agr. Ann. 1:307-312. Ref. 1961-62, pub. 1966. S9.T8  
English summary.  
Partial control by the hyperparasite, *Botrytis yuae* on bush redpepper.
- 98452 MEREDITH, D. S., ARAGAKI, M., and HOLTZ-MANN, O. V. Deightonella torulosa on bananas in Hawaii. Plant Dis. Rep. 52(5):405. May 1968. 1.9 P69P
- 98453 MILLER, H. N., and NOEGEL, K. A. Phytophthora crown rot of petunia in Florida. Fla. State Hort. Soc. Proc. 80:449-451. May 1, 1968. 81 F66  
Phytophthora parasitica.
- 98454 MILLER, V. L., and GOULD, C. J. Fungicidal activity and phytotoxicity of certain mercurials used to control Fusarium basal rot of Narcissus bulbs. Phytopathology 57(7):777-781. Ref. July 1967. 464.8 P56  
Sodium ethylmercuricthiosalicylate, methylmercuric dicyandiamide, and PMA.
- 98455 MIRIC, M. Entyloma compositarum Farlow on Gaillardia pulchella, new for Yugoslavia. (Se) Zastita Bilja 93/95:189-192. 1967. 464.8 Z1  
English summary.
- 98456 MOHLEN, P. Rot in tulips. (Du) Neth. Provinc. Dir. Rijkslandbouwvoorlichting Friesland Voorlichting Onderz. 1966:88-91. SB183.N4A3  
Fungus disease caused by Fusarium oxysporum.
- 98457 MOORE, M. H., and BENNETT, M. A field comparison of fungicides as medium volume sprays on apples. East Malling Res. Sta. Annu. Rep., Apr. 1968. 151-157. 103 Ea7  
In the control of Venturia inaequalis and Podosphaera leucotricha.
- 98458 NANGNIOT, P., VERVIER, R., and MARTENS, P. H. Polarography applied to the quantitative analysis of fungicide or insecticide deposits or residues on cultivated plants. V. The determination of N, N-dimethyl-N'-phenyl (N'-fluorodichloromethylthio) sulfamide (Euparen) on fruits. (Fr) Bull. Rech. Agron. Gembloux 2(2):285-293. 1967. S5.B8  
Fungicide.
- 98459 NETZER, D., and DISHON, I. Selective media to distinguish between two Botrytis species on onion. Phytopathology 57(7):795-796. July 1967. 464.8 P56  
Botrytis cinerea and Botrytis allii.
- 98460 PARTYKA, R. E., and ALEXANDER, L. J. Preliminary study of the control of Rhizopus fruit rot of greenhouse tomatoes by the use of fungicides. Ohio. Agr. Res. Develop. Center. Res. Sum. 26:37-40. Apr. 1968. 100 Oh3Rs
- 98461 PARTYKA, R. E., and ALEXANDER, L. J. Preliminary survey to determine the severity of Rhizopus fruit rot on greenhouse tomatoes and factors contributing to its severity. Ohio. Agr. Res. Develop. Center. Res. Sum. 26:33-36. Apr. 1968. 100 Oh3Rs
- 98462 PAULUS, A. O., and others. Control of powdery mildew on cantaloupe. Calif. Agr. 21(3):12-13. Mar. 1967. 100 C12Cag  
F. Shibuya, T. W. Whitaker, B. J. Hall, G. W. Bohn, and T. M. Little, joint authors.  
Caused by Erysiphe cichoracearum.
- 98463 PAULUS, A. O., and others. Control of strawberry powdery mildew. Calif. Agr. 21(2):15-16. Feb. 1967. 100 C12Cag  
V. Voth, F. Shibuya, H. J. Bowen, A. H. Holland, and T. M. Little, joint authors.  
Caused by Sphaerotheca humuli.
- 98464 PEPIN, H. S. Susceptibility of members of the Rosaceae to races of Phytophthora fragariae. Phytopathology 57(7):782-784. July 1967. 464.8 P56
- 98465 POLYAKOV, I. M., and VLADIMIRSKAYA, M. E. Effectiveness of Zineb and nitrobenzene derivatives against clubroot of cabbage. (Rus) Khim. Sel'skom Khoz. 7:28-30. Ref. July 1966. 385 K524
- 98466 PORTER, D. M., and AYCOCK, R. Snapdragon leafspot caused by Cercospora antirrhina. N. C. Agr. Exp. Sta. Tech. Bull. 179, 31 p. Ref. Dec. 1967. 100 N81
- 98467 PRPIC, Z. A contribution to the study of dominant biotypes of Phytophthora infestans on potatoes. (Se) Zastita Bilja 93/95:101-114. Ref. 1967. 464.8 Z1  
English summary.
- 98468 RADMAN, L. Monilia laxa (Ehrenb.) Aderh. and Rubl. as an important cause of low yields in some plum varieties. (Se) Zastita Bilja 93/95:85-92. 1967. 464.8 Z1  
English summary.
- 98469 RAGGI, V. Changes in peach trees (cv. Red Haven) attacked by Taphrina deformans, with particular reference to nitrogen metabolism in infected and non-infected leaves. Can. J. Bot. 45(4):459-477. Ref. Apr. 1967. 470 C16C
- 98470 RENAUD, R. Moniliosis of plums; biology and methods of control. (Fr) Rev. Zool. Agr. Appl. 66(4/6):58-64. Second Q. 1967. 410.9 Sol2  
Chemical control of agents Monilinia cinerea and M. fructigena.
- 98471 RIBAUT, G. Silver leaf of fruit trees in the orchards of the Loire Valley. (Fr) Congr. Pomol. [Compt. Rend.] 97:159-168. Oct. 6, 7, 8, 1966. 93.09 C7643  
Stereum purpureum.  
Discussion, p. 164-168.
- 98472 SCHAAF, A. VAN DER, and ROELEVINK, Y. Combating scab through overhead irrigation. (Du) Neth. Dir. Landbouw Verslag Landbouwkundig Onderz. Noordelijk-Groningen. 1967:35-41. 12 N38Vg  
On potatoes in the Netherlands.
- 98473 SCHMIDLE, A. Intergrafting, a prevention measure against collar rot [Phytophthora cactorum] on apples. (Ge) Nachrichtenbl. Deut. Pflanzenschutzdienstes 20(2):22-24. Ref. Feb. 1968. 442.9 B832  
English summary.
- 98474 SCHNEIDER, R., and PLATE, H. P. Fusarium bulb rot in Nerine bowdenii. (Ge) Gesunde Pflanzen 19(9):197-199. Sept. 1967. 464.8 G33  
F. moniliforme subglutinans.
- 98475 SCHOLTEN, G. Fusarium diseases of Freesia. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:69-71. 86 Aa4
- 98476 SCHOLTEN, G. Root rot of Cyclamen. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:61-62. 86 Aa4  
Tuzet and Zineb for the control of Nectria and Thielaviopsis.
- 98477 SCHOLTEN, G. Vascular disease of carnations. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:32-34. 86 Aa4  
Control of Phialophora, Fusarium oxysporum, and F. redolens on carnations.
- 98478 SCHOLTEN, G. Wilt disease of Gerbera. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:74-75. 86 Aa4  
Caused by Phytophthora cryptogea.
- 98479 SHALABY, G. I., and STRUCKMEYER, B. E. The mode of entrance of the Fusarium rot fungus into the bulbs of onions. Amer. Soc. Hort. Sci. Proc. 89:438-442. Dec. 1966. 81 Sol2
- 98480 SHARVELLE, E. G. Compatibility of turfgrass fungicides and insecticides. Tex. Turfgrass Conf. Proc. 22:72-80. Dec. 1967. 60.19 T31
- 98481 SHAWA, A. Y., DOUGHTY, C. C., and JOHNSON, F. Effect of fungicides on McFarlin cranberry pollen germination and fruit set. Amer. Soc. Hort. Sci. Proc. 89:255-258. Dec. 1966. 81 Sol2
- 98482 SHORT, J. L. Ways to beat blight. Arable Farmer 1(8):32-33, 35. June 1967. S3.A7  
Potato.
- 98483 SINGH, S., and others. Anthracnose disease of cashew (Anacardium occidentale Linn.)—its cause, epidemiology and control. Indian Forest 93(6):374-376. June 1967. 99.8 In2  
H. S. Sehgal, P. C. Pandey, and B. K. Bakshi, joint authors.  
Colletotrichum gloeosporioides as causal agent.



- 98484 SONGIN, W. Simplified method of the potato seed tuber disinfection against black scurf (*Rhizoctonia solani* Kuehn). (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:100-102. 1966, pub. 1967. 20.5 St4  
English summary.
- 98485 STROBEL, J. W. Superior new strawberry clones resist *Verticillium* wilt. Fla. State Hort. Soc. Proc. 80:138-143. Ref. May 1, 1968. 81 F66  
*Verticillium albo-atrum*.
- 98486 STROBEL, J. W., and others. Tropi-Red and Tropi-Gro - new disease resistant tomatoes for the fresh market. Fla. State Hort. Soc. Proc. 80:112-114. May 1, 1968. 81 F66  
J. M. Walter, N. C. Hayslip, and P. H. Everett, joint authors.  
*Verticillium albo-atrum*, *Fusarium oxysporum*, *Stemphylium solani*.
- 98487 SZKOLNIK, M. Flying on orchard fungicides. Agrichem. West 10(7):11-12. July 1967. 381 Ag85  
Apples in New York state.
- 98488 SZKOLNIK, M. Fungicides, equipment, and programs in fruit disease control research. N. Y. State Hort. Soc. Proc. 113:234-244. 1968. 81 N484
- 98489 TEMP, M. V., and HAGEDORN, D. J. Influence of cropping practices on *Aphanomyces* [euteiches] root rot potential of Wisconsin pea fields. Phytopathology 57(7):667-670. July 1967. 464.8 P56
- 98490 TERUI, M., and HARADA, Y. Cultural studies on the *Monilia* disease fungus of apples. 4. Apothecial production of peptone-saccharose agar medium. (Ja) Hirotsuki Univ. Fac. Agr. Bull. 13:1-6. Mar. 1967. 22.5 H613  
English summary.
- 98491 THOMAS, M. Diseases of stone fruits—silver leaf, wood rot, coral fungus and heart rot [*Stereum purpureum*, *Polystictus versicolor*, *P. cinnabarinus* and *Schizophyllum commune*]. S. Australia J. Agr. 71(4):126-128. Nov. 1967. 23 So84  
Apricots and peaches.
- 98492 VAARTAJA, O., and AGNIHOTRI, V. P. Inhibition of *Pythium* [ultimum] and *Thanatephorus* (*Rhizoctonia*) [praticola] by leachates from a nursery soil. Phytopathol. Z. 60(1):63-72. Ref. Sept. 1967. 464.8 P562  
Fruit nurseries.
- 98493 VARAS, J., and TAZAN, L. Propagation project of varieties resistant to banana wilt and appropriate areas for their cultivation. (Sp) Rev. Ecuador. Banano 3(1/2):7-9, 40. 1966. 80 R3213  
Ecuador.
- 98494 VITANOV, M. A method of ascertaining potential infection in stromata of *Polystigma rubrum* (Pers.) D. C. on plum tree. (Bu) Gradinar. Lozar. Nauk. 4(7):33-35. 1967. 87 G75  
English summary.
- 98495 VITANOV, M. Studies on the susceptibility of 148 apple varieties to *Venturia inaequalis* (Cooke) Aderh. (Bu) Gradinar. Lozar. Nauk. 4(6):23-32. Ref. 1967. 87 G75  
English summary.
- 98496 VOJVODIC, D., and RADOVIC, V. Study of the effectiveness of some fungicides in the control of *Mycosphaerella sentina* (Fck.) Schroet. as the agent of leaf spots of pears. (Se) Zastita Bilja 93/95:269-274. 1967. 464.8 Z1  
English summary.
- 98497 WAHL, I., LEV, L., and SZTEJNBORG, A. Effect of sowing healthy tubers on potato late blight incidence. In Avidov, Z., ed. Studies in agricultural entomology and plant pathology, p. 171-208. Ref. 1966. SB605.I78A8
- 98498 WARHURST, J. Towards systemised blight spraying. Seed Potato 7(1):23-24. Spring 1967. 75.8 Se3
- 98499 WEHLBURG, C., and MARTINEZ, A. P. Leaf spot of *Dracaena marginata* Lam. caused by *Fusarium moniliforme* Sheld. and its control. Fla. State Hort. Soc. Proc. 80:454-456. May 1, 1968. 81 F66
- 98500 WENZL, H. Die Kraut- und Knollenfaule der Kartoffeln [Potato blight]. Vienna. Bundesanst. Pflanzenschutz. Flugbl. 57, 2 p. 1967. 464.9 V672F  
Caused by *Phytophthora infestans*.
- 98501 WENZL, H. Histological studies on the infection of potato stems by *Phytophthora infestans*. (Ge) Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz 74(9):533-539. Sept. 1967. 464.8 Z3  
English summary.
- 98502 WILLER, K. H. Is there a connection between *Botrytis* infections and the early falling of black currant fruits? (Ge) Gesunde Pflanzen 19(9):188-192. Ref. Sept. 1967. 464.8 G33  
*B. cinerea*.
- 98503 WILLIAMS, P. H., and YUKAWA, Y. B. Ultrastructural studies on the host-parasite relations of *Plasmodiophora brassicae*. Phytopathology 57(7):682-687. Ref. July 1967. 464.8 P56  
Cabbage.
- 98504 WILSON, K. I., and JOSE, P. C. Leaf blight of *Plumeria acutifolia* Poir. Indian Phytopathol. 19(4):389. Dec. 1966. 464.8 In2  
Caused by *Colletotrichum gloeosporioides*.
- 98505 WITTMANN, W. Der Grauschimmel im Gartenbau (*Botrytis cinerea* Pers.) [Blue mold in horticulture (*Botrytis cinerea* Pers.)]. Vienna. Bundesanst. Pflanzenschutz. Flugbl. 6, 1 p. 1967. 464.9 V672F
- 98506 YAMAMOTO, M. On the ATPase activity of potatoes when invaded by *Phytophthora infestans* in relation to hypersensitivity. (Ja) Shimane Agr. Coll. Bull. 15(A-1):32-34. Ref. Jan. 1967. S539.J3S5  
English summary.

## Fungus Diseases - Forest Trees

- 98507 ANDERSON, N. A., FRENCH, D. W., and ANDERSON, R. L. The stactiform rust on Jack pine [*Pinus banksiana*]. J. Forest. 65(6):398-402. Ref. June 1967. 99.8 F768  
*Peridermium stactiforme* and *P. harknessii*.
- 98508 BAKSHI, B. K., and SINGH, S. Rusts on Indian forest trees. Indian Forest Res. N. S. Forest Pathol. 2(8):i-v, 139-204. Ref., p. 139-204. 1967. 464.8 In22
- 98509 BERRY, F. H. Diseases. Walnut Workshop. Papers 1966:88-90. aSD397.W3W3  
Control of fungus and virus diseases of this forest species.
- 98510 BOYER, M. G. The relation of growth regulators to the development of symptoms and the expression of stem resistance in white pine [*Pinus strobus*] infected with blister rust [*Cronartium ribicola*]. Can. J. Bot. 45(4):501-513. Ref. Apr. 1967. 470 C16C
- 98511 CHIBA, O., and ZINNO, Y. Studies on *Lophodermium* needle cast of pines. (Ja) Jap. Forest Exp. Sta. Bull. 201:175-197. Ref. Mar. 1967. 99.8 R47  
English summary.  
Caused by *Lophodermium pinastri*.
- 98512 FRENCH, D. W., LOFGREN, J. A., and HODSON, A. C. The Dutch elm disease. Minn. Univ. Ext. Folder 211, rev., 8 p.-folder. 1968. 275.29 M66Ex  
*Ceratocystis ulmi*.
- 98513 GRISYUK, N. M., and BULGAKOVA, T. E. Resistance of poplars to rust. (Rus) Les. Khoz. 2:64-66. Feb. 1967. 99.8 L5622  
Resistant varieties and hybrids.
- 98514 HOCKING, D., and JAFFER, A. A. Field observations on root rot [*Helicobasidium concompactum*] of teak [*Tectona grandis*] in Tanzania. FAO Plant Protect. Bull. 15(1):10-14. Feb. 1967. 421 P692
- 98515 JEWELL, F. F., and WALKER, N. M. Histology of *Cronartium quercuum* galls on shortleaf pine [*Pinus echinata*]. Phytopathology 57(6):545-550. Ref. June 1967. 464.8 P56

- 98516 KARDELL, L. Some observations on rust of Scotch pine in inland Vasterbotten. (Sw) Sveriges Skogsvardsforb. Tidskr. 64(7):649-663. Ref. Nov.1966. SD1.S952  
German summary.  
Caused by *Melampsora pinitorqua*.
- 98517 LANIER, L., and DELATOUR, C. Study of the pathogenic power of *Caliciopsis pinea* Peck on the maritime pine of Landes. (Fr) Rev. Forest. Franc. 5:332-337. May 1967. 99.8 R329
- 98518 MAGNANI, G. Leaf spots of *Salix*. (It) Cell. Carta 19(1):25-28. Jan.1968. 302.9 En8  
English summary.  
*Marssonina kriegegeriana* and *M. salicicola* suspected.
- 98519 MARAITE, H., and MEYER, J. A. The incidence of some factors of the environment on red rot of spruce. (Fr) Soc. Roy. Forest. Belg. Bull. 73(12):493-509. Ref. Dec.1966. 99.9 B83  
- *Fomes annosus* as causal organism.
- 98520 MOLOTKOV, P. I. Resistance of beech trees to several fungus diseases. (Rus) Lesovod. Agrolesomelior. 12:111-115. 1967. SD1.L44
- 98521 OHMAN, J. H. Decay and discoloration of sugar maple. U. S. Forest Serv. Forest Pest Leaflet 110, 8 p. 1968. A423.9 F764  
Bibliography, p.6.  
Fungus disease.
- 98522 PAETZOLDT, M. The protection of pine needles. (Ge) Gesunde Pflanzen 19(6):121-123. June 1967. 464.8 G33  
Control of fungus diseases caused by *Rhizosphaera kalkhoffii*, *Lophodermium macrosporum* and *Lophodermium picea*.
- 98523 PARMETER, J. R., and NEWHOOK, F. J. New Zealand *Pinus radiata* is susceptible to western gall rust disease. New Zeal. J. Forest. 12(2):200-201. 1967. 99.8 C162
- 98524 SASEK, V. The protective effect of mycorrhizal fungi on the host plant. Int. Union Forest. Res. Organ. Papers, 14th Congr., v.5:182-190. Ref. 1967. 99.9 In82  
Studied on pine seedlings infected artificially by parasitic fungi.
- 98525 TSYPLAKOVA, O. D. Diseases of poplar leaves. (Rus) Les. Khoz. 2:66-69. Feb.1967. 99.8 L5622  
Caused by *Melampsora alii-populina*, *M. larici-populina* and *Septoria populi*.
- 98526 TSYPLAKOVA, O. D. On the interrelation between phytoncide properties of poplars and their resistance to cytosporosis. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 5:139-141. 1967. 442.8 N22
- 98527 VAARTAJA, O. Damping-off pathogens in south Australian nurseries. Phytopathology 57(7):765-768. Ref. July 1967. 464.8 P56  
Pathogenic fungi isolated from seedlings of *Pinus* species.
- 98528 VASILYUSKAS, A. P. Root fungus in spruce stands of Lithuanian SSR. (Rus) Les. Khoz. 1:59. Jan.1967. 99.8 L5622  
Includes control.
- 98529 VENN, K. An experiment with spraying of spruce plants against cold storage fungi fungus. (No) Norsk Skogbruk 13(21):553,559-560. Nov. 1967. 99.8 N815
- 98530 WAGN, O. Roat rot [*Fomes annosus*] attack in windbreaks. (Da) Landbonyt 22(2):61-63. Feb. 1968. 11 L2322
- 98531 WILSON, K. I., and DEVI, L. R. *Corynespora* leaf spot of *Eucalyptus grandis* (Hill) Maiden. Indian Phytopathol. 19(4):393-394. Dec.1966. 464.8 In2  
Caused by *Corynespora cassiicola*.
- 98532 YAKOVLEV, V. G. Low volume spraying for control of snow blight [*Phacidium infestans*] of pines. (Rus) Les. Khoz. 1:58-59. Jan.1967. 99.8 L5622
- 
- Nematodes
- 98533 DIAZ-SILVEIRA, M. F. List of nematodes of Cuba. (Sp) Rev. Agr. [Havana] 1(2):74-88. May/Aug.1967. S15.R4  
Of plants.
- 98534 CROFTON, H. D. Nematodes. London, Hutchinson, 1966. 160 p. QL391.N4C7  
Includes plant and animal parasites.
- 98535 KUHN, H., and FRANK, C. Plant nematodes. (Sp) Rev. Agr. [Havana] 1(2):67-73. May/Aug. 1967. S15.R4
- 98536 PARK, J. S., HAN, S. C., and HAN, C. L. Survey on the plant parasitic nematodes in Korea. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(3):71-80. Ref. Sept. 1967. 22.5 K843  
English summary.
- 98537 SUTHERLAND, J. R., and FORTIN, J. A. Effect of the nematode *Aphelenchus avenae* on some ectotrophic, mycorrhizal fungi and on a red pine mycorrhizal relationship. Phytopathology 58(4):519-523. Ref. Apr.1968. 464.8 P56
- 98538 SYMPOSIUM ON POPULATION DYNAMICS OF PLANT-PARASITIC NEMATODES. Invitational papers presented at the fifty-eighth annual meeting of the American Phytopathological Society, Denver, Colorado, 20-24 August 1966. Phytopathology 57(7):650-655. Ref. July 1967. 464.8 P56  
Influence of nematocidal treatments on nematode populations, by M. B. Harrison; Influence of host physiology on nematode populations, by L. R. Krusberg.
- 98539 THIRUGANAM, M., and RANGASWAMI, G. A report on the natural occurrence of root-knot nematodes (*Meloidogyne* spp.) on some plants in Madras State. Madras Agr. J. 54(6):278-282. June 1967. 22 M262
- 98540 TREML, A. G., SKLYAREVSKII, M. A., and SHARUDA, E. V. Contribution to the primary tests of soil nematocides. (Rus) Khim. Sel'skom Khoz. 5(5):22-25. May 1967. 385 K524
- 98541 VAN GUNDY, S. D., BIRD, A. F., and WALLACE, H. R. Aging and starvation in larvae of *Meloidogyne javanica* and *Tylenchulus semipenetrans*. Phytopathology 57(6):559-571. Ref. June 1967. 464.8 P56
- Nematodes - Field Crops
- 98542 BAGOYO, A. C., and others. Preliminary study on the interaction of tobacco root knot nematode with some fungi. Philippine Tobacco Rev. 4(2):11-12,15. Apr./June 1967. 286.89 P53  
B. A. Estrada, H. R. Pascua, and E. A. Hurtado, joint authors.
- 98543 CARPENTER, A. J., ALEXANDER, J. V., and CRAUFURD, R. Q. The distribution and effect on rice yields of *Aphelenchoides besseyi* Christie (1942) in Sierra Leone. Int. Rice Comm. News Lett. 16(3):1-5. Sept.1967. 59.9 In83N
- 98544 FRITZSCHE, R. Studies of the range of host plants and the dynamics of population of nematode *Ditylenchus dipsaci* Kuhn originating from onions. (Ge) Arch. Pflanzenschutz 3(1):11-25. Ref. 1967. 464.8 Ar2  
English summary.  
Chiefly on field crops.
- 98545 FUKANO, H., YOKOYAMA, S., and YOSHIDA, K. On the seed disinfection method by REE-emulsion [ethyl cyanatoacetate] to prevent the rice white-tip. 12 p. Transl. 16859  
Nematode control.  
Translation from Fukuoka Prefectural Experimental Farm. Report 2:42-47. Mar.1964.
- 98546 GRUJICIC, G. The root nematode *Meloidogyne naasi* Franklin in Serbia; preliminary report. (Se) Zastita Bilja 93/95:193-197. 1967. 464.8 Z1  
English summary.  
Sugar beets, wheat and barley.



- 98547 HUNG, Y. P. The white tip nematode of rice. (Ch) Taiwan Agr. Quart. 3(2):123-127. Ref. June 1967. S19.T3  
Aphelenchoides besseyi.
- 98548 KLINDIC, O. Study of the nematode genus *Pratylenchus* as agents of root spots. (Se) Zastita Bilja 93/95:133-142. 1967. 464.8 Z1  
English summary.  
Wheat and barley.
- 98549 MULLIN, R. S., and WHITTY, E. B. The soybean cyst nematode [*Heterodera glycines*] in Florida. Fla. Univ. Ext. Circ. 324, 6 p.-folder. Jan. 1968. 275.29 F66C  
Control.
- 98550 PERRY, V. G., and WOODS, C. T. Research aimed at control of soybean cyst nematode [*Heterodera glycines*]. Sunshine State Agr. Res. Rep. [Fla. Sta.] 13(2):8-9. Mar. 1968. 100 F66Su
- 98551 STOYANOV, D. Results from investigations on determination of cyst-forming nematodes in Bulgaria. 1. Sugar beet nematode (*Heterodera schachtii* Schmidt, 1871). (Bu) Rastenievudni Nauk. 4(10):111-118. Ref. 1967. 64.8 R18  
English summary.
- 98552 WEBBER, A. J., and BARKER, K. R. Biology of the pseudo root knot nematode *Hypoperine ottersoni*. Phytopathology 57(7):723-728. Ref. July 1967. 464.8 P56  
*Phalaris arundinacea* and *Hordeum vulgare* hosts.

## Nematodes - Horticultural Crops

- 98553 DAVIDE, R. G. Pathogenicity and development of root-knot nematodes on Ampalaya [*Momordica charantia*]. Philippine Agr. 50(8):795-803. Jan. 1967. 25 P542
- 98554 DROPKIN, V. H., and WEBB, R. E. Resistance of axenic tomato seedlings to *Meloidogyne incognita acrita* and to *M. hapla*. Phytopathology 57(6):584-587. Ref. June 1967. 464.8 P56
- 98555 DUCHARME, E. P., and SUIT, R. F. Population fluctuations of burrowing nematodes in Florida citrus groves. Fla. State Hort. Soc. Proc. 80:63-67. May 1, 1968. 81 F66  
*Radopholus similis*.
- 98556 FORD, H. W. Burrowing nematode resistant rootstocks as biological barriers in citrus groves. Fla. State Hort. Soc. Proc. 80:56-59. May 1, 1968. 81 F66  
*Radopholus similis*.
- 98557 KANNAN, S. Activity of dehydrogenases in tomato root-knots infected with the root-knot nematode [*Meloidogyne incognita*]. Indian J. Exp. Biol. 5(4):266. Oct. 1967. 442.8 In2
- 98558 KAUFHOLD, W. Control of parasitic nematodes in the grape nursery. (Ge) Weinberg Keller 13(12):548-552. Dec. 1966. 95.8 W435  
Chiefly *Longidorus maximus*.
- 98559 KRNJAJIC, D. *Discocriconebella yossifovichii* n. sp. (Nematoda, Criconeematidae) on grapes in Yugoslavia. (Se) Zastita Bilja 93/95:155-160. Ref. 1967. 464.8 Z1  
English summary.
- 98560 LUFT, C. New gain in nematode control. Down Earth 23(2):28-29. Fall 1967. 381 D75  
Soil fumigation for *Heterodera schachtii* on sugar beets.
- 98561 MADAMBA, C. P., and others. Yield responses of some vegetable and field crops to soil fumigation for the control of plant parasitic nematodes. Philippine Agr. 50(8):804-816. Ref. Jan. 1967. 25 P542  
C. G. Goseco, J. R. Deanon, and G. B. Bantoc, joint authors.
- 98562 OVERMAN, A. J. Effects of organophosphates on *Gladiolus* infested with root-knot nematodes. Fla. State Hort. Soc. Proc. 80:462-465. May 1, 1968. 81 F66
- 98563 RHOADES, H. L., and BEEMAN, J. F. Efficacy of some experimental nematocides applied in-the-row on vegetables. Fla. State Hort. Soc. Proc. 80:156-161. May 1, 1968. 81 F66
- 98564 SCHOEMAKER, R. L. P. W., and LEDGER, M. A. The "black rot" condition in *Pyrethrum* in Tanzania-nematological investigations. East Afr. Agr. Forest. J. 33(1):35-36. July 1967. 24 Ea74  
*Aphelenchoides ritzema-bosi* on *Pyrethrum* and *Chrysanthemum*.
- 98565 SHARPE, R. H., and PERRY, V. G. Root-knot nematode populations on peaches in Florida. Fla. State Hort. Soc. Proc. 80:342-344. May 1, 1968. 81 F66  
*Meloidogyne javanica* and *M. incognita*.
- 98566 STOKES, D. E. *Meloidogyne javanica* parasitism to *Viola lanceolata*. Fla. State Hort. Soc. Proc. 80:457-459. Ref. May 1, 1968. 81 F66
- 98567 TROLL, J., and ROHDE, R. A. Nematocide tests on established lawn turf. Turf Bull. 4(3):18. Feb. 1967. 60.18 T846
- 98568 WINCHESTER, J. A. Nematode control for ornamental foliage plants. Fla. State Hort. Soc. Proc. 80:451-454. May 1, 1968. 81 F66  
*Meloidogyne incognita*.
- 98569 YOUNGSON, C. R., GORING, C. A. L., and NOVEROSKE, R. I. Laboratory and greenhouse studies on the application of fumazone in water soil for control of nematodes. Down Earth 23(1):27-32. Ref. Summer 1967. 381 D75  
*Meloidogyne incognita acrita*.

## Virus Diseases

- 98570 ABU SALIH, H. S., MURANT, A. F., and DAFT, M. J. Comparison of the passive haemagglutination and bentonite flocculation tests for serological work with plant viruses. J. Gen. Virol. 2, pt. 1:155-166. Ref. Jan. 1968. QR360.A1J6
- 98571 BELLETT, A. J. D. Preliminary classification of viruses based on quantitative comparisons of viral nucleic acids. J. Virol. 1(2):245-259. Ref. Apr. 1967. QR360.J6  
Plant and animal viruses.
- 98572 BOIKO, A. L. Most widespread viral diseases of hop. (Uk) Mikrobiol. Zhur. 29(3):272-276. 1967. 448.3 K54  
Review of the literature.
- 98573 D'YAKOV, YU. T. Contribution of Soviet scientists to the study of plant viruses. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk 2:7-12. 1967. 442.8 N22
- 98574 HIRUMI, H., GRANADOS, R. R., and MARAMO-ROSCH, K. Electron microscopy of a plant-pathogenic virus in the nervous system of its insect vector. J. Virol. 1(2):430-444. Ref. Apr. 1967. QR360.J6  
Wound tumor virus in *Agallia constricta*.
- 98575 LOVISOLO, O. Virus diseases of wild plants. III. Recording of new natural hosts and biological observations on a strain of lucerne mosaic virus (LMV) of the "calico potato" type. (It) Turin. Univ. Fac. Sci. Agr. Ann. 1:463-512. Ref. 1961-62, pub. 1966. S9.T8  
English summary.  
Includes cultivated plants.
- 98576 LUFTIG, R., and HASELKORN, R. Morphology of a virus of blue-green algae and properties of its deoxyribonucleic acid. J. Virol. 1(2):344-361. Ref. Apr. 1967. QR360.J6
- 98577 MCCARTHY, D., and WOODS, R. D. Electron microscopic observation on dolichos enation mosaic virus. J. Gen. Virol. 2, pt. 1:9-12. Jan. 1968. QR360.A1J6
- 98578 MOSKOVETS, S. M. Investigation of phyto-pathogenic viruses in the Ukraine. (Uk) Mikrobiol. Zhur. 29(5):413-422. 1967. 448.3 K54
- 98579 TAHAMA, Y. Studies on the dwarf disease of the mulberry tree. XVIII. An experiment on the protection of mulberry trees from the infection of the disease by means of spraying insecticides from a helicopter to kill the insect vector. (Ja) J. Sericult. Sci. Jap. 37(1):57-62. Ref. Feb. 1968. 425.9 Se6  
English summary.

- 98580 VIRUSNYE bolezni sel'skokhozyaistvennykh rastenii i mery bor'by s nimi [Virus diseases of cultivated plants and methods of their control]. Vses. Soveshch. Virus. Bolez. Rast. Tr. 5,484 p. 1966. SB736.V75  
Field crops, vegetables, and fruit.
- 98581 VOGEL, R., and BOVE, J. M. Activities of the Corsican Citrus Research Station [Station de Recherches Agricoles de Corse (I.N.R.A.-I.F.A.C.)] in connection with the introduction and distribution of virus-free citrus grafts. (Fr) Fruits 22(6):269-271. June 1967. 80 F9492  
English summary.
- 98582 WETTER, C., and PAUL, H. L. Serological and physical properties of Sammon' Opuntia virus. (Ge) Phytopathol. Z. 60(1):92-95. Sept. 1967. 464.8 P562  
Cultured on Chenopodium quinoa.
- Virus Diseases - Field Crops
- 98583 BENNETT, C. W., and others. Yellow wilt of sugar beet. Amer. Soc. Sugar Beet Technol. J. 19(6):480-510. July 1967. 66.9 Am35J  
F. J. Hills, R. Ehrenfeld K., J. Valenzuela B. and C. Klien K., joint authors.  
Virus disease.
- 98584 BOOTHROYD, C. W., and RISIUS, M. L. New York greenhouse and field observations for maize dwarf mosaic. U. S. Agr. Res. Serv. ARS-33-118:53-54. Mar. 1968. A420 R31  
Resistance.
- 98585 CALVERT, O. H. Nonseed transmission of maize dwarf mosaic virus from infected johnsongrass [Sorghum halepense] plants. U. S. Agr. Res. Serv. ARS-33-118:48-49. Mar. 1968. A420 R31  
Missouri.
- 98586 CORN (maize) viruses in the continental United States and Canada, by W. N. Stoner. U. S. Agr. Res. Serv. ARS-33-118:95 p. Mar. 1968. A420 R31
- 98587 DALE, J. L. Summary of corn virus research in Arkansas. U. S. Agr. Res. Serv. ARS-33-118:18-19. Mar. 1968. A420 R31  
Dwarf mosaic.
- 98588 ELLINGBOE, A. H., SMITH, N. A., and CLAYTON, J. L. Virus diseases of corn in Michigan (1963-1965). U. S. Agr. Res. Serv. ARS-33-118:43-44. Mar. 1968. A420 R31
- 98589 FAIRCHILD, M. L., and CHANDLER, J. H. Distribution of corn virus diseases in Missouri. U. S. Agr. Res. Serv. ARS-33-118:47-48. Mar. 1968. A420 R31
- 98590 FIFE, J. M. Changes in concentration of three amino acids, in mature leaves of sugar beet plants, produced by mass selection from a population infected with beet yellows. Amer. Soc. Sugar Beet Technol. J. 14(4):334-340. Jan. 1967. 66.9 Am35J  
Aspartic and glutamic acids and glutamine.
- 98591 FINKNER, R. E., and YODER, J. P. Observations and correlations on the detrimental effects of savory and yellow vein viruses on sugar beets. Amer. Soc. Sugar Beet Technol. J. 14(4):278-282. Jan. 1967. 66.9 Am35J
- 98592 FRAENKEL-CONRAT, H., and SHERWOOD, M. Reactivity of the tyrosine residues of tobacco mosaic virus protein with iodine. Arch. Biochem. Biophys. 120(3):571-577. Ref. June 1967. 381 Ar2
- 98593 FROST, R. R., HARRISON, B. D., and WOODS, R. D. Apparent symbiotic interaction between particles of tobacco rattle virus. J. Gen. Virol. 1(1):57-70. Ref. Jan. 1967. QR360.A1J6
- 98594 FULTON, J. P. Dual transmission of tobacco ringspot virus and tomato ringspot virus by Xiphinema americanum. Phytopathology 57(6):535-537. Ref. June 1967. 464.8 P56
- 98595 GILL, C. C. Transmission of barley yellow dwarf virus isolates from Manitoba by five species of aphids. Phytopathology 57(7):713-718. Ref. July 1967. 464.8 P56
- 98596 GONDRAN, J. Importance of Euscelis plebejus Fall. and variations of the virus symptoms transmitted by this insect to the white clover. (Fr) Ann. Epiphyt. 18(1):75-83. 1967. 464.9 F84An  
English summary.
- 98597 GUDAUSKAS, R. T., and GATES, D. W. Distribution and some properties of a sap-transmissible virus isolated from corn in Alabama. U. S. Agr. Res. Serv. ARS-33-118:11-19, map. Ref. Mar. 1968. A420 R31
- 98598 HARPAZ, I., and KLEIN, M. Chemical changes induced in maize plants by the maize rough dwarf virus (MRDV). In Avidov, Z., ed. Studies in agricultural entomology and plant pathology, p.127-142. Ref. 1966. SB605.I78A8
- 98599 HEBERT, T. T. Corn viruses in North Carolina in 1965. U. S. Agr. Res. Serv. ARS-33-118:54. Mar. 1968. A420 R31  
Dwarf mosaic and stunt.
- 98600 HECKER, J. R. Effect of virus yellows on guard cell chloroplasts in sugar beets. Amer. Soc. Sugar Beet Technol. J. 14(4):292-296. Jan. 1967. 66.9 Am35J
- 98601 HEROLD, F., and MUNZ, K. Morphological studies of maize mosaic virus. I. J. Gen. Virol. 1(2):227-234. Ref. Apr. 1967. QR360.A1J6
- 98602 HIRAI, A., and WILDMAN, S. G. Intracellular site of assembly of TMV-RNA and protein. Virology 33(3):467-473. Ref. Nov. 1967. 448.8 V81
- 98603 HOLDEMAN, Q. L. The corn virus situation in California. U. S. Agr. Res. Serv. ARS-33-118:19-27, map. Ref. Mar. 1968. A420 R31  
Chiefly sugarcane mosaic.
- 98604 HORVATH, J. Susceptibility and hypersensitivity of tobacco mosaic virus in wild species of potatoes. Acta Phytopathol. 3(1):35-43. 1968. SB731.A3
- 98605 JONES, B. Regarding "beet yellows." Holly Agr. News 16(1):20-21. Spring 1968. 66.8 H72  
Sugar beets.
- 98606 JOSEPHSON, L. M., and HILTY, J. W. Corn virus disease in Tennessee in 1965. U. S. Agr. Res. Serv. ARS-33-118:66-72. Mar. 1968. A420 R31  
Resistant hybrids.
- 98607 KLESSER, P. J. Mwitunde groundnuts and their reaction to virus infection in South Africa. S. Afr. J. Agr. Sci. 10(3):675-686. Sept. 1967. 24 Su3  
Resistance.
- 98608 KLISIEWICZ, J. M. Inheritance of reactions in safflower to lettuce mosaic virus. Phytopathology 57(7):789-790. July 1967. 464.8 P56
- 98609 KOUSALYA, G., BHASKARAN, S., and KRISHNAMURTHY, C. S. Assessment of crop losses caused by rosette disease of groundnut. Indian J. Agr. Sci. 37(5):356-361. Ref. Oct. 1967. 22 Ag831
- 98610 KOZELNICKY, G. M. The corn virus situation in Georgia in 1965. U. S. Agr. Res. Serv. ARS-33-118:28-30. Mar. 1968. A420 R31
- 98611 KULPS, G. Study on the protective effects of oil in the transmission of virus by aphids [Myzus persicae]. (Ge) Z. Pflanzenkr. (Pflanzenpathol.) Pflanzenschutz 75(4):213-217. Ref. Apr. 1968. 464.8 Z3  
English summary.  
Tested with sugar beets.
- 98612 LISTER, R. M. Functional relationships between virus-specific products of infection by viruses of the tobacco rattle type. J. Gen. Virol. 2, pt. 1:43-58. Ref. Jan. 1968. QR360.A1J6
- 98613 MANWILLER, A., KINGSLAND, G. C., and ESKEW, E. B. Corn virus summary, South Carolina, 1965. U. S. Agr. Res. Serv. ARS-33-118:60-64. Mar. 1968. A420 R31  
Resistant hybrids.
- 98614 MAYO, M. A., and COCKING, E. C. Labelling of tobacco mosaic virus with <sup>125</sup>I. J. Gen. Virol. 2, pt. 1:89-97. Ref. Jan. 1968. QR360.A1J6



- 98615 MCLAREN, G. D. Infectivity changes in preparations from plants infected with tobacco mosaic virus. *J. Gen. Virol.* 1(2):243-245. Apr. 1967. QR360.A1J6
- 98616 NAGEL, C. M., ORLOB, G. B., and TUNAC, J. South Dakota; maize dwarf mosaic virus and wheat streak mosaic virus transmission with dent corn. *U. S. Agr. Res. Serv. ARS-33-118*: 64-65. Mar. 1968. A420 R31
- 98617 NIELSON, K., SCHNEIDER, C. L., and NEMAZI, J. Effect of beet western yellows virus on sugar beets in Utah and Washington. *Amer. Soc. Sugar Beet Technol. J.* 14(4):357-362. Jan. 1967. 66.9 Am35J
- 98618 ORELLANA, R. G. Reaction of guar to strains of tobacco ringspot virus. *Phytopathology* 57 (7):791-792. July 1967. 464.8 P56
- 98619 PERHAM, R. N., and RICHARDS, F. M. Reactivity and structural role of protein amino groups in tobacco mosaic virus. *J. Mol. Biol.* 33(3):795-807. Ref. May 14, 1968. 442.8 J8224
- 98620 PHIPPS, J., and MARTIN, C. Incidence of inoculation of a virus into sensible and hypersensible hosts on the auxin-oxydase activity of their leaves. (*Fr.*) *Acad. Sci. C. R., Ser. D*, 17(266): 1796-1799. Ref. Apr. 22, 1968. 505 P21  
Tested with Mosaic tobacco virus in *Nicotiana tabacum*, *N. glutinosa*, and *Nicotiana sylvestris*.
- 98621 PIRONE, T. P., EVERETT, T. R., and BOND, W. P. Virus diseases of corn in Louisiana. *U. S. Agr. Res. Serv. ARS-33-118:34-42*, map. Mar. 1968. A420 R31
- 98622 ROANE, C. W., and GENTER, C. F. Maize dwarf mosaic in Virginia, 1965. *U. S. Agr. Serv. ARS-33-118:78-79*. Mar. 1968. A420 R31
- 98623 ROSENKRANZ, E. E., DOUGLAS, W. A., and PITRE, H. N. Corn viruses in Mississippi in 1965. *U. S. Agr. Res. Serv. ARS-33-118:45-47*. Mar. 1968. A420 R31  
Chiefly transmission of stunt.
- 98624 SCHWARTZ, J. H. Initiation of protein synthesis under the direction of tobacco mosaic virus RNA in cell-free extracts of *Escherichia coli*. *J. Mol. Biol.* 30(2):309-322. Ref. Dec. 14, 1967. 442.8 J8224
- 98625 SEMANCIK, J. S., and KAJIYAMA, M. R. Comparative studies on two strains of tobacco rattle virus. *J. Gen. Virol.* 1(2):153-162. Apr. 1967. QR360.A1J6
- 98626 SEMANCIK, J. S., and KAJIYAMA, M. R. In vitro degradation products of tobacco rattle virus. *J. Gen. Virol.* 1(2):211-218. Ref. Apr. 1967. QR360.A1J6
- 98627 SEMANCIK, J. S., and KAJIYAMA, M. R. Properties and relationships among RNA species from tobacco rattle virus. *Virology* 33(3): 523-532. Ref. Nov. 1967. 448.8 V81
- 98628 SMITH, C. E., and others. Polymerization-depolymerization of tobacco mosaic virus protein. VIII-X. *Biochemistry* 6(8):2457-2480. Ref. Aug. 1967. 381 B523  
M. A. Lauffer, R. A. F. Shalaby, and M. T. M. K. Khalil, joint authors.
- 98629 STONER, W. N. Corn (maize) viruses in the continental United States and Canada; introduction. *U. S. Agr. Res. Serv. ARS-33-118:1-11*. Ref. Mar. 1968. A420 R31
- 98630 STONER, W. N. General discussion of some corn viruses in the United States and Canada. *U. S. Agr. Res. Serv. ARS-33-118:93-95*. Mar. 1968. A420 R31
- 98631 STONER, W. N. General summary of corn virus distribution including negative reports. *U. S. Agr. Res. Serv. ARS-33-118:82-92*, map. Mar. 1968. A420 R31
- 98632 STOREY, H. H., and HOWLAND, A. K. Transfer of resistance to the streak virus into East African maize. *East Afr. Agr. Forest. J.* 33(2): 131-135. Oct. 1967. 24 Ea74
- 98633 STUBBS, J. D., and KAESBERG, P. Amino acid incorporation in an *Escherichia coli* cell-free system directed by bromegrass mosaic virus ribonucleic acid. *Virology* 33(3):385-397. Ref. Nov. 1967. 448.8 V81
- 98634 SYMINGTON, J., and COMMONER, B. Rod length in protein-stripped tobacco mosaic virus. *Virology* 32(1):1-10. Ref. May 1967. 448.8 V81
- 98635 THORNBERRY, H. H. Corn virus surveys and investigations for 1965. *U. S. Agr. Res. Serv. ARS-33-118:31*. Mar. 1968. A420 R31  
Dwarf mosaic.
- 98636 TOLER, R. W., and HOBBS, C. D. Maize dwarf mosaic virus occurrence, distribution, and disease loss in Texas. *U. S. Agr. Res. Serv. ARS-33-118:73-78*, map. Mar. 1968. A420 R31  
Resistant hybrids.
- 98637 TOSIC, M., and MISOVIC, M. The effect of mosaic virus disease on growth and yields of some corn varieties and hybrids. (*Se*) *Zastita Bilja* 93/95:173-181. Ref. 1967. 464.8 Z1  
English summary.
- 98638 ULLSTRUP, A. J. Maize dwarf mosaic in Indiana in 1965. *U. S. Agr. Res. Serv. ARS-33-118:32*. Mar. 1968. A420 R31
- 98639 VERHOEF, N. J., REINECKE, C. J., and BOSCH, L. Initiation of plant viral RNA-directed polypeptide synthesis with N-acetylphenylalanyl-tRNA. *Biochim. Biophys. Acta* 149(1):305-307. Ref. Nov. 21, 1967. 381 B522  
Alfalfa mosaic virus.
- 98640 WALL, R. E., and others. Corn virus diseases in Ontario in 1965. *U. S. Agr. Res. Serv. ARS-33-118:80-82*. Mar. 1968. A420 R31  
Y. C. Paliwal, J. T. Slykhuus, and C. G. Mortimore, joint authors.
- 98641 WEINTRAUB, M., RAGETLI, H. W., and JOHN, V. T. Some conditions affecting the intracellular arrangement and concentration of tobacco mosaic virus particles in local lesions [*Nicotiana glutinosa*, *Chenopodium amaranticolor*]. *J. Cell Biol.* 35(1):183-192. Ref. Oct. 1967. 442.8 J828
- 98642 WILLIAMS, L. E., SPILKER, O. W., and ELLETT, C. W. Distribution and severity of corn viruses in Ohio in 1965. *U. S. Agr. Res. Serv. ARS-33-118:55-57*. Mar. 1968. A420 R31  
Maize dwarf mosaic and wheat streak mosaic.
- Virus Diseases - Horticultural Crops
- 98643 ALFIERI, S. A. Peach rosette. *Fla. Dep. Agr. Div. Plant Indus. Tri-ology Tech. Rep.* 6(6, plant pathol. circ. 58), 2 p. June 1967. 423.9 F6622  
Virus disease known to be transmitted only by budding and grafting.
- 98644 ANJANEYULU, A., and RAMAKRISHNAN, K. Reaction of *Solanum* spp. to brinjal little leaf virus. *Madras Agr. J.* 55(3):142-143. Mar. 1968. 22 M262  
Eggplant varieties included.
- 98645 CATARA, A. A new case of "Tristeza" reffects the urgency of sanitary control of our citrus crops. (*It.*) *Tec. Agr.* 20(1):49-59. Ref. Jan./Feb. 1968. 16 T22  
Virus-caused.
- 98646 CROPLEY, R. Testing cherry rootstock for resistance to infection by raspberry ringspot and cherry leaf roll viruses. *East Mallng Res. Sta. Annu. Rep.* Apr. 1968:141-143. Ref. 103 Ea7
- 98647 ENGELBRECHT, D. J., and WOLFSWINKEL, L. D. *Chenopodium* as host to viruses transmitted from apple, pear and grapevine. *S. Afr. J. Agr. Sci.* 10(2):419-423, 425-427. Ref. June 1967. 24 Su3
- 98648 ENGELBRECHT, D. J. Studies on virus diseases of strawberries in the Western Cape Province. II. The latent period of mild yellow-edge and crinkle viruses in the vector *Chaetosiphon fragaefolii* (Ckll.). *S. Afr. J. Agr. Sci.* 10(3):575-581. Sept. 1967. 24 Su3
- 98649 FISHER, K. D. Virus indexing of Vermont apple orchards. *Mass. Fruit Growers' Ass. Rep.* 73:28-30. 1967. 81 M384  
Chlorotic leaf spot and stem pitting virus.
- 98650 FRITZSCHE, R., and SCHMELZER, K. Transmissibility of carnation ring spot virus by nematodes. (*Ge*) *Naturwissenschaften* 54(18):498-499. Sept. 15, 1967. 474 N213  
Longidorus macrosoma and Xiphinema diversicaudatum, on *Dianthus barbatus*.



- 98651 GARDNER, F. E., and others. Growth and productivity of virus-infected Valencia orange trees on twenty-five rootstocks. Fla. State Hort. Soc. Proc. 80:89-92. May 1, 1968. 81 F66  
D. J. Hutchinson, G. E. Horanic, and P. C. Hutchins, joint authors.
- 98652 GARNSEY, S. M. Exocortis virus of citrus can be spread by contaminated tools. Fla. State Hort. Soc. Proc. 80:68-73. May 1, 1968. 81 F66
- 98653 HAKKAART, F. A. Inventory and investigation of virus diseases of carnations. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:34-35. 86 Aa4
- 98654 HAKKAART, F. A. Inventory and investigation of virus diseases of Chrysanthemum in Netherlands. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:57-58. 86 Aa4
- 98655 HALISKY, P. M., SIDDQUI, M. W., and ANDERSON, J. C. Occurrence and transmission of maize dwarf mosaic on sweet corn in New Jersey. U. S. Agr. Res. Serv. ARS-33-118:49-52. Mar. 1968. A420 R31
- 98656 HARDTL, H. Virus diseases of Sambucus nigra. (Ge) Gesunde Pflanzen 19(4):80-84. Ref. Apr. 1967. 464.8 G33
- 98657 HUNNIUS, W. The influence of nitrogenous fertilizers on virus diseases in potatoes. (Ge) Bayer. Landwirt. Jahrbuch 44(5):563-576. Ref. 1967. 18 L24
- 98658 IVANCHEVA-GABROVSKA, T., and others. The virus diseases of the Carica papaya in Cuba. (Sp) Rev. Agr. [Havana] 1(2):1-21. Ref. May/Aug. 1967. S15.R4  
A. S. Valdivieso, A. Becquer, and B. Saenz, joint authors.  
English summary.  
Bunchy top and mosaic.
- 98659 JORDOVIC, M. Symptoms of rasp leaves virus disease in peaches. (Se) Zastita Bilja 93/95: 143-145. 1967. 464.8 Z1  
English summary.
- 98660 JOVICEVIC, B., and DJURDJEVIC, B. A contribution to the study of the speed of spreading of plum pox virus. (Se) Zastita Bilja 93/95: 257-260. 1967. 464.8 Z1  
English summary.
- 98661 KITAJIMA, E. W., and COSTA, A. S. Electron microscopy of cassava leaf tissues infected with common mosaic virus. (Por) Bragantia 25(1):XXIII-XXV, XXVII. 1966. 102.5 B73Tb  
English summary.
- 98662 KITAJIMA, E. W. Intranuclear mitochondrion in globe amaranthus in a leaf cell infected with Gomphrena virus. (Por) Bragantia 25(1):I,III. 1966. 102.5 B73Tb  
English summary.
- 98663 KITAJIMA, E. W., and COSTA, A. S. Spheroidal particles associated with the cassava vein mosaic virus. (Por) Bragantia 25(1):211-221. Ref. 1966. 102.5 B73Tb  
English summary.
- 98664 KITANI, K., KISO, A., and YAMAMOTO, T. Detection of cucumber green mottle mosaic virus antigen in cucumber by the use of fluorescent antibodies. (Ja) Shikoku Agr. Exp. Sta. Bull. 17:1-8. Ref. Sept. 1967. 107.6 Z4  
English summary.
- 98665 KLESSER, P. J. Occurrence of rose streak virus in South Africa. S. Afr. J. Agr. Sci. 10 (3):849-855. Sept. 1967. 24 Su3
- 98666 MELLOR, F. C., and STACE-SMITH, R. Eradication of potato virus X by thermotherapy. Phytopathology 57(7):674-678. Ref. July 1967. 464.8 P56
- 98667 MENDZHUL, M. I. Effect of vital activity products of the yeast Saccharomyces Carlsberg on wrinkle mosaic viruses of potatoes. (Uk) Mikrobiol. Zhur. 29(3):247-250. 1967. 448.3 K54  
English summary.  
Virucidal action of yeast metabolites.
- 98668 MILNE, R. G., and DE ZOETEN, G. A. A comparison of some methods of preparation of thin sections of virus-infected leaves for electron microscopy. J. Ultrastruct. Res. 19(3-4):398-407. Ref. Aug. 1967. 440.8 J822  
Tomato spotted wilt virus and tobacco mosaic virus.
- 98669 MINK, G. I. An indirect role of cytochrome oxidase in loss of prune dwarf virus infectivity in squash tissue homogenates. Phytopathology 57 (7):797-798. July 1967. 464.8 P56
- 98670 MORTENSEN, J. A., and KNIGHT, R. J. Susceptibility to Perce's disease of a plant introduction of Vitis vinifera. Fla. State Hort. Soc. Proc. 80:348-350. May 1, 1968. 81 F66
- 98671 MUKHERJEE, A. K., and RAYCHAUDHURI, S. P. A note on the effect of some therapeutics on leaf-curl disease of tomato. Indian Phytopathol. 19(4):399-401. Dec. 1966. 464.8 In2
- 98672 NILSSAN, B. Heavy attack by the lettuce mosaic virus in 1967. (Sw) Vaxtskyddnotiser 32 (1):13-19. Ref. 1968. 464.9 Sw3V  
Includes control.
- 98673 O'REILLY, H. J. Yellow leaf roll continues southern movement. Blue Anchor 44(4):12-14., map. Dec. 1967. 286.83 B62  
In the peach and nectarine growing areas of California.
- 98674 PANJAN, M. Virus diseases of potatoes in Yugoslavia. (Se) Zastita Bilja 93/95:25-35. 1967. 464.8 Z1  
English summary.
- 98675 PINE, T. S. Reactions of peach trees and peach tree viruses to treatment with dimethyl sulfoxide and other chemicals. Phytopathology 57(7):671-673. July 1967. 464.8 P56
- 98676 RAO, S. N., RAO, R. B. V., and RAO, M. R. Free amino acids and sugars in Sathudi (Citrus sinensis Osbeck) healthy and virus affected trees. Andhra Agr. J. 14(2):52-56. 1967. 34.2 An4
- 98677 ROBERTS, D. A., and PRICE, W. C. Infection of apparently uninjured leaves of bean by the viruses of tobacco necrosis and southern bean mosaic. Virology 33(3):542-545. Ref. Nov. 1967. 448.8 V81
- 98678 ROSENKRANZ, E., and HAGEDORN, D. J. Purification and physicochemical properties of the Wisconsin pea streak virus. Phytopathology 57(6):551-558. Ref. June 1967. 464.8 P56
- 98679 RUSSO, M., MARTELLI, G. P., and QUACQUARELLI, A. Occurrence of artichoke mottle crinkle virus in leaf vein xylem. Virology 33(3):555-558. Nov. 1967. 448.8 V81
- 98680 SAROSPATAKY, GY. Virus diseases of grape. (Hu) Kertesz. Szolesz. 16(15):18-19. Aug. 1967. 80 K474
- 98681 SCHADE, C. Studies on the serological identification of necrotic ring spot virus of sour cherries. II. Virus purification and serum production. (Ge) Phytopathol. Z. 60(1):51-62. Ref. Sept. 1967. 464.8 P562  
English summary.
- 98682 SPANRING, J. The degeneration of potatoes. (Sl) Soc. Kmetijstvo Gozdarstvo 18(2):30-31. Feb. 22, 1967. 21.5 So14  
German summary.  
Includes culture of varieties resistant to virus diseases.
- 98683 STELLMACH, G. The technique of experimental virus infection of grapes. (Ge) Weinberg Keller 13(12):561-567. Ref. Dec. 1966. 95.8 W435
- 98684 TERWILLIGER, E. Review of orchid virus research. Amer. Orchid Soc. Bull. 37(4):287-289. Ref. Apr. 1968. 80 Am329
- 98685 TRESHOW, M., DEAN, G., and HARNER, F. M. Stimulation of tobacco mosaic virus-induced lesions on bean by fluoride. Phytopathology 57 (7):756-758. July 1967. 464.8 P56
- 98686 TRIFONOV, D. Apple proliferation, mosaic and certain latent viruses as manifested on apple test plants. (Bu) Gradinar. Lozar. Nauk. 4(7):23-31. Ref. 1967. 87 G75  
English summary.



- 98687 VAN VELSEN, R. J. Hippeastrum streak, a virus disease of Hippeastrum vittatum in Papua and New Guinea. Papua New Guinea Agr. J. 19 (1):13-15. July 1967. 23 N453
- 98688 VAN VELSEN, R. J. A mosaic disease of Hibiscus manihot in Papua and New Guinea. Papua New Guinea Agr. J. 19(1):10-12. July 1967. 23 N453
- 98689 VARMA, A., GIBBS, A. J., and WOODS, R. D. Some observations on the structure of the filamentous particles of several plant viruses. J. Gen. Virol. 2, pt. 1:107-114. Ref. Jan. 1968. QR360.A1J6  
From potato virus X, potato virus Y, and potato virus S groups.
- 98690 VOGEL, R., and BOVE, J. M. "Stem pitting" of sour orange and 'Tarocco' orange. (Fr) Fruits 22(5):235-238. May 1967. 80 F9492  
English summary, p.255.
- 98691 WEISMANN, L. Vosky z cel'ade Aphididae zucastnuje sa na prenosu virusovych chorob zemiakov na Slovensku [Aphids of the Aphididae family as vectors of virus diseases of potatoes in Slovakia]. Biol. Prace 12(8), 96 p. Ref. 1966. 442.9 3L52  
English summary.
- 98692 WIGGER, E. A. Testing for virus and propagation of rootstocks for stone fruit. (Ge) Gesunde Pflanzen 19(6):113-116. June 1967. 464.8 G33
- 98693 WOLFENBARGER, D. O., and MOORE, W. D. Mulch treatments of squash and tomatoes with respect to virus infections and yields. Fla. State Hort. Soc. Proc. 80:217-221. May 1, 1968. 81 F66
- 98694 YOUTSEY, C. O., and BENTLEY, A. L. Symptoms of xyloporosis (cachexia) virus on Robinson and Lee tangerine hybrids. Fla. State Hort. Soc. Proc. 80:67-68. May 1, 1968. 81 F66
- 98695 ZETTLER, F. W. The aphid; a formidably fertile spinster. Sunshine State Agr. Res. Rep. [Fla. Sta.] 13(2):3-4. Mar. 1968. 100 F66Su  
Transmission of vegetable virus diseases.
- Virus Diseases - Forest Trees**
- 98696 SCHMELZER, K. The virus diseases of ornamental, forest, and wild woody plants in Europe. (Ge) Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz 74(9):552-556. Ref. Sept. 1967. 464.8 Z3  
English summary.
- Physiological Diseases**
- 98697 ARNOLD, R., and JONGKIND, M. Copper fertilizing of Prunus triloba. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:96-97. 86 Aa4  
With reference to nutritional deficiencies.
- 98698 BAKOS DE ARIAS, C. Creation of deficiency symptoms in rice. (Sp) Jornadas Agron. Mem., 6th Conf., v.1, paper 10, 12 p. 1966. S211.J6 1966
- 98699 BOGDANOVA, N. S. Khloroz yabloni i mery bor'by s nim [Chlorosis of apples and measures of its control]. Moskva, Rossel'khozizdat, 1966. 47 p. Ref. SB608.A6B6
- 98700 BOGNAR, S. Plant protectional relations of nutrient supply. (Hu) Kertesz. Szoleszeti Foiskola. Kiadv. 3(1):359-375. Ref. 1966. SB13.K4  
Nutritional deficiencies, chiefly.
- 98701 CALDWELL, A. C., and GRAVA, J. Deficiencies of soil nutrients influence forest and crop land development. Minn. Sci. 23(3):26-27, map. Apr. 1967. 100 M668
- 98702 CARVALHO, R. DE. A common case in the coffee plantations of Libolo. (Por) Gaz. Agr. Angola 12(12):897, 899, 902. Dec. 1967. 24 G252  
Yellowing and withering of trees caused by improper planting.
- 98703 CHARPENTIER, J. M., and MARTIN-PREVEL, P. Culture on artificial medium: Study of mineral deficiencies in the avocado. 1. Growth and symptoms. (Fr) Fruits 22(5):213-233. Ref. May 1967. 80 F9492  
English summary.
- 98704 CLYSTERS, H. Bitter pit in Cox's Orange and foliar diagnosis. (Fr) Fruit Belg. 35(311): 247-250. July 1967. 80 F9493  
Calcium, potassium, and magnesium in apples.
- 98705 DAMODARAN, A., and KAMALANATHAN, S. The effect of nitrogen on the occurrence of "red leaf blight" in P 216F cotton in the rice fallows of Madras State. Madras Agr. J. 54(7):338-343. Ref. July 1967. 22 M262
- 98706 DHANANJAYA RAO, V. The physiology of bud and boll-shedding in cotton. Madras Agr. J. 54(7):376-381. Ref. July 1967. 22 M262
- 98707 DICKEY, R. D. Factors affecting copper deficiency of container grown Ligustrum japonicum. Fla. State Hort. Soc. Proc. 80:409-412. May 1, 1968. 81 F66
- 98708 DUNCAN, A. A., and MACSWAN, I. C. Blossom-end rot of tomatoes. Oreg. State Univ. Ext. FS 139, 2 p. Mar. 1968. 275.29 Or36  
Control of physiological disorder.
- 98709 GERASIMOV, B. A., and TZERETELI, M. D. Quantity and dynamics of boron in healthy and chlorotic leaves of grape vine. (Geo) Gruz. Sel'skokhoz. Inst. Tr. 70:385-390. 1966. 106 T44  
English summary.
- 98710 GORDETSKII, A. V. Nucleic exchange in plants as a diagnostic indicator of nitrogen and phosphorus nutritive deficiencies in peat-podzolic soils. (Rus) Zhytomys'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:487-493. S651.Z5  
In corn.
- 98711 HARRIS, H. C., SCHRODER, V. N., and GILMAN, R. L. Nutrient deficiency effects on yield and chemical composition of plants grown on Leon fine sand. Fla. Agr. Exp. Sta. Tech. Bull. 725, 39 p. Ref. May 1968. 100 F66S  
Forage plants.
- 98712 HAYSLIP, N. C., and ILEY, J. R. Influence of potassium fertilizer on severity of tomato graywall. Fla. State Hort. Soc. Proc. 80:182-186. May 1, 1968. 81 F66
- 98713 HOHLT, H. E., and MAYNARD, D. N. Magnesium nutrition of spinach. Amer. Soc. Hort. Sci. Proc. 89:478-482. Ref. Dec. 1966. 81 So12  
Magnesium deficiency in spinach corrected by magnesium applications.
- 98714 INTERNATIONAL COLLOQUIUM ON STEM PARALYSIS OF GRAPES, 2, COLMAR, FRANCE, 1967. Report, by W. Koblet. (Ge) Schweiz. Z. Obst. Weinbau 103(12):380-381. June 10, 1967. 80 Sch9  
Includes abstracts of papers on this physiological disease.
- 98715 KANIVETS, I. I., SEMINA, V. I., and TSIPKO, A. A. The nitrogen status of orchard soils and chlorosis disease of fruit plants. (Rus) Zhytomys'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:346-352. S651.Z5
- 98716 KIM, C. C., and BYUN, J. K. Studies on causes of dieback of shoot in the young apple trees planted in the newly-developed slope land in Korea. 1. Study on available boron content in the soil and trees suffered from boron deficiency. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(2):55-61. Ref. Sept. 1967. 22.5 K843  
English summary.
- 98717 KOVALENKO, V. F., and TARASOV, V. M. Methods and dates for application of copper to control drying of apple branches under conditions of the shores along the Volga River. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 132:107-112. 1967. 20 M857

- 98718 MANCHEV, J. New possibilities for the control of chlorosis of grapes. (Se) Sovremeno Zem-jod. 13(3):9-10. Mar.1966. S13.S6  
With Sequestrene 138 Fe.
- 98719 MORETTINI, A. "Brusone" of pear leaves. (It) Ital. Agr. 105(3):227-243. Ref. Mar.1968. 16 It1  
Physiologically caused drying of the leaves.
- 98720 NEGI, O. P., and ROY, S. D. Studies in chlorosis of sugarcane. Sugar Technol. Ass. India. Proc., 35th Annu. Conv., pt.1:265-273. Ref. 1967. 65.9 Su35P  
In India.
- 98721 NEVRTAL, J., and MISA, D. Chlorosis caused by the abundance of calcium and indicator plants. (Cz) Ziva 15(3):87-89. May 1967. 409.6 Z6
- 98722 POROKHNEVICH, N. V. Changes in the epidermis structure of flax leaves under conditions of zinc deficiency. (Rus) Akad. Nauk Belorussk. SSR. Dokl. 11(9):837-840. Ref. Sept.1967. 511 M663D
- 98723 QUILION, P. J. The effects of boron on the health of orchards. (Fr) Congr. Pomol. [Compt. Rend.] 97:135-158. Ref. Oct.6,7,8, 1966. 93.09 C7643  
Discussion, 1,156-158.
- 98724 RANDHAWA, N. S., BHUMBLA, D. R., and DHINGRA, D. R. Role of soil and plant composition in diagnosis of citrus decline in Punjab. Punjab Agr. Univ. J. Res. 4(1):16-24. Ref. Mar.1967. S19.P8  
Relation to chlorosis.
- 98725 SUCCOFF, E., and PERALA, D. Diagnose K hunger in 5 tree species. Better Crops Plant Food 52(2):30-32. 1968. 6 B46
- 98726 SUMEGHY, J. B. Testing tomatoes for fruit skin crack resistance. Agr. Gaz. New S. Wales 79(3):188-189. Mar.1968. 23 N472
- 98727 TIMASHOV, N. D., and VOLKOVA, V. S. The effect of boron deficiency on S<sup>35</sup>-methionin inclusions in the protein of sunflower cytoplasmic structures. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk 4:93-96. 1967. 442.8 N22
- 98728 VILACHA, B., F. Visual symptoms of nutritional deficiency in "guacharo" tobacco. (Sp) Jornadas Agron. Mem., 6th Conf., v.2, paper 17,13 p. Ref. 1966. S211.J6 1966
- 98729 WALLIHAN, E. F., and GARBER, M. J. Iron in citrus production. Calif. Agr. 21(6):6-8. June 1967. 100 C12Cag  
Iron chlorosis of oranges.
- 98730 WEAVER, M. L., BROWN, R. C., and STEEN, H. A. The association of copper with tyrosinase activity and internal discoloration (black-spot) in Russet Burbank potatoes. Amer. Potato J. 45(4):132-138. Ref. Apr.1968. 75.8 P842
- 98731 WEAVER, M. L., and STEEN, H. A. Deep blackspot in Russet Burbank potatoes. Amer. Soc. Hort. Sci. Proc. 89:464-471. Dec.1966. 81 So12  
Physiological diseases.
- 98732 WOLTZ, S. S. Comparison of yellow strap-leaf syndromes produced by ANCPA and isomers of isoleucine. Fla. State Hort. Soc. Proc. 80:459-461. May 1,1968. 81 F66  
Chrysanthemum morifolium.
- 98733 WOLTZ, S. S. High intensity sunlight may cause leaf roll and some fruit disorders of tomatoes. Sunshine State Agr. Res. Rep. [Fla. Sta.] 12(6):10-11. Nov.1967. 100 F66Su
- 98734 WOODBRIDGE, C. G., and CRANDALL, P. C. The boron content of bartlett buds and flower clusters. Wash. State Hort. Ass. Proc. 1967: 187-191. 81 W273  
Blossom blast caused by borow deficiency and drought.
- 98735 YUN, K. H. Studies on the deficiency symptoms of nutrient elements in apple trees. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(2):37-42. Ref. Sept.1967. 22.5 K843  
English summary.
- Injuries
- 98736 BALLARD, J. Evaluation of frost protection devices and techniques. Wash. State Hort. Ass. Proc. 1967:179-183. 81 W273  
In orchards.
- 98737 BALLARD, J. Orchard heating—old and new. Wash. State Hort. Ass. Proc. Dec.5-7,1966: 129. 81 W273
- 98738 BALLARD, J. The use of natural and propane gas in Yakima County orchard frost protection. Wash. State Hort. Ass. Proc. Dec.5-7,1966:132-134. 81 W273
- 98739 BEARD, J. B. Winter injury and prevention. Turf Bull. 4(4):8-11,21. Summer 1967. 60.18 T846
- 98740 BECKWITH, S. L., and STITH, L. G. Deer damage to citrus groves in south Florida. Sunshine State Agr. Res. Rep. [Fla. Sta.] 13(2): 5-7. Mar.1968. 100 F66Su
- 98741 BROWN, D. S., GRIGGS, W. H., and IWAKIRI, B. T. Effect of winter chilling on Bartlett pear and Jonathan apple trees. Calif. Agr. 21(2):10-14. Feb.1967. 100 C12Cag
- 98742 CAMARGO, A. P. DE., and SALATI, E. Determination of the lethal temperature on coffee tree leaves during frost nights. (Por) Bragantia 25(2):LXI-LXIII. 1966. 102.5 B73Tb  
English summary.
- 98743 CARNAUBA, T. T., and ORTOLANI, A. A. Injury on grafted young avocado trees caused by high temperatures. (Por) Bragantia 25(2):XLV-XLIX. 1966. 102.5 B73Tb  
English summary.
- 98744 CLAYTON, C. N. Peach tree decline and related problems. Mountaineer Grower 275:20-24. Apr.1968. 80 M86  
Deals with cold injuries, blast and canker in peach culture.
- 98745 COX, L. M. Dirty air—a peripatetic peril. Utah Sci. 28(2):53-57,64, map. June 1967. 100 Ut1F  
Effects on plants and animals.
- 98746 DAINES, R. H., BRENNAN, E., and LEONE, I. Air pollutants and plant response. J. Forest. 65(6):381-384. Ref. June 1967. 99.8 F768  
Injuries to plants.
- 98747 DARLEY, E. F., NICHOLS, C. W., and MIDDLETON, J. T. Identification of air pollution damage to agricultural crops. Calif. Dep. Agr. Bull. 55(1):11-19, map. 1966. 2 C12M
- 98748 DAVIDE, R. G. Phytotoxicity of sticker-fungicide combinations on tomato plants. Philippine Agr. 50(8):817-822. Jan.1967. 25 P542
- 98749 DICKER, G. H. L. Damage to the flowers of fruit trees by birds. East Malling Res. Sta. Annu. Rep. Apr.1968:159-163. 103 Ea7  
In Great Britain.
- 98750 DOCHINGER, L. S. Chlorotic dwarf of white pine [Pinus strobus] a problem of air pollution. Ohio Woodlands 5(4):18-19. Aug./Oct.1967. 99.8 Oh34
- 98751 DURAND, R. Determination of the risk of frost in planting an orchard. (Fr) Congr. Pomol. [Compt. Rend.] 97:23-36. Oct.6,7,8,1966. 93.09 C7643  
In France.  
In relation to hardiness.
- 98752 FORBES, J. E. Controlling pine mouse damage in orchards. N. Y. State Hort. Soc. Proc. 113:265-267. 1968. 81 N484
- 98753 FREYMAN, S., and BRINK, V. C. Ice-sheet injury to forage plants. Forage Notes [Ottawa] 13(1):37-38. Spring 1967. 50.8 F742
- 98754 GIACOMELLI, E. Anti-frost wind-machines. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.2:495-505. 1966, pub.1968. S675.C6 1966  
English summary.
- 98755 GIBAN, J. The protection of fruit crops against bud-eating birds. (Fr) Congr. Pomol. (Compt. Rend.). 97:97-106. Ref. Oct.6/8,1967. 93.09 C7643  
In France.  
Discussion, p.104-106.



- 98756 GJAERUM, H. B., and WEYDAHL, E. Fungicides in soils for lettuce, cucumber, tomato and pansy. (No) Gartneryrket 58(6):96-98. Feb. 9, 1968. 80 G1938  
Cause of growth inhibition.
- 98757 HALBWACHS, G. On the question of injury to vegetation by tar vapours. (Ge) Phytopathol. Z. 60(1):73-91. Ref. Sept. 1967. 464.8 P562  
English summary.
- 98758 JONGKIND, M. Lilac and Forsythia. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:141. 86 Aa4  
Injuries caused by simazine.
- 98759 KIRBY, A. H. M., BENNETT, M., and SHARPLES, R. O. Phytotoxicity of dithiocarbamate fungicides on Worcester Pearmain. East Malling Res. Sta. Annu. Rep., Apr. 1968:177-181. 103 Ea7
- 98760 KOFOED, W. R. A defence of the rabbit control policy. Christchurch. Tussock Grassland Mountain Lands Inst. Rev. 13:8-10. Sept. 1967. 60.9 C46  
New Zealand.
- 98761 KOULA, V. Study on the symptoms of cultivated plants injury due to herbicide aerosols. (Cz) Pol'nohospodarstvo 14(3):185-194. Ref. 1968. 19.5 P752  
English summary.  
Effects of 2,4-D and MCPA on deciduous fruit trees, and vegetables.
- 98762 KRETCHMAN, D. W., and SLEESMAN, J. P. Dibrom and injury to greenhouse tomato plants. Ohio. Agr. Res. Develop. Center. Res. Sum. 26:29-32. Apr. 1968. 100 Oh3Rs
- 98763 LANGE, A. H., and others. Studies of phytotoxicity in the use of herbicides for controlling annual weeds in almond orchards. Calif. Agr. 21(6):8-10. June 1967. 100 C12Cag  
C. Elmore, D. Bayer, E. Stilwell, L. Buschmann, N. Ross, and B. Fischer, joint authors.
- 98764 LOCASCIO, S. J., HARRISON, D. S., and NETTLES, V. F. Sprinkler irrigation of strawberries for freeze protection. Fla. State Hort. Soc. Proc. 80:208-211. May 1, 1968. 81 F66
- 98765 MACGREGOR, J. M., and MUNTER, R. G. Problem salts in Minnesota soils. Minn. Sci. 24(2):7-9, map. Winter 1968. 100 M668  
Chlorosis; chiefly of field crops.
- 98766 MIYAKE, Y. Effects of ammonium nitrate on the hydrogen sulfide and sulfides formed in polder fields. (Ja) Okayama. Univ. Fac. Agr. Sci. Rep. 30:51-56. Oct. 1967. 107.6 Ok12  
English summary.  
Inhibition of root injury to rice plants.
- 98767 MODLIBOWSKA, I. Strawberry fruit malformation. III. Role of frost. East Malling Res. Sta. Annu. Rep. Apr. 1968:204-205. 103 Ea7
- 98768 REESE, R. L. Improved fertilizer material gives reduced perchlorate toxicity symptoms. Fla. State Hort. Soc. Proc. 80:15-19. May 1, 1968. 81 F66  
Citrus varieties.
- 98769 ROUSSEAU, S. Fighting frost by means of overhead irrigation. (Fr) Fruit Belg. 36(318):49-54. Feb. 1968. 80 F9493
- 98770 SCHMIDT, F. H. Atmospheric pollution. In Wijk, W. R. van, ed. Physics of plant environment, ed. 2, p. 318-355. Ref. 1966. S589.W5 1966
- 98771 SCOTT, D. C., and WEBER, J. B. Herbicide phytotoxicity as influenced by adsorption. Soil Sci. 104(3):151-158. Sept. 1967. 56.8 So3  
Phytotoxicity of soil-applied herbicides to cucumbers.
- 98772 SIPKES, C. Once more: rabbits and orchids. (Du) Levende Natuur 71(3):59-60. Mar. 1968. 410 L57  
Injure some species.
- 98773 STANISLAUS, N. R. Sunburned peach trees. Cling Peach Quart. 5(2):16. Spring 1968. 281.8 C61
- 98774 STARK, R. W., and others. Photochemical oxidant injury and bark beetle (Coleoptera: Scolytidae) infestation of ponderosa pine [Pinus ponderosa]. I-II. Hilgardia 39(6):121-152. Ref. May 1968. 100 C12H  
P. R. Miller, F. W. Cobb, D. L. Wood, J. R. Parmeter, and E. Zavarin, joint authors.  
Air pollution injuries predispose Pinus to infestation.
- 98775 STEVLINGSON, D. J., and EVERSON, D. O. Spring and fall freezing temperatures in Idaho. Idaho. Agr. Exp. Sta. Bull. 494, 19 p., map. Apr. 1968. 100 Id14  
Plant injuries.
- 98776 TERRANOVA, E. V. A serious threat: Voles. (It) Tec. Agr. 20(1):60-67. Jan./Feb. 1968. 16 T22  
In citrus orchards.
- 98777 WHITTENBERGER, R. How to control cherry scald in 1968. N. Y. State Hort. Soc. Proc. 113:117-120. 1968. 81 N484
- 98778 WIBRANT, B. Hormone injuries to garden plants. (Sw) Hallands Lands Hushallningssallsk. Medd. 10(2):25-26. Mar. 1967. 11 H152  
Injuries to vegetables caused by growth substances and herbicides.
- 98779 WILCOX, G. E., KRISTOF, S., and BAKER, R. Tomato plant damage effects on development and fruit yield. Amer. Soc. Hort. Sci. Proc. 89:571-576. Dec. 1966. 81 So12
- 98780 YELENOSKY, G., and HEARN, C. J. Cold damage to young mandarin-hybrid trees on different rootstocks in flatwood soil. Fla. State Hort. Soc. Proc. 80:53-56. Ref. May 1, 1968. 81 F66

## SYSTEMATIC AND GEOGRAPHIC BOTANY

- 98781 BADER, F. J. W. Vegetation geography on the card of Lake Victoria in the Africa mapping of the German Research Cooperative. (Ge) Deut. Bot. Ges. Ber. 80(4):291-297, map. Ref. 1967. 451 D48
- 98782 BOCHANTSEV, V. P. One more find of the boreal desert elements in the flora of the south of Central Asia. (Rus) Bot. Zhur. [Moscow] 53(1):94-95. Jan. 1968. 451 R923
- 98783 BOIVIN, B. Flora of the prairie provinces: a handbook to the flora of the Provinces of Manitoba, Saskatchewan and Alberta. I. Phytologia 15(3):121-159. Aug. 1967. 450 P563
- 98784 CORRELL, D. S. Flora of Peru. Chicago. Field Mus. Natur. Hist. Bot. Ser. 13(2, pt. V-B): 271-458. Jan. 18, 1967. 500 C432B
- 98785 CROVELLO, T. J. Different concepts of relevance in a numerical taxonomic study. Nature 218(5140):492. May 4, 1968. 472 N21  
In botany.
- 98786 DELVOSALE, L. Botanical observations made during All Saints day in Kent and Sussex. (Fr) Natur. Belg. 49(3):161-165, map. Mar. 1968. 410.9 N21
- 98787 ERN, H. Geobotanical studies in subalpine steps of the mountains on the Iberian Peninsula. (Ge) Deut. Bot. Ges. Ber. 80(4):298-300. 1967. 451 D48
- 98788 GORCHAKOVSKII, P. L. The forest-steppe zone in the region of Krasnoufimsk, as a unique botanical phenomenon of the cis-Ural area. (Rus) Bot. Zhur. [Moscow] 52(11):1574-1592, map. Ref. Nov. 1967. 451 R923  
English summary.
- 98789 HEWITT, B. R. The occurrence, origin and vegetation of lowland peat in Malaya. Linn. Soc. New S. Wales. Proc. 92(1):58-66, map. Ref. 1967. 514 Sy2
- 98790 HUISMAN, K. J., and VROEGINDEWELJ, P. The riches and the impoverishment of the polder dikes of Overflakkee. (Du) Levende Natuur 70(3):61-66. Mar. 1967. 410 L57  
Vegetation.
- 98791 JALAS, J., and SUOMINEN, J. Mapping the distribution of European vascular plants. Soc. Fauna Flora Fenn. Memo. 43:60-72. Ref. 1967. 511 H36Me

- 98792 KAWADA, A. Reminiscences of plants of southeast Asia. 2. (Ja) Agr. Asia 5(8):28-29. Aug. 1967. 22.5 Aj5
- 98793 KIRPICZNIKOV, M. E. "Flora URSS,"—the greatest achievement of the Soviet taxonomists. (Rus) Bot. Zhur. [Moscow] 52(10): 1503-1529. Ref. Oct. 1967. 451 R923  
English summary.
- 98794 LEBEAU, J. Excursions in the White Water Valley in 1966. (Fr) Natur. Mosana 19(4):75-79. Oct./Dec. 1966. 473 N214  
Vegetation survey in Belgium.
- 98795 LID, J. Synedria of twenty vascular plants from Svalbard. Bot. Jahrbuch 86(1/4):481-493. Feb. 1, 1967. 450 En3B
- 98796 LINDGREN, U., and LINDGREN, L. An annotated list of vascular plants from the archipelago SW Finland, 1962-1966. (Sw) Soc. Fauna Flora Fenn. Memo. 43:49-52. 1967. 511 H36Me
- 98797 MARCHE-MARCHAD, J. The ruderal, semi-wild, and cultured flora in intertropical Africa. (Fr) Notes Afr. 115:73-81. July 1967. 475 N84
- 98798 RAJ, B. Sporoderm stratification and its significance in taxonomy. Indian Bot. Soc. J. 46 (1):112-122. Ref. 1967. 450 J821
- 98799 RODMAN, L. S. On some geographical boundary lines of flora in the Volga-Akhtuba River Basin. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 131:307-312, map. Ref. 1967. 20 M857
- 98800 ROGERSON, C. T., and others. Index to American botanical literature. Torrey Bot. Club. Bull. 94(2):111-124. Mar./Apr. 1967. 451 T63B  
L. Schwarten, H. W. Rickett, and H. Becker, joint authors.  
Taxonomical bibliography.
- 98801 SHAGA, V. S. Species new for the flora of the Zea-Burea region. (Rus) Nauch. Dokl. Vyssh. Shk., Biol. Nauk. 2(33):85-88. 1967. 442.8 N22
- 98802 SHAH, G. L. A preliminary contribution to the flora of Rajpipla forests in Gujarat State. Indian Forest. 93(9):672-676. Ref. Sept. 1967. 99.8 In2
- 98803 SOKOLOVSKAYA, A. P. Research in karyosystematics in Poland. (Rus) Bot. Zhur. [Moscow] 52(11):1666-1668. Nov. 1967. 451 R923  
Review of the literature.
- 98804 STANDLEY, P. C., and WILLIAMS, L. O. Flora of Guatemala. Fieldiana. Bot. 24(3, pt. 8): 211-261. May 5, 1967. 500 C432B
- 98805 THE TAXONOMIC index 30(3), 12 p. In Brittonia 19(2). Apr./June 1967. 450 B77  
A bibliography.
- 98806 TUMADZHANOV, I. I., and BERIDZE, R. K. A karyological and geographic investigation of some representatives of the Upper alpine alpine floras of the Great Caucasus. (Rus) Bot. Zhur. [Moscow] 53(1):58-68. Ref. Jan. 1968. 451 R923  
English summary.
- 98807 ZHUKOVSKII, P. M. The nature and the span of species in cultivated plants. (Rus) Bot. Zhur. [Moscow] 52(10):1530-1539. Ref. Oct. 1967. 451 R923  
English summary.
- Spermatophytes
- 98808 ARDELEAN, G. The distribution of *Castanea sativa* Mill. in the western parts of the Baia Mare plains. (Rum) Rev. Padurilor 86(6):295-297, map. Ref. June 1967. 99.8 R327
- 98809 ARIFKHANOVA, M. M. Rastitel'nost' Ferganskoi doliny [Flora of the Fergana Valley]. Tashkent, Fan, 1967. 295 p. QK374.A7  
Bibliography, p. 288-293.  
Spermatophyta and Pteridophyta.
- 98810 ARRIGONI, P. V., and VANNELLI, S. *Genista aetnensis* (Raf.) D. C. in Sardinia. (It) Webbia 22(1):1-20, map. Ref. 1967. 450 W38  
English summary.
- 98811 BALLY, P. R. O. Miscellaneous notes on the flora of Tropical East Africa, including descriptions of new taxa, 33-36. Candollea 21(2): 365-373, map. 1966. 451 C16  
Includes n. spp. in *Euphorbia*, and *Caralluma*.
- 98812 BARTLEY, D. D. Pollen analysis of surface samples of vegetation from Arctic Quebec. Pollen Spores 9(1):101-105. Apr. 1967. 450 P762
- 98813 BATE-SMITH, E. C. The phenolic constituents of plants and their taxonomic significance. 2. Monocotyledons. Linn. Soc. London. J. Bot. 60 (383):325-356. Ref. Feb. 1968. 451 L64J
- 98814 BATYROVA, M. SH. Viable forms of Turkmenistan Cruciferae. (Rus) Akad. Nauk. Turkmen. SSR Izv. Ser. Biol. Nauk 3:29-32. 1967. 442.9 Ak124
- 98815 BERTELS, A. Cyperaceae in Rio Grande do Sul. (Por) Pesquisa Agropecuar. Brasil. 1: 279-286. 1966. S15.P42  
English summary.
- 98816 BOBROV, A. E. The family Osmundaceae (R. Br.) Kaulf. its taxonomy and geography. (Rus) Bot. Zhur. [Moscow] 52(11):1600-1610, map. Ref. Nov. 1967. 451 R923
- 98817 BOBROV, E. G. On the span of the genus *Trifolium* S. L. (Rus) Bot. Zhur. [Moscow] 52(11): 1593-1599. Nov. 1967. 451 R923  
English summary.
- 98818 BOIVIN, B. Notes on *Betula*. (Fr) Natur. Can. 94(2):229-231. Mar./Apr. 1967. 410 N216  
English summary.
- 98819 BOLLE, F. Flowering herbs. (Ge) Bot. Jahrbuch 86(1/4):1-19. Ref. Feb. 1, 1967. 450 En3B  
English summary.
- 98820 BONDE, E. K. *Pinus aristata* (Pinaceae) in Boulder County, Colorado: northward extension of its known Colorado range. Southwest. Natur. 12(4):474-475. Dec. 31, 1967. 409.6 So8
- 98821 BORSOS, O. Some *Rorippa* and *Veronica* species (preliminary report). (Ge) Acta Bot. 13 (1/2):1-10. 1967. 450 Ac823  
English summary.
- 98822 BORZA, A., BOSCAIU, N., and RATIU, F. Systematic and morphological studies of *Silene lachenfeldiana* Baumg. (Ge) Rev. Roum. Biol. Ser. Bot. 12(4):267-271. Ref. 1967. QK1.R4
- 98823 BOURREIL, P. The transfer of *Aristida perrieri* A. Camus to the genus *Sartidia*. Winter, taxonomic position of the new genus. (Fr) Acad. Sci. Compt. Rend. Ser. D. 265(13):904-907, map. Sept. 25, 1967. 505 P21
- 98824 BRUCHER, H. Critical consideration on the nomenclature of Argentinian wild potatoes. IX. *Solanum famatinae* Bitt. & Wittm., and those species confused with it: *S. chacoense*, *S. kurtzianum*, *S. leptophyes*, *S. puberulo-fructum*, *S. setulosistylum*, *S. sleumeri*, *S. spegazzinii*, *S. velascanum* and *S. vidaurrei*. (Ge) Zuchter. Genet. Breed. Res. 37(6):264-271. Ref. Oct. 24, 1967. 442.8 Z8  
English summary.
- 98825 CAMEL, J. P. Short note on a spontaneous station of mugho pine (*Pinus mugho* Scopoli) or of pumilio pine (*Pinus pumilio* Haenke) in the Tende Forest (Alpes-Maritimes). (Fr) Rev. Forest. Franc. 19(6):409-412, map. June 1967. 99.8 R329
- 98826 CAROLIN, R. C. *Coopernookia*: a new genus of Goodeniaceae. Linn. Soc. New S. Wales. Proc. 92(3):209-216, map. 1968. 514 Sy2
- 98827 CROIZAT, L. An introduction to the subgeneric classification of *Euphorbia* L., with stress on the South African and Malagasy species. II. Webbia 22(1):83-202, map. 1967. 450 W38



- 98828 CSESZNAK, E. Natural causes for spreading of hornbeam [Carpinus]. (Hu) Erdo 17(2):52-57. Feb.1968. 99.8 Er22  
German summary.
- 98829 CULLEN, J. Notes on the cultivated species of Glaucium and Dicranostigma [Papaveraceae]. Bailey 15(3):113-117. July/Sept. 1967. 80 B15
- 98830 DEGENER, O., and DEGENER, I. Partial review of Doty & Mueller-Dombois' "Atlas," and new taxa in Hawaiian Rubiaceae. II. Phytologia 15(1):42-52. June 1967. 450 P563  
Suggested additions to taxa list.
- 98831 DESCOINGS, B. Common names of the Vitidaceae and Leeaceae of Madagascar. (Fr) Nat. Monspelienia Ser. Bot. 18:211-216. 1967. 451 M766
- 98832 DESCOINGS, B. Rectifying memorandum concerning the nomenclature of the Cyphostemma (Vitidaceae). (Fr) Nat. Monspelienia Ser. Bot. 18:217-230. 1967. 451 M766  
Review of the literature.
- 98833 DIZERBO, A. H. Study of Viola silvestris (Lmk.) Rchb. and of Viola riviniana Rchb. ssp. riviniana in the Armorican Mountains. (Fr) Soc. Sci. Bretagne, Bull. (Sci. Math. Phys. Natur.) 41(1/2):131-139. Mar.1967. 505 R292
- 98834 DOROFEEV, V. F., and LAPTEV, YU. P. A new subspecies of emmer wheat [Triticum dicoccum azerbaijanicum]. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 5:30. May 1967. 20 V633  
English summary.
- 98835 DUCKE, A. Two new species of plants from Ceara, nominated by Jacques Huber, not yet published under the conditions established in the International Code of Botanical Nomenclature. (Por) Acad. Brasil. Cienc. An. 39(2):327-329. June 30, 1967. 516 R473A  
Copaifera cearensis and a var.
- 98836 DUPONT, P. The extent of Baccharis halimifolia between Loire and Gironde. (Fr) Soc. Sci. Bretagne, Bull. (Sci. Math. Phys. Natur.) 41(1/2):141-144. Mar.1967. 505 R292
- 98837 DWYER, J. D., and HAYDEN, M. V. The Rubiaceae of Cerro Jefe, Panama. Phytologia 15(1):54-60. June 1967. 450 P563  
Includes n. spp. in Chione, Faramea, Rondeletia, and Schradera.
- 98838 ECKARDT, T. The floral structure and development of Dysphania myriocephala Benth. (Ge) Bot. Jahrbucher 86(1/4):20-37. Ref. Feb.1, 1967. 450 En3B  
English summary.  
Taxonomy.
- 98839 EMERSON, B. H. Heath and heathers [Erica spp. and Calluna spp.] in eastern North America. I. Morris Arboretum Bull. 18(1):3-11. Ref. Mar.1967. 451 P383
- 98840 ESENOVA, KH. Critical examination of species of the Crataegus genus in the botanical gardens collections of Turkmenian SSR. (Rus) Akad. Nauk Turkm. SSR. Izv. Ser. Biol. Nauk 4:41-44. 1967. 442.9 Ak124
- 98841 FRIEDRICH, H. C. The formenkreis of Aridaria noctiflora (L.) Schw.; an example of the exaggerated description of new taxa of the Aizoaceae-Mesembryanthemoideae. (Ge) Bot. Jahrbucher 86(1/4):272-279. Feb.1, 1967. 450 En3B  
English summary.
- 98842 FRYXELL, P. A. Taxonomic notes on Australian Malvaceae. Linn. Soc. New S. Wales. Proc. 92(3):262-265. 1968. 514 Sy2
- 98843 FUKAREK, P. New stations for the heldreich pine (Pinus heldreichii Christ emend. Markgraf). (Ge) Bot. Jahrbucher 86(1/4):449-462. Ref. Feb.1, 1967. 450 En3B  
English summary.  
In the Balkans and Italy.
- 98844 GAUSSEN, H. The classification of juniper tree (Juniperus). (Fr) Acad. Sci. Compt. Rend. Ser. D, 265(14):954-957. Oct.2, 1967. 505 P21
- 98845 GLASSMAN, S. F. New species in the palm genus Syagrus Mart. Fieldiana. Bot. 31(8/10): 235-245. Apr.24, 1967. 500 C432B
- 98846 GOLDBERG, A. The genus Melochia L. (Sterculiaceae). U. S. Nat. Mus. Contrib. U. S. Nat. Herb. 34(5), 363 p. Ref., p.354-357. 1937. 450 C76  
Includes M. adenones n. sp. and M. werdermannii n. sp.
- 98847 GOPALAKRISHNAN, R., and SAMPATH, S. Taxonomic status and origin of American tetraploid species of the series Latifoliae Tateoka in the genus Oryza. Indian J. Agr. Sci. 37(6):465-475. Ref. Dec. 1967. 22 Ag831
- 98848 GREEN, E. I. Wild orchids of the northeastern states. Amer. Orchid Soc. Bull. 37(4):297-305. Ref. Apr. 1968. 80 Am329
- 98849 HALL, J. B., and JENIK, J. Observations on the West African cycad [Encephalartos barteri] in Ghana. Nigerian Field 32(2):75-81. Apr. 1967. 410 N56
- 98850 HAMET-AHTI, L. Cruciata laevipes Opiz and C. glabra [L.] Enrend. in Finland. Soc. Fauna Flora Fenn. Memo. 43:73-77. Ref. 1967. 511 H36Me
- 98851 EL-HAMDI, A., NEGM, S., and SHARAF, A. An investigation of Glinus lotoides. Qualitas Plant. Mater. Veg. 14(1/2):147-155. Jan.10, 1967. 64.8 M41  
Botanical and pharmacological study, Egypt.
- 98852 HAWKES, A. D. On Paraphalaenopsis. Phytologia 15(1):1. June 1967. 450 P563
- 98853 HENRY, A. N. A new Tylophora R. BR. (Asclepiadaceae) from south India. Indian Acad. Sci. Proc. Sect. B 65(4):161-164. Apr. 1967. 513 In25B  
Tylophora subramanii Henry n.sp.
- 98854 HOFMAN, J. The distribution of the yew according to the topography. (Cz) Ziva 15(3): 83-86, map. May 1967. 409.6 Z6
- 98855 ISHIZAKI, K. Sugi no hinshu mokuroku: sono seishitsu [List of Cryptomeria japonica varieties and their characteristics]. Saikin No Ringyo Gigitu 15, 53 p. Ref. Mar. 1968. 99.8 Sa2
- 98856 JOHNSTON, M. C. Eupatorium rothrockii and E. herbaceum (Compositae) in Texas. Southwest. Natur. 12(4):469-471. Dec.31, 1967. 409.6 So8
- 98857 JOHNSTON, M. C. Muhlenbergia pungens Thurber (Gramineae) in Texas Panhandle. Southwest. Natur. 12(4):476-477. Dec.31, 1967. 409.6 So8
- 98858 JONES, H. G. A new Schomburgkia [Orchidaceae] from the West Indies, with notes on the related species. Webbia 22(1):225-231. 1967. 450 W38  
S. rechingera.
- 98859 JOSEPH, J., and YOGANARASIMHAN, S. N. Taeniophyllum khasianum, a new species of orchid from United Khasi and Jaintia Hills, Assam. Indian Bot. Soc. J. 46(1):109-111. 1967. 450 J821
- 98860 KARPATI, Z. A new wild-growing ash tree variety; Fraxinus angustifolia Vahl. ssp. panonica Soo et Simon var. Bartoki Karp. Z. (Hu) Keszthely. Agrartud. Foiskola. Kiadv. 8(3):5-7. 1966. 19 K48
- 98861 KAWADA, A. Reminiscences of plants of southeast Asia. 1. (Ja) Agr. Asia 5(7):26-27. July 1967. 22.5 Aj5  
Description of Amorphophallus spp.
- 98862 KAWADA, A. Reminiscences of plants of southeast Asia. 3. (Ja) Agr. Asia 5(9):26-27. Sept. 1967. 22.5 Aj5  
Chiefly description of Sesbania and Hibiscus.
- 98863 KERAUDREN, M. Cucurbitaceae [Cucurbitaceae]. Paris, Museum National d'Histoire Naturelle, Laboratoire de Phanerogamie, 1966. 173 p. (Humbert, H. Flore de Madagascar et des Comores (Plantes Vasculaires), 185e Famille) 460.51 H88F
- 98864 KHOTINSKII, N. A. Forests of the far past. (Rus) Les. Khoz. 6:40-45. June 1967. 99.8 L5622  
Includes pollen studies.
- 98865 KOBYLKA, B. Heliotropium peruvianum. (Cz) Ziva 15(5):178. Sept. 1967. 409.6 Z6

- 98866 KONSTANTINOVA, A. H. The key for determining Ukrainian fescue [*Festuca L.*] by anatomical characteristics. (Ukr) Ukr. Bot. Zh. 25(1):35-42. Ref. Jan./Feb.1968. 450 J8212J English summary.
- 98867 KORNCEK, D., and MUELLER, T. Occurrence of *Galium anisophyllum* Vill. in the Swabian zura. (Ge) Baden-Württemb. Landesstelle Naturschutz Landschaftspflege. Veröffentlichungen 35:28-31. Ref. 1967. 410.9 W96
- 98868 KOYAMA, H. Taxonomic studies on the tribe Senecioneae of eastern Asia. I. Kyoto. Univ. Coll. Sci. Mem. Ser. B, 33(3):181-209, map. Ref. Mar.1967. 513 K99B
- 98869 KROPAC, Z. Collecting Orchidaceae. (Cz) Ziva 15(5):174. Sept.1967. 409.6 Z6
- 98870 KUPRIANOVA, L. A. Palynological data for the history of the Chloranthaceae. Pollen Spores 9(1):95-100. Ref. Apr.1967. 450 P762
- 98871 LANDOLT, E. Mountain lowland ecotypes of flowering plants in the region of the Swiss Alps. (Ge) Bot. Jahrbucher 86(1/4):463-480. Ref. Feb.1,1967. 450 En3B English summary.
- 98872 LAVERNE, X. The station of *Pinus mughus* Scopoli or of *Pinus pumilio* Haenke in Saint-Martin-Vesubie (Alpes-Maritimes). (Fr) Rev. Forest. Franc. 19(6):413-413. June 1967. 99.8 R329
- 98873 LEFEBVRE, C. Study of the position of populations of calamine *Armeria* in Belgium and the region of Aix-en-Chapelle compared to the alpine and maritime types of *A. maritima* [Mill.] Willd. (Fr) Belg. Soc. Roy. Bot. Bull. 100(2):213-224. Ref. 1967. 451 B41B
- 98874 LEPAGE, E. Two new entities in genus *Carex* L. and *Rubus* L. (Fr) Natur. Can. 94(2):273-275. Mar./Apr.1967. 410 N216  
*Carex paleaceoides* and *Rubus canadensis*.
- 98875 LEROY, J. F. Research on coffee, biological classification of coffee and the origin and place of *Coffea*. (Fr) Acad. Sci. Compt. Rend. Ser. D, 265(15):1043-1045. Oct.9,1967. 505 P21
- 98876 MARCHANT, C. J. Evolution in *Spartina* (Gramineae). II. Chromosomes, basic relationships and the problem of *S. x townsendii* Agg. Linn. Soc. London. J. Bot. 60(383):381-404. Ref. Feb.1968. 451 L64J Cytotaxonomy.
- 98877 MARCHANT, C. J. Evolution in *Spartina* (Gramineae). III. Species chromosome numbers and their taxonomic significance. Linn. Soc. London. J. Bot. 60(383):411-417. Ref. Feb.1968. 451 L64J  
*Spartina townsendii*.
- 98878 MELJEN, R. VAN DER. The genus *Beckmannia* Host in Netherlands. (Du) Gorteria 3(13):209-211. Nov.1,1967. 450 G68 English summary.  
*Beckmannia eruciformis* and *B. syzigachne*.
- 98879 MERXMULLER, H., and LEINS, P. The interrelationship of the Brassicaceae and the Papaveraceae. (Ge) Bot. Jahrbucher 86(1/4):113-129. Ref. Feb.1,1967. 450 En3B English summary.
- 98880 MIZUSHIMA, M. On *Malaxis monophyllos* Sw. in Japan. (Ja) J. Jap. Bot. 42(5):31-32. May 1967. 450 J8223 English summary.
- 98881 MOGGI, G., and PISACCHI, A. *Adumbratio florum aethiopicarum*. 14. Hypericaceae. *Webbia* 22(1):233-290, map. 1967. 450 W38 English summary.  
*Hypericum* and *Psorospermum*.
- 98882 MOIR, W. W. G., and HAWKES, A. D. Studies in the equitant *Oncidium*s. *Phytologia* 15(1):2-12. June 1967. 450 P563  
*Oncidium hawkesianum*, n. sp. from Cuba.
- 98883 MOLDENKE, H. N. Additional materials toward a monograph of the genus *Callicarpa*. VII. *Phytologia* 15(1):13-41. June 1967. 450 P563
- 98884 MOLDENKE, H. N. Additional notes on the genus *Avicennia*. III. *Phytologia* 15(1):71-72. June 1967. 450 P563
- 98885 MOLDENKE, H. N. Additional notes on the genus *Castelia*. II. *Phytologia* 15(1):41-42. June 1967. 450 P563
- 98886 MOLLOY, B. P. J., RUMBALL, P. J., and CUMBERLAND, G. L. B. Distribution and ecology of Australian sedge. New Zeal. Grassland Ass. Proc. Nov.14/16,1967:112-127, map. 60.19 N48  
*Carex longibrachiata*. Includes discussion.
- 98887 MORAN, R. *Echeveria*. *Pacific Discovery*. 20(5):18-23. Sept./Oct.1967. 500 P112
- 98888 MORLEY, T. Spring flora of Minnesota, including common cultivated plants. Minneapolis, Department of Botany, University of Minnesota, 1966. 283 p., map. QK168.M6  
Spermatophyta.
- 98889 MORTON, C. V. Two epiphytic Gesneriaceae of Western Mexico. *Baileya* 15(3):119-123. July/Sept.1967. 80 B15  
Includes n. spp. in *Columnnea*.
- 98890 NEAL, J. Familiar trees of Michigan. Mich. State Univ. Ext. Ext. Bull. E-616, 22 p. May 1968. 275.29 M58B
- 98891 NICOLSON, D. H. New combinations in cultivated *Aglaonema* [Araceae]. *Baileya* 15(3):124-126. July/Sept.1967. 80 B15
- 98892 OKIMURA, Y. Trees and shrubs in the Sambe College Forest. (Ja) Shimane Agr. Coll. Bull. 15(A-2):89-100, map. Jan.1967. S539.J3S5 English summary.
- 98893 PAWLOSKA, S. De positione systematica speciei *Saxifraga wahlenbergii* Ball (= *S. perdurans* Kit.). *Fragmenta Florist. Geobot.* 12(4):337-347, map. Ref. 1966. 451 P76
- 98894 PAWLOWSKI, B. *Observationes ad Thymos polonicos et nonnullos ucrainicos pertinentes*. *Fragmenta Florist. Geobot.* 12(4):387-412. Ref. 1966. 451 P76  
Taxonomy and distribution.
- 98895 PAZOUT, F. *Gymnocalcium cardenasium*. (Cz) *Ziva* 15(5):179. Sept.1967. 409.6 Z6
- 98896 PAZOUT, F. *Turbincarpus polaskii*. (Cz) *Ziva* 15(5):179. Sept.1967. 409.6 Z6
- 98897 PEREIRA, C., and HATSCHBACH, G. Nova especie de *Glechion spreng* (Labiatae) [New species of *Glechion spreng* (Labiatae)]. *Curitiba. Univ. Parana. Dep. Bot. Farmacogn. Bol. Bot.* 17, 5 p. Dec.1966. 451 C924 English summary.  
*Glechion elliptica* n. sp.
- 98898 PETRESCU, I. Relationship between some representatives of tertiary period and present flora of Romania. I. Genus *Zizyphus* Mill. (Rum) Cluj. Univ. Babes-Bolyai. Stud. Ser. Biol. 13(1):37-43, map. Ref. 1968. 442.9 C62 French summary.
- 98899 PESHKOVA, G. A. A find of *Onoclea sensibilis* L. and *Euonymus sacrosancta* Koidz. in Dauria. (Rus) Bot. Zhur. [Moscow] 53(1):93-94. Jan.1968. 451 R923
- 98900 PRISZTER, SZ. Revision of forms of *Lilium martagon* L. (Ge) *Acta Bot.* 13(1/2):175-200, map. Ref. 1967. 450 Ac823 English summary.
- 98901 RAO, R. S., KAMMATHY, R. V., and RAGHAVAN, R. S. Cytotaxonomic studies on Indian *Commelinaceae*: a review. Linn. Soc. London. J. Bot. 60(383):357-380. Feb.1968. 451 L64J
- 98902 REVEAL, J. L. A new name for a Utah *Lepidium*. *Great Basin Natur.* 27(3):177-181. Nov.30,1967. 410 G79  
*Lepidium barnebyanum*.
- 98903 ROE, K. E. Chromosome size in *Solanum* and *Cyphomandra*: taxonomic and phylogenetic implications. *Amer. Natur.* 101(919):295-297. May/June 1967. 470 Am36
- 98904 ROSS, J. H. *Acacia caffra* (Thunb.) Willd. in southern Africa. *Webbia* 22(1):203-223, map. Ref. 1967. 450 W38  
Taxonomy and distribution.



- 98905 SANTA, S. Winter identification of woody plants of the French flora. I. Deciduous plants. (Fr) Nat. Monspeiliensia Ser. Bot. 18:1-192. Ref. 1967. 451 M766
- 98906 SASTRY, A. R. K., and JOSEPH, J. A second locality for *Dicraea filifolia* Ram. et Joseph. Indian Forest. 93(12):800-814. Ref. Dec.1967. 99.8 In2
- 98907 SAXENA, H. O. New records for north and north-west India. II. Indian Forest. 93(9):657. Sept.1967. 99.8 In2  
Taxonomy of *Scleria biflora* and *Utricularia arenaria*.
- 98908 SCHREIBER, A. The genus *Oxalis* L. in South-West Africa. (Ge) Bot. Jahrbucher 86(1/4): 293-308. Ref. Feb.1,1967. 450 En3B  
English summary.
- 98909 SCHUYLER, A. E. *Scirpus hattorianus* in North America. Acad. Natur. Sci. Phila. Notulae Natur. 398:1-7. Jan.27,1967. 500 P53No
- 98910 SIEBERTZ, F. *Aconitum pyramidale* Mill at Havelange. (Fr) Natur. Mosana 19(4):90-91. Oct./Dec.1966. 473 N214
- 98911 SIPKES, C. The sweet chestnut in the Kaapse Bossen. (Du) Levende Natuur 70(5):117-119. May 1967. 410 L57
- 98912 SIPKES, C. *Viburnum lantana* L. found on the dunes. (Du) Gorteria 3(13):202-203. Nov.1, 1967. 450 G68  
English summary.
- 98913 SKVORTSOV, A. K., and GOLYSHEVA, M. D. On some structural peculiarities of leaves that are important for systematics and phylogeny of genus *Salix* L. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 5:91-97. 1967. 442.8 N22
- 98914 SLEUMER, H. The genus *Gaylussacia* H.B.K. (Ge) Bot. Jahrbucher 86(1/4):309-384. Feb.1, 1967. 450 En3B  
English summary.
- 98915 SOKOLOVSKAYA, A. P. A karyological investigation of the flora of the Koryak Territory. (Rus) Bot. Zhur. [Moscow] 53(1):99-105. Ref. Jan.1968. 451 R923  
Spermatophyta.
- 98916 SOO, R. Modern system of Angiospermae. (Ge) Acta Bot. 13(1/2):201-233. 1967. 450 Ac823  
English summary.
- 98917 STEENIS, C. G. G. J. VAN, and BRINK, R. C. B. VAN DEN. Miscellaneous botanical notes. XVI. Bot. Jahrbucher 86(1/4):385-401. Feb.1,1967. 450 En3B  
Includes n. spp. in *Pterisanthes*.
- 98918 SUZUKI, S. Taxonomical studies on the bambusaceous genus *Sasa* Makino et Shibata, III. Jap. J. Bot. 19(3):419-457. Ref. 1967. 450 J27
- 98919 TEUSCHER, H. *Ornithidium* (Maxillaria) sigmoideum. Amer. Orchid Soc. Bull. 37(4):290-292. Apr.1968. 80 Am329
- 98920 TIKHOMIROV, V. N. Conspectum of the system of the genus *Angelica* L. in the USSR flora. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 1:87-92. 1967. 442.8 N22
- 98921 VACKOVA, M. *Acer pseudoplatanus* of the smooth and white bark. (Cz) Ziva 15(3):89-90. May 1967. 409.6 Z6
- 98922 VERDCOURT, B. Corrections and additions to the "Flora of Tropical East Africa—Convolvulaceae." I. Kew. Roy. Bot. Gard. Kew Bull. 21(1):83-92. 1967. 451 K51B  
Includes n. spp. in *Merremia*, and *Ipomoea*.
- 98923 WARNOCK, B. H. *Perityle vitreomontana* B. H. Warnock (Compositae), new species. Southwest. Natur. 12(4):475-476. Dec.31,1967. 409.6 So8
- 98924 WILBUR, R. L., and DAOUD, H. S. A synopsis of the genus *Helianthemum* (Cistaceae) in Mexico and Central America. Southwest. Natur. 12(1):87-96,20, map. Apr.20,1967. 409.6 So8
- 98925 WILLIAMS, L. O. Tropical American plants. VIII. Fieldiana. Bot. 31(8/10):249-269. Apr.24,1967. 500 C432B  
Includes n. spp. in *Aspidosperma*, *Tynnanthus*, *Dacryodes*, *Crossopetalum*, *Wimmeria*, *Eriocaulon*, *Abatia*, *Cranichis*, *Symplocos*, and *Pleurothallis*.
- 98926 WUNDERLIN, R. P. A new name and combination in *Bauhinia* (Leguminosae). Phytologia 15 (1):53. June 1967. 450 P563
- 98927 YAKOVLEV, G. P. New nomenclature combinations for two species of *Baphia*. (Rus) Bot. Zhur. [Moscow] 52(11):1645. Nov.1967. 451 R923
- 98928 YAMAMOTO, M. List of plant specimens collected in the United States of America. (Ja) Shimane Agr. Coll. Bull. 15(A-1):95-99. Jan. 1967. S539.J3S5  
Spermatophyta from New York and Florida.
- 98929 ZAFFRAN, J. The discovery of *Melitella* Somn. genus on Crete. (Fr) Acad. Sci. Compt. Rend. Ser. D. 264(6):805-808, map. Feb.6,1967. 505 P21

### Pteridophytes

- 98930 BRADE, A. C. Natural hybrids of Brazilian ferns. (Ge) Bot. Jahrbucher 86(1/4):266-271. Feb.1,1967. 450 En3B  
English summary.
- 98931 BRITTON, D. M., LEGAULT, A., and RIGBY, S. J. *Pellaea atropurpurea* (L.) Link and *Pellaea glabella* Mett. in Quebec. Natur. Can. 94(6):761-763. Nov.-Dec.1967. 410 N216
- 98932 MEYER, D. E. New and rare *Asplenium* from Europe. (Ge) Deut. Bot. Ges. Ber. 80(1):28-39. Ref. 1967. 451 D48
- 98933 POIRION, L., BONO, G., and BARBERO, M. Pteridophytes of the Cote d'Azur, the Prealpes, and the maritime Alps. (Fr) Webbia 22(1):21-37. 1967. 450 W38  
English summary.
- 98934 VAN BRUGGEN, T. The Pteridophytes of South Dakota. S. Dak. Acad. Sci. Proc. 46:126-144. 1967. 500 So82

### Bryophytes

- 98935 BONNER, C. E. B., comp. Index Hepaticarum. V. Delavayella to Geothallus. Weinheim, J. Cramer, 1965. 480 p. 461.32 B64
- 98936 BONNER, C. E. B., comp. Index Hepaticarum. VI. Goebeliella to Jubula. Weinheim, J. Cramer, 1966. p.481-739. 461.32 B64
- 98937 KOPONEN, T., and OITTINEN, V. *Aloina brevirostris* [Hook et Grev.] Kindb. found in Finland. Soc. Fauna Flora Fenn. Memo. 43:5-7. Ref. 1967. 511 H36Me
- 98938 KOPONEN, T. *Eurhynchium angustirete* (Broth.) Kop. comb. n. [=E. zetterstedtii Storm.] and its distribution pattern. Soc. Fauna Flora Fenn. Memo. 43:53-59 map. Ref. 1967. 511 H36Me
- 98939 MIZUSHIMA, U. Critical notes on mosses. 5. *Entodon microthecius* Broth. and *E. compressus* C. Muell. J. Jap. Bot. 42(9):272-275. Ref. Sept.1967. 450 J8223
- 98940 REED, C. F., and ROBINSON, H. Contribution to the Bryophytes of Thailand. I. Phytologia 15 (1):61-70. Ref. June 1967. 450 P563  
Musci and Hepaticae.
- 98941 SCHUSTER, R. M. A memoir of the family Blepharostomataceae. II. *Candollea* 21(2): 241-355. 1966. 451 C16  
Includes n. spp. in *Temnoma*.

### Algae

- 98942 ARDRE, F. Observations on the structure of *Pterosiphonia* (Rhodomelaceans, Ceramiales) and their systematic connection with the *Poly-siphonia*. (Fr) Rev. Algol. 9(1):37-77. Sept. 1967. 450 R3212

- 98943 BERT, J. J. Comparative study of *Callophyllis laciniata* (Hudson) Kutzing and *Callophyllis flabellata* Crouan. (Fr) Soc. Phycol. Fr. Bull. 11:13-14. Feb. 1967. 451 S0134
- 98944 CARDINAL, A. Inventory of benthic marine algae from the Baie de Chaleur and Baie de Gaspe (Quebec). I. Pheophyceae. (Fr) Natur. Can. 94(2):233-271, map. Ref. Mar./Apr. 1967. 410 N216  
English summary.
- 98945 CELAN, M., and BAVARU, A. The *Enteromorpha linza* Linne J. Agardh from the Rumanian littoral of the Black Sea. (Fr) Rev. Roum. Biol. Ser. Bot. 12(1):23-26. Ref. 1967. QK1.R4
- 98946 CLEMENCON, H. *Harpochytrium ornithocephalum*, Clemencin n. sp. (Ge) Rev. Algol. 9(1): 33-36. Sept. 1967. 450 R3212
- 98947 DANGEARD, P. A new alga for Roscoff: the *Myriactula clandestina* crouan. (Fr) Soc. Phycol. Fr. Bull. 11:16-18. Feb. 1967. 451 S0134
- 98948 DANGEARD, P. Presence of *Stictyosiphon tortilis* (Rupr.) Reinke at Tatihou and Saint-Vaast (Cotentin). (Fr) Soc. Phycol. Fr. Bull. 11:15. Feb. 1967. 451 S0134
- 98949 DANGEARD, P. *Ulva lactuca* and *Ulva thuretii*. (Fr) Soc. Phycol. Fr. Bull. 11:11-12. Feb. 1967. 451 S0134
- 98950 EFFORD, I. E. Temporal and spatial differences in phytoplankton productivity in Marion Lake, British Columbia. Can. Fish. Res. Board J. 24(11):2283-2307, map. Ref. Nov. 1967. 442.9 C16J
- 98951 FUKUHARA, E. Studies on the taxonomy and ecology of *Porphyra* of Hokkaido and its adjacent waters. (Ja) Hokkaido Reg. Fish Res. Lab. Bull. 34:40-99, map. Ref. Mar. 1968. 414.9 H683  
English summary.
- 98952 GAST, M. K. H. The hydrobiological situation of the water in Drentse A. (Du) Levende Natuur 70(3):58-60. Mar. 1967. 410 L57  
Includes algae.
- 98953 HOFFMAN, L. R. Four new species of *Oedogonium*. Can. J. Bot. 45(4):405-412. Apr. 1967. 470 C16C
- 98954 HORTOBAGYI, T. New contributions on *Scenedesmus* species of Hungary. (Ge) Acta Bot. 13 (1/2):21-60. Ref. 1967. 450 Ac823  
English summary.  
Includes new spp.
- 98955 KALASHNIKOVA, E. P., and SOROKIN, YU. I. Primary production of phytoplankton photosynthesis in Bratsk reservoir. (Rus) Akad. Nauk SSSR. Inst. Biol. Vnutr. Vod. Tr. 13: 178-186. 1966. 442.9 Ak192
- 98956 KOGAN, S. I. The method of collecting plankton algae for their subsequent cultivation. (Rus) Bot. Zhur. [Moscow] 52(11):1640-1641. Nov. 1967. 451 R923
- 98957 KOL, E. Algological and hydrobiological studies in the Sphagnum bog of "Fekete To" near Farkasfa. I. Comparison of algae vegetation in spring and fall. (Ge) Acta Bot. 13(1/2):113-131. Ref. 1967. 450 Ac823  
English summary.
- 98958 KUZNETSOV, S. I., ROMANENKO, V. I., and KARPOVA, N. S. Number of bacteria and production of organic matter in water mass of Rybinsk reservoir in 1963 and 1964. (Rus) Akad. Nauk SSSR. Inst. Biol. Vnutr. Vod. Tr. 13:123-132. 1966. 442.9 Ak192  
Includes phytoplankton.
- 98959 LOISEAUX, S. On the systematic position of the genus *Giraudyopsis* P. Dangeard. (Fr) Rev. Gen. Bot. 74(79):389-395. Ref. Aug. 1967. 450 R326  
A cytotaxonomic study.
- 98960 MAILLARD, R. Local diatom flora from the region of Evreux. (Fr) Rev. Algol. 9(1):28-32. Sept. 1967. 450 R3212
- 98961 MAKAROVA, I. V. The origin and the formation of the recent phytoplankton of the Caspian Sea. (Rus) Bot. Zhur. [Moscow] 53(1):69-74. Ref. Jan. 1968. 451 R923  
English summary.
- 98962 NAGY-TOTH, F. Contribution to the algal flora of the Mohos peat bog. Rev. Roum. Biol. Ser. Bot. 12(1):53-67. Ref. 1967. QK1.R4
- 98963 PETERFI, L. S. On the winter algal flora occurring in pools and bogs of Salicea. Rev. Roum. Biol. Ser. Bot. 12(1):69-74. Ref. 1967. QK1.R4
- 98964 PYRINA, I. L. Primary production of phytoplankton in Ivankovo, Rybinsk and Kuibyshev reservoirs depending on various factors. (Rus) Akad. Nauk SSSR. Inst. Biol. Vnutr. Vod. Tr. 13:249-270. Ref. 1966. 442.9 Ak192
- 98965 ROMANENKO, V. I. Characteristics of microbiological processes of formation and destruction of organic matter in Rybinsk reservoir. (Rus) Akad. Nauk SSSR. Inst. Biol. Vnutr. Vod. Tr. 13:133-153, map. Ref. 1966. 442.9 Ak192  
Includes phytoplankton.
- 98966 ROMANENKO, V. I. Microbiological study of Onega Lake and Svir River reservoirs. (Rus) Akad. Nauk SSSR. Inst. Biol. Vnutr. Vod. Tr. 13:160-165, map. 1966. 442.9 Ak192  
Includes phytoplankton.
- 98967 STARMACH, K. Xanthophyceae in waters of southern Poland. (Pol) Fragmenta Florist. Geobot. 12(4):533-547. 1966. 451 P76  
English summary.
- 98968 STEFUREAC, T. I. On the taxonomic and phylogenetic value of the new genera of algae described by E. C. Teodoresco and his contribution to cryptogamy. (Fr) Rev. Algol. 9(1):11-18. Ref. Sept. 1967. 450 R3212
- 98969 TAFT, C. E., and KISHLER, W. J. Algae from Western Lake Erie. Ohio J. Sci. 68(2):80-83. Mar. 1968. 410 Oh3  
Chlorophyta and Cyanophyta.
- 98970 UMEZAKI, I. Notes on some marine algae from Japan. 2. (Ja) J. Jap. Bot. 42(9):282-288. Sept. 1967. 450 J8223
- 98971 VALET, G. A rare species and a new species of *Halimeda* in Melanesia. (Fr) Rev. Gen. Bot. 869:680-685. Oct. 1966. 450 R326
- 98972 WEBBER, E. E. Bluegreen algae from a Massachusetts salt marsh. Torrey Bot. Club. Bull. 94(2):99-106. Ref. Mar./Apr. 1967. 451 T63B  
Cyanophyta.
- 98973 WULFF, B. L., and others. Summer marine algae of the jetty at Ocean City, Maryland. Chesapeake Sci. 9(1):56-60. Ref. Mar. 1968. 409.6 C42  
E. May, T. Wulff, B. H. Robison, J. K. Lowry, and H. J. Humm, joint authors.

## Fungi (Including Lichens)

- 98974 ASAHINA, Y. Lichenological notes. 204. *Usnea dichotoma* Fries and *Usnea himalayana* Bab. J. Jap. Bot. 42(9):257-260. Sept. 1967. 450 J8223
- 98975 BILAI, V. I., and PIDOPLICHKO, M. M. Problems of theory and practice of experimental mycology. (Uk) Mikrobiol. Zhur. 29(5):383-392. 1967. 448.3 K54
- 98976 BRODIE, H. J. *Cyathus bulleri*, a hitherto undescribed fungus of the *Nidulariaceae* from the West Indies. Torrey Bot. Club. Bull. 94(2): 68-71. Mar./Apr. 1967. 451 T63B
- 98977 COOK, R. J. *Gibberella avenacea* sp. n., perfect stage of *Fusarium roseum* f. sp. *cerealis* "Avenaceum." Phytopathology 57(7):732-736. Ref. July 1967. 464.8 P56  
Pathogenicity to wheat.
- 98978 COUDERT, J., MICHEL-BRUN, J., and BATTESTI, M. R. Telluric keratinophilic micromycetes in the region of Lyons. (Fr) Soc. Linn. Lyon. Bull. Mens. 36(5):187-195. Ref. May 1967. 505 L92B
- 98979 CUMMINS, G. B. The Uredinales on Mexican Gramineae. Southwest. Natur. 12(1):70-86. Ref. Apr. 20, 1967. 409.6 S08  
Includes n. spp. in *Physopella* and *Puccinia*.



- 98980 DAVID, A. *Lenzites reichardtii* Schulz., a species new to the French flora. (Fr) Soc. Linn. Lyon. Bull. Mens. 36(4):155-163. Ref. Apr.1967. 505 L992B
- 98981 DEMOULIN, V., and LAMBINON, J. Botanical society of Liege [Societe Botanique De Liege]: mycological exposition of October 8-10, 1966. (Fr) Natur. Mosana 19(4):81-83. Oct./Dec. 1966. 473 N214
- 98982 DEMOULIN, V., and LAMBINON, J. Mycological excursion of October 23, 1966 in Campine (Gruitrode, Hechtel, Ravels). (Fr) Natur. Mosana 19(4):84. Oct./Dec.1966. 473 N214
- 98983 DOGMA, I. J. Additions to the genus *Clavulina*, Clavariaceae. Philippine Agr. 50(8):771-778. Jan.1967. 25 P542  
Includes n. sp.
- 98984 DUDKA, I. O. New systems of the order Hyphomycetales (Moniliales). (Uk) Ukr. Bot. Zh. 25(2):3-16. Ref. 1968. 450 J8212J
- 98985 ELLIOTT, M. E. *Rustroemia cuniculi*, a coprophilous species of the Sclerotiniaceae. Can. J. Bot. 45(4):521-524. Apr.1967. 470 C16C
- 98986 FIASSON, J. L. Chemotaxonomic study of fungi; carotenoids of *Sporidiobolus johnsonii* Nyland. (Fr) Acad. Sci. C. R., Ser. D, 264(24):2744-2745. June 12,1967. 505 P21
- 98987 FREY, E. Lichenological results of the research voyages of Dr. Hans Ulrich Stauffer† in central Africa (Virunga Volcano 1954/55) and South Africa—Australia—Oceania—USA 1963/64. (Ge) Bot. Jahrbucher 86(1/4):209-255, map. Ref. Feb.1,1967. 450 En3B  
English summary.  
Includes n. spp. in *Cladonia* and *Stereocaulon*.
- 98988 FURTADO, J. S. Species of *Amauroderma* Murr. with the laccate appearance of *Ganoderma* Karst. Brussels. Jard. Bot. Nat. Belg. Bull. 37(3):309-317. Ref. 451 B83B
- 98989 GARNER, J. H. B. Some notes on the study of bark fungi. Can. J. Bot. 45(4):540-541. Apr. 1967. 470 C16C  
Survey of fungi isolated from *Populus tremuloides*.
- 98990 HASKINS, R. H., and SPENCER, J. F. T. *Trichosporonoides oedocephalis* n. gen., n. sp. Can. J. Bot. 45(4):515-520. Apr.1967. 470 C16C
- 98991 HENNIG, B. Blatterpilze—Dunkelblattler [Mushrooms—dark gilled]. Jena, Fischer, 1967. 326 p. (M. Hennig. Handbuch fur Pilzfreunde, v.4) 462 M58H  
Includes colored illustrations.
- 98992 HENRY, L. K. A review of the Clavariaceae (coral fungi) of western Pennsylvania. Pittsburgh. Carnegie Mus. Ann. 39(9):125-142. Nov.14,1967. 500 P68A
- 98993 HOEHNK, W., and SPARROW, F. K. Aquatic Phycomycetes: a short communication. (Ge) Arch. Hydrobiol. 64(2):170-175. Mar.1968. 410 Ar28
- 98994 KIRILENKO, T. S. New species of dark-colored Hypomycetes. (Uk) Mikrobiol. Zhur. 29(3):195-201. Ref. 1967. 448.3 K54  
*Menispora pidoplitschkoi*, and *Trichocladium ucrainicum*, n. spp.
- 98995 LAMBINON, J. Floristic findings: *Hygrophorus metapodius* and several other mushrooms of the peat soil of Hauts-Buttes. (Fr) Natur. Mosana 19(4):89-90. Oct./Dec.1966. 473 N214
- 98996 LARSEN, M. J. *Tomentella* and related genera in North America. V. New North American records of tomentelloid fungi. Mycopathol. Mycol. Appl. 32(1):37-67. Ref. June 13,1967. 450 M994
- 98997 LENTZ, P. L. Delineations of forest fungi; several species of Deuteromycetes and a newly described *Botryobasidium*. Mycopathol. Mycol. Appl. 32(1):1-25. Ref. June 13,1967. 450 M994  
Includes n. spp. in *Tharopama*, and *Harporographum*.
- 98998 MARCHAL, A. Mycological excursion of October 16, 1966 in the region of Couvin. (Fr) Natur. Mosana 19(4):80-81. Oct./Dec.1966. 473 N214
- 98999 MISHRA, R. R. Nature of rhizosphere fungal flora of certain plants. Plant Soil 27(2):162-166. Ref. Oct.1967. 450 P696
- 99000 OKSNER, A. M. History of lichenological investigations in Ukraine. (Uk) Ukr. Bot. Zh. 24(5):74-86. Sept./Oct.1967. 450 J8212J
- 99001 PARMASIO, E. The taxonomy of fungi and their Estonian names. (Es) Eesti Loodus 3: 155-156. Mar.1968. 409.6 Ee7  
English summary.
- 99002 PIGNAL, M. C. A new species of yeast isolated from insect larvae: *Pichia stipitis*. (Fr) Soc. Linn. Lyon. Bull. Mens. 36(4):163-168. Apr.1967. 505 L992B  
English summary.  
Asilidae and Scarabaeidae larvae.
- 99003 PLISKAL, P. Fungi imperfecti living on insects. (Cz) Ziva 15(5):187. Sept.1967. 409.6 Z6
- 99004 PONNAPPA, K. M. Some interesting fungi. II. *Cercospora hygrophilae* n. sp. and *Stenella plectronia* n. sp. Indian Acad. Sci. Proc. Sect. B 67(1):31-34. Jan.1968. 513 In25B
- 99005 RAI, J. N., WADHWANI, K., and TEWARI, J. P. *Anixiella indica* spec. nov.; a new member of Neurosporaaceae from Indian soils. Can. J. Bot. 45(4):479-481. Apr.1967. 470 C16C
- 99006 REYNOLDS, D. R. New records of Philippine fungi. Philippine Agr. 50(8):784-790. Ref. Jan.1967. 25 P542  
*Labyrinthula* and *Enterobryum* spp.
- 99007 REYNOLDS, D. R., and LAYSA, F. N. D. Notes on Philippine *Pilobolus*. Philippine Agr. 50(8): 779-783. Jan.1967. 25 P542
- 99008 REYNOLDS, D. R. Taxonomic consideration. II. The Philippine *Volvariella volvacea*. Philippine Agr. 50(8):791-794. Jan.1967. 25 P542
- 99009 SCHIPPER, M. A. A. *Mucor strictus* Hagem, a psychrophilic fungus, and *Mucor falcatus* sp. n. Antonie van Leeuwenhoek J. Microbiol. Serol. 33(2):189-195. 1967. 448.8 N28A
- 99010 SVRCEK, M. *Morchellaceae* and *Helvellaceae* in the spring. (Cz) Ziva 15(3):98-100. May 1967. 409.6 Z6

## WEEDS AND POISONOUS PLANTS

- 99011 CRAFTS, A. S., and others. Seminar session on recent advances in weed research resulting from the use of nuclear and other advanced techniques. Symp. Use Isotop. Weed. Res. Proc. 1965:87-109. 1966. S589.S9  
J. Bruinsma, O. A. Leonard, B. Mitchell, P. B. Vose, W. Van Der Zweep, A. Suss, P. Slade, E. Grossbard, A. Calderbank, Y. Berlier, J. Lubenov, E. C. S. Little, P. W. Muller, A. Caldwell, H. Geissbuehler, R. C. Kirkwood, and A. Ciccarone, joint authors.
- 99012 DELVOSALLE, L. *Cirsium tuberosum* (L.) All. and several other *Cirsium* hygrophiles. (Fr) Natur. Mosana 19(4):71-73. Oct./Dec. 1966. 473 N214  
In Belgium.
- 99013 FULLER, T. C. Skeleton weed [*Chondrilla juncea*]. A serious threat to California agriculture. Calif. Dep. Agr. Bull. 55(1):20-22, 31. 1966. 2 C12M
- 99014 LITTLE, E. C. S., and others. Seminar session on current problems in weed research and possible application of nuclear techniques. Symp. Use Isotop. Weed Res. 1965:197-227. 1966. S589.S9  
D. J. Allott, H. I. Petersen, A. Bylterud, O. A. Leonard, J. Bruinsma, A. S. Crafts, J. L. Hilton, B. Mitchell, H. H. Funderburk, W. Hafferl, E. Chilwell, A. F. Ledich, A. Suss, T. H. Caldwell, E. Grossbard, R. C. Kirkwood, R. C. Ball, P. W. Muller, E. C. Levi, and W. Van Der Zweep, joint authors.
- 99015 LITTLE, E. C. S. Some weed problems of South America. PANS (Pest Articles News Sum) Sect. C Weed Contr. 13(4):291-297. Dec.1967. 79.9 G792

- 99016 OTA, T., and others. A case of poisoning caused by the plant *Phytolacca esculenta* van Houtte. (Ja) Jap. Vet. Med. Ass. J. 20(7):291-292. July 1967. 41.9 J275  
H. Shiraishi, A. Uemura, K. Tsurumi, and H. Kitamura, joint authors.
- 99017 RASIN'SH, A. P. A proper method of recording weeds. (Rus) Khim. Sel'skom Khoz. 5(5):69-73. Ref. May 1967. 385 K524
- 99018 VARTAK, V. D. Weed that threatens crops and grasslands in Maharashtra. Indian Farming 18(1):23-34. Apr. 1968. 22 In283  
Parthenium hysterophorus.
- 99019 WIESNER, K. Weeds in Beta-beet fields of the Boerde area and some other sites. (Ge) Albrecht-Thaer-Arch. 11(9):883-893. 1967. 18 AL1  
East Germany.  
English summary.
- Weeds - Biology
- 99020 ARTHUR, H. R., and LOO, S. N. An examination of *Ormosia emarginata* Benth. of Hong Kong. Australian J. Chem. 20(4):809-810. Apr. 1967. 475 Au73  
Poisonous plant.
- 99021 BACHTHALER, G. The development of field weed flora in relation to changed field culture methods. I. (Ge) Z. Acker- Pflanzenbau 127(2):149-170. Ref., p.168-170. Feb. 1968. 18 J825  
English summary.
- 99022 BARR, D. J. S., and HICKMAN, C. J. Chytrids and algae. I-II. Can. J. Bot. 45(4):423-440. Ref. Apr. 1967. 470 C16C  
*Rhizophydium sphaerocarpum* and *R. karlingii*.
- 99023 BENECKE, U. The weed potential of lodgepole pine [*Pinus contorta latifolia*]. Christchurch. Tussock Grassland Mountain Lands Inst. Rev. 13:36-43. Sept. 1967. 60.9 C46  
New Zealand.
- 99024 CHILDS, T. W., and EDGREN, J. W. Dwarf-mistletoe [*Arceuthobium campylopodum*] on Ponderosa pine [*Pinus ponderosa*] growth and trunk form. Forest Sci. 13(2):167-174. June 1967. 99.8 F7632
- 99025 COHEN, H. Weeds, pollens, and human illness. Southern Weed Conf. Proc. 21:351-355. 1968. 79.9 So8
- 99026 DEVAL, J. L. The life and death of umbrella trees (*Musanga cecropioides*). (Fr) Bois Forêts Trop. 112:31-38. Mar./Apr. 1967. 99.8 B632  
English summary.  
Invade plantations of *Aucoumea klaineana*.
- 99027 HULL, R. J. Johnsongrass life cycle—implications for improving cultural control practices. Ind. Agr. Exp. Sta. Res. Progr. Rep. 330, 5 p. Mar. 1968. 100 In2Res
- 99028 HULSENBERG, C. Light ecological experiments on the competition of two winter-wheat-varieties. (Ge) Z. Acker- Pflanzenbau 127(2):114-124. Feb. 1968. 18 J825  
English summary.  
Weed competition.
- 99029 KISELEV, A. N., and SINYUKOV, V. P. Development of field horsetail (*Equisetum arvense* L.) on treated and untreated fields. (Rus) Moscow. Timiryazev. Sel'skokhoz. Akad. Dokl. 131:273-277. 1967. 20 M857  
As weed plant control by tillage.
- 99030 KLOKE, A., and RIEBARTSCH, K. Weed seed labelling with rare earth elements. Symp. Use Isotop. Weed Res. Proc. 1965:165-171. 1966. S589.S9  
To study dormancy of *Brassica hirta* and Hairy vetch using dysprosium, europium and lanthanum tracers.  
Includes discussion.
- 99031 LAUDI, G., and ALBERTINI, A. Infrastructural researches on the plastids of parasitic plants. III. *Orobancha ramosa*. (It) Caryologia 20(3):207-216. Ref. July/Sept. 1967, pub. Feb. 28, 1968. 442.8 C25  
English summary.
- 99032 LEONARD, O. A., and HULL, R. J. Translocation of  $^{14}\text{C}$ -labelled substances and  $^{32}\text{P}$  in mistletoe-infected and uninfected conifers and dicotyledonous trees. Symp. Use Isotop. Weed Res. Proc. 1965:31-46. Ref. 1966. S589.S9
- 99033 MAGALHAES, A. C. Longevity of nut grass [*Cyperus rotundus*] tubers. (Por) Bragantia 25(2):LV-LVIII. 1966. 102.5 B73Tb  
English summary.  
Viability under varying conditions of soil humidity.
- 99034 MULCAHY, D. L. Optimal sex ratio in *Silene alba*. Heredity 22(3):411-423. Ref. Aug. 1967. 443.8 H42  
A common weed in U.S.
- 99035 OSETROV, V. D. Heterospermy in *Lolium remotum* Schrank. (Ukr) Ukr. Bot. Zh. 25(1):43-46. Jan./Feb. 1968. 450 J8212J  
English summary.
- 99036 OSETROV, V. D. On the nature of variable characteristics of *Polygonum scabrum* Moench in flax sowings of different density. (Ukr) Ukr. Bot. Zh. 25(2):25-31. Ref. 1968. 450 J8212J  
English summary.  
In U.S.S.R.
- 99037 SCHWERZEL, P. J. Seed production of some common Rhodesian weeds. PANS (Pest Articles News Sum.) Sect. C. Weed Contr. 13(3):215-217. Sept. 1967. 79.9 G792
- 99038 SEBILLOTTE, M. Competition between wheat and adventitious grasses; role of crop rotations. (Fr) Paris. Acad. Agr. France. Compt. Rend. Hebd. Seances 53(17):1374-1388. Dec. 6/13, 1967. 14 P215Bc
- 99039 SINGH, S. P. Presence of a growth inhibitor in the tubers of nutgrass (*Cyperus rotundus* L.). Indian Acad. Sci. Proc. Sect. B 67(1):18-23. Ref. Jan. 1968. 513 In25B
- 99040 SINZAR, B. C. A contribution to the study of weeds in corn stands of the southern Banat region. (Se) Arh. Poljoprivredne Nauk. 20(68):48-61. Ref. 1967. 21.5 Y9  
German summary.  
Includes ecology and control.
- 99041 SUNESON, C. A., and MARSHALL, H. G. Cold resistance in wild oats [*Avena fatua*]. Crop Sci. 7(6):667-668. Nov./Dec. 1967. 64.8 C883
- 99042 TEREKHIN, E. S., and NIKITICHEVA, Z. I. The postembryonic development of parasitic Angiospermae. I. Metamorphosis. (Rus) Bot. Zhur. [Moscow] 53(1):39-57. Ref. Jan. 1968. 451 R923  
English summary.
- 99043 WATANABE, Y., and HIROKAWA, F. Autoecological studies on the annual weeds in Tokachi. I. The seasonal periodicity in emergence. (Ja) Hokkaido Nat. Agr. Exp. Sta. Res. Bull. 91:31-40. Ref. Mar. 1967. 107.6 H68  
English summary.
- Weed Control
- 99044 BELL, A. R., and NALEWAJA, J. D. Wild oats cost more to keep than to control. N. Dak. Farm Res. 25(1):7-9. Sept./Oct. 1967. 100 N813B  
In barley, flax and wheat.
- 99045 BENTON, D. A. Weeds in rotation. Flue Cured Tobacco Farmer 3(10):20. Dec. 1966. SB273.A1F58
- 99046 BRICKEY, J. How much does one weed cost? Spreckels Sugar Beet Bull. 29(4):26. July/Aug. 1965. 66.3 Sp7
- 99047 BURNET, I. M. The problems of weed control in vines. PANS (Pest Articles News Sum.) Sect. C Weed Contr. 13(4):300-303. Dec. 1967. 79.9 G792
- 99048 CRABTREE, G. Weed control in home gardens. Oreg. Weed Contr. Handbook 1968:170-171. 275.28 Or3
- 99049 DIAS, G. R. W. Eradication of water weed [*Salvinia auriculata*] in Ceylon. World Crops 19(1):64-68. Mar. 1967. 281.8 W892



- 99050 EHLERS, M. The present status of weed control in agriculture. (Ge) Landesverband Gartenbau Landwirt. Berlin. Mitteilungsbl. 18(4): 12. Apr.1967. 85 L233
- 99051 EPLEE, R. E., and LANGSTON, M. Current status of the witchweed program. Southern Weed Conf. Proc. 21:155-157. 1968. 79.9 So8 *Striga lutea*.
- 99052 HUGHES, R. G. Intensive cereal growing — weed controls. Seed Trade Rev. 19(4):88-91. Apr.1967. 61.8 Se32
- 99053 KLUSSMANN, W. G. Aquatic weed control. Tex. Turfgrass Conf. Proc. 22:92-96. Dec.1967. 60.19 T31
- 99054 LANGE, A. Research is helping to find the answers to better weed control. Holly Agr. News 14(4):28-29. Winter 1966/1967. 66.8 H72 Sugar beets.
- 99055 LAWTON, R. M. Bush encroachment in Zambia PANS (Pest Articles News Sum.) Sect. C Weed Contr. 13(4):334-354. Dec.1967. 70.9 G792
- 99056 LITTLE, E. C. S. A name for the science of weed control. PANS (Pest Articles News Sum.) Sect. C Weed Contr. 13(3):179-183. Sept.1967. 79.9 G792
- 99057 MCCARTY, M. K., and SCIFRES, C. J. Pasture improvement through effective weed control. Nebr. Univ. Coll. Agr. Home Econ. Quart. Serving Farm Ranch Home 14(4):23-26. Winter 1968. 100 N27N
- 99058 MENDREBOE, K. J. Weed control in soybeans and white beans. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:124-126. 64.9 On83
- 99059 NEURURER, H. Up-to-date weed control in potato culture. (Ge) Forderungsdienst 15(2): 44-46. Feb.1967. 19 F75 Austria.
- 99060 PARKER, R., and DERSCHIED, L. A. Wild oats [*Avena fatua*]. S. Dak. State Univ. Ext. FS 410, 4 p. Apr.1968. 275.29 So85Fs Control.
- 99061 WARREN, R. Weed control methods. Oreg. Weed Contr. Handbook 1968:2. 275.28 Or3
- 99062 ZUPANCIC, T. A contribution to the study of control of weeds in soybean stands. (Se) Poljoprivredni Pregl. 15(7/8):273-281. Ref. July/Aug.1966. 21.5 P753 German summary. Includes effect on yields.
- Weed Control - Chemical
- 99063 ALDRED, J. R. Soil sterilants on silt loams of the Tennessee Valley region. Southern Weed Conf. Proc. 21:265-272. 1968. 79.9 So8 For weed control.
- 99064 AMOR, R. L. Follow-up sprays essential to kill blackberry plants. Dairyfarming Dig. 15(1): 25-27. Jan./Feb. 1968. 44.8 D1443 2,4,5-T, and Tordon.
- 99065 ANDERSEN, R. N., and FARUS, D. E. Herbicide mixtures for postemergence broad-leaved weed control in sugar beets. Amer. Soc. Sugar Beet Technol. J. 14(4):341-349. Jan.1967. 66.9 Am35J Mixtures of various combinations of 5-amino-4-chloro-2-phenyl-3(2H)-pyridazinone, endothal and lenacil.
- 99066 ANDERSON, W. P., RICHARDS, A. B., and WHITWORTH, J. W. Leaching of trifluralin, benefin, and nitratin in soil columns. Weed Sci. 16(2):165-168. Ref. Apr.1968. 79.8 W41
- 99067 APONTE, O., CHICCO, G., and BRAVO MEDINA, R. Preliminary trials of pre-emergence treatment for chemical control of weeds in peanuts. (Sp) Jornadas Agron. Mem., 6th Conf., v.1, paper 23,13 p. Ref. 1966. S211.J6 1966
- 99068 ARIAS R., C. A., and CHAPARRO C., L. M. Chemical control of red rice and other weeds. (Sp) Jornadas Agron. Mem., 6th Conf., v.1, paper 26,16 p. 1966. S211.J6 1966
- 99069 AUSTIN, D., ANDREWS, H., and SKOLD, L. N. Disappearance of atrazine, DCPA, diphenamid, diuron, linuron, norea, prometryne, and trifluralin from soils treated for three years. Southern Weed Conf. Proc. 21:314-323. 1968. 79.9 So8
- 99070 BACHTHALER, G. Cultivation without plow by utilization of special herbicides. (Ge) Bayer. Landwirt. Jahrbuch 44(5):516-534. Ref. 1967. 18 I24
- 99071 BACHTHALER, G., and HOYOS, F. VON. Double treatment of sugar beet stands in the weed control with combined and separate application of herbicides. (Ge) Zucker 20(11):297-301. June 1,1967. 65.8 Z82 English summary. Triallate, pyrazon and lenacil.
- 99072 BALL, R. C., and HOOPER, F. H. Use of <sup>74</sup>As-tagged sodium arsenite in a study of effects of a herbicide on pond ecology. Symp. Use of Isotop. Weed Res. Proc. 1965:149-163. 1966. S589.S9 Includes discussion.
- 99073 BAMESBERGER, W. L., and ADAMS, D. F. An atmospheric survey for aerosol and gaseous 2,4-D compounds. Advances Chem. Ser. 60:219-227. 1966. 381 Ad93
- 99074 BANDEEN, J. D. Herbicides for tomorrow's crops. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:92-95. 64.9 On83
- 99075 BARRY, J. R., HERNANDEZ, T., and ETZEL, W. W. Evaluation of herbicides for cucurbits. Southern Weed Conf. Proc. 21:171-177. 1968. 79.9 So8
- 99076 BATRA, H. N., and GODBOLE, P. N. Kill water hyacinth with weedicides. Intensive Agr. 4(11):24. Jan.1967. 22 In8 2,4-D and amitrole on Eichhornia.
- 99077 BEL'KOV, V. P. Mayweed [*Matricaria Chamomilla*] as bioindicator of herbicides in soil. (Rus) Khim. Sel'skom Khoz. 7:52-55. Ref. July 1967. 385 K524
- 99078 BERG, W. A new herbicide to control field fox-tail (*Alopecurus myosuroides* Huds.) in grain and its application to carrots. (Ge) Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz. Sonderheft 4:233-250. 1968. 464.8 Z33 English summary. Dosanex, preliminarily called Herbicide 6602, N<sup>1</sup>-(3-chloro-4-thoxyphenyl)-N, N-dimethylurea.
- 99079 BOER, H. TEN. Combatting couch grass in beets and potatoes. (Du) Neth. Dir. Landbouw Verslag Landbouwkundig Onderz. Noordelijk-Groningen. 1967:27-28. 12 N38Vg With TCA and Eptam.
- 99080 BOER, H. TEN. Combatting weeds in beets. (Du) Neth. Dir. Landbouw Verslag Landbouwkundig Onderz. Noordelijk-Groningen. 1967: 32-33. 12 N38Vg With chemicals in the Netherlands.
- 99081 BOND, C. Aquatic weed control. Oreg. Weed Contr. Handbook 1968:178-188. Ref. 275.28 Or3 Chemical.
- 99082 BOSSEL, H. Use of herbicides for furthering and securing natural reproduction of beech. (Ge) Forst- Holzwirt 22(16):332,334-335. Aug.23,1967. 99.8 F7724
- 99083 BOSWELL, T. E., SPEARS, B. R., and MERKLE, M. G. Herbicides for peanut production in Texas. Southern Weed Conf. Proc. 21: 113-116. 1968. 79.9 So8
- 99084 BOUNDS, G. I. Use of selective weed control for municipalities. Southern Weed Conf. Proc. 21:280-281. 1968. 79.9 So8 Chemical.
- 99085 BRADE, K. Control of field foxtail grass [*Alopecurus myosuroides*] and silky bentgrass [*Apera spica-venti*] in grain. (Ge) Mitt. Deut. Landwirt.-Ges. 83(22):844,846,848. May 30, 1968. 18 N39 With fluometuron.
- 99086 BRADY, H. A., and PEEVY, F. A. Dimethyl sulfoxide fails to increase hardwood kills by herbicides. Southern Weed Conf. Proc. 21:218-221. 1968. 79.9 So8 Brush control.
- 99087 BRAY, W. E. Which herbicide for sugarbeet? Arable Farmer 1(4):28-30. Feb.1967. S3.A7

- 99088 BROWN, B. E., ANDREWS, H., and SKOLD, L. N. Growing corn and soybeans on chemically killed sod. Southern Weed Conf. Proc. 21:44-50. 1968. 79.9 So8
- 99089 BROWN, R. H. Atrazine - the 1967 weed killer? Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:106-110. 64.9 On83
- 99090 BROWN, R. H. Weed control in sugar beets. Ontario Soil Crop Impr. Ass. Addresses. Proc. 1967:127-130. 64.9 On83  
With pyrazon.
- 99091 BUCHANAN, G. A., and BURNS, E. R. Control of weeds during establishment of *Sericea lespedeza* [*Lespedeza cuneata*]. Southern Weed Conf. Proc. 21:143-150. Ref. 1968. 79.9 So8  
Chemical control.
- 99092 BULLON, O. A. Experiments in the control of *Mimosa pudica* and *Commelina* SP. PANS (Pest Articles News Sum.) Sect. C Weed Contr. 13(4): 325-328. Dec.1967. 79.9 G792  
Chemical control.
- 99093 BYRNES, W. R. Site preparation and weed control. Walnut Workshop. Papers 1966:20-27. aSD397.W3W3  
As forest species in Indiana; chiefly chemical control.
- 99094 CARDENAS, H., RODRIGUEZ, S., and RAMIREZ, J. New promising herbicides in Venezuela. (Sp) Jornadas Agron. Mem., 6th Conf., v.1, paper 28,10 p. 1966. S211.J6 1966
- 99095 CARDENAS, H., BARRIOS, A., and RODRIGUEZ, S. Preliminary trial with various herbicides on legumes. (Sp) Jornadas Agron. Mem., 6th Conf., v.1, paper 31,13 p. Ref. 1966. S211.J6 1966
- 99096 CARPENTER, S. B. Brushkiller stimulates adventitious rooting of tropical ash [*Fraxinus uhdei*] in Hawaii. J. Forest. 65(6):421. June 1967. 99.8 F768  
2,4-D and 2,4,5-T.
- 99097 CARTER, G., and FURTICK, W. R. Potatoes. Oreg. Weed Contr. Handbook 1968:88-89. 275.28 Or3  
Chemical weed control.
- 99098 CHANG, S. K., and LIN, P. C. Effects of prefix on weed control in paddy field. (Ch) Taiwan Agr. Quart. 3(2):128-138. June 1967. S19.T3  
English summary.
- 99099 CHAPPELL, W. E., and others. Weed control in tobacco. Southern Weed Conf. Proc. 21:123-130. 1968. 79.9 So8  
J. L. LaPrade, F. McClaugherty, and L. Link, joint authors.  
Chemical.
- 99100 CHARVAT, K. Current achievements in the control of weeds in forest areas devastated by winds. (Cz) Les [Bratislava] 22(8):340-343. 1966. 99.9 L5632
- 99101 CHEN, J. Y. T. Infrared absorption spectra and polymeric structures of three s-triazine herbicides and their metabolites. Ass. Offic. Anal. Chem. J. 50(3):595-600. June 1967. 381 As7
- 99102 CHERRY, M. Explosion in crop chemicals. PANS (Pest Articles News Sum.) Sect. C Weed Contr. 13(3):185-189. Sept.1967. 79.9 G792  
Expansions in the sale and use of chemical weed killers.
- 99103 CHESALIN, G. A., and SPIVAK, L. SH. Effectiveness of aresin and herban applied to lupine, grown as forage plant. (Rus) Khim. Sel'skom Khoz. 6(2):29-31. 1968. 385 K524
- 99104 CLOUD, R. C. Application techniques: the key to successful chemical weed control. Southern Weed Conf. Proc. 21:246-249. 1968. 79.9 So8  
In drainage canals.
- 99105 CONDON, P. A. The toxicity of herbicides to mammals, aquatic life, soil microorganisms, beneficial insects and cultivated plants, 1950-65; a list of selected references. U. S. Natl. Agr. Libr. Libr. List 87,161 p. Apr.1968. 1.916 L612
- 99106 CORNELIUS, J., and LAYTON, J. Postemergence weed control in cotton using Dinitro (DNBP) plus MSMA plus surfactant. Southern Weed Conf. Proc. 21:51-53. 1968. 79.9 So8  
In Mississippi.
- 99107 COSTA, J. J., GHELFI, R. A., and BRENZONI, E. O. Techniques used in the application of a  $^{14}\text{C}$ -labelled herbicide. (Sp) Symp. Use Isotop. Weed Res. Proc. 1965:9-16. 1966. S589.S9  
English summary.  
Distribution of 2,4-D-2 in *Chenopodium* spp., *Datura ferox* and *Cyperus rotundus*.
- 99108 CRABTREE, G., and MARTIN, L. 1968 Oregon weed control recommendations for commercial small-fruit crops. Oreg. State Univ. Ext. FS 145,2 p. Apr.1968. 275.29 Or36  
Chemical.
- 99109 CRABTREE, G., and DUNCAN, A. A. 1968 weed control recommendations for commercial vegetable crops in Oregon. Oreg. State Univ. Ext. FS 6,rev.,2 p. Apr.1968. 275.29 Or36  
Chemical.
- 99110 CRABTREE, G., and STEBBINS, R. L. 1968 weed control recommendations for Oregon orchards. Oreg. State Univ. Ext. FS 144,2 p. Apr.1968. 275.29 Or36  
Chemicals for use on fruit and nuts.
- 99111 CRABTREE, G., and BULLOCK, R. M. Small fruits. Oreg. Weed Contr. Handbook 1968:117-129. 275.28 Or3  
Chemical weed control.
- 99112 CRABTREE, G., and GOETZE, N. Soil fumigation for weed control in vegetable plant beds, ornamental and nursery stock plantings, greenhouse soils, and turf preparation. Oreg. Weed Contr. Handbook 1968:172-173. 275.28 Or3
- 99113 CRAFTS, A. S. Relation between food and herbicide transport. Symp. Use Isotop. Weed Res. Proc. 1965:3-7. 1966. S589.S9  
Includes discussion.
- 99114 CURTIS, O. F. New herbicides and problem weeds. N. Y. State Hort. Soc. Proc. 113:259-263. 1968. 81 N484
- 99115 DALE, J. E. Response of tobacco and other crops to pyriclor. Southern Weed Conf. Proc. 21:131-132. 1968. 79.9 So8
- 99116 DALLYN, S., and others. Current potato herbicide practices in America. Potato Handbook 12:30-33. 1967. 75.8 P842P  
A. Hawkins, W. M. Iritani, R. Kunkel, H. Timm, joint authors.
- 99117 DARDING, R. L., and FREEMAN, J. F. Residual phytotoxicity of fluometuron in soils. Weed Sci. 16(2):226-229. Ref. Apr.1968. 79.8 W41  
Tests with oats grown in seven soil types in Kentucky.
- 99118 DE LA CHAPELLE, C. Six years of herbicides. Wash. State Hort. Ass. Proc. 1967:123. 81 W273  
In orchards of Washington.
- 99119 DILLER, J. French weed—a dangerous weed. (Ge) Kartoffelbau 18(3):101. Mar.1967. 75.8 K145  
Control of *Galinsoga parviflora* in potatoes with calcium cyanamide.
- 99120 DOVLATYAN, V. V., and KOSTANYAN, D. A. Synthesis of herbicides. 16. (Rus) Arm. Khim. Zh. 19(1):59-65. 1966. 385 Er42
- 99121 DOWLER, C. C., FORESTIER, W., and HERNANDEZ, R. T. The effect and persistence of herbicides applied to the soil in guava [*Psidium guajava*]. Southern Weed Conf. Proc. 21: 228-232. 1968. 79.9 So8  
Picloram, bromacil.
- 99122 DUNCAN, A., and CRABTREE, G. Vegetable crops. Oreg. Weed Contr. Handbook 1968: 92-116. 275.28 Or3  
Chemical weed control.
- 99123 E. I. DU PONT DE NEMOURS & CO. Chemical weed control in tropical crops. PANS (Pest Articles News Sum.) Sect. C. Weed Contr. 13(3): 190-193. Sept.1967. 79.9 G792
- 99124 ECKROTH, E. G. Spring work outlook, Holly Agr. News 14(4):6-7. Winter 1966/1967. 66.8 H72  
Chemical weed control in sugar beets in Rocky mountain region.



- 99125 ELLIOTT, J. G. Chemicals or cultivations for potatoes? *Arable Farmer* 1(4):30-32. Feb. 1967. S3.A7  
For weed control.
- 99126 FABER, H. Experience with the chemical weed control in forest nurseries. (Ge) *Ge-sunde Pflanzen* 19(4):74-76. Apr. 1967. 464.8 G33
- 99127 FIELDS, R. W. Broadleaf weed control in grain sorghum with Banvel (dicamba). *Southern Weed Conf. Proc.* 21:133-135. 1968. 79.9 So8
- 99128 FITCH, L., and FURTICK, W. R. Sugar beets. *Oreg. Weed Contr. Handbook* 1968:85-87. 275.28 Or3  
Chemical weed control.
- 99129 FOSTER, J., GREEN, D. H., and KALOGERIS, B. Herbicidal trials during the early growth of furrow-irrigated sugar cane, 1965, I. PANS (Pest Articles News Sum.) *Sect. C Weed Contr.* 13(3):218-219. Sept. 1967. 79.9 G792
- 99130 FOY, C. L., and others. The penetration, absorption, and translocation of herbicides. *Oreg. Agr. Exp. Sta. Tech. Bull.* 100:3-62. Ref. Oct. 1967. 100 Or3S  
J. W. Whitworth, T. J. Muzik, and H. B. Currier, joint authors.  
In plants.
- 99131 FOY, C. L. Treatment engineering requirements presented by plants. *Southern Weed Conf. Proc.* 21:20-24. 1968. 79.9 So8  
Application, mixture of herbicides, equipment.
- 99132 FRANS, R. E., FORD, R., and APPLEBERRY, M. Further studies on double treatment of cotton with preemergence herbicides. *Ark. Farm Res.* 17(2):2. Mar./Apr. 1968. 100 Ar42F
- 99133 FRANS, R. E. Some implications of early and double applications of herbicides for preemergence control in cotton. *Southern Weed Conf. Proc.* 21:75. 1968. 79.9 So8
- 99134 FREED, V. H., VERNETTI, J. B., and MONTGOMERY, M. L. The soil behavior of herbicides as influenced by their physical properties. *Oreg. Agr. Exp. Sta. Tech. Bull.* 100:107-128. Ref. Oct. 1967. 100 Or3S  
Interaction of soil physics and herbicides chemistry.
- 99135 FROEHLING, A. Late application of herbicides on sugar beet. (Ge) *Zuckerrube* 16(6): 19. Dec. 1967. 66.8 Z82
- 99136 FURTICK, W. R., and WARREN, R. Control of common weeds. *Oreg. Weed Contr. Handbook* 1968:214-232. 275.28 Or3  
Chemical.
- 99137 FURTICK, W. R. Seed flax. *Oreg. Weed Contr. Handbook* 1968:90-91. 275.28 Or3  
Chemical weed control.
- 99138 FURTICK, W. R. Selective control of weeds in field crops. *Oreg. Weed Contr. Handbook* 1968: 62-83. 275.28 Or3  
Chemical.
- 99139 FURTICK, W. R., and WARREN, R. Soil sterilants. *Oreg. Weed Contr. Handbook* 1968:233-241. 275.28 Or3  
Weed control.
- 99140 FURTICK, W. R., and WARREN, R. Weed and brush control along highways, roadways and fence lines. *Oreg. Weed Contr. Handbook* 1968: 206-209. 275.28 Or3  
Chemical.
- 99141 FURTICK, W. R., and WARREN, R. Weed control along irrigation and drainage canals. *Oreg. Weed Contr. Handbook* 1968:212-213. 275.28 Or3  
Chemical.
- 99142 GALLAGHER, J. E., COOKE, A. R., and EVANS, W. F. A variation of plastic enclosure for field-testing aquatic herbicides. *Southern Weed Conf. Proc.* 21:309-312. 1968. 79.9 So8
- 99143 GATES, D. H. Weed control on rangelands. *Oreg. Weed Contr. Handbook* 1968:203-205. 275.28 Or3  
Chemical.
- 99144 GENTNER, W. A., and BURK, L. G. Gross morphological and cytological effects of nitralin on corn roots. *Weed Sci.* 16(2):259-260. Apr. 1968. 79.8 W41
- 99145 GERISMA, T. Cleaning of ditches with chemicals. (Du) *Neth. Prov. Dir. Rijkslandbouw-voorlichting Friesland. Voorlichting Onderz. Grasland Veehouderij* 1965:86-89. 1966. SF15.N4A3  
Weed control.
- 99146 GOETZE, N. Weed control in turfgrass. *Oreg. Weed Contr. Handbook* 1968:174-177. 275.28 Or3  
Chemical.
- 99147 GOSNELL, J. M., and THOMPSON, G. D. The effects of herbicides on *Cyperus* spp. [*C. esculentus*, *C. rotundus*]. *S. Afr. Sugar Technol. Ass. Proc.* 1967:169-177. Ref. 65.9 So83
- 99148 GRAVES, C. R., AUSTIN, D., and ANDREWS, H. Effects of linuron and atrazine with sources and rates of nitrogen on selected corn varieties in the seedling stage. *Southern Weed Conf. Proc.* 21:84-91. 1968. 79.9 So8
- 99149 GREER, H. A., and SANTELMANN, P. W. Influence of environmental factors on herbicide activity in soybeans. *Southern Weed Conf. Proc.* 21:104. 1968. 79.9 So8  
Effects of moisture.
- 99150 GREER, H. A., and SANTELMANN, P. W. Weed control in soybeans. *Okl. Agr. Exp. Sta. Process. Ser.* P-584:9-10. May 1968. 100 Ok4M  
Chemical.
- 99151 GRUZDEV, G. S., and KALININ, V. A. Effect of 2,4-D mixed with atrazine on weed on corn fields. (Rus) *Khim. Sel'skom Khoz.* 5(5):31-35. Ref. May 1967. 385 K524
- 99152 GUZZELLI, R. J., and RIOS, G. P. Herbicide test on mata-barata (*Andira* sp.). (Por) *Pesquisa Agropecuar. Brasil.* 1:329-332. 1966. S15.P42  
English summary.
- 99153 HACK, H. The use of methbenzthiazuron for early control of weeds in wheat. (Ge) *Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz. Sonderheft* 4:251-255. 1968. 464.8 Z33  
English summary.  
N,N'-dimethyl-N'(2-benzthiazolyl)-urea.
- 99154 HAMAKER, J. W., YOUNGSON, C. R., and GORING, C. A. I. Prediction of the persistence and activity of Tordon herbicide in soils under field conditions. *Down Earth* 23(2):30-36. Ref. Fall 1967. 381 D75
- 99155 HAMAKER, J. W., GORING, C. A. I., and YOUNGSON, C. R. Sorption and leaching of 4-amino-3,5,6-trichloropicolinic acid in soils. *Advances Chem. Ser.* 60:23-37. 1966. 381 Ad93
- 99156 HAMMOND, J. W. Those durable oils. *Farm Chem.* 130(8):36-40. Ref. Aug. 1967. 57.8 Am3  
Herbicides.
- 99157 HANNON, C. I., and others. Herbicides used in Florida citrus groves. *Fla. State Hort. Soc. Proc.* 80:59-63. May 1, 1968. 81 F66  
C. M. Goodman, J. R. King, and H. L. Swain, joint authors.  
Application equipment.
- 99158 HARTISCH, J. On the effect of triazine on the gas metabolism of cultured plants. (Ge) *Arch. Pflanzenschutz* 3(1):49-57. Ref. 1967. 464.8 Ar2  
English summary.  
Field crops.
- 99159 HARTMAIR, V., and HOBL, H. A contribution to the problem of residual effectiveness of soil herbicides. (Ge) *Klosterneuburg. Hoheren Bundeslehr- Versuchsanst. Wein- Obstbau. Mitt.* 16(1):45-47. Jan. 1966. 105.9 K696  
English summary.  
Simazine and Gesaprim.
- 99160 HATTINGH, I. D. Weeds in maize, know them to combat them. *Farming S. Afr.* 42(5):35,37, 39. Aug. 1966. 24 So842  
Chemical and cultural control.

- 99161 HAUSER, E. W., and PARHAM, S. A. Subsurface versus incorporated vernolate for weed control in peanuts. Southern Weed Conf. Proc. 21:122. 1968. 79.9 So8
- 99162 HERNANDEZ, T. J. Use of bromacil plus trichlorobenzoic acid for control of certain broadleaved vines and weeds. Southern Weed Conf. Proc. 21:278-279. 1968. 79.9 So8
- 99163 HERNANDEZ, T. J. Use of bromacil to clean up woody plants and other vegetation on certain industrial locations. Southern Weed Conf. Proc. 21:275-277. 1968. 79.9 So8
- 99164 HERNANDEZ, T. J. Weed control spray techniques. Tex. Turfgrass Conf. Proc. 22:14-19. Dec.1967. 60.19 T31
- 99165 HERRON, J. W., DRISKILL, K., and FREEMAN, J. F. Nodding thistle [*Carduus nutans*] control with 2,4-D. Ky. Univ. Ext. Leaflet 227-B, rev., 5 p.-folder. Mar.1968. 275.29 K415Le
- 99166 HILL, R. G. Chemical weed control in bearing orchards. Mich. State Hort. Soc. Annu. Rep. 96:129-133. 1966, pub.1967. 81 M58
- 99167 HODGE, H. C., and others. Oral toxicity and metabolism of diuron (N-(3,4-dichlorophenyl)-N',N'-dimethylurea) in rats and dogs. Food Cosmet. Toxicol. 5(4):513-531. Ref. Oct.1967. 391.8 F73  
W. L. Downs, B. S. Panner, D. W. Smith, E. A. Maynard, J. W. Clayton, and R. C. Rhodes, joint authors.
- 99168 HODGKINSON, L. Maleic hydrazide. Turf Bull. 4(4):27. Summer 1967. 60.18 T846  
Control of grasses.
- 99169 HOFSTEN, C. G. VON. Spraying of weeds in sugar beets. (Sw) Betodlaren 29(1):23. 1966. 66.9 Sv22
- 99170 HOGAN, W. D. Chemical cultivation in Florida citrus groves. Southern Weed Conf. Proc. 21:159-162. 1968. 79.9 So8
- 99171 HOGAN, W. D. Diquat for aquatic weed control in Florida. Southern Weed Conf. Proc. 21:296-298. Ref. 1968. 79.9 So8
- 99172 HOLLOWAY, R. L. C. The response of potted apple and plum plants to bromacil and chlor-thiamid. East Malling Res. Sta. Annu. Rep. Apr.1968:89-91. 103 Ea7
- 99173 HOLT, K. How are we going to manage soil in fruit and berry gardens. (No) Gartneryrket 57(11):232. Mar.17,1967. 80 G1938  
Chemical weed control.
- 99174 HORNIG. Experiences with pitoran (metobromuron) to control weeds in bush beans. (Ge) Gesunde Pflanzen 20(3):46,48-50. Mar.1968. 464.8 G33
- 99175 HOROWITZ, M. Developments in weed control on sorghum in Israel. PANS (Pest Articles News Sum.) Sect. C Weed Contr. 13(4):310-315. Dec.1967. 79.9 G792  
Chemical control.
- 99176 HUSSEY, W. L. Good brush control requires good application - a technique. Southern Weed Conf. Proc. 21:253-254. 1968. 79.9 So8
- 99177 IVANOVA, Z. V. Soil cultivation and care of forest stand using chemical methods. (Rus) Les. Khoz. 2:78-79. Feb.1967. 99.8 L5622  
TCA in weed control.
- 99178 JOHNSON, R. C., and others. Results of chemical weed control on sugar beets in areas of the Utah-Idaho Sugar Company. Amer. Soc. Sugar Beet Technol. J. 14(4):324-333. Jan. 1967. 66.9 Am35J  
D. C. Kidman, A. W. Richards, J. B. Law, and D. Eves, joint authors.  
Application to sugar beets; includes Washington.
- 99179 JONGKIND, M. Chemical control of weeds in Chrysanthemum. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:140. 86 Aa4
- 99180 JONGKIND, M. Chemical control of weeds in violets. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:143. 86 Aa4
- 99181 JONGKIND, M. Granular herbicides for lilacs. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:142. 86 Aa4
- 99182 JUMAR, A., and GRUNZEL, H. Proximpham, a new herbicide. (Cz) Agrochemia [Bratislava] 8(2):46-49. 1968. 385 Ag88  
English summary.
- 99183 KACARSKI, K. Macedonian pastures, undeveloped source of natural feed for livestock. (Se) Sovremeno Zemjod. 14(2):16-17. Feb.1967. S13.S6  
Chemical control of weeds.
- 99184 KACARSKI, K. Weeds and their control. (Se) Sovremeno Zemjod. 14(4):9. Apr.1967. S13.S6  
Herbicides; application.
- 99185 KAMENOBRODSKAYA, V. G. Effect of herbicides on yields and quality of aromatic plants. (Rus) Khim. Sel'skom Khoz. 7:49-52. July 1967. 385 K524
- 99186 KARNATZ, H. The effect of prefix and Casoron on the vegetative development of fruit wood; preliminary report. (Ge) Obstbauversuchsring Alten Landes. Mitt. 22(3):141-142. Mar.1967. 85 J76
- 99187 KARNATZ, H. The present status of chemical weed control in strawberries. (Ge) Obstbauversuchsring Alten Landes. Mitt. 22(2):73-77. Feb.1967. 85 J76  
Simazine and tenoran recommended.
- 99188 KARNATZ, H. Recommendations for chemical weed control 1967. (Ge) Obstbauversuchsring Alten Landes. Mitt. 22(3):113-118. Mar.1967. 85 J76  
In fruit culture.
- 99189 KARNATZ, H. Results of a tolerance test for simazine and atrazine after a period of three years. (Ge) Obstbauversuchsring Alten Landes. Mitt. 22(2):80-82. Feb.1967. 85 J76  
Apples.
- 99190 KASASIAN, L. Herbicide research and usage in the West Indies. PANS (Pest Articles News Sum.) Sect. C Weed Contr. 13(4):282-290, map. Dec.1967. 79.9 G792
- 99191 KEARNEY, P. C. Metabolism of herbicides in soils. Advances Chem. Ser. 60:250-262. Ref. 1966. 381 Ad93
- 99192 KESAVAMURTHY, R. C. Weeds and coffee cultivation. Indian Coffee 32(1):30-31, 35. Jan.1968. 68.29 In23M
- 99193 KHUBUTIYA, R. A., and CHANTLADZE, M. N. Effectiveness of herbicides applied on tea plantations. (Rus) Khim. Sel'skom Khoz. 5(6):38-41. June 1967. 385 K524
- 99194 KIRKWOOD, R. C., ROBERTSON, M. M., and SMITH, J. E. Differential absorption as a factor influencing the selective toxicity of MCPA and MCPB. Symp. Use Isotop. Weed Res. Proc. 1965:47-57. Ref. 1966. S589.S9  
Using radioactive carbon.  
Includes discussion.
- 99195 KLASOVA, A. The effect of MCPA on the mitochondria in roots of *Vicia faba* L. (Rus) Biologia [Bratislava] 23(1):61-65. 1968. 442.8 B5265  
English summary.
- 99196 KONSTANTINOV, K. Chemical weed control in leeks. (Bu) Gradinar. Lozar. Nauk. 4(7):91-102. 1967. 87 G75  
English summary.
- 99197 KOROL', L. G. Chemical weed control on reforested terraces. (Rus) Les. Khoz. 3:75-77. Mar.1967. 99.8 L5622
- 99198 KUNZ, R. United front against weeds in beet culture! (Ge) Grune 96(12):410-414. Mar.22, 1968. 17 Sch9  
Use of Betanal in Switzerland.
- 99199 KUZIEL, F. The urea herbicides--the new weapon in combating weeds in potato cultivation. (Pol) Nowe Roln. 16(1):28-29. 20.5 N86
- 99200 LALOVA, M., and BEROVA, S. Trials with control of weeds resistant to 2,3-D growing in winter wheat crops. (Bu) Rastenievudni Nauk. 4(9):85-92. 1967. 64.8 R18  
English summary.



- 99201 LANGE, A. H., and others. Herbicides for control of annual weeds in California apples and pears. Calif. Agr. 21(3):10-12. Mar.1967. 100 C12Cag  
C. L. Elmore, G. W. Morehead, E. K. Stilwell, S. M. Mcrithcie, D. W. Chaney, J. J. Smith, L. C. Hendricks, and K. O. Roberts, joint authors.  
Use of simazine and diuron.
- 99202 LANGSTON, M. A., EPLEE, R. E., and SAND, P. F. Monitoring 2,4-D in soil. Southern Weed Conf. Proc. 21:332-334. 1968. 79.9 So8  
Striga lutea control.
- 99203 LAPCHENKOV, G. YA. Economic effectiveness of herbicides applied on proso fields. (Rus) Khim. Sel'skom Khoz. 5(5):66-67. May 1967. 385 K524
- 99204 LARSEN, R. R. The effect of aminotriazole on chloroplasts. S. Dak. Acad. Sci. Proc. 46:203-207. 1967. 500 So82  
Of peas and beans.
- 99205 LEE, G. A., DOBRENZ, A. K., and ALLEY, H. P. Preliminary investigations of the effect of Tordon and 2,4-D on leaf and root tissue of Canada thistle. Down Earth 23(2):21-23. Ref. Fall 1967. 381 D75
- 99206 LEEFE, J. S. Weed control in apple orchards. Nova Scotia Fruit Growers Ass. Annu. Rep. 103(1):87. Dec.1966. 82 N85  
Pre- and post-emergence use of herbicides.
- 99207 LEWIS, W. F. Test of soil sterilants in West Florida on sand soil. Southern Weed Conf. Proc. 21:273-274. 1968. 79.9 So8  
Herbicides.
- 99208 LEWIS, W. M. Evaluation of no-tillage corn production in different vegetative covers. Southern Weed Conf. Proc. 21:36-43. Ref. 1968. 79.9 So8  
Chemical weed control in forage corn.
- 99209 LEWIS, W. M., and WORSHAM, A. D. On-farm tests as educational tools in weed science extension. Southern Weed Conf. Proc. 21:366-367. 1968. 79.9 So8  
Equipment in North Carolina.
- 99210 LOPEZ AROCHA, M., and RINCON, D. Absorption and translocation of simazine and ametryne applied to foliage and roots; movement of these compounds in soil. (Sp) Jornadas Agron. Mem., 6th Conf., v.1, paper 29, 14 p. 1966. S211J6 1966
- 99211 LOTTGE, W. Directions for weed control in marrow cabbage with Topusyn. (Ge) Feldwirtschaft 9(3):126-128. Mar.1968. 18 W763
- 99212 LUXOVA, M., and LUX, A. The effect of different concentration of MCPA on the development of morphosis in barley spikes. (Ge) Biologia [Bratislava] 23(1):12-22. Ref. 1968. 442.8 B5265  
English summary.
- 99213 LYUBENOV, YA. Trials with chemical weed control in lentil and chickpea. (Bu) Rasteniye-vudni Nauk. 4(10):119-130. 1967. 64.8 R18  
English summary.
- 99214 MACKIEWICZ, Z., and PAWLUS, M. The application of herbicides in the mixtures of maize with papilionaceous plants in maincrop. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:151-154. 1966, pub.1967. 20.5 St4  
English summary.
- 99215 MACKIEWICZ, Z., and PAWLUS, M. The chemical destruction of weeds in fodder mixtures in secondary crop. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:154-158. 1966, pub.1967. 20.5 St4  
English summary.
- 99216 MACKIEWICZ, Z., and SONGIN, W. Results of the experiments of the herbicide application of potatoes in the years 1964-1965. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:84-88. 1966, pub.1967. 20.5 St4  
English summary.
- 99217 MALICHENKO, B. F., and others. Herbicidal characteristic of certain derivatives of dinitro-alpha, alpha, alpha-trifluoro-n- and o-toluidine. (Rus) Khim. Sel'skom Khoz. 6(3):46-48. Mar. 1968. 385 K524  
E. M. Levchenko, N. A. Malichenko, G. I. Alyab'eva, D. F. Shirankov, and L. M. Yagupol'skii, joint authors.
- 99218 MANN, R. A. Exchange of herbicide technology. Southern Weed Conf. Proc. 21:10-17. 1968. 79.9 So8  
Properties of herbicides.
- 99219 MANN, R. A., and ALLEN, P. Right-of-way maintenance data by computer. Southern Weed Conf. Proc. 21:282-286. 1968. 79.9 So8  
Chemical weed control.
- 99220 MANSSON, E. Select the right one among all the herbicides. (Sw) Hallands Lans Hushallnings-sallsk. Tidskr. 2:9-11. Mar.1967. 11 H152
- 99221 MASLANKOWSKA, L., and LYDUCH, L. Research on usefulness of Dikonert for the destruction of tufted hair grass [Deschampsia caespitosa] on peat meadows. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:261-264. 1966, pub.1967. 20.5 St4  
English summary.
- 99222 MCCULLY, W. G. Proper application; a necessity to good weed control. Southern Weed Conf. Proc. 21:18-19. 1968. 79.9 So8
- 99223 MCMURRAY, S. F. A citrus herbicide marketing approach that has eliminated costly error. Southern Weed Conf. Proc. 21:356-357. 1968. 79.9 So8
- 99224 MERKLE, M. G. The use of surfactants with herbicides. Tex. Turfgrass Conf. Proc. 22:31-32. Dec.1967. 60.19 T31
- 99225 MERRY, D. M. E. Weedicides in sedge [Carex longibrachiata] control trials. New Zeal. J. Agr. 114(4):44-45, 47. Apr.1967. 23 N48J  
Dalapon and 2,4-D.
- 99226 MIKHAILICHENKO, D. S., LEV, V. T., and FAISIEV, T. Z. Testing herbicide Cotoran on cotton crops. (Rus) Khlopkovodstvo 4:19-20. Apr.1968. 72.8 K522
- 99227 MILASHCHENKO, N. Z., and BOROVNIK, I. F. Applying simazine and atrazine in fruit gardens under conditions of the Omsk Region. (Rus) Khim. Sel'skom Khoz. 5(5):45-48. May 1967. 385 K524
- 99228 MONTGOMERY, M. L., and others. Chemicals and properties. Oreg. Weed Contr. Handbook 1968:15-61. 275.28 Or3  
L. D. Brannock, V. H. Freed, and J. M. Witt, joint authors.  
Chiefly herbicides.
- 99229 MONTGOMERY, M. L., and others. Properties of herbicides. Oreg. Weed Contr. Handbook 1968:3-12. 275.28 Or3  
L. D. Brannock, V. H. Freed, and J. M. Witt, joint authors.
- 99230 MOYLE, J. B., and SIMONSON, L. R. Control of waterweeds and algae. Minn. Sci. 23(3):14-15. Apr.1967. 100 M668  
Chemical control.
- 99231 MUKHINA, G. N. Testing herbicides in controlling hardy ryegrass [Lolium remotum] on flax. (Rus) Khim. Sel'skom Khoz. 5(5):39-40. May 1967. 385 K524
- 99232 MULLENDRE, G. P. Cotton injury and weed control as affected by dual preemergence herbicide usage in the delta of Mississippi, 1967. Southern Weed Conf. Proc. 21:358-365, map. 1968. 79.9 So83
- 99233 MULLER, P. W., and PAYOT, P. H. Fate of <sup>14</sup>C-labelled triazine herbicides in plants. Symp. Use Isotop. Weed Res. Proc. 1965: 61-70. Ref. 1966. S589.S9  
Chiefly corn, peas and beans.  
Includes discussion.
- 99234 MUSUKAEV, D. A. New chemical preparations used as arboricides. (Rus) Les. Khoz. 2:85-86. Feb.1967. 99.8 L5622
- 99235 MUZIK, T. J. The influence of environment on the response of plants to certain herbicides. Oreg. Agr. Exp. Sta. Tech. Bull. 100:63-73. Oct.1967. 100 Or3S  
Effects of temperature and light.
- 99236 NANNENGA, M. J., and TUIN, W. Combatting weeds in summer wheat. (Du) Neth. Dir. Landbouw Verslag Landbouwkundig Onderz. Noordelijk-Groningen. 1967:31-32. 12 N38Vg  
With chemicals in the Netherlands.

- 99237 NATION, H. A. Report on tree control via injection with Tordon 101 mixture. Down Earth 23(2):24-27. Ref. Fall 1967. 381 D75
- 99238 NATION, H. A. A weed control study on highway shoulders. Southern Weed Conf. Proc. 21:233-245. 1968. 79.9 So8  
Chemical.
- 99239 NEL, P. C. Pre-emergence application of 2,4-D-ester to wheat (*Triticum vulgare*). S. Afr. J. Agr. Sci. 10(1):283-284. Mar.1967. 24 Su3
- 99240 NEWTON, M. Forest weed control. Oreg. Weed Contr. Handbook 1968:191-202. 275.28 Or3  
Chemical.
- 99241 OELKE, E. A., and MORSE, M. D. Propanil and molinate for control of barnyardgrass [*Echinochloa crusgalli*] in water-seeded rice. Weed Sci. 16(2):235-239. Ref. Apr.1968. 79.8 W41
- 99242 OGLE, W. L. A current evaluation of weed control in cucurbits. Southern Weed Conf. Proc. 21:164-170. 1968. 79.9 So8  
Chemical.
- 99243 ONLEY, J. H., YIP, G., and ALDRIDGE, M. H. A metabolic study of 3-(3,4-dichlorophenyl)-1,1-dimethylurea (diuron) applied to corn seedlings. J. Agr. Food Chem. 16(3):426-433. Ref. May/June 1968. 381 J8223
- 99244 OREGON STATE UNIVERSITY. FEDERAL COOPERATIVE EXTENSION SERV. Oregon weed control handbook, April 1968; with a special section on plant-growth regulators compiled by R. Warren. Corvallis, 1968. 256 p. Ref. 275.28 Or3  
Chemical.
- 99245 OVERTON, J. R., MULLINS, J. A., and ANDREWS, H. Effects of postplant logarithmic applications of fluometuron, prometryne, diuron and norea applied after preplant applications of trifluralin and nitratin on cotton. Southern Weed Conf. Proc. 21:76-83. 1968. 79.9 So8
- 99246 PALMER, R. D., REEVES, B. G., and MERKLE, M. G. Fall application of trifluralin and nitratin for cotton and soil residues. Southern Weed Conf. Proc. 21:67-74. 1968. 79.9 So8
- 99247 PATE, D. A., and FUNDERBURK, H. H. Absorption, translocation and metabolism of  $^{14}\text{C}$ -labelled dichlobenil. Symp. Use Isotop. Weed Res. Proc. 1965:17-26. Ref. 1966. S589.S9  
In *Alternanthera philoxeroides*, beans and fungi.  
Includes discussion.
- 99248 PEEVY, F. A. Injecting undiluted 2,4-D amine for control of bottom-land hardwoods. Southern Weed Conf. Proc. 21:223-227. 1968. 79.9 So8
- 99249 PETERSEN, D. P. Invert emulsion application adjuvants. Southern Weed Conf. Proc. 21:256. 1968. 79.9 So8
- 99250 PETERSEN, H. I. Translocation of  $^{14}\text{C}$ -labelled 2,4-D in cereals. Symp. Use Isotop. Weed Res. Proc. 1965:27-30. 1966. S589.S9  
Barley and oats.
- 99251 PETROVIC, S. Use of herbicides in the weed control of sugar beet stands. (Se) Sovremeno Zemjod. 13(7):17-18. July 1966. S13.S6
- 99252 PETZOLDT, K. Results with Phenmedipham (Betanal) in French sugar beets. (Ge) Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzen-schutz. Sonderheft 4:221-225. 1968. 464.8 Z33  
English summary.
- 99253 PHUNG-NHU-HUNG, S. Effects of 3-amino-1,2,4-triazole on leaf metabolism in *Oryza sativa* L. (Fr) Physiol. Veg. 5(2):155-205. Ref. Apr./June 1967. 450 P5623  
English summary.  
Effects of amitrole on photosynthesis and respiration.
- 99254 PLUQUET, H. The use of "Gramoxone" in forest nursery. (Ge) Sozialistische Forstwirtschaft. 17(6):184-186. June 1967. 99.8 W143  
Weed control.
- 99255 POPE, J. D., COX, W. S., and GRZENDA, A. R. Determination of Silvex and its low volatile esters in water and muds. Advances Chem. Ser. 60:200-206. 1966. 381 Ad93  
Herbicides.
- 99256 POPOVA, ZH. V., and VOEVODIN, A. V. Effect of herbicides on yields and quality of table beets. (Rus) Khim. Sel'skom Khoz. 7:45-48. July 1967. 385 K524
- 99257 RAO, K. N., and MURTY, M. S. Control of *Ipomoea reptans* Poir with herbicides in Andhra Pradesh. Andhra Agr. J. 14(3):90-93. 1967. 34.2 An4  
In drainage canals.
- 99258 REED, R. R., and CALAHAN, J. S. Herbicidal characteristics of several coded compounds under furrow irrigation in a semi-arid climate. Southern Weed Conf. Proc. 21:207-209. 1968. 79.9 So8  
*Amaranthus retroflexus*, *Tribulus terrestris*, *Salsola kali*.
- 99259 RIES, S. K. Will pesticides become known as "protein builders?" Farm Chem. 131(6):94,96. June 1968. 57.8 Am3  
Effect of simazine and other pesticides on plants.
- 99260 RINCON, D. Translocation of 2,4-D, MH, and CMU, marked with carbon-14, in peanut, tomato, and rice plants. (Sp) Jornadas Agron. Mem., 6th Conf., v.1, paper 27,38 p. Ref. 1966. S211.J6 1966
- 99261 ROBSON, T. O. Accurate aerial application of dalapon to drainage ditches in Britain. Down Earth 23(2):12-14. Fall 1967. 381 D75
- 99262 ROBSON, T. O. A list of herbicides used for aquatic weed control. PANS (Pest Articles News Sum.) Sect. C Weed Contr. 13(3):204-206. Sept.1967. 79.9 G792
- 99263 ROEDIGER, K. J. What effect the chemical cleaning has on the growth of cultures? (Ge) Frost-Holzwerk 23(5):82-84. Mar.8,1968. 99.8 F7724  
Herbicides effects on trees.
- 99264 ROSEN, J. D. The photolysis of diphenamid. Bull. Environ. Contamination Toxicol. 2(6):349-354. Nov./Dec.1967. RA1270.P35A1
- 99265 RUD, O. E. The performance of preplant and early postemergence treatment combinations for weed control in peanuts. Southern Weed Conf. Proc. 21:117-121. 1968. 79.9 So8
- 99266 RUTLEDGE, A. D., and SWINGLE, H. D. Residual effects of herbicides commonly used in vegetable production on fall-seeded cover crops. Southern Weed Conf. Proc. 21:214-217. Ref. 1968. 79.9 So8
- 99267 SABUROVA, P. V., and PETUNOVA, A. A. Herbicide use in the U.S.S.R. PANS (Pest Articles News Sum.) Sect C, Weed Contr. 14(2):119-131. June 1968. 79.9 C792  
Partial translation of the Russian work, The use of herbicides in agriculture.
- 99268 SALLEE, W. R. Weed control in seedling alfalfa. Calif. Agr. 21(4):14-16. Apr.1967. 100 C12Cag
- 99269 SANTELMANN, P. W., GREER, H. A. L., and SIX, I. L. Herbicide phytotoxicity as affected by time and depth of soil incorporation. Southern Weed Conf. Proc. 21:325-329. 1968. 79.9 So8
- 99270 SCHMIDT, H. Developing tendency toward chemical control of broad-leaved weeds in the beet culture. (Ge) Lohnunternehmen Land-Forstwirtschaft. 23(3):70-72. 1968. 58.8 D81  
Betanal and Pyramin.
- 99271 SCHOLZ, B. Weed control in potatoes. (Ge) Kartoffelbau 18(3):78,80. Mar.1967. 75.8 K145  
With herbicides.
- 99272 SCHUBERT, O. E., CHILDS, W. H., and MILLER, S. S. Effect of planavin on the growth and development of Midway strawberry mother and daughter plants. W. Va. Acad. Sci. Proc. 39:181-185. 1967. 500 W52



- 99273 SCUDDER, W. T. Weed control in spinach on the organic soils of Central Florida. Southern Weed Conf. Proc. 21:194-199. 1968. 79.9 So8  
Chemical.
- 99274 SETHOFER, N., and NOVAKOVA, V. The effect and results of field tests with the herbicide gramoxone during 1965-1966. (Cz) Agrochemia [Bratislava] 7(10):316-320. Oct. 1967. 385 Ag88  
English summary.  
Field crops weed control.
- 99275 SHCHERBAKOV, S. E. Herbicides for chemical weeding of mint. (Uk) Visn. Sil's'kohospod. Nauk. 1:66-67. Jan. 1967. 20 V82  
Russian summary.  
TCA and dichloral urea applied on Mentha.
- 99276 SHEAR, G. M. Effect of sunlight on small grain kill by paraquat and atrazine combinations. Southern Weed Conf. Proc. 21:137-141. 1968. 79.9 So8  
Rye, wheat, and barley used as cover crop for sod seeding of corn.
- 99277 SHELDRICK, R. D. The effect of spraying diquat in full sunlight or in darkness. PANS (Pest Articles News Sum.) Sect. C Weed Contr. 13(4):316-319. Dec. 1967. 79.9 G792
- 99278 SHEPHERD, C. G., and others. Soybean plant abnormalities associated with certain preemergence applied herbicides. Southern Weed Conf. Proc. 21:105. 1968. 79.9 So8  
D. R. Melville, J. G. Marshall, and L. W. Sloane, joint authors.
- 99279 SHOGAM, S. M., and others. Granulated herbicides applied on water systems. (Rus) Khim. Sel'skom Khoz. 7:40-44. Ref. July 1967. 385 K524  
L. D. Stonov, G. P. Sannikov, E. I. Kusnirovich, and K. P. Gubareva, joint authors.  
Control of Phragmites communis, Typha latifolia, and Glycyrrhiza maxima on irrigation canals.
- 99280 SJTSMÅ, R. Aspects of weed control in grass seed production. (Du) Neth. Dir. Landbouw. Landbouwvoorlichting 24(12):450-458. Dec. 1967. 12 N383M  
Chemical control.
- 99281 SKROCH, W. A. The effect of herbicides on young peach trees. Southern Weed Conf. Proc. 21:163. 1968. 79.9 So8
- 99282 SLADE, P. Possible appearance of degradation products of paraquat in crops. Symp. Use Isotop. Weed. Res. Proc. 1965:113-123. 1966. S589.S9  
Vegetables.  
Includes discussion.
- 99283 SLOANE, L. W., THOMAS, C. H., and SHEPHERD, C. G. Herbicidal oil and flame cultivation as recommended post emergence weed control techniques in soybeans. Southern Weed Conf. Proc. 21:100-103. 1968. 79.9 So8
- 99284 SMIRNOV, B. M., and DEMIDENKO, E. Z. Effect of herbicides on weed and sugar beet yields under conditions of irrigation. (Rus) Khim. Sel'skom Khoz. 5(6):35-38. June 1967. 385 K524
- 99285 SOBOLEVA, D. A., and MAKAROVA, S. V. Acylation as method of determining meturin [N-phenyl-N-oxy-N-methylurea]. (Rus) Khim. Sel'skom Khoz. 6(2):44-45. 1968. 385 K524  
Herbicide.
- 99286 SOKOLOV, V. S. Effectiveness of simazine applied against weed on corn fields. (Rus) Khim. Sel'skom Khoz. 5(5):67-68. May 1967. 385 K524
- 99287 SOLYMOSY, S. L. Results of the investigation of the growth regulator Amchem 66-329. Southern Weed Conf. Proc. 21:292-295. 1968. 79.9 So8  
Alligatorweed as test plant for possible use as herbicide.
- 99288 SOUTHERN WEED CONFERENCE. Proceedings, twenty-first annual meeting, January 1968. n.p., 1968. 410 p. 79.9 So8  
Chemical control of weeds.
- 99289 SPIRIDONOV, YU. YA., and YAKOVLEV, A. I. Penetration and rate of detoxication of herbicides under conditions of humid subtropics. (Rus) Khim. Sel'skom Khoz. 5(6):31-35. Ref. June 1967. 385 K524  
Tested on corn and mandarin oranges.
- 99290 STALDER, L., and BARBEN, E. Problems of chemical weed control in grape culture. (Ge) Schweiz. Z. Obst- Weinbau 103(7):238-243. Apr. 1, 1967. 80 Sch9
- 99291 STEBBINS, R. Orchards. Oreg. Weed Contr. Handbook 1968:130-132. 275.28 Or3  
Chemical weed control.
- 99292 STEELE, B. A guide to the recent bibliography of weed control in groundnuts. PANS (Pest Articles News Sum.) Sect. C. Weed Contr. 13(3):194-199. Ref. Sept. 1967. 79.9 G792  
Chemical weed control is discussed.
- 99293 SUBER, G. F. Programming weed control on the Apalachicola Northern Railroad. Southern Weed Conf. Proc. 21:257-258. 1968. 79.9 So8  
In Florida.
- 99294 SWANSON, C. R. Recent research on the fate of herbicides in crop plants. Symp. Use Isotop. Weed Res. Proc. 1965:135-146. Ref. 1966. S589.S9  
Vegetables.  
Includes discussion.
- 99295 SYMPOSIUM ON THE USE OF ISOTOPES IN WEED RESEARCH, VIENNA, 1965. Isotopes in weed research. Proceedings. Vienna, International Atomic Energy Agency, 1966. 237 p. Ref. (Proceedings series) S589.S9  
Organized jointly by International Atomic Energy Agency and Food and Agriculture Organization of the United Nations.  
Includes herbicide research.
- 99296 TALBERT, R. E. Evaluation of herbicides for Southern greens. Southern Weed Conf. Proc. 21:187-193. 1968. 79.9 So8  
Brassica.
- 99297 TAYLORSON, R. B. Some effects of herbicides on biochemical constituents of tomato plants. Amer. Soc. Hort. Sci. Proc. 89:539-543. Dec. 1966. 81 So12
- 99298 THAKUR, R. N., and others. Effects of Stam F-34, Agroxone - 3 [sodium salt of MCPA] and Spontox [sodium salt of 2,4-D and ester of 2,4,5-T] with and without cultural practices on the control of rice weeds. Madras Agr. J. 54(8):415-420. Ref. Aug. 1967. 22 M262  
S. Nezamuddin, K. N. Agarwal, N. N. Sharma, and M. Akhtar, joint authors.
- 99299 TICKNOR, R. Ornamental and nursery crops. Oreg. Weed Contr. Handbook 1968:133-140. 275.28 Or3  
Chemical weed control.
- 99300 TICKNOR, R. L. Tolerance of nursery plants to herbicides. Oreg. Weed Contr. Handbook 1968:141-156. 275.28 Or3  
Ornamentals.
- 99301 TINGEY, D. C., ERICKSON, L. C., and CORDS, H. P. The influence of soils, moisture, and fertility on the response of plants to foliar-applied herbicides. Oreg. Agr. Exp. Sta. Tech. Bull. 100:75-88. Ref. Oct. 1967. 100 Or3S  
Tests with Cirsium arvense, Convolvulus arvensis and Phytalis longifolia.
- 99302 TUIN, W. Clean drainage ditches in the polder "Het Witte Lam." (Du) Neth. Dir. Landbouw Verslag Landbouwkundig Onderz. Noordelijk-Groningen. 1967:45-46. 12 N38Vg  
Control of aquatic weeds with diuron.
- 99303 TUIN, W. Combatting mouse foxtail in winter wheat. (Du) Neth. Dir. Landbouw Verslag Landbouwkundig Onderz. Noordelijk-Groningen. 1967:29-30. 12 N38Vg  
Alopecurus myosuroides control with chemicals in the Netherlands.
- 99304 TUIN, W. Combatting weeds in potatoes for the table. (Du) Neth. Dir. Landbouw Verslag Landbouwkundig Onderz. Noordelijk-Groningen. 1967:33-35. 12 N38Vg  
With chemicals in the Netherlands.

- 99305 U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. 3 leaves mean poison ivy. U. S. D. A. PA-839, folder. Feb. 1968. 1 Ag84Pro  
Chemical control of Toxicodendron radicans.
- 99306 UBRIZSY, G. New trends and results in chemical weed control. (Hu) Kertesz. Szoleszeti Kiaskola. Kiadv. 3(1):381-358. 1966. SB13.K4
- 99307 ULINICI, A. Chemical control of weeds in sunflower stands. (Rum) Probl. Agr. [Bucharest] 20(3):38-48. Ref. Mar. 1968. 21 R862  
English summary.
- 99308 THE USE of chemical herbicides in forestry, today and in the future. Pulp Pap. Mag. Can. 69(6):98-99, 101. Mar. 15, 1968. 302.8 P96
- 99309 VAN VALIN, C. C. Persistence of 2,6-dichlorobenzonitrile in aquatic environments. Advances Chem. Ser. 60:271-279. 1966. 381 Ad93
- 99310 VASIL'EV, D. S., and YAROSLAVSKAYA, P. N. Testing prometryne against weed on soybeans, castorbeans, mustard and coriander. (Rus) Khim. Sel'skom Khoz. 5(5):36-39. May 1967. 385 K524
- 99311 VEGA O., N. G. Herbicide tests with sugarcane. (Sp) Jornadas Agron. Mem., 6th Conf., v.1, paper 20, 21 p. Ref. 1966. S211.J6 1966
- 99312 VETTER, A., and VOLKER, W. Is it possible to omit all hoeing work when cultivating sugar beets? (Ge) Zucker 20(5):93-98. Feb. 15, 1967. 65.8 Z82  
English summary.  
Chiefly in relation to weed control with herbicides as a substitute.
- 99313 VOINOV, M. I. Results of investigating application of prometryne in controlling weeds on beets, peas and carrots. (Rus) Khim. Sel'skom Khoz. 5(6):44-45. June 1967. 385 K524
- 99314 VOSTRAL, H. J., and others. Enide Dinitro, E. C. on peanuts. Southern Weed Conf. Proc. 21:106-112. 1968. 79.9 So8  
W. H. Hogan, E. L. Holifield, H. R. Keyser, and J. F. Niedbalski, joint authors.  
A formula based on diphenamid and DNBP.
- 99315 WAGLE, R. F., and BAKER, L. O. Plant variation and herbicides. Oreg. Agr. Exp. Sta. Tech. Bull. 100:89-106. Ref. Oct. 1967. 100 Or3S  
As factors in genetic selection.
- 99316 WARREN, R. Industrial weed control. Oreg. Weed Contr. Handbook 1968:210-211. 275.28 Or3  
Chemical.
- 99317 WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Herbicide evaluation sheet. Wash. State Univ. Ext. E. M. 2897, 1 p. Feb. 1968. 275.29 W27Mi
- 99318 WATERS, W. E. Tolerance of Lilium longiflorum Georgia to several herbicides. A Southern Weed Conf. Proc. 21:210-213. 1968. 79.9 So8
- 99319 WEILER. The control of corn weeds with calcium cyanamides, especially with gesaprim. (Ge) Gesunde Pflanzen 19(6):118-120. June 1967. 464.8 G33
- 99320 WELDON, L. W., DERIGO, H. T., and BLACKBURN, R. D. Control of alligatorweed [Alternanthera philoxeroides] with dichlobenil. A Southern Weed Conf. Proc. 21:287-291. Ref. 1968. 79.9 So8
- 99321 WENTZEL, R. Vegetation management in Florida's drainage system—the sales, the service and the savings. Southern Weed Conf. Proc. 21:250-252. 1968. 79.9 So8  
Chemical weed control.
- 99322 WHITNEY, J. D. Costs of weed grass control methods for young, nonbearing citrus trees. Sunshine State Agr. Res. Rep. [Fla. Sta.] 12(6):12-14. Nov. 1967. 100 F66Su  
Chemical and cultural.
- 99323 WHITWORTH, J. W., and TOLMAN, K. Tissue culture valuation of herbicides for brush control. Southern Weed Conf. Proc. 21:349-350. 1968. 79.9 So8  
Convolvulus arvensis and Prosopis juliflora as test weeds.
- 99324 WIESE, A. F., GIBSON, J., and LAVAKE, D. Controlling large field bindweed infestations with repeated applications of Tordon. Down Earth 23(2):2, 37-39. Fall 1967. 381 D75
- 99325 WIESE, A. F., and HUDSPETH, E. B. Effects of DSMA and MSMA [Monosodium acid methanearsonate] on cotton yield and arsenic content of cottonseed. Tex. Agr. Exp. Sta. MP-877, 4 p. Mar. 1968. 100 T31M
- 99326 WILEY, D. Farmers versus weeds [Echinochloa crusgalli, Amaranthus retroflexus, Chenopodium album]. Holly Agr. News 14(4):4-5. Winter 1966/1967. 66.8 H72  
Chemical control in California sugar beets.
- 99327 WORSHAM, A. D., and SMALL, H. G. Soybean weed control on-farm tests in North Carolina in 1967. Southern Weed Conf. Proc. 21:92-99. 1968. 79.9 So8  
Chemical.
- 99328 WUNDERLICH, W. E. Application techniques; aquatic plant control in Louisiana. Southern Weed Conf. Proc. 21:300-303. 1968. 79.9 So8
- 99329 YEE, W. Papaya herbicide clearance. Hawaii. Univ. Ext. Misc. Publ. 49:15-17. Feb. 1968. S544.3 H3H3
- 99330 YOUNGSON, C. R., and others. Factors influencing the decomposition of Tordon herbicide in soils. Down Earth 23(2):3-11. Ref. Fall 1967. 381 D75  
C. A. I. Goring, R. W. Meikle, H. H. Scott, and J. D. Griffith, joint authors.
- 99331 ZANDSTRA, L. L., and COOKE, D. A. Susceptibility of grasses to diallate and triallate. Forage Notes [Ottawa] 13(1):41-42. Spring 1967. 60.8 F742
- 99332 ZIEGLER, H., and VOGT, I. On the elimination of C14-Flurenol by guttation. (Ge) Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz. Sonderheft 4:115-117. 1968. 464.8 Z33  
English summary.  
Tests with Avena sativa.
- 99333 ZIJLSTRA, J. New pesticides. (Du) Neth. Provinc. Dir. Rijkslandbouwvoorlichting Friesland, Voorlichting Onderz. 1966:68-70. SB183.N4A3  
Insecticides and herbicides.
- 99334 ZIJLSTRA, J. Problem weeds. (Du) Neth. Provinc. Dir. Rijkslandbouwvoorlichting Friesland, Voorlichting Onderz. 1966:64-67. SB183.N4A3  
Chemical control of couchgrass, common coltsfoot, and foxtail grass.
- 99335 ZUR, M., DOR, Z., and APT, J. Diuron as a post-emergence weed killer in cotton. Israel J. Agr. Res. 17(3):173-174. July 1967. 107 J552

## Weed Control - Cultural, Biological

- 99336 ARIAS R., C., and CHAPARRO C., L. M. Beating as an agronomical practice for control of red rice and other weeds. (Sp) Jornadas Agron. Mem., 6th Conf., v.1, paper 24, 4 p. 1966. S211.J6 1966
- 99337 BENNETT, F. D. Notes on the possibility of biological control of the water-hyacinth, Eichhornia crassipes. PANS (Pest Articles News Sum.) Sect. C Weed Contr. 13(4):304-309. Ref. Dec. 1967. 79.9 G792
- 99338 BUTLER, J. M., FERGUSON, F. F., and BERRIOS-DURAN, L. A. Significance of animal control of aquatic weeds. Southern Weed Conf. Proc. 21:304-308. Ref. 1968. 79.9 So8
- 99339 HULL, J. Small fruit weed control cultural practices and harvest mechanization. Mich. State Hort. Soc. Annu. Rep. 96:85-94. 1966, pub. 1967. 81 M58  
Strawberries, raspberries, and grapes.



- 99340 PLHAK, F. The effect of quackgrass [*Elytrigia repens* L. Desv.] on succeeding plants. *Plant Soil* 27(2):273-284. Ref. Oct.1967. 450 P696  
Research on cultural weed control for sugar beets.
- 99341 RAWAT, R. R., and DHAMDHERE, S. V. A preliminary study on the insect fauna feeding on *Launoe* sp., an obnoxious weed, at Iehore with special reference to *Lixocleonus incanus* Mshe. *Madras Agr. J.* 54(7):357-361. Ref. July 1967. 22 M262  
India.
- 99342 SIMMONDS, F. J. Possibilities of biological control of bracken *Pteridium aquilinum* (L.) Kuhn (Polypodiaceae). *PANS (Pest Articles News Sum.) Sect. C. Weed Contr.* 13(3):200-203. Sept.1967. 79.9 G792
- 99343 TRETYAKOV, N. N., and others. Importance of interrow cultivation of row crops in the non-chernozem zone. (Rus) *Vestnik Sel'skokhoz. Nauk. [Moscow]* 5:25-29. May 1967. 20 V633  
M. I. Voinov, V. A. Konnov, V. I. Smirnova, and M. Z. Panovskaya, joint authors.  
English summary.  
Refers to weed control on corn fields.
- 99344 TUIN, W. Combatting wild oats on several farms simultaneously. (Du) *Neth. Dir. Landbouw Verslag Landbouwkundig Onders. Noordelijk-Groningen.* 1967:24-27. 12 N38Vg  
Cultural and chemical control in the Netherlands.
- 99345 VAN STRAATEN, N. J. Weed control. *Farming S. Afr.* 42(5):42-45. Aug.1966. 24 So842  
Using cultural practices and equipment.
- 99346 WHATMAN, A. Sheep control ring fern on steep country. *New Zeal. J. Agr.* 114(5):20-21. May 1967. 23 N48J
- 99347 WIESNER, K. The influence of weed-harrowing on the weed-controlling effect and phytotoxicity of several herbicides for Beta-beet. (Ge) *Albrecht-Thaer-Arch.* 11(9):895-907. Ref. 1967. 18 AL1
- 99348 WILCKE, E. Weed control in fruit culture - side effects on the soil fauna. (Ge) *Z. Pflanzenkrankh. (Pflanzenpathol.) Pflanzenschutz. Sonderheft* 4:163-167. 1968. 464.8 Z33  
English summary.  
Of tillage, various mulches, and Domatol.
- 99349 DVORAK, B. From the activity of the Pedological Laboratory [Laborator Pudoznalstvi] at Bratislava. (Cz) *Prague. Vyzk. Ustav Zemed. Vestn.* 13(7):336-339. 1966. 19.5 C333





## SOILS AND FERTILIZERS

## SOIL SCIENCE

- 99350 SASAKI, S., and TANIGUCHI, S. A method for making a monolith of soil profiles. (Ja) *Pedologist* 11(1):109-114. June 1967. 56.8 P344

## Soil Physics

- 99351 AKATSUKA, K., and KONNO, T. Studies of "Densimetric fractionation" on up-land soils. (Ja) *Hokkaido Nat. Agr. Exp. Sta. Res. Bull.* 91:47-52. Mar.1967. 107.6 H68  
English summary.
- 99352 ARIPOV, E. A., and others. Saponification of polyacrylonitrile with alkali solutions in soft conditions. 7 p. Transl. 16889  
M. A. Sarukhanov, S. Z. Zainutdinov, and K. S. Akhmedov, joint authors.  
Used as soil conditioner.  
Translation from *Uzbekskii Khimicheskii Zhurnal*, No. 2, 1965.
- 99353 BABIKOV, B. V. Oxygen content in underground waters of peat soils. (Rus) *Les. Khoz.* 2:22. Feb.1967. 99.8 L5622
- 99354 BAC, S., and KOZMIŃSKI, C. Intensity and duration of frost in relation to soil surface and methods of measurement. (Pol) *Stettin. Wyssza Szkola Roln. Zeszyty Nauk.* 25:15-20. 1966, pub.1967. 20.5 St4  
German summary.
- 99355 BAHR. The use of lysimeters for clarification of the rise of vaporous moisture from ground water. (Ge) *Bayer. Landwirt. Jahrbuch* 44 (spec.no.3):264-267. 1967. 18 L24
- 99356 BELZ, D. T. G. Investigation of subsidence at Utiku. *Soil Water* 4(1):19-22. Sept.1967. 56.8 So323
- 99357 BENECKE, P. On the results and importance of pF measurement for the evaluation of drainability. (Ge) *Bayer. Landwirt. Jahrbuch* 44 (spec.no.3):208-213. 1967. 18 L24  
Of soils.
- 99358 BENZ, L. C., and others. Soil water translocation in a high water table area. *Water Resources Res.* 4(1):95-101. Ref. Feb.1968. 292.8 W295  
W. O. Willis, F. M. Sandoval, and R. H. Mickelson, joint authors.
- 99359 BORCHERT, H. Preliminary investigation with multitensiometers on a mole drained surface. (Ge) *Bayer. Landwirt. Jahrbuch* 44(spec.no.3):214-222. 1967. 18 L24
- 99360 BOROWIEC, S., and PAWLUS, M. Comparison of the water supply dynamics under succeeding crop and winter rye with stubble planting following. (Pol) *Stettin. Wyssza Szkola Roln. Zeszyty Nauk.* 25:41-43. 1966, pub.1967. 20.5 St4  
German summary.
- 99361 BOROWIEC, S., and PAWLUS, M. Influence of stubble planting on soil moisture. (Pol) *Stettin. Wyssza Szkola Roln. Zeszyty Nauk.* 25:38-40. 1966, pub.1967. 20.5 St4  
German summary.
- 99362 BOROWIEC, S. Moisture dynamics of various soil types in the years 1964-1965. (Pol) *Stettin. Wyssza Szkola Roln. Zeszyty Nauk.* 25:33-38. 1966, pub.1967. 20.5 St4  
German summary.
- 99363 BOROWIEC, S., and PAWLUS, M. Soil moisture formation under winter grain and winter catch crops. (Pol) *Stettin. Wyssza Szkola Roln. Zeszyty Nauk.* 25:44-47. 1966, pub.1967. 20.5 St4  
German summary.
- 99364 BOYANOV, P., and others. Water and air relationship in leached cinnamonic soils in Bulgaria. (Bu) *Pochvozn. Agrokhim.* 2(5):21-28. 1967. S590.P6  
V. Tatarova-Krusteva, S. Koleva, D. Simeonov, E. Tanov, D. Yandov, joint authors.  
English summary.
- 99365 BRINK, N. Infiltration of silage effluent in soil. (Sw) *Grundforbattering* 2(20):73-75. 1967. 54.8 G92
- 99366 BURIC, D., and STOJSIC, M. Water conditions of the first underground level in sandy soils of the Subotica-Horgos area and their importance for the grape culture. (Se) *Novi Sad. Poljopr. Fak. Letop. Naucnih Rad.* 10:93-113. 1966. 106.6 N85  
English summary.
- 99367 BYRNE, G. F., DRUMMOND, J. E., and ROSE, C. W. A sensor for water flux in soil. "Point Source" instrument. *Water Resources Res.* 3(4):1073-1078. Ref. Fourth Q.1967. 292.8 W295
- 99368 CANARACHE, A., DUMITRIU, R., and MOTOC, E. Relationships between infiltration rate, hydraulic conductivity, moisture deficit and other soil characteristics. (Rum) *Bucharest. Inst. Cent. Cercet. Agr. Sect. Pedol. An.* 34:29-61. Ref. 1966, pub.1967. 21 R86A  
English summary.
- 99369 CARY, J. W. Experimental measurements of soil-moisture hysteresis and entrapped air. *Soil Sci.* 104(3):174-180. Ref. Sept.1967. 56.8 So3
- 99370 CERVENKA, L., MOCIK, A., and CERVENKOVA, J. Influence of the exchangeable cations on the angle of wetting. (Cz) *Pol'nohospodarstvo* 14(3):176-184. 1968. 19.5 P752  
English summary.  
Soils.
- 99371 CHIANG, Y. C. Test on the distribution of precipitation and soil moisture content under various stands. (Ch) *J. Agr. Forest.* 15:153-157. Oct.1966. 22.5 J823  
English summary.
- 99372 CROMER, R. N., and VINES, R. G. Soil temperatures under a burning windrow. *Australian Forest Res.* 2(2):29-34. 1966. 99.8 Au76
- 99373 CZERATZKI, W. Correlation between the factors associated with soil moisture in sandy soils in the irrigation area of the Luneburg Heath. (Ge) *Bayer. Landwirt. Jahrbuch* 44 (spec.no.3):201-202. 1967. 18 L24
- 99374 DOERRE, R. The good soil structure. (Ge) *Mitt. Deut. Landwirt.-Ges.* 82(49):1622-1624. Dec.7,1967. 18 N39
- 99375 DROST, W., and others. Point dilution methods of investigating ground water flow by means of radioisotopes. *Water Resources Res.* 4(1):125-146. Ref. Feb.1968. 292.8 W295  
D. Klotz, A. Koch, H. Moser, F. Neumaier, and W. Rauert, joint authors.
- 99376 FERGUSON, M. H. Soil amendments. *Tex. Turfgrass Conf. Proc.* 22:57-58. Dec.1967. 60.19 T31
- 99377 FORD, H. W. How sulfides sorbed on peat moss contributed to a soil permeability problem. *Sunshine State Agr. Res. Rep. [Fla. Sta.]* 13(2):14-15. Mar.1968. 100 F66Su
- 99378 FORDHAM, H. C. Soil amendments related to turf. *Turf Bull.* 4(4):26,28. Summer 1967. 60.18 T846
- 99379 FRANCOTTE, C. The soil compaction in our plantations. (Fr) *Fruit Belg.* 35(312):283-285. Aug.1967. 80 F9493
- 99380 FRITTON, D. D., KIRKHAM, D., and SHAW, R. H. Soil water and chloride redistribution under various evaporation potentials. *Soil Sci. Soc. Amer. Proc.* 31(5):599-603. Ref. Sept./Oct.1967. 56.9 So3
- 99381 GAETKE, C. R. On the problem of qualitative estimation of soil density. (Ge) *Albrecht-Thaer-Arch.* 11(12):1131-1140. 1967. 18 AL1  
English summary.
- 99382 GALEVA, V., and KITPOV, A. Use of polymers in growing of tobacco seedlings. (Bu) *Bulg. Tyutyun* 7:31-34. 1967. 69.8 B872  
As soil conditioners.

- 99383 GOTTLICH, K., and MENGE, L. Water-binding intensity and course of soil moisture of some part-peat, part-mineral and moor soils. (Ge) Bayer. Landwirt. Jahrbuch 44(spec.no.3):233. 1967. 18 L24
- 99384 GREENLAND, D. E., and OWENS, I. F. An analysis of rainfall and soil moisture characteristics in the Chilton Valley, Cass. J. Hydrol. 6(2):80-88. Ref. 1967. 292.8 J822
- 99385 GROHMANN, F., OLIVEIRA, J. B. DE, and QUEIROZ, J. P. DE. Influence of fertilizers on the characteristics of the aggregates of the "chapadao" series. (Por) Bragantia 25(1):263-275. Ref. 1966. 102.5 B73Tb  
English summary.
- 99386 GUPTA, G. C., and DUTTA, A. K. Water stability of aggregates in a heated black cotton soil. Soil Sci. 104(3):210-216. Ref. Sept. 1967. 56.8 So3
- 99387 HANKS, R. J., GARDNER, H. R., and FAIRBOURN, M. L. Evaporation of water from soils as influenced by drying with wind or radiation. Soil Sci. Soc. Amer. Proc. 31(5):593-598. Ref. Sept./Oct. 1967. 56.9 So3
- 99388 HARTGE, K. H. Results of tensiometer measurements. (Ge) Bayer. Landwirt. Jahrbuch 44 (spec.no.3):203-207. 1967. 18 L24  
Soils.
- 99389 HELBIG, W. Possible applications and results of gamma radiation in soil density measurement. (Ge) Albrecht-Thaer-Arch. 11(12):1117-1130. Ref. 1967. 18 AL1
- 99390 HIDDING, A. P. Some provisional results of clay cover soil improvement on behalf of fruit growing. (Du) Neth. Dir. Tuinbouw Mededel. 30(12):479-483. Dec. 1967. 86 N384  
English summary, p.505-506.
- 99391 HOFMANN, E. The leaching of water and nutrients in three different types of soil according to lysimeter measurements at the Weihenstephan Institute of Agricultural Chemistry. (Ge) Bayer. Landwirt. Jahrbuch 44(spec.no.3):258-263. 1967. 18 L24
- 99392 HSU, S. C., WANG, S. T., and LIN, T. H. Effects of soil conditioners on Taiwan soils. I. Effects of zeolite on physico-chemical properties of soils. (Ch) Taiwan Agr. Res. J. 16(1):50-57. Ref. Mar. 1967. 22.5 Ag823  
English summary.
- 99393 IL'IN, I. P. Soil compaction as related to vegetative and field experiments. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 5:93-99. May 1967. 20 V633  
English summary.
- 99394 JACKSON, R. J. The effect of slope, aspect and albedo on potential evapotranspiration from hillslopes and catchments. J. Hydrol. 6(2):60-69. 1967. 292.8 J822
- 99395 JAKOBSEN, B. Soil compaction by traffic. (Da) Tidsskr. Landokon. 154(9):469-476. 1967. 11 T43  
The effect of heavy farming equipment.
- 99396 JENSEN, J. The physicochemical qualities of soil colloids. (Da) Tidsskr. Landokon. 154(9):443-455. 1967. 11 T43
- 99397 KISER, C. F. Aerification of tees and greens. Tex. Turfgrass Conf. Proc. 22:67-68. Dec. 1967. 60.19 T31  
Aeration of turf.
- 99398 KITANI, O. Stress-strain relationships for soil with variable lateral strain. Mie Univ. Fac. Agr. Bull. 36:71-114. Ref. Dec. 1967. 107.6 T78
- 99399 KOHLER, M. A., and PARMELE, L. H. Generalized estimates of free-water evaporation. Water Resources Res. 3(4):997-1005. Ref. Fourth Q. 1967. 292.8 W295
- 99400 KOITZSCH, R. Determination of heat conductivity and water content in the soil by heating thin cylindrical measuring devices buried in the soil. (Ge) Albrecht-Thaer-Arch. 11(12):1091-1103. Ref. 1967. 18 AL1  
English summary.
- 99401 KOLLOQUIUM UBER FRAGEN DES BODENWASSERHAUSHALTS, 3, MUNICH, 1966. [Papers of the Colloquium on Problems of Soil Moisture]. (Ge) Bayer. Landwirt. Jahrbuch 44 (spec.no.3):302 p. 1967. 18 L24  
Includes working session of the Deutsche Bodenkundliche Gesellschaft.
- 99402 KORVEN, H. C., and PELTON, W. L. Advection in southwest Saskatchewan. Can. Agr. Eng. 9(2):88-90, 124. Ref. July 1967. 58.8 C164
- 99403 KRASNOSHCHIEKOV, N. V., and KUTS, V. F. A soil sampler. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 5:109-111. May 1967. 20 V633  
English summary.
- 99404 KRISTENSEN, K. J. Soil structure, soil air and soil temperature. (Da) Tidsskr. Landokon. 154(9):456-468. 1967. 11 T43
- 99405 KUZMENKO, I. T. The structure alteration of the soddy meadow soils in the Moskva River flood-plain while being ploughed. (Rus) Moscow Univ. Vestnik Ser. 6 Biol. Pochvoved. 1:115-123. Jan./Feb. 1967. 442.9 M854
- 99406 KUZNETSOV, M. S. The influence of mutual cohesion of soil grains on antierosion stability of light Chestnut soils of Ergeni. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 4:117-123. 1967. 442.8 N22
- 99407 LAKSHMINARAYANA, A., and REDDI, G. H. S. A note on the reliability of soil moisture estimation by drying with burning alcohol. Andhra Agr. J. 14(1):27-28. 1967. 34.2 An4
- 99408 LANGNER, C. Methodology of pF determination. (Ge) Bayer. Landwirt. Jahrbuch 44(spec.no.3):181-183. 1967. 18 L24
- 99409 LEENHEER, L. DE, BOODT, M. DE, and ROBERECHTS, E. Correlation between crop yields in a toposequence of the Belgian loess loam landscape and the soil water economy during the years 1964 and 1965. Bayer. Landwirt. Jahrbuch 44(spec.no.3):112-129. 1967. 18 L24  
Determination of soil moisture available and not available to plants, plant evapotranspiration, and integration of soil physical factors and climatological conditions.
- 99410 LINDNER, H., and ZSCHAAGE, F. The horizontal probe - a new device for continuous measurement of the penetration resistance of the soil. (Ge) Albrecht-Thaer-Arch. 11(9):827-834. Ref. 1967. 18 AL1  
English summary.
- 99411 LINDNER, H. The shear strength of soil and its relation to texture, density, and distribution of pore volumes, and soil moisture. (Ge) Albrecht-Thaer-Arch. 11(12):1141-1147. Ref. 1967. 18 AL1  
English summary.
- 99412 MEDINA, H. P., and GROHMANN, F. Water availability in some soils covered with cerrado. (Por) Bragantia 25(1):65-75. Ref. 1966. 102.5 B73Tb  
English summary.
- 99413 MISONO, S., and KAWAJRI, M. Study of the three-phase structure of soils. 1. Three-phase structure under field conditions. (Ja) Tokyo. Nat. Inst. Agr. Sci. Bull. Ser. B (Soils Fert.) 18:49-128. Ref. Jan. 1967. 56.9 C432  
English summary.
- 99414 MOGENSEN, V. O. Soil temperature. (Da) Horticultura 21(7):111-118. Ref. July 1967. 80 H7825
- 99415 MOTA, F. S. DA, and GOEDERT, C. O. The potential evapotranspiration of the different climatic regions of Rio Grande do Sul. (Por) Pesquisa Agropecuar. Brasil. 1:155-163. 1966. S15.P42  
English summary.
- 99416 MOTOC, E., and BURT, M. Contributions to the establishment of some differentiation indexes for physical properties on the profile of the zonal soils from southern Romania. (Rum) Bucharest. Inst. Cent. Cercet. Agr. Sect. Pedol. An. 34:101-110. 1966, pub. 1967. 21 R86A  
English summary.



- 99417 MOUREAUX, C., and FAUCK, R. Influence of a temporary moisture excess on some West African soils. (Fr) France Office Rech. Sci. Tech. Outre-Mer Cah. O.R.S.T.O.M. Pedol. 5(1):103-113. 1967. 56.9 F84  
English summary.  
In Senegal.
- 99418 MUSTONEN, S. E., and MCGUINNESS, J. L. Lysimeter and watershed evapotranspiration. Water Resources Res. 3(4):989-996. Ref. Fourth Q.1967. 292.8 W295
- 99419 NAGATA, N. On a cylinder-method for estimating shear strength of soils in the paddy field. (Ja) Mie Univ. Fac. Agr. Bull. 36:1-11, Dec.1967. 107.6 T78  
English summary.
- 99420 NESMELOVA, E. I. Features of the development of heat exchange of active soil layer in Eastern Siberia. (Rus) Moscow. Univ. Vestnik Ser. 5, Geogr. 4:83-90. July/Aug.1967. 331.9 M85
- 99421 NJOS, A. The relationship of climate, soil, and machinery. (No) Norsk Landbruk. 26(2):16-18. Jan.1968. 11 N8122
- 99422 OBREJANU, G., and others. Investigations on the types of water regime in some Romanian soils. (Rum) Bucharest. Inst. Cent. Cercet. Agr. Sect. Pedol. An. 34:63-78. 1966, pub.1967. 21 R86A  
E. Motoc, R. Dumitriu, A. Canarache, A. Arfire, C. Bacsis, S. Dackesian, and L. Reichbuch, joint authors.  
English summary.
- 99423 OBREJANU, G., and others. Soil moisture properties of the alluvial soils from the Olt-Siret sector. (Rum) Bucharest. Inst. Cent. Cercet. Agr. Sect. Pedol. An. 34:13-28. 1966, pub.1967. 21 R86A  
A. Canarache, E. Motoc, and R. Dumitriu, joint authors.  
English summary.
- 99424 OH, J. S., and IM, J. N. Studies on the physical characteristics of the Korean soils. I. Studies on particle size affecting the water holding capacity. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 10(3):1-8. Ref. Sept. 1967. 22.5 K843  
English summary.
- 99425 OLIVEIRA, J. B. DE, GROHMANN, F., and QUEIROZ, J. B. DE. Aggregate characteristics of a Yellow-Red Podzolic of the Experiment Station of Monte Alegre do Sul. (Por) Bragantia 25(2):445-455. Ref. 1966. 102.5 B73Tb  
English summary.
- 99426 OLIVEIRA, L. B. DE, and MARTINS, A. M. C. M. Fifteen-atmosphere percentage and permanent wilting percentage in some soils of northeast Brasil. (Por) Pesquisa Agropecuar. Brasil. 1:91-95. 1966. S15.P42  
English summary.
- 99427 ORTOLANI, A. A., CAMARGO, A. P. DE, and NOVA, N. A. V. Correlation between ten day values of potential evapotranspiration calculated by Penman's and Thornthwaite's methods and data of evapotranspirometers at Ribeirao Preto. (Por) Bragantia 25(2):LXV-LXVIII. 1966. 102.5 B73Tb  
English summary.
- 99428 PHILIP, J. R. Dead-end pore volume and diffusion measurements. Soil Sci. Soc. Amer. Proc. 31(5):711-712. Sept./Oct.1967. 56.9 So3  
Reply by R. D. Jackson and A. Klute.
- 99429 PINTO M., R. Effect of phosphorus on the physical and physico-chemical properties of soils. (Sp) Jornadas Agron. Mem., 6th Conf., v.2, paper 7, 41 p. Ref., p.39-41. 1966. S211.J6 1966
- 99430 PRIHAR, S. S., and SANDHU, B. S. Studies on immersion method of soil moisture determination. Punjab Agr. Univ. J. Res. 4(2):157-161. June 1967. S19.P8
- 99431 QUEIROZ, J. P. DE., GROHMANN, F., and OLIVEIRA, J. B. DE. Analytical characteristics of the aggregates of the terra roxa soil (latossolo roxo) and massape (podzolic yellow red ortho) soil. (Por) Bragantia 25(2):457-476. Ref. 1966. 102.5 B73Tb  
English summary.
- 99432 QUEIROZ, J. P. DE, OLIVEIRA, J. B. DE, and GROHMANN, F. Characteristics of the structural conditions of a Red-Yellow Podzolic soil at the experimental station of "Monte Alegre do Sul." (Por) Bragantia 25(1):117-128. Ref. 1966. 102.5 B73Tb  
English summary.
- 99433 RAJAGOPAL, A. The relationship of soil water with soil moisture constants. Madras Agr. J. 54(9):470-475. Ref. Sept.1967. 22 M262
- 99434 RALCHEV, A. Relative friction of soil to ploughing in leached Solonchitzas and Gray-Forrest soil types. (Bu) Pochvozn. Agrokhim. 2(5):35-44. 1967. S590.P6  
In Bulgaria.
- 99435 RID, H. Relation between coarse structure and soil moisture. (Ge) Bayer. Landwirt. Jahrbuch 44(spec.no.3):187-193. 1967. 18 L24
- 99436 RYBINA, V. V. Change in the capillary lift of liquid in the sand in relation to the ability of wetting. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 1:121-124. 1967. 442.8 N22
- 99437 SANCHEZ, C., PEREZ, A., and CARVALLO, J. L. Humidity retention curves of disturbed and undisturbed samples in three different textural groups. (Sp) Jornadas Agron. Mem., 6th Conf., v.2, paper 11, 17 p. Ref. 1966. S211.J6 1966  
Soils.
- 99438 SANKTJOHANSER, L. Observations on soil moisture in the Flysch district in Bavaria. (Ge) Bayer. Landwirt. Jahrbuch 44(spec.no.3): 149. 1967. 18 L24
- 99439 SATO, T. Introduction of large machines and physics of mineral soil. (Ja) Nogyo Gijutsu 21(1):38-39. Jan.1966. 22.5 N6829
- 99440 SATOH, I. Studies on some peculiar environmental factors relates to cultivation in sand dune field. Tottori Univ. Fac. Agr. J. 5(1):1-41. Ref. Mar.1967. 107.6 T643  
Chiefly study of physical properties of the soil.
- 99441 SAXENA, G. K., HAMMOND, L. C., and LUNDY, H. W. Response of several vegetable crops to underground asphalt moisture barrier in Lakeland fine sand. Fla. State Hort. Soc. Proc. 80: 211-217. May 1, 1968. 81 F66
- 99442 SCHEURMANN, O. The influence of natural channel compaction on the ground water stand. (Ge) Bayer. Landwirt. Jahrbuch 44(spec.no.3): 239-240. 1967. 18 L24
- 99443 SCHREIBER, H. A. Digital computer program for particle-size distribution and textural classification of soils. Soil Sci. 104(3):225-226. Sept.1967. 56.8 So3
- 99444 SESHAGIRI RAO, T., and KRISHNA RAO, D. V. Effect of leaching with salt solutions of different concentrations and varying Ca:Na ratios on the absorption of sodium by "chalka" and "regur" soils. Andhra Agr. J. 14(4):113-126. Ref. 1967. 34.2 An4  
Sandy loam and clay soils in India.
- 99445 SEYBERTH, M. The tensions and forces operating on soil moisture. (Ge) Bayer. Landwirt. Jahrbuch 44(spec.no.3):176-180. 1967. 18 L24
- 99446 SIEGENTHALER, C. Infiltration and surface runoff on meadows on the pre-alpine area. (Ge) Bayer. Landwirt. Jahrbuch 44(spec.no.3): 274-278. 1967. 18 L24
- 99447 SOANE, B. D. Dual energy gamma-ray transmission for coincident measurement of water content and dry bulk density of soil. Nature 214(5094):1273-1274. June 17, 1967. 472 N21

- 99448 STOJANOV, B. Taking soil samples for agro-chemical analysis. (Se) *Sovremeno Zemjod.* 13(7):7. July 1966. S13.S6
- 99449 SUSS, A., and SCHURMANN, G. Experiences in the measurement of soil thickness and moisture with the aid of probing. (Ge) *Bayer. Landwirt. Jahrbuch* 44(spec.no.3):160-172. 1967. 18 L24  
Use of neutrons and gamma rays.
- 99450 SYKES, D. J., and LOOMIS, W. E. Plant and soil factors in permanent wilting percentages and field capacity storage. *Soil Sci.* 104(3):163-173. Ref. Sept.1967. 56.8 So3
- 99451 SYMPOSIUM ON MODERN INFILTRATION THEORY IN HYDROLOGIC ANALYSIS. [Papers]. *Amer. Soc. Agr. Eng. Trans. ASAE* 10(3):378-410. 290.9 Am32T  
Introduction by R. N. Fenzl and G. R. Amerman.
- 99452 TRANDAFIRESCU, T., and SAVU, I. Preliminary investigations on the fixation of drifting sands by using the synthetic product Aracet S.F. (Rum) *Bucharest. Inst. Cent. Cercet. Agr. Sect. Pedol. An.* 34:79-89. 1966, pub. 1967. 21 R86A  
English summary.
- 99453 VACHAUD, G. Determination of the hydraulic conductivity of unsaturated soils from an analysis of transient flow data. *Water Resources Res.* 3(3):697-705. Ref. 1967. 292.8 W295
- 99454 VAN NOORT, G. How do tensiometers fit into citrus production? *S. Afr. Citrus J.* 406:6-7, 9,11,13. Oct.1967. 80 C495  
Measurement of soil moisture in connection to irrigation.
- 99455 VRIES, D. A. DE. Thermal properties of soils. In *Wijk, W. R. van, ed. Physics of plant environment*, ed.2, p.210-235. 1966. S589.W5 1966
- 99456 WENDLING, U. Comments on the calibration of neutron moisture meters. (Ge) *Albrecht-Thaer-Arch.* 11(12):1105-1116. Ref. 1967. 18 AL1  
English summary.
- 99457 WENDT, C. W., and RUNKLES, J. R. A study of evaporation suppressants under greenhouse conditions. II. *Tex. Agr. Exp. Sta. Progr. Rep.* PR-2542, 13 p. May 15, 1968. 100 T31P  
Oils used to retain soil moisture.
- 99458 WHITE, J. W., and MASTALERZ, J. W. Soil moisture as related to "container capacity." *Amer. Soc. Hort. Sci. Proc.* 89:758-765. Ref. Dec.1966. 81 So12
- 99459 WIANT, H. V. Influence of moisture content on "soil respiration." *J. Forest.* 65(12):902-903. Dec.1967. 99.8 F768  
Moisture content and carbon dioxide production relation in forest soils.
- 99460 WIJK, W. R. VAN, and VRIES, D. A. DE. The atmosphere and the soil. In *Wijk, W. R. van, ed. Physics of plant environment*, ed.2, p.17-61. 1966. S589.W5 1966  
Physical characteristics.
- 99461 WIJK, W. R. VAN. General temperature variations in a homogeneous soil. In *his Physics of plant environment*, ed.2, p.144-170. 1966. S589.W5 1966
- 99462 WIJK, W. R. VAN. Introduction, the physical method. In *his Physics of plant environment*, ed.2, p.1-16. 1966. S589.W5 1966  
Soils.
- 99463 WIJK, W. R. VAN, and VRIES, D. A. DE. Periodic temperature variations in a homogeneous soil. In *Wijk, W. R. van, ed. Physics of plant environment*, ed.2, p.102-143. 1966. S589.W5 1966
- 99464 WIJK, W. R. VAN, and DERKSEN, W. J. Sinusoidal temperature variation in a layered soil. In *Wijk, W. R. van, ed. Physics of plant environment*, ed.2, p.171-209. 1966. S589.W5 1966
- 99465 WILL, G. M., and STONE, E. L. Pumice soils as a medium for tree growth. I. Moisture storage capacity. *New Zeal. J. Forest.* 12(2):189-199. Ref. 1967. 99.8 C162
- 99466 WOLKEWITZ, H. The fissure picture method — as a basis for evaluating the formation of permeability structure. (Ge) *Bayer. Landwirt. Jahrbuch* 44(spec.no.3):173-175. 1967. 18 L24  
In relation to the differential effect of sodium and calcium ions.
- 99467 ZAIKIN, V. P. Effect of soil packing upon the structure of forest steppe soils. (Rus) *Nauch. Dokl. Vyssh. Shk. Biol. Nauk.* 2:127-130. 1967. 442.8 N22

### Soil Chemistry and Mineralogy

- 99468 ADERIKHIN, P. G., and KOPAIEVA, M. T. Manganese content in the soils of central Chernozem regions. (Rus) *Nauch. Dokl. Vyssh. Shk. Biol. Nauk.* 1(37):125-129. 1967. 442.8 N22
- 99469 AVILAN ROUIRA, J., and CANIZALES, R. Report on the examination of the soils of Guara Island in the Orinico Delta. (Sp) *Jornadas Agron. Mem., 6th Conf., v.2, paper* 14, 30 p., map. 1966. S211.J6 1966  
Soil analysis.
- 99470 BACHLER, W. Comparison of methods for determination of exchangeable calcium in soils. (Ge) *Bodenkultur* 19(1):16-22. Feb.1968. 19 B635  
English summary.
- 99471 BAKER, D. E., and HALL, J. K. Measurements of phosphorus availability in acid soils of Pennsylvania. *Soil Sci. Soc. Amer. Proc.* 31(5):662-667. Ref. Sept./Oct.1967. 56.9 So3
- 99472 BARBALIS, P. D., and BEINARE, A. YA. Correlation between data on phosphorus and potassium content in soils obtained by different methods. (Rus) *Khim. Sel'skom Khoz.* 7:71-74. July 1967. 385 K524
- 99473 BASTISSE, E. M. Fertilizer phosphorus at various soil depths. (Fr) *Paris Acad. Agr. France Compt. Rend. Hebd. Seances* 53(15):1152-1157. Nov.1967. 14 P215Bc
- 99474 BASTISSE, E. M. On the migration of arsenic in nature. (Fr) *Acad. Vet. France. Bull.* 40(5):261-265. May 1967. 41.9 R24  
Chiefly in soils and water.
- 99475 BEKHAR, A. The clay minerals in soil fertility. (Bu) *Pochvozn. Agrokhim.* 2(5):31-34. 1967. S590.P6  
In Bulgaria.
- 99476 BERESTETSKII, O. A. Causes of toxicity of some soils of Polesye. (Rus) *Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf.* 1967:467-471. S651.Z5  
Fungi and herbicides.
- 99477 BETTS, A. V. Separation of relatively large quantities of minerals and soil grains in heavy liquids by means of the centrifuge. *S. Afr. J. Agr. Sci.* 10(2):559-561. June 1967. 24 Su3
- 99478 BISWAS, T. D., and ALI, M. H. Influence of organic carbon and clay content of the soils on the permanent wilting percentage. *Indian J. Agr. Sci.* 37(5):322-331. Ref. Oct.1967. 22 Ag831
- 99479 BLANARU, V. Application of the repeated extraction method for the direct determination of soil cation exchange capacity (T). (Rum) *Bucharest. Inst. Cent. Cercet. Agr. Sect. Pedol. An.* 34:179-185. 1966, pub.1967. 21 R86A  
English summary.
- 99480 BLUMEL, F. The value of iron in the soil as indicator of the hydrological soil profile. (Ge) *Bayer. Landwirt. Jahrbuch* 44(spec.no.3):104-106. 1967. 18 L24
- 99481 BODNARUK, YA. N. The reserves and distribution of nitrate and ammonium nitrogen in peat-podzolic and grassland soils for hop cultivation. (Rus) *Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf.* 1967:359-366. S651.Z5



- 99482 BOHN, H. L. The  $(\text{Fe})(\text{OH})_3$  ion product in suspensions of acid soils. *Soil Sci. Soc. Amer. Proc.* 31(5):641-644. Ref. Sept./Oct.1967. 56.9 So3
- 99483 BROADBENT, F. E., and NAKASHIMA, T. Reversion of fertilizer nitrogen in soils. *Soil Sci. Soc. Amer. Proc.* 31(5):648-652. Ref. Sept./Oct.1967. 56.9 So3
- 99484 BUILOV, V. V. The entry of ash elements into the soil from plants growing on Solonetz soils. (Rus) *Nauch. Dokl. Vyssh. Shk. Biol. Nauk.* 2: 137-139. 1967. 442.8 N22
- 99485 BUTENKO, T. I., and SOLOVEI, T. A. The mobile forms of nitrogen in peat-podzolic soils upon application of various nitrogenous substances. (Rus) *Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf.* 1967:318-321. S651.Z5 In U.S.S.R.
- 99486 CAIN, J. M., and BEATTY, M. T. The use of soil maps in the delineation of flood plains. *Water Resources Res.* 4(1):173-182, map. Ref. Feb.1968. 292.8 W295
- 99487 CAMPBELL, C. A., and others. Applicability of the carbon-dating method of analysis to soil humus studies. *Soil Sci.* 104(3):217-224. Ref. Sept.1967. 56.8 So3  
E. A. Paul, D. A. Rennie, and K. J. McCallum, joint authors.
- 99488 CHAPALDA, N. I. Accumulation of nitrogen phosphorus and potassium in organic matter left in soils due to various types of crop rotations. (Rus) *Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf.* 1967:281-287. S651.Z5
- 99489 CHIRIAC, A. Relationships between phosphate retention capacity and physico-chemical properties of some acid soils from the Fagaras Depression. (Rum) *Bucharest. Inst. Cent. Cercet. Agr. Sect. Pedol. An.* 34:139-147. Ref. 1966, pub.1967. 21 R86A  
English summary.
- 99490 CLEMENT, C. R., and WILLIAMS, T. E. Leys and soil organic matter. II. The accumulation of nitrogen in soils under different leys. *J. Agr. Sci. [London]* 69(1):133-138. Aug.1967. 10 J822
- 99491 CLEVA-KURSCHE, F. The element of calcium in agriculture. (It) *Terra Trentina* 14 (1):29-31. (Cont.) Jan.1968. 16 T277  
Soil hydrogen-ion concentration.
- 99492 COMMONWEALTH BUR. OF SOILS. Bibliography on "phosphate absorption isotherms" (1966-1957). Commonwealth Bur. Soils [Annot. Bibliogr.] 1147, 18 p. 1967. 241 C734A
- 99493 CROCKEWIT, J. H., and MASTENBROEK, J. Soil testing in 1966. (Du) *Aalsmeer. Proefsta. Bloemisterij. Jaarverslag* 1966:144-145. 86 Aa4
- 99494 DE VILLIERS, J. M., and JACKSON, M. L. Aluminous chlorite origin of pH-dependent cation exchange capacity variations. *Soil Sci. Soc. Amer. Proc.* 31(5):614-619. Ref. Sept./Oct.1967. 56.9 So3
- 99495 DOSTAL, A., and PESAK, M. A contribution to the determination of the amount of phosphorus oxides and potassium oxide in soils by leaching. (Cz) *Czech. Min. Zemedel. Les Hospodar. Ustav Vedeckotech. Inform. Rostlinna Vyroba* 40(6):657-663. June 1967. 64.9 C33  
English summary.
- 99496 DOUBRAVSKY, J. Principles of sampling hop soils. (Cz) *Chmelarstvi* 40(10):156-157. (Cont.) Oct.25,1967. 70.8 C33  
To check amount of minerals.
- 99497 DU PLESSIS, L. M., and PAULI, F. W. Air oxidation of prepared humic acids. *S. Afr. J. Agr. Sci.* 10(1):101-112. Ref. Mar.1967. 24 Su3
- 99498 ELEIZALDE, L. M. DE, and AQUIQUE, C. A. The application of high levels of P to soils; series Maracay and Calabozo; influence of pH of soils. (Sp) *Jornadas Agron. Mem.*, 6th Conf., v.2, 6 p. 1966. S211.J6 1966
- 99499 ELEIZALDE, L. M. DE. Method for determining the P in aqueous extract. (Sp) *Jornadas Agron. Mem.*, 6th Conf., v.2, paper 4, 13 p. Ref. 1966. S211.J6 1966  
Of soils.
- 99500 ELEIZALDE, L. M. DE, and AQUIQUE, C. Study of the Maracay series. I. Determination of pH in genetic and animal production test pits. (Sp) *Jornadas Agron. Mem.*, 6th Conf., v.2, paper 1, 12 p. 1966. S211.J6 1966
- 99501 ELEIZALDE, L. M. DE. Study of the Maracay series. II. Application of high levels of P; fractionation of P. (Sp) *Jornadas Agron. Mem.*, 6th Conf., v.2, paper 8, 9 p. 1966. S211.J6 1966
- 99502 ELEIZALDE, L. M. DE. Study of the Maracay series. III. P in aqueous extract. (Sp) *Jornadas Agron. Mem.*, 6th Conf., v.2, paper 10, 9 p. 1966. S211.J6 1966  
Of soils.
- 99503 FARUQI, F. A., OKUDA, S., and WILLIAMSON, W. O. Chemisorption of methylene blue by kaolinite. *Clay Miner.* 7(1):19-31. Ref. July 1967. QE391.K2C7
- 99504 FOX, R. Phosphorus fixation by Hawaiian soils and what to do about it. *Hawaii. Univ. Ext. Misc. Publ.* 39:28-41. Ref. Mar.1967. S544.3 H3H3
- 99505 GATA, G., and others. A microanalytical method for establishing the cation exchange capacity of colloidal fractions from soils. (Rum) *Bucharest. Inst. Cent. Cercet. Agr. Sect. Pedol. An.* 34:171-177. 1966, pub.1967. 21 R86A  
I. Dincu, C. Schrameck, and C. Constantinescu, joint authors.  
English summary.
- 99506 GATA, G., and others. Some aspects regarding active limestone determination in carbonated soils and sediments. (Rum) *Bucharest. Inst. Cent. Cercet. Agr. Sect. Pedol. An.* 34: 187-196. 1966, pub.1967. 21 R86A  
I. Dincu, C. Schrameck, and C. Constantinescu, joint authors.  
English summary.
- 99507 GEY, S., and others. Outline of boron, copper, manganese, and molybdenum supplies to the agricultural soils in the counties of Dresden, Leipzig, and Karl-Marx-Stadt. (Ge) *Albrecht-Thaer-Arch.* 11(9):849-858. Ref. 1967. 18 AL1  
P. Runge, K. Klemm, R. Ebeling, W. Bergmann, joint authors.  
English summary.
- 99508 GLINSKI, J., and GRAJPEL, A. Application of the sifting and single-increment techniques in spectral analysis of soils. 7 p. Ref. (TT 67-56069) Transl. 16848  
Spectrography.  
Translation from *Chemia Analytyczna* 10(4): 681-686. 1965.  
Issued by CFSTI.
- 99509 GORDIENKO, V. P. The effect of soil cultivation methods on the dynamics of nitrate nitrogen. (Rus) *Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf.* 1967:277-280. S651.Z5
- 99510 GOSS, R. L. Some effects on soil pH and calcium levels from fertilizer applications to soil producing putting green turf. *Sports Turf Res. Inst. J.* 43:23-27. 1967, pub. Mar.1968. 60.19 B772  
Nitrogen, phosphorus and potassium.
- 99511 GREWAL, J. S., and KANWAR, J. S. Ammonium fixation in Punjab soils. *Punjab Agr. Univ. J. Res.* 4(1):1-6. Ref. Mar.1967. S19.P6
- 99512 GRITSAENKO, A. A. The amount of nitrate nitrogen in soils in relation to the system of rotation of catch crops in fruit orchards. (Rus) *Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf.* 1967:370-375. S651.Z5
- 99513 GROBLER, J. H., and HUGO, P. H. J. Acid soluble zinc in soils of the High Veld Region. (Af) *S. Afr. J. Agr. Sci.* 10(3):841-842. Sept. 1967. 24 Su3



- 99514 GROOT, A. J. DE. Mud transport studies using manganese as an accompanying element under temperate and tropical climatic conditions (Western Europe, Amazon area and Chao-Phya river area in Thailand). Symp. Sci. Probl. Humid Trop. Zone Deltas Implications. Proc. 1966:65-71, map. GB1205.S3
- 99515 GRUNDLINGH, C. F. The movements of chloride-, nitrate- and phosphate ions in Free State sandy soil. (Af) S. Afr. J. Agr. Sci. 10 (1):289-292. Mar. 1967. 24 Su3
- 99516 GUPTA, A. P. Distribution of phosphorus in sugar growing soils of Gangetic series. Sugar Technol. Ass. India Proc., 35th Annu. Conv., pt.1:1-5. Ref. 1967. 65.9 Su35P
- 99517 GUSEINOV, R. K., and ISMAILOV, K. I. Reserves and forms of phosphates in soils of Milsk-Karabakh region. (Az) Akad. Nauk. Azerbaidzh. SSR, Izv. Ser. Biol. Med. Nauk. 1: 91-99. 1967. 442.9 Ak132  
Russian summary.
- 99518 HASEGAWA, K. Soil mechanical studies of bentonite (I). Consistency. (Ja) Shimane Agr. Coll. Bull. 15(A-4):14-17. Jan. 1967. S539.J3S5  
English summary.
- 99519 HEWITT, B. R. The composition of tropical lowland peat sampled at Klang, Selangor, Malaysia. Linn. Soc. New S. Wales. Proc. 92(3): 266-272. 1968. 514 Sy2
- 99520 HOLT, R. F., and TIMMONS, D. R. A method for investigating the chemical heterogeneity of soil material within natural soil aggregates. Soil Sci. Soc. Amer. Proc. 31(5):704-705. Sept./Oct. 1967. 56.9 So3
- 99521 HOLTZBERG, S. Soil testing 1965/1966. (Sw) Stockholm. Stat. Lantbrukskem. Kontrollanstalt. Medd. 29:9-10. 1967. 385 St6
- 99522 HOROWITZ, A., and DANTOS, H. DA. S. The geochemistry of minor elements in Pernambuco soils. I. Manganese in the Zona da Mata and Sertao. (Por) Pesquisa Agropecuar. Brasil. 1: 383-390, map. Ref. 1966. S15.P42  
English summary.
- 99523 HUDIG, J. A fatal error in scientific soil analysis. (Du) Landbouwkundig Tijdschr. 79(3):79-83. Mar. 1967. 105.2 Or2
- 99524 HUTCHINSON, F. E. The chemical properties of seven agricultural soil series and their relationship to soil fertility. Maine. Agr. Exp. Sta. Tech. Bull. 31,35 p. Ref. Mar. 1968. 100 M28B
- 99525 JORGENSEN, J. R. Fractionation of nitrogen in three forest soils. Soil Sci. Soc. Amer. Proc. 31(5):707-708. Sept./Oct. 1967. 56.9 So3
- 99526 JUSTE, C., and DUREAU, P. Production of ammoniacal nitrogen by thermic decomposition of amino acids associated with argillaceous muddy soils. (Fr) Acad. Sci. Compt. Rend. Ser. D, 265(17):1167-1169. Oct. 23, 1967. 505 P21
- 99527 KAUFFMAN, M. D., and BOULDIN, D. R. Relationships of exchangeable and non-exchangeable potassium in soils adjacent to cation-exchange resins and plant roots. Soil Sci. 104(3): 145-150. Sept. 1967. 56.8 So3  
Corn.
- 99528 KITAGAWA, Y. Clay mineralogy of the soil of former paddy fields in Shizuhata, Shizuoka City. (Ja) Pedologist 11(1):115-116. June 1967. 56.8 P344
- 99529 KLISENKO, M. A., and MOLOZHANOVA, L. G. Determining carbaryl in soils by chromatography. (Rus) Khim. Sel'skom Khoz. 7:33-36. Ref. July 1967. 385 K524
- 99530 KNABE, O., and KNABE, B. Method and border values of the systematic investigation of lowland moor soils for their content of K<sub>2</sub>O and P<sub>2</sub>O<sub>5</sub>. (Ge) Z. Landeskult. 8(4):265-271. Ref. 1967. 282.9 Z3
- 99531 KOCHERGIN, A. E., and ZHEZHER, L. V. Determining nitrates in soils. (Rus) Khim. Sel'skom Khoz. 5(6):58-60. June 1967. 385 K524
- 99532 KONDO, Y. Identification of serpentine minerals in soil clays by electron diffraction. (Ja) Pedologist 11(1):89-97. Ref. June 1967. 56.8 P344  
English summary.
- 99533 KOVAL'CHUK, A. YA. The content of acid-soluble potassium in the soils of central Polesye, U.S.S.R. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:478-481. S651.Z5
- 99534 KOWALINSKI, S., DROZD, J., and LICZNAK, M. Influence of methods of dilution of alkaline extracts of humus compounds upon the value of the C<sub>h</sub>:C<sub>f</sub> index. (Pol) Wroclaw Wyzsza Szkola Roln. Zeszyty Nauk. Roln. 21(66):9-18. Ref. 1967. 20.5 B75  
English summary.
- 99535 KOWALINSKI, S., BOGDA, A., and CHODAK, T. Introductory micromorphological examinations of the weathering products of biotite in some soils formed out of Karkonosze Mountains granite. (Pol) Wroclaw Wyzsza Szkola Roln. Zeszyty Nauk. Roln. 21(66):19-28. Ref. 1967. 20.5 B75  
English summary.
- 99536 KOWALINSKI, S., DROZD, J., and KREZEL, K. Profile distribution of mobile forms of SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub> and Fe<sub>2</sub>O<sub>3</sub> in some soils of the Karkonosze Mountains. (Pol) Wroclaw Wyzsza Szkola Roln. Zeszyty Nauk. Roln. 21(66):31-43. 1967. 20.5 B75  
English summary.
- 99537 KRAMMES, J. S., and DEBANO, L. F. Leachability of a wetting agent treatment for water-resistant soils. Soil Sci. Soc. Amer. Proc. 31 (5):709-711. Sept./Oct. 1967. 56.9 So3
- 99538 KRISHNAMOORTHY, K. K., and DURAIRAJ, D. J. Amino acid distribution patterns in soils. Madras Agr. J. 55(3):134-139. Mar. 1968. 22 M262
- 99539 KUMADA, K. Humus composition of some Podzols in British Isles. (Ja) Pedologist 11(1):71-80. Ref. June 1967. 56.8 P344  
English summary.
- 99540 KURYLOWICZ, B. Transformation of urea fertilizer in soil and in plant. (Pol) Nowe Roln. 16(4):9-10. 1967. 20.5 N86
- 99541 KUTE, S., BLANCHET, R., and GELFI, N. Influence of straw in the course of humification on the dynamics of phosphorus in the soil and phosphorus nutrition of plants. I. Dynamics of phosphorus in the soil. (Fr) Paris. Acad. Agr. France. Compt. Rend. Hebd. Seances 53 (17):1323-1329. Dec. 6/13, 1967. 14 P215Bc
- 99542 LAKANEN, E., and SILLANPAA, M. Strontium in Finnish soils. Ann. Agr. Fenn. 6(4):197-207. Ref. 1967, pub. 1968. 20 An7  
Soil analysis.
- 99543 LARSEN, S. Soil phosphorus. Advances Agron. 19:151-210. Ref. 1966. 30 Ad9
- 99544 LINDEGAARD, J. Does your soil have a satisfying calcium content? (Da) Landbonyt 21(10): 391-394. Oct. 1967. 11 L2322
- 99545 LUPINOVICH, I. S., and GOLUB, T. F. Relationships and forms of minerals for plant nutrition in peat bogs of Polesye. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967: 87-91. S651.Z5
- 99546 MASUI, J., and SHOJI, S. Some problems on clay minerals of volcanic ash soil. (Ja) Pedologist 11(1):33-45. Ref. June 1967. 56.8 P344  
English summary.  
Chiefly soil chemistry.
- 99547 MATHAN, K. K., and DURAIRAJ, D. J. Availability of phosphorus in Nilgiri soils. Madras Agr. J. 54(1):25-34. Ref. Jan. 1967. 22 M262
- 99548 MATHAN, K. K., and DURAIRAJ, D. J. Phosphorus fixation in Nilgiri soils. Madras Agr. J. 54(8):421-427. Ref. Aug. 1967. 22 M262
- 99549 MEEROVSKII, A. S. The nitrogen status of cultivated peat bog soils. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967: 106-112. S651.Z5



- 99550 MOKADY, R. S., and ZASLAVSKY, D. On the use of radioactive tracers in diffusion experiments. *Soil Sci. Soc. Amer. Proc.* 31(5):604-608. Sept./Oct.1967. 56.9 So3
- 99551 MORTVEDT, J. J., and GIORDANO, P. M. Recovery of soil-applied zinc by extractants, as affected by anhydrous  $\text{NH}_3$ . *Soil Sci.* 104(3): 202-209. Ref. Sept.1967. 56.8 So3
- 99552 MORTVEDT, J. J., and GIORDANO, P. M. Zinc movement in soil from fertilizer granules. *Soil Sci. Soc. Amer. Proc.* 31(5):608-613. Ref. Sept./Oct.1967. 56.9 So3
- 99553 MOTOC, E. Effect of soil organic matter oxidation on the results of mechanical analysis. (Rum) *Bucharest. Inst. Cent. Cercet. Agr. Sect. Pedol. An.* 34:111-119. 1966, pub. 1967. 21 R86A  
English summary.
- 99554 MUNNECKE, D. E., MARTIN, J. P., and MOORE, B. Effect of ammonium humate and clay preparations on release of methylisothiocyanate from soil treated with fungicides. *Phytopathology* 57(6):572-575. June 1967. 464.8 P56
- 99555 OBERHOLSTER, R. E. Incorrect schematic presentation of clay mineral structures in textbooks and scientific publications. *S. Afr. J. Agr. Sci.* 10(1):279-281. Mar.1967. 24 Su3
- 99556 OBERLANDER, H. E. Observations on the isotopic measurability of labile (plant-available) soil phosphates in the course of a vegetation period. (Ge) *Bodenkultur* 19(1):10-15. Ref. Feb.1968. 19 B635  
English summary.
- 99557 OKHRIMENKO, M. F., and UYAZDOVSKAYA, O. S. The effect of manganese, boron, zinc and molybdenum on the amount of hydrolyzed nitrogen in soils. (Rus) *Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf.* 1967:227-228. S651.Z5
- 99558 OLINEVICH, V. A. Concentration of mobile forms of nitrogen in peat soils of different periods of reclamation. (Rus) *Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf.* 1967:133-135. S651.Z5
- 99559 OLIVEIRA, L. B. DE. Modification of "Koettinge cylinder" utilized in mechanical analysis of soil. (Por) *Pesquisa Agropecuar. Brasil.* 1: 239-241. 1966. S15.P42  
English summary.
- 99560 ORLOV, D. S., and EROSHICHEVA, N. L. On the interaction of humic acids with cations of some metals. (Rus) *Moscow Univ. Vestnik Ser. 6, Biol. Pochvoved.* 1:98-105. Jan./Feb. 1967. 442.9 M854
- 99561 OVAKYAN, N. O., SUDZHAN, V. S., and KARAPETYAN, E. A. Continuous method of determining free phosphorus according to Arrhenius. (Rus) *Khim. Sel'skom Khoz.* 5(5):64-65. May 1967. 385 K524  
In soil.
- 99562 PARK, N. J., and others. A study on the various chemical characteristics responsible for  $\text{H}_2\text{S}$  formation in some Korean paddy soils. (Ko) *Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep.* 10(3):9-21. Ref. Sept.1967. 22.5 K843  
C. S. Park, Y. S. Kim, B. H. Cho, and C. Y. Lee, joint authors.  
English summary.  
Effect of Iron in soils.
- 99563 PARK, Y. D. A simple and reliable method for a rapid estimate of the silica supplying power of soil in relation to rice plant uptake. (Ko) *Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep.* 10(3):51-53. Sept.1967. 22.5 K843  
English summary.
- 99564 PEREGUDA, L. V. Interrelation of nitrate and phosphate regimes on peat-podzolic sandy loam soils. (Rus) *Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf.* 1967:447-452. S651.Z5
- 99565 PISZCZEK, J., and others. Some chemical and absorption properties of mineral soils III, IV, and V; yield classes at the Lipki Agricultural Research Institute. (Pol) *Stettin. Wyzsza Szkola Roln. Zeszyty Nauk.* 25:26-32, map. 1966, pub.1967. 20.5 St4  
Z. Chudecki, H. Greinert, and E. Niedzwiecki, joint authors.  
German summary.
- 99566 PRATT, P. F., and ALVAHYDO, R. Cation exchange characteristics of some soils from the State of Sao Paulo. (Por) *Pesquisa Agropecuar. Brasil.* 1:401-406. 1966. S15.P42  
English summary.
- 99567 PRUMMEL, J. Potassium content of sandy soil and light sea-clay areas in the Province of Groningen. (Du) *Neth. Dir. Landbouw. Verslag Landbouwkundig Onderz. Noordelijk-Groningen.* 1967:90-93. 12 N38Vg
- 99568 RALJ, B. VAN. Calcium and magnesium determination in soils with EDTA. (Por) *Bragantia* 25(2):317-326. Ref. 1966. 102.5 B73Tb  
English summary.
- 99569 RALJ, B. VAN., and KUPPER, A. Cation exchange capacity of soils; a comparative study of methods. (Por) *Bragantia* 25(2):327-336. Ref. 1966. 102.5 B73Tb  
English summary.
- 99570 RAJKOVIC, Z. The effect of calcium fertilizer on the dynamics of potassium in soils. (Se) *Novi Sad. Poljopr. Fak. Letop. Naucnih Rad.* 10:31-36. Ref. 1966. 106.6 N85  
German summary.
- 99571 RAMASWAMY, P., and RAO, B. R. Palygorskite in Korvi earth, Mysore. *Clay Miner.* 7(1): 116-119. July 1967. QE391.K2C7
- 99572 RAO, T. S., and RAO, D. V. K. Exchange reactions between partially calcium saturated clays and sodium-calcium salt solutions. *Andhra Agr. J.* 14(5):149-157. Ref. 1967. 34.2 An4
- 99573 REYES, E. D., and JURINAK, J. J. A mechanism of molybdate adsorption on  $\alpha\text{-Fe}_2\text{O}_3$ . *Soil Sci. Soc. Amer. Proc.* 31(5):637-641. Ref. Sept./Oct.1967. 56.9 So3
- 99574 RIQUIER, J. Organic matter in laterite soils. (Fr) *France. Office Rech. Sci. Tech. Outre-Mer. Cah. O.R.S.T.O.M. Pedol.* 4(4):33-37. Ref. 1966. 56.9 F84
- 99575 ROBINSON, J. B. D. The effects of exotic softwood crops on the chemical fertility of a tropical soil. *East Afr. Agr. Forest J.* 33(2):175-189 Oct.1967. 24 Ea74  
Coniferae in Kenya.
- 99576 RODIONOV, V. S., and GRADUSOV, B. P. Micromorphology and chemical-mineralogical composition of 0.001 mm fractions of eroded and uneroded Grey forest soils in the Oka river right-bank. (Rus) *Nauch. Dokl. Vyssh. Shk. Biol. Nauk.* 5(41):152-159. 1967. 442.8 N22
- 99577 RODRIGO, D. M. Dynamic nature of the chemical regime of flooded rice soils. *Int. Rice Comm. News Lett.* 16(3):7-13. Sept.1967. 59.9 In83N
- 99578 RODRIGUEZ, N. Determination of K by perchloric digestion. (Sp) *Jornadas Agron. Mem., 6th Conf., v.2, paper 9, 9 p.* 1966. S211.J6 1966  
In soils.
- 99579 RODRIGUEZ, N. Effects of trituration on potassium liberation. (Sp) *Jornadas Agron. Mem., 6th Conf., v.2, paper 5, 11 p.* Ref. 1966. S211.J6 1966  
In soils.
- 99580 RODRIGUEZ, N. Fixed potassium of the coarse fraction of soils of the Maracay series. (Sp) *Jornadas Agron. Mem., 6th Conf., v.2, paper 2, 16 p.* Ref. 1966. S211.J6 1966

- 99581 ROONWAL, G. S., KHANNA, S. S., and PARKASH, A. Mineralogy of sand fraction in certain profiles of Hissar District (Haryana). Punjab Agr. Univ. J. Res. 4(2):166-173, map. June 1967. S19.P8
- 99582 SAHA, J. G., and GADALLAH, L. A. Determination of the herbicide tordon (4-amino-3,5,6-trichloropicolinic acid) in soil by electron capture gas chromatography. Ass. Offic. Anal. Chem. J. 50(3):637-641. Ref. June 1967. 381 As7
- 99583 SAMBUR, G. N. Total reserves of nitrogen and its mobility in Polesye soils of the U.S.S.R. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:338-345. S651.Z5
- 99584 SAMOILOVA, E. M. Return of mineral elements with the fallen leaves and parts of the plants, and the composition of the soil humus in the main parcels of the linden-oak forest. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 2:131-136. 1967. 442.8 N22
- 99585 SCHNITZER, M., and KODAMA, H. Reactions between a Podzol fulvic acid and Na-montmorillonite. Soil Sci. Soc. Amer. Proc. 31(5):632-636. Ref. Sept./Oct. 1967. 56.9 So3
- 99586 SCHNITZER, M., and HOFFMAN, I. Significance of cellulose components in the thermogravimetry of organic soils. Soil Sci. Soc. Amer. Proc. 31(5):708-709. Sept./Oct. 1967. 56.9 So3
- 99587 SCHNORR, H., and BERGMANN, W. Outline of micro-nutrient supply to the soils in the counties of Rostock, Schwerin and Neubrandenburg. I. Manganese and copper supplies. (Ge) Albrecht-Thaer-Arch. 11(9):839-845. Ref. 1967. 18 AL1  
Manganese and copper.  
English summary.
- 99588 SERBANESCU, I., BRETAN, I., and SIMIONESCU, I. Chemical forms of phosphates and residual effect of fertilizers and liming in some acid soils. (Rum) Bucharest. Inst. Cent. Cercet. Agr. Sect. Pedol. An. 34:123-138. Ref. 1966, pub. 1967. 21 R86A  
English summary.
- 99589 SHAINBERG, I., and DAWSON, J. E. Titration of H-clay suspensions with salt solutions. Soil Sci. Soc. Amer. Proc. 31(5):619-626. Ref. Sept./Oct. 1967. 56.9 So3
- 99590 SHCHETININA, L. L., KUZNETSOV, E. N., and SHASHUK, A. A. Polesye soils and their content of microelements. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:229-235. S651.Z5
- 99591 SHKONDE, E. I., and KOROLEVA, I. E. Reserves and types of nitrogen in soils. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:31-39. S651.Z5
- 99592 SHUMAKOV, B. A., and KOSOV, G. F. The salt regime of Solonetz soils under rice in the Don River flood area. (Rus) Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina. Dokl. 6:38-41. June 1967. 20 Ak1
- 99593 SIDDIQUI, M. K. H. Palygorskite clays from Andhra Pradesh, India. Clay Miner. 7(1):120-123. July 1967. QE391.K2C7
- 99594 SIMONART, P., BATISTIC, L., and MAYAUDON, J. Isolation of protein from humic acid extracted from soil. Plant Soil 27(2):153-161. Ref. Oct. 1967. 450 P696
- 99595 SINGH, B. Chemical composition of the clay fraction of some alkali and adjoining soils of Uttar Pradesh. Madras Agr. J. 54(4):180-185. Ref. Apr. 1967. 22 M262
- 99596 SINGH, B. A note of the amino sugars in some alkali and adjoining soils of Uttar Pradesh. Madras Agr. J. 54(8):436-437. Aug. 1967. 22 M262
- 99597 SKEEN, J. B., and SUMNER, M. E. Exchangeable aluminium. I. The efficiency of various electrolytes for extracting aluminium from acid soils. S. Afr. J. Agr. Sci. 10(1):3-10. Ref. Mar. 1967. 24 Su3
- 99598 SKEEN, J. B., and SUMNER, M. E. Exchangeable aluminium. II. The effect of concentration and pH value of the extractant on the extraction of aluminium from acid soils. S. Afr. J. Agr. Sci. 10(2):303-309. June 1967. 24 Su3
- 99599 SPIVAK, KH. S., and others. Determining free phosphorus and exchangeable potassium from one extract. (Rus) Khim. Sel'skom Khoz. 5(5):62-63. May 1967. 385 K524  
N. P. Grabovskii, V. P. Vishnevskii, and S. T. Gutyrya, joint authors.  
Soil.
- 99600 STANTON, D. A., and BURGER, R. DU T. Studies on zinc in selected Orange Free State soils. III. Zinc content of iron concretions occurring in the soil. S. Afr. J. Agr. Sci. 10(3):569-574. Sept. 1967. 24 Su3
- 99601 STEL'MAKHOVSKII, A. F. TARASOVSKAYA, V. V., and YURCHENKOVICH, N. D. The dynamics of nitrogen and other agrochemical properties of soils in plots with arable layers of various capacity. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:332-337. S651.Z5  
U.S.S.R.
- 99602 STEL'MAKHOVSKII, A. F. The nitrogen regime of sandy loam peat-podzolic soils at various crop rotation stages. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:267-272. S651.Z5
- 99603 STEPANESCU, E., and JEGES, A. Effect of amendments on the exchangeable cation composition of Solonetz soils from western Romania. (Rus) Bucharest. Inst. Cent. Cercet. Agr. Sect. Pedol. An. 34:361-369. 1966, pub. 1967. 21 R86A  
English summary.
- 99604 SUDO, T., and others. Energy changes in dehydration processes of clay minerals. Clay Miner. 7(1):33-42. Ref. July 1967. QE391.K2C7  
S. Shimoda, S. Nishigaki, and M. Aoki, joint authors.
- 99605 SUSS, A., SCHURMANN, G., and PFANN, G. Behaviour of  $^{14}\text{C}$ -labelled diesel oil in different soils. Symp. Use Isotop. Weed. Res. Proc. 1965:125-134. Ref. 1966. S589.S9  
Absorption by soils of oil.  
Includes discussion.
- 99606 SUSTACHA, J. DE. Fractionation of humic compounds in relation to degree of polymerization in soils of the Maracay series. (Sp) Jornadas Agron. Mem., 6th Conf., v.2, paper 6, 24 p. Ref. 1966. S211.J6 1966
- 99607 SUSTACHA, J. DE. Fractionation of organic matter by densimetric separation on three profiles of the Maracay series. (Sp) Jornadas Agron. Mem., 6th Conf., v.2, paper 3, 11 p. 1966. S211.J6 1966
- 99608 TAL'KO, S. M. The influence of plant life on oxidation reduction and pH conditions of peat-podzolic soils in the Polesye region of Zhitomir. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:472-477. S651.Z5
- 99609 TAMAKI, T., and UMEDA, Y. Studies on reservoir deposits. XX. Nitrogen and carbon contents of alkali soluble fraction. (Ja) Kagawa Univ. Fac. Agr. Tech. Bull. 19(1):33-36. 1967. 107.6 K113  
English summary.
- 99610 TERRY, D. L., and MCCANTS, C. B. The leaching of ions in soils. N. C. Agr. Exp. Sta. Tech. Bull. 184, 16 p. Ref., p. 14-16. Feb. 1968. 100 N81
- 99611 THENG, B. K. G., GREENLAND, D. J., and QUIRK, J. P. Adsorption of alkylammonium cations by montmorillonite. Clay Miner. 7(1):1-17. Ref. July 1967. QE391.K2C7
- 99612 THENG, B. K. G., and POSNER, A. M. Nature of the carbonyl groups in soil humic acid. Soil Sci. 104(3):191-201. Ref. Sept. 1967. 56.8 So3



- 99613 THIAGARAJAN, S. R., and SOUNDARAJAN, S. K. A note on the pH variations in paddy soils of Cauvery alluvium as influenced by fertilisers and crop growth. *Madras Agr. J.* 54(7):385-388. Ref. July 1967. 22 M262  
In India.
- 99614 TOOGOOD, J. A., and ANDERSON, G. H. ARDA [Agricultural Rehabilitation and Development Agency] soil test appraisal. *Can. Dep. Forest. Inform. Tech. Serv. Div. Condens. Rep. CR-2*, 7 p. Jan. 1966. HD1781.C33  
Work of the Agricultural Soil and Feed Testing Laboratory.
- 99615 VASILIEVSKAYA, V. D., PETROVA, V. N., and STEFANOVA, V. The boron and zinc contents in Smolensk region soils. (Rus) *Nauch. Dokl. Vyssh. Shk. Biol. Nauk.* 4:124-127. 1967. 442.8 N22
- 99616 VENKATACHALAM, S., AHMED, K., and KRISHNAMURTHY, P. Streamlining soil test recommendations in Madras State - correlation studies suggest the way. *Madras Agr. J.* 54(12):631-638. Dec. 1967. 22 M262
- 99617 VINTILA, I., and others. Mineralogical, physical and chemical characteristics of some acid soils from north-western Romania. (Rum) *Bucharest. Inst. Cent. Cercet. Agr. Sect. Pedol. An.* 34:217-236. 1966, pub. 1967. 21 R86A  
I. Bajescu, A. Chiriac, D. Daniliuc, G. Gata, O. Manuca, E. Motoc, and I. Boeriu, joint authors.  
English summary.
- 99618 VOZNYUK, S. T., NOVIKOVA, L. D., and TRUSKAVETSKII, R. S. Analysis of Ukraine peat soils and their use as a source for nitrogen nutrition of plants. (Rus) *Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf.* 1967:116-125. S651.Z5
- 99619 VURBANOVA, Z. Effect of the permanent charges of soil particles on pH and degree of base saturation (V%). (Bu) *Pochvozn. Agrokhim.* 2(4):13-23. Ref. 1967. S590.P6  
English summary.
- 99620 WADA, K. Accumulation and carbon-14 age of organic matter in volcanic ash soils. (Ja) *Pedologist* 11(1):46-58. Ref. June 1967. 56.8 P344  
English summary.
- 99621 WADA, K. A study of hydroxyl groups in kaolin minerals utilizing selective deuteration and infrared spectroscopy. *Clay Miner.* 7(1):51-61. Ref. July 1967. QE391.K2C7
- 99622 YOKOTA, S. Determination of calcium in soils and plant materials by atomic absorption spectrophotometry. (Ja) *Jap. Forest Exp. Sta. Bull.* 199:99-108. Ref. Mar. 1967. 99.8 R47  
English summary.
- 99623 ZAKHARCHENKO, I. G., and SHILINA, L. I. On the balance of nitrogen in soil under various bean cultures. (Rus) *Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf.* 1967:273-276. S651.Z5
- 99624 ZRAZHEVSKII, A. I., GORDIENKO, E. I., and SERIY, A. I. Reserves of active nitrogen in organic matter of soils and its effect on yields. (Rus) *Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf.* 1967:212-218. S651.Z5
- 99628 BAMFORTH, S. S. A microbial comparison of two forest soils of southeastern Louisiana. *La. Acad. Sci. Proc.* 30:7-16. 1967. 500 L932
- 99629 BECK, T. Results from microbiological investigations of certain soil profiles of the foreland of the Alps. (Ge) *Bayer. Landwirt. Jahrbuch* 44(5):605-613. Ref. 1967. 18 L24
- 99630 BERSHOVA, O. I. Nitrogen-fixing microorganisms of the soils of the Ukrainian S.S.R. (Uk) *Mikrobiol. Zhur.* 29(5):441-447. 1967. 448.3 K54  
English summary.
- 99631 BIRCH, H. F., and DOUGALL, H. W. Effect of legume on soil nitrogen mineralisation and percentage nitrogen in grasses. *Plant Soil* 27(2):292-296. Oct. 1967. 450 P696  
*Desmodium uncinatum* growing with *Pennisetum purpureum*, *Tripsacum laxum* and *Panicum maximum*.
- 99632 BONDARENKO, G. A. Oligonitrophilic bacteria in peat-podzolic soils in U.S.S.R. (Rus) *Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf.* 1967:208-211. S651.Z5
- 99633 CHERNOBROVINA, R. M. The process of ammonification and nitrification of decomposed peavine and lupine in Brown Forest soils and the possibility of controlling the process. (Rus) *Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf.* 1967:179-184. S651.Z5
- 99634 DICKINSON, C. H., and DOOLEY, M. J. The microbiology of cut-away peat. I. Descriptive ecology. *Plant Soil* 27(2):172-186. Ref. Oct. 1967. 450 P696  
Ireland.
- 99635 DOBEREINER, J. *Azotobacter paspali* sp. n., a nitrogen fixing bacteria in the rhizosphere of *Paspalum*. (Por) *Pesquisa Agropecuar. Brasil.* 1:357-365. Ref. 1966. S15.P42  
English summary.
- 99636 DOBEREINER, J., ARRUDA, N. B. DE, and PENTEADO, A. DE. F. Evaluation of nitrogen fixation in legumes by the regression of total plant nitrogen with nodule weight. (Por) *Pesquisa Agropecuar. Brasil.* 1:233-237. 1966. S15.P42  
English summary.
- 99637 DOBEREINER, J., ARRUDA, N. B. DE, and PENTEADO, A. DE. F. Host plant specificity in soybean varieties. (Por) *Pesquisa Agropecuar. Brasil.* 1:207-210. 1966. S15.P42  
English summary.  
*Rhizobium symbiosis* for nitrogen fixation.
- 99638 DOHAREY, A. K., and ROY, A. B. Effect of trace-elements on symbiotic nitrogen fixation by *Azotobacter chroococcum* in culture solution inoculated with different calcareous soils. *Indian J. Agr. Sci.* 37(5):308-315. Ref. Oct. 1967. 22 Ag831
- 99639 DOROSINSKII, L. M. Principles of selecting nodular bacteria for production of nitrogen. (Rus) *Vestnik Sel'skokhoz. Nauk. [Moscow]* 5:112-117. Ref. May 1967. 20 V633
- 99640 DZHANGALIEV, A. D., and BELOUSOVA, N. K. Soil fauna in the wild fruit brushlands in the Dzungarian Ala-Tau. (Rus) *Akad. Nauk Kaz. SSR. Izv. Ser. Biol.* 6:36-42. Ref. Nov./Dec. 1967. 442.8 AL6
- 99641 FLORENZANO, G., and MATERASSI, R. Microbiological aspects of nitrogen fertilizing. (It) *Ital. Agr.* 105(3):269-275. Ref. Mar. 1968. 16 It1
- 99642 GATES, G. E. On the earthworm fauna of the Great American Desert and adjacent areas. *Great Basin Natur.* 27(3):142-176. Ref. Nov. 30, 1967. 410 G79
- 99643 GLATHE, H., and SINGH-VERMA, S. B. Glucose peptone agar, a well suited culture medium for the isolation and cultivation of bacterial antagonists from soil as well as antibacterial effect of some soil bacteria against other apathogenic, or pathogenic bacteria. (Ge) *Zentralbl. Bakteriell. Parasitenk. Infektionskr. Hyg. Abt. II, Naturwiss.* 122(1):3-21. Ref. 1968. 448.3 C33  
English summary.

### Soil Biology

- 99625 AMBROZ, Z. On some aspects of the effect of bentonite on the microbial decomposition of proteins in soils. (Ge) *Brno. Vysoka Sk. Zemel. Sb. Rada A. Spisy Fak. Agron.* 3:401-406. 1966. 105.92 B833  
English summary.
- 99626 ASEEVA, I. V., and KAPTEREVA, YU. V. The synthesis of L-valine by soil microorganisms. (Rus) *Moscow Univ. Vestnik Ser. 6, Biol. Pochvoved.* 1:88-92. Jan./Feb. 1967. 442.9 M854
- 99627 BABEVA, I. P., and MEAVED, K. On the spread of yeasts *Lipomyces* in soils. (Rus) *Moscow Univ. Vestnik Ser. 6, Biol. Pochvoved.* 1:107-113. Jan./Feb. 1967. 442.9 M854

- 99644 GROSSBARD, E. Potential use of tracer methods, especially autoradiography, in the study of the relation of herbicides to soil biology. Symp. Use Isotop. Weed Res. Proc. 1965:173-187. 1966. S589.S9
- 99645 GURFEL, D. Biological peculiarities of meadow soils under various methods and duration of utilization of perennial grass stands. (Rus) Eesti Maaviljeluse Maaparanduse Tead. Uurimise Inst. Tead. Toode Kogumik 8:78-96. Ref. 1966. 20 Ee73T  
Microorganisms.
- 99646 GURFEL, D., and LASTING, V. Changes in microflora of upland bog under cultivation. (Rus) Eesti Maaviljeluse Maaparanduse Tead. Uurimise Inst. Tead. Toode Kogumik 8:60-71. Ref. 1966. 20 Ee73T
- 99647 HARGITAI, L. Effect of soil biochemical factors on nitrogen dynamics of soils. (Hu) Kertesz. Szoleszeti Foiskola. Kiadv. 3(1):241-258. 1966. SB13.K4
- 99648 HARRIS, P. J., and WOODBINE, M. Antibiotic resistance of bacteria from rhizosphere and non-rhizosphere soils. Plant Soil 27(2):167-171. Ref. Oct.1967. 450 P696
- 99649 ISHII, H. Studies on the distribution of microfungi in pine forest soil. 1. Vertical distribution in soil profile. (Ja) Shimane Agr. Coll. Bull. 15(A-2):15-21. Ref. Jan. 1967. S539.J3S5  
English summary.  
Pinus densiflora in Japan.
- 99650 ISHII, H. Studies on the distribution of microfungi in pine forest soil. 2. Fungal distribution on different substrates in litter and in root region. (Ja) Shimane Agr. Coll. Bull. 15(A-2):22-27. Jan.1967. S539.J3S5  
English summary.  
Pinus densiflora in Japan.
- 99651 JAISWAL, S. P. Effect of some pesticides on soil microflora and their activity. Punjab Agr. Univ. J. Res. 4(2):223-226. Ref. June 1967. S19.P8
- 99652 JONES, D., and GRIFFITHS, E. Microbiological aspects of soil structure. II. Soil aggregation by the extracellular polysaccharide of *Lipomyces starkeyi*. Plant Soil 27(2):187-200. Ref. Oct.1967. 450 P696
- 99653 KAARLI, L. Microbiological processes during decomposition of organic matter in soil and in manure under the effect of various temperatures. (Es) Eesti Maaviljeluse Maaparanduse Tead. Uurimise Inst. Tead. Toode Kogumik 8:97-142. Ref. 1966. 20 Ee73T  
Russian summary.
- 99654 KAEMPF, R. Studies on the influence of plant protection chemicals on soil fertility. (Ge) Bayer. Landwirt. Jahrbuch 44(4):430-443. Ref. 1967. 18 L24  
Effects on soil biology and tieth.
- 99655 KAUFFMANN, J. The speed of growth of azotobacter chroococcum as a function of the nature of the source of carbonates. (Fr) Paris. Soc. Biol. Compt. Rend. 161(12):2465-2467. 1967, pub.1968. 442.9 P21  
Benzoate as source.
- 99656 LANE, C. L., and WITCHER, W. Study of microorganisms of soils supporting growth of loblolly pine [*Pinus taeda*] and yellow-poplar [*Liriodendron tulipifera*]. J. Forest. 65(12):898-901. Ref. Dec.1967. 99.8 F768
- 99657 LASTING, V. Development of microorganisms in soddy-calcareous loose soil under cultivation. (Es) Eesti Maaviljeluse Maaparanduse Tead. Uurimise Inst. Tead. Toode Kogumik 8:72-77. 1966. 20 Ee73T  
Russian summary.
- 99658 LASTING, V. Microbiological processes in soil after using sweetclover as green manure. (Es) Eesti Maaviljeluse Maaparanduse Tead. Uurimise Inst. Tead. Toode Kogumik 8:143-186. Ref. 1966. 20 Ee73T  
Russian summary.
- 99659 LASTING, V., KAARLI, L., and GURFEL, D. Microflora of basic soil types of northern Estonia and its dependence on agricultural utilization. (Es) Eesti Maaviljeluse Maaparanduse Tead. Uurimise Inst. Tead. Toode Kogumik 8:7-59. Ref. 1966. 20 Ee73T  
Russian summary.
- 99660 LISINA, E. S., and MAKSIMOVA, R. A. Some data on mycoflora of plant rhizosphere in the White Sea coast soils. (Rus) Nauch. Dokl. Vyssh. Shk. Biol. Nauk. 5:84-87. 1967. 442.8 N22
- 99661 MAL'TSEVA, N. N. Oligonitrophilic bacteria in some types of soils in the U.S.S.R. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:185-190. S651.Z5
- 99662 MARTIN, J. P., RICHARDS, S. J., and HAIDER, K. Properties and decomposition and binding action in soil of "humic acid" synthesized by *Epicoccum nigrum*. Soil Sci. Soc. Amer. Proc. 31(5):657-662. Ref. Sept./Oct.1967. 56.9 So3
- 99663 MULLER, G. Der Einfluss der Mineraldungung auf den biologischen Kreislauf der Stoffe landwirtschaftlich genutzter Boden [The influence of mineral fertilizing on the biological cycle of the components of agricultural soils]. Deut. Akad. Landwirtschaftswiss. Sitzungsber. 15 (15), 29 p. 1966. 18 D4825  
English summary.
- 99664 NAKAMURA, Y. On the cocoon of *Eisenia rosea* Savigny (Neoligochaeta: Lumbricidae). Appl. Entomol. Zool. 2(1):59-60. Mar.1967. S559.A6
- 99665 NAPLEKOVA, N. N. Mobilization of difficult assimilable phosphates by fungi and Actinomycetes decomposing cellulose. (Rus) Pochvovedenie 11:74-81. Ref. Nov.1967. 57.8 P34  
English summary.  
In soils.
- 99666 NETZSCH-LEHNER, A., NOWAK, W., and SEIBOLD, L. Microbiological investigation of a 50 years old grassland-fertilizing experiment in the alpine area. (Ge) Bayer. Landwirt. Jahrbuch 44(5):614-625. Ref. 1967. 18 L24
- 99667 NOVAK, B. Importance of mineral nitrogen and phosphate in the humification of simple organic materials. (Ge) Zentralbl. Bakteriologie. Parasitenk. Infektionskr. Hyg. Abt. II, Naturwiss. 121(7):719-725. Ref. Nov.10,1967. 448.3 C33  
English summary.
- 99668 OLSEN, O. B. Humification of peat. (Da) Horticultura 21(7):119-122. July 1967. 80 H7825
- 99669 PAVLENKO, V. F. The mycoflora of the peat-podzolic soils of Polesye and its role in increasing nitrogen reserves in soil. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:159-163. S651.Z5
- 99670 PAVLENKO, V. F. The mycoflora of virgin peat soils and their content of nitrogen. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:174-178. S651.Z5  
In U.S.S.R.
- 99671 PETRENKO, M. B. Proteolytic enzyme activity and free amino acids in rhizosphere bacteria. (Uk) Mikrobiol. Zhur. 29(3):191-195. 1967. 448.3 K54  
English summary.
- 99672 PIHO, A., and KEVVAI, L. Effect of temperature on nitrification of ammonia in different soils. (Es) Eesti Maaviljeluse Maaparanduse Tead. Uurimise Inst. Tead. Toode Kogumik 8:187-198. Ref. 1966. 20 Ee73T  
Russian summary.
- 99673 PRIKHOD'KO, N. V. The effect of conditions of nutrition of peas on the accumulation of root and post-harvest stubbles and the balance of nitrogen in soils. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:194-197. S651.Z5  
Nitrogen fixation.



- 99674 RAITSCHEWA, L. The role of *Rhizobium japonicum* during nitrogen nutrition of soybeans in various soil types of Bulgaria. (Ge) Zentralbl. Bakteriell. Parasitenk. Infektionskr. Hyg. Abt. II, Naturwiss. 121(7):731-735. Ref. Nov.10,1967. 448.3 C33 English summary.
- 99675 RIXON, A. J., and BRIDGE, B. J. Respiratory quotient arising from microbial activity in relation to matric suction and air filled pore space of soil. *Nature* 218(5145):961-962. June 8,1968. 472 N21
- 99676 SALONIUS, P. O., ROBINSON, J. B., and CHASE, F. E. A comparison of autoclaved and gamma-irradiated soils as media for microbial colonization experiments. *Plant Soil* 27(2):239-248. Ref. Oct.1967. 450 P696 *Arthrobacter globiformis* and *Pseudomonas fluorescens*.
- 99677 SAMTSEVICH, S. A. The role of organic nitrogen in agriculture and effect of nitrogen fixing bacteria on plants. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:219-223. S651.Z5
- 99678 SARYEVA, A. N. Nitrogen fixation capacity of acetone-ethyl bacteria. (Rus) Akad. Nauk Turkm. SSR Izv. Ser. Biol. Nauk 3:34-38. 1967. 442.9 Ak124
- 99679 SAUBERT, S., and SCHEFFLER, J. G. Strain variation and host specificity of *Rhizobium trifolii* on European clovers. *S. Afr. J. Agr. Sci.* 10(1):85-93. Ref. Mar.1967. 24 Su3 Cross-inoculation studies.
- 99680 SINGH, B. N. Problems presented by soil microbiology in the humid Tropics with reference to the deltas. *Symp. Sci. Probl. Humid Trop. Zone Deltas Implications. Proc.* 1966:249-251. GB1205.S3
- 99681 SKIPPER, H. D., GILMOUR, C. M., and FURTICK, W. R. Microbial versus chemical degradation of atrazine in soils. *Soil Sci. Soc. Amer. Proc.* 31(5):653-656. Ref. Sept./Oct. 1967. 56.9 So3
- 99682 SKRDLETA, V. Serological identity of agar cultures of *Rhizobium japonicum* and bacterial components of root nodules of soybeans. (Cz) Czech. Min. Zemedel. Les Hospodar. Ustav Vedeckotech. Inform. Rostlinna Vyroba 40(6): 671-678. Ref. June 1967. 64.9 C33 English summary.
- 99683 STEINBRENNER, K. The influence of fodder plants as main or catch crops in rotation on soil organisms and some changes caused by microorganisms. (Ge) Zentralbl. Bakteriell. Parasitenk. Infektionskr. Hyg. Abt. II, Naturwiss. 121(7):682-708. Ref. Nov.10,1967. 448.3 C33 English summary.
- 99684 STREUBER, E. Problem of inoculation and nitrogen fertilizing of soybeans. (Ge) Zentralbl. Bakteriell. Parasitenk. Infektionskr. Hyg. Abt. II, Naturwiss. 121(7):709-718. Ref. Nov.10,1967. 448.3 C33 English summary.
- 99685 STRLJDOM, B. W., and STEENKAMP, C. J. The combined effect of temperature and desiccation on *Beijerinckia* spp. in soil. *S. Afr. J. Agr. Sci.* 10(1):197-202. Ref. Mar.1967. 24 Su3
- 99686 TROLLDENIER, G. Isolation and counting of soil actinomycetes with membrane filters on soil plates. (Ge) *Plant Soil* 27(2):285-288. Oct.1967. 450 P696 English summary.
- 99687 VIZIR, A. P., and SAMBUR, L. A. The role of azotobacters in biologic fixation of nitrogen and azotobacterine effectiveness on peat-podzolic soils of Polesye, U.S.S.R. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:202-207. S651.Z5
- 99688 VOINOVA-RAIKOVA, Z. Nutrient sources for *Azotobacter* propagation. (Bu) *Pochvozn. Agrokhim.* 2(5):55-60. 1967. S590.P6 English summary.
- 99689 WALKER, R. W., and BASTL, C. P. The glycolipids of *Arthrobacter globiformis*. *Carbohydr. Res.* 4(1):49-54. Ref. Mar.1967. 385 C172
- 99690 WIANT, H. V. Has the contribution of litter decay to forest "soil respiration" been overestimated? *J. Forest.* 65(6):408-409. Ref. June 1967. 99.8 F768
- 99691 YARCHUK, I. I. The effect of microorganisms in enriching peat and peat fertilizers with mobile forms of nitrogen. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:164-168. S651.Z5
- 99692 YUKHIMCHUK, F. F. Leguminous plants - the source of organic nitrogen. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:139-147. S651.Z5
- 99693 ZINOV'EVA, KH. G. Biological peculiarities of azotobacters in the peat-podzolic soils of Polesys, U.S.S.R. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:148-151. S651.Z5

#### Soil-Plant-Animal Relationships

- 99694 JONES, L. H. P., and HANDRECK, K. A. Silica in soils, plants, and animals. *Advances Agron.* 19:107-149. Ref. 1966. 30 Ad9

#### Soil Genesis, Formation, Classification, and Mapping

- 99695 ARISMENDI, R. S. Classification of the cotton series for irrigation purposes. (Sp) *Jornadas Agron. Mem.*, 6th Conf., v.2, paper 15, 8 p. 1966. S211.J6 1966 Soil types.
- 99696 AUBERT, G. Observations on the classification of laterite soils. (Fr) France. Office Rech. Sci. Tech. Outre-Mer. Cah. O.R.S.T.O.M. Pedol. 4(4):89-90. 1966. 56.9 F84
- 99697 AUBERT, G., and SEGALIN, P. A plan for the classification of laterite soils. (Fr) France. Office Rech. Sci. Tech. Outre-Mer. Cah. O.R.S.T.O.M. Pedol. 4(4):97-112. Ref. 1966. 56.9 F84
- 99698 BARNHISEL, R. I., and RICH, C. I. Clay mineral formation in different rock types of a weathering boulder conglomerate. *Soil Sci. Soc. Amer. Proc.* 31(5):627-631. Ref. Sept./Oct. 1967. 56.9 So3
- 99699 BORGONOV, M. Agronomic study through photointerpretation of Castilho County in the State of Sao Paulo. (Por) *Bragantia* 25(2):433-444, map. Ref. 1966. 102.5 B73Tb English summary. Soil types and land use.
- 99700 BOYADZHIEV, T., and ATANASOV, I. Clay minerals in certain soil types developed on limestone in Bulgaria. (Bu) *Pochvozn. Agrokhim.* 2(4):3-12. Ref. 1967. S590.P6 English summary.
- 99701 BROWN, J. Tundra soils formed over ice wedges, northern Alaska. *Soil Sci. Soc. Amer. Proc.* 31(5):686-691, map. Ref. Sept./Oct.1967. 56.9 So3
- 99702 BULGANOV, D., and KHOLINA, M. Soil survey in the Kuibyshev Region. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 4:18-19. Apr.1967. 281.8 Se4
- 99703 CAMARGO, M. N., and BENNEMA, J. Schematic outline of Brazilian soils. (Por) *Pesquisa Agropecuar. Brasil.* 1:47-54. 1966. S15.P42 English summary.
- 99704 CARSON, C. D., and KUNZE, G. W. Red soils of east Texas developed in glauconitic sediments. *Soil Sci.* 104(3):181-190, map. Ref. Sept.1967. 56.8 So3
- 99705 CENUSE, M. Observations on the preliminary stereoscopic study in large-scale pedologic surveys. (Rum) Bucharest. Inst. Cent. Cercet. Agr. Sect. Pedol. An. 34:303-313, map. 1966, pub.1967. 21 R86A English summary.

- 99706 CHATELIN, Y. Classification of the laterite soils in Gabon. (Fr) France. Office Rech. Sci. Tech. Outre-Mer. Cah. O.R.S.T.O.M. Pedol. 4 (4):45-60. Ref. 1966. 56.9 F84
- 99707 CHU, H. M. Studies on black colored soils in Taiwan. II. (Ch) Agr. Ass. China J. (n.s.) 57:49-60. Mar. 1967. 22.5 Ag862  
Compared to Rendzina soils.
- 99708 COLIN, H., and FOERSTER, E. The mutual supplementation of soil and vegetation maps in site investigations. (Ge) Bayer. Landwirt. Jahrbuch 44(spec.no.3):84-88. 1967. 18 L24
- 99709 COLMET-DAAGE, F. and others. Characteristics of some equatorial soils derived from volcanic ash. I. Attempt at characterization of soils of wet tropical regions. (Fr) France Office Rech. Sci. Tech. Outre-Mer Cah. O.R.S.T.O.M. Pedol. 5(1):3-38, map. Ref. 1967. 56.9 F84  
F. Cucalon, M. Delaune, J. M. Gautheyrou, and B. Moreau, joint authors.  
English summary.
- 99710 DANIELS, R. B., and YOUNG, K. K. Distribution of loess in south central Louisiana. La. Ass. Agron. Proc. 8:4-10, map. Ref. 1967. 4 L933  
Genesis and profile.
- 99711 DIEZ, T., and WITTMANN, O. Soil mapping and plant ecology as aids to the understanding of soil moisture. (Ge) Bayer. Landwirt. Jahrbuch 44(spec.no.3):89-95. 1967. 18 L24
- 99712 DOLMAN, J. D., and BUOL, S. W. A study of organic soils (Histosols) in the Tidewater region of North Carolina. N. C. Agr. Exp. Sta. Tech. Bull. 181, 52 p., map. Dec. 1967. 100 N81  
Bibliography, p. 46-52.
- 99713 DOTY, M. S., and MUELLER-DOMBOIS, D. The biology of fresh, brackish and saline water as it contributes to tropical delta formation. Symp. Sci. Probl. Humid Trop. Zone Deltas Implication. Proc. 1966:253-256. GB1205.S3
- 99714 DRIESSCHE, R. VANDEN. A problem of numerical classification. (Fr) France. Office Rech. Sci. Tech. Outre-Mer. Cah. O.R.S.T.O.M. Pedol. 4(4):91-96. 1966. 56.9 F84  
English summary.
- 99715 EGOROV, V. V. Main structural features of the great deltas in the territory of the U.S.S.R. Symp. Sci. Probl. Humid Trop. Zone Deltas Implications. Proc. 1966:393-397. GB1205.S3
- 99716 EHWALD, E. Probleme der Erfassung der Standortverhältnisse der Deutschen Demokratischen Republik und ihrer Auswertung [Problems of surveying site conditions of the German Democratic Republic and their evaluation]. Deut. Akad. Landwirtschaftswiss. Sitzungsber. 15(16), 35 p. 1966. 18 D4825  
English summary.  
Bibliography, p. 31-35.  
Soil surveys.
- 99717 ESPINOZA C., J. Pedology of some savanna soils of the Venezuelan Oriente (advance report). (Sp) Jornadas Agron. Mem., 6th Conf., v. 2, paper 13, 16 p. Ref. 1966. S211.J6 1966
- 99718 FIEROTTI, G. Studies on Sicilian soils. VI. (It) Palermo. Univ. Ist. Agron. Gen. Colt. Erbacee. Quad. Agron. 4:77-116, map. Ref. 1967, pub. 1968. 16 P172  
English summary.  
Soil types and analyses.
- 99719 FIEROTTI, G., and ROMAGNOLI, L. The vertisols of Sicily. I. (It) Palermo. Univ. Ist. Agron. Gen. Colt. Erbacee. Quad. Agron. 4:117-161, map. 1967, pub. 1968. 16 P172  
English summary.  
Classification.
- 99720 FOSBERG, F. R. Vegetation as a geological agent in tropical deltas. Symp. Sci. Probl. Humid Trop. Zone Deltas Implication. Proc. 1966:227-233. GB1205.S3  
Includes discussion.
- 99721 FREI, E., and JUHASZ, P. Properties and distribution of the acid brown earth in Switzerland. The soil map of Landiswil-Ruederswil, Emmental BE. (Ge) Schweiz. Landwirt. Forsch. 4(3):371-393, map. Ref. 1967. 17 Sch99  
English summary.
- 99722 GAMS, H. General historical research on peat bogs. (Fr) Soc. Biogr. Compt. Rend. 375/376: 75-78. Mar. 1967. 505 P216  
Includes soil genesis.
- 99723 GASSANOV, V. G. Meadow Chesnut soils in Alazansk terraced plains. (Az) Adad. Nauk. Azerbaidzh. SSR. Izv. Ser. Biol. Med. Nauk. 1:100-107. 1967. 442.9 Ak132  
Russian summary.
- 99724 GIESE, L. D. The new soil survey of Hawaii. Hawaii. Univ. Ext. Misc. Publ. 39:26-27. Mar. 1967. S544.3 H3H3
- 99725 GODEFROY, J. The sub-soil in the banana plantation. (Fr) Fruits 22(8):341-350. Sept. 1967. 80 F9492  
English summary.  
Cameroon, Madagascar, Ivory Coast.  
Study of soil profiles.
- 99726 HAMILTON, J. D. Partially-ordered mixed-layer mica-montmorillonite from Maitland, New South Wales. Clay Miner. 7(1):63-78. Ref. July 1967. QE391.K2C7
- 99727 HANSON, L. D., and RUST, R. H. Minnesota soil surveys and resource development. Minn. Sci. 23(3):28-30, map. Apr. 1967. 100 M668
- 99728 HARKSEN, J. C. Quaternary loess in southwestern South Dakota. S. Dak. Acad. Sci. Proc. 46:32-40, map. 1967. 500 So82
- 99729 HERVIEU, J. Geography of the soils of Madagascar. (Fr) France Office Rech. Sci. Tech. Outre-Mer Cah. O.R.S.T.O.M. Pedol. 5(1): 39-82, map. 1967. 56.9 F84  
Bibliography, p. 73-82.
- 99730 HERVIEU, J. On the textural and mineralogical characteristics of recent sediments and alluvial deposits in the delta of the River Mangoky (south-western Madagascar). (Fr) Symp. Sci. Probl. Humid Trop. Zone Deltas Implication. Proc. 1966:73-82. GB1205.S3  
English summary.
- 99731 HIGGINS, G. M. Soils and related surface phenomena near Bacita. Nigerian J. Sci. 1(2): 205-215. Ref. July 1967. Q1.N5  
Soil and vegetation survey.
- 99732 HOLLERWOGER, F. The progress of the river deltas in Java. Symp. Sci. Probl. Humid Trop. Zone Deltas Implications. Proc. 1966:347-355. GB1205.S3  
Includes discussion.
- 99733 ICOLE, M. Quaternary red loams at Lanne-mezan, their pedological evolution. (Fr) Acad. Sci. Compt. Rend. Ser. D, 265(11):788-791. Sept. 11, 1967. 505 P21
- 99734 ISHIKAWA, M. The properties and productivity of volcanic ash soils in Ibaragi Prefecture, Kanto Plain, Japan. (Ja) Pedologist 11(1):59-70, map. June 1967. 56.8 P344  
English summary.  
Includes classification and types.
- 99735 ISLAM, M. A. Soils of East Pakistan. Symp. Sci. Probl. Humid Trop. Zone Deltas Implications. Proc. 1966:83-87. GB1205.S3
- 99736 KATO, Y. A dark montmorillonitic "Grumusol"-like soil from Yui, Shizuoka Prefecture, Central Japan. (Ja) Pedologist 11(1):81-87. June 1967. 56.8 P344  
English summary.
- 99737 KAWAI, S., and others. On the tea soil of Shizuoka and Nikawara district, Shizuoka-City. (Ja) Jap. Tea Res. Sta. Stud. Tea 34:38-59. Mar. 1967. 68.18 Ok3  
K. Ishigaki, K. Ikegaya, and H. Takayanagi, joint authors.  
English summary.



- 99738 KOBAYASHI, I. Preliminary discussion on the deposition process of the Black humic soils in Japan. (Ja) *Pedologist* 11(1):15-24. Ref. June 1967. 56.8 P344  
English summary.
- 99739 KOPP, E. Topogenic zones of soils requiring reclamation in Eifel. (Ge) *Bayer. Landwirt. Jahrbuch* 44(spec.no.3):110-111. 1967. 18 L24  
Soil mapping.
- 99740 KORENEVSKAYA, V. E., and DMITRIEV, E. A. On relation of mechanical composition of the Terek river delta soils with genesis peculiarities. (Rus) *Nauch. Dokl. Vyssh. Shk. Biol. Nauk.* 5:142-146. 1967. 442.8 N22
- 99741 KOSHIBA, N., SANO, Y., and FURUYAMA, M. The soil survey of Honjo Farm. (Ja) *Shimane Agr. Coll. Bull.* 15(A-3):9-18, map. Jan. 1967. S539.J3S5  
English summary.
- 99742 LENEUF, N. Introductory report on the leaching processes of laterite soils. (Fr) France. Office Rech. Sci. Tech. Outre-Mer. Cah. O.R. S.T.O.M. *Pedologie* 4(4):25-27. 1966. 56.9 F84
- 99743 LE TACON, F. The soils of a forest stand in the "Lower-Vosges": Stages of evolution. (Fr) *Nancy Ecole Nat. Eaux Forests Ann.* 24(3):177-203. Ref. 1967. 99.9 F845  
English summary.
- 99744 LEVEQUE, A. Study of the principal criteria for the classification of the laterite soils of French Guiana. (Fr) France. Office Rech. Sci. Tech. Outre-Mer. Cah. O.R.S.T.O.M. *Pedol.* 4(4):61-74. 1966. 56.9 F84
- 99745 LOTTI, G., and AVERNA, V. Research on volcanic soils of Sicily. (It) *Tec. Agr.* 20(1):3-20. Ref. Jan./Feb. 1968. 16 T22  
English summary.  
Profiles.
- 99746 MAIGNIEN, R. Induration of the horizons of laterite soils. (Fr) France. Office Rech. Sci. Tech. Outre-Mer. Cah. O.R.S.T.O.M. *Pedol.* 4(4):29-31. 1966. 56.9 F84
- 99747 MAIGNIEN, R. Intensity of laterization. Characterization of different phases. (Fr) France. Office Rech. Sci. Tech. Outre-Mer. Cah. O.R.S.T.O.M. *Pedol.* 4(4):21-24. 1966. 56.9 F84
- 99748 MARTIN, D. Hydromorphic laterite soils. (Fr) France. Office Rech. Sci. Tech. Outre-Mer. Cah. O.R.S.T.O.M. *Pedol.* 4(4):39-43. 1966. 56.9 F84
- 99749 MELFI, A. J., GIRARDI, V. A. V., and MONIZ, A. C. Mineralogy of the soils of the experimental station "Theodoreto de Camargo" Campinas. (Por) *Bragantia* 25(1):9-30. 1966. 102.5 B73Tb  
English summary.  
Soil classification.
- 99750 MISHRA, D. P. A practical procedure for pre-irrigation soil survey in Orissa. *J. Soil Water Conserv. India* 15(1/2):50-54. Jan./June 1967. 56.8 J824
- 99751 MIYAZAWA, K. Volcanic ash soils in Miura Peninsula. (Ja) *Pedologist* 11(1):25-32. June 1967. 56.8 P344  
English summary.
- 99752 MOORMANN, F. R. Morphology, genesis and occurrence of acid sulphate soils (cat-clays) in deltas of the humid Tropics. *Symp. Sci. Probl. Humid Trop. Zone Deltas Implication. Proc.* 1966:103-106. GB1205.S3
- 99753 MORGENSTERN, H. Soil forms and their properties in the northern part of the loess-loam hill area of Central Saxony. (Ge) *Albrecht-Thaer-Arch.* 11(9):801-823. Ref. 1967. 18A11  
Regional distribution and problems in genesis and classification.  
English summary.
- 99754 NAGATSUKA, S. Red weathering crusts and present pedogenesis in warm-temperate region of central Japan. Preliminary report. *Pedologist* 11(1):98-108, map. Ref. June 1967. 56.8 P344
- 99755 NEJGEBAUER, V., and KUKIN, A. A contribution to the study of hydromorphic Smonitza soils of the Tisa River basin. (Se) *Novi Sad. Poljopr. Fak. Letop. Naucnih Rad.* 10:5-16. Ref. 1966. 106.6 N85  
English summary.
- 99756 NEMECEK, J. On the mapping of soils in Belgium. (Cz) *Prague. Vyzk. Ustav Zemed. Vestn.* 13(7):305-308. 1966. 19.5 C333
- 99757 NIKIFOROVA, E. M. Brown Forest soils in the Prut-Cheremosh foothills of the Eastern Carpathian land. (Rus) *Moscow Univ. Vestnik. Ser. 5, Geogr.* 2:120-124. Mar./Apr. 1967. 331.9 M85
- 99758 OHYA, M. Comparative study on the geomorphology and flooding in the plains of the Cho-Shui-Chi, Chao-Phya, Irrawaddy and Ganges. *Symp. Sci. Probl. Humid Trop. Zone Deltas Implications. Proc.* 1966:23-28, map. GB1205.S3
- 99759 OTOWA, M. The nomenclature of soil horizons in paddy soils. (Ja) *Tokyo. Nat. Inst. Agr. Sci. Bull. Ser. B (Soils Fert.)* 18:1-48. Ref. Jan. 1967. 56.9 C432  
English summary.
- 99760 PREDEL, F., BURT, M., and TEACI, D. Contributions to soil survey for experiment plots. (Rum) *Bucharest. Inst. Cent. Cercet. Agr. Sect. Pedol. An.* 34:291-301, map. 1966, pub. 1967. 21 R86A  
English summary.
- 99761 PULLAN, R. A. A morphological classification of lateritic ironstones and ferruginised rocks in Northern Nigeria. *Nigerian J. Sci.* 1(2):161-174. Ref. July 1967. Q1.N5
- 99762 RAYCHAUDHURY, S. P. Soil correlation. *J. Soil Water Conserv. India* 15(1/2):15-19. Jan./June 1967. 56.8 J824
- 99763 RIQUIER, J. Definition and classification of laterite soils at Madagascar. (Fr) France. Office Rech. Sci. Tech. Outre-Mer. Cah. O.R. S.T.O.M. *Pedol.* 4(4):75-88, map. 1966. 56.9 F84
- 99764 SANDU, G. Salt sources in the salinization and alkalization of the soils from the Danube flood plain. (Rum) *Bucharest. Inst. Cent. Cercet. Agr. Sect. Pedol. An.* 34:333-345. Ref. 1966, pub. 1967. 21 R86A  
English summary.
- 99765 SATYANARAYANA, K. V. S., and SRINIVASAN, T. R. Soil survey in identifying priority areas for soil conservation with special reference to Chambal catchment. *J. Soil Water Conserv. India* 15(1/2):42-43. Jan./June 1967. 56.8 J824
- 99766 SCHMID, G. On grey carbonate soils ("Kalkpaternia") from loam flood deposits of the South Bavarian primeval stream valleys. (Ge) *Bodenkultur* 19(1):1-9. Feb. 1968. 19 B635  
English summary.  
Study of profiles.
- 99767 SEGALLEN, P. Changes of primary minerals, synthesis of secondary minerals, during laterization. (Fr) France. Office Rech. Sci. Tech. Outre-Mer. Cah. O.R.S.T.O.M. *Pedol.* 4(4):5-13. Ref. 1966. 56.9 F84
- 99768 SEGALLEN, P. The process of laterization and its limit. (Fr) France. Office Rech. Sci. Tech. Outre-Mer. Cah. O.R.S.T.O.M. *Pedol.* 4(4):15-20. Ref. 1966. 56.9 F84
- 99769 SEIBERT, P. A ground water gradation map with illustration of water properties. (Ge) *Bayer. Landwirt. Jahrbuch* 44(spec.no.3):100-103. Ref. 1967. 18 L24  
With use of plant ecology and vegetation maps.
- 99770 SERVAT, E., and DUPIUS, M. Pedological studies and the management of orchards. (Fr) *Congr. Pomol. [Compt. Rend.]* 97:71-78. Oct. 6, 7, 8, 1966. 93.09 C7643  
In France.
- 99771 SHIN, Y. H., and KIM, Y. S. Study for paddy soil classification in Cheonlabuk-do and certain profile characteristics which influence the rice yield. (Ko) *Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep.* 10(3):37-49. Ref. Sept. 1967. 22.5 K843  
English summary.

- 99772 SIMONSON, R. W., and RIEGER, S. Soils of the Anadeth suborder in Alaska. *Soil Sci. Soc. Amer. Proc.* 31(5):692-699, map. Ref. Sept./Oct. 1967. 56.9 So3
- 99773 SINGER, A. The argillation of sub-marine tuffs from the Mount Carmel, Israel. *Clay Miner.* 7 (1):101-110, map. Ref. July 1967. QE391.K2C7
- 99774 SINGH, B., and VERMA, A. N. Studies in alluvial soils of Dhampur sugar factory zone district Bijnor (U.P.). *Sugar Technol. Ass. India Proc.*, 35th Annu. Conv., pt. 1:39-48. Ref. 1967. 65.9 Su35P
- 99775 SIOLI, H. Soils in the estuary of the Amazon. *Symp. Sci. Probl. Humid Trop. Zone Deltas Implications. Proc.* 1966:89-96, map. Ref. GB1205.S3
- 99776 SOURDAT, M. Critical study of some soil profiles of the Pampas observed in the southeast of the province of Buenos-Aires. (Fr) *France Office Rech. Sci. Tech. Outre-Mer Cah. O.R.S.T.-O.M. Pedol.* 5(1):83-101, map. 1967. 56.9 F84 English summary.
- 99777 SPAN, H. Sanding of fen grasslands. (Du) *Neth. Prov. Dir. Rijkslandbouwvoorlichting Friesland. Voorlichting Onderz. Grasland Veehouderij* 1965:80-81. 1966. SF15.N4A3
- 99778 SWINDALE, L. D. Soil classification and its relationship to soil use. *Hawaii. Univ. Ext. Misc. Publ.* 39:22-25. Mar. 1967. S544.3 H3H3
- 99779 TRICART, J. The place of geomorphology in studies of the development of tropical deltas. (Fr) *Symp. Sci. Probl. Humid Trop. Zone Deltas Implication. Proc.* 1966:15-22. GB1205.S3  
English summary.  
Chiefly on maps.  
Includes discussion.
- 99780 U. S. SOIL CONSERVATION SERV. Soil survey laboratory methods and procedures for collecting soil samples. U. S. Soil Conserv. Serv. *Soil Surv. Invest. Rep.* 1,50 p. Ref. 1967. aS591.A2
- 99781 U. S. SOIL CONSERVATION. Soil survey of Columbiana County, Ohio, by H. D. Lessig, W. F. Hale, and J. L. Yohn. Washington, 1968. 132 p., map. Ref. aS591.A3L42  
Ohio Department of Natural Resources, Div. of Land and Soil and Ohio Agricultural Experiment Station, cooperating.
- 99782 U. S. SOIL CONSERVATION SERV. Soil survey of Giles County, Tennessee, by J. C. True, J. F. Campbell, E. P. Davis, and D. L. Montgomery. Washington, 1968. 69 p., map. Ref. aS591.A3S64  
Tennessee Agricultural Experiment Station, cooperating.
- 99783 U. S. SOIL CONSERVATION SERV. Soil survey of Randolph County, Alabama, by W. B. Parker, B. D. Batchelor, O. R. Carter, L. A. Dungan, and H. L. Mathews. Washington, 1967. 69 p., map. Ref. aS591.A3P32  
Alabama Agricultural Experiment Station, and Alabama Department of Agriculture and Industries, cooperating.
- 99784 U. S. SOIL CONSERVATION SERV. Soil survey of Robertson County, Tennessee, by R. H. Moneymaker, J. F. Brasfield, J. B. Cothran, B. B. Hinton, E. T. Lampley, and J. P. Sutton. Washington, 1968. 61 p., map. Ref. aS591.A3S65  
Tennessee Agricultural Experiment Station, cooperating.
- 99785 VERDADE, F. DA C., and HUNGRIA, L. S. Genetic study of the organic basin of the Paraiba River Valley. (Por) *Bragantia* 25(1):189-202, map. 1966. 102.5 B73Tb  
English summary.
- 99786 VERSTAPPEN, H. T. The use of aerial photographs in delta studies. *Symp. Sci. Probl. Humid Trop. Zone Deltas Implications. Proc.* 1966:29-33. GB1205.S3  
Soils.
- 99787 VOLKER, A. Tentative classification and comparison with deltas of other climatic regions. *Symp. Sci. Probl. Humid Trop. Zone Deltas Implications. Proc.* 1966:399-408. Ref. GB1205.S3  
Includes connection with soil genesis.
- 99788 WALKER, T. W. Developments to be expected in mineral nutrient requirements. *New Zeal. Agr. Sci.* 2/3:87-90. Nov. 1967. S17.N4  
Based on soil forming processes.
- 99789 WATSON, B., LONG, J., and STROESENREUTH-ER, N. Soil [Conservation Service] workshop helps Michigan sanitarians prevent public health hazards. *Soil Conserv.* 33(12):281. July 1968. 1.6 So3S  
Soil surveys.
- 99790 WICHTMANN, H. The importance of the 1:25000 soil map for the planning of reclamation measures, illustrated by the Soest leaf. (Ge) *Bayer. Landwirt. Jahrbuch* 44(spec.no.3): 96-99. Ref. 1967. 18 L24
- 99791 WILSON, M. J. The clay mineralogy of some soils derived from a biotite-rich quartz-babbro in the Strathdon area, Aberdeenshire. *Clay Miner.* 7(1):91-100. Ref. July 1967. QE391.K2C7
- 99792 YAMADA, S. A proposal to the future soil science from the standpoint of soil genesis and classification. (Ja) *Pedologist* 11(1):7-14. June 1967. 56.8 P344

## SOIL MANAGEMENT

- 99793 ARIZONA WATERSHED SYMPOSIUM. Proceedings, 11th annual symposium, September 20, 1967. Tempe, 1967. 38 p. 292.9 Ar425
- 99794 ATKINSON, K., and BEAUMONT, P. Watershed management in northern Jordan. *World Crops* 19(4):62-65. Sept. 1967. 281.8 W892
- 99795 CORDOBA G., J., and VILLEGAS, W., A. Estudio preliminar para el uso y manejo de la cuenca de captacion del embalse La Fe [Preliminary study for the use and management of the catchment basin of the La Fe dam]. *Inst. Geogr. Agustin Codazzi. Dep. Agrol. [Monogr.]* 2(2), 79 p., map. 1966. S15.155  
Bibliography, p. 71-75.  
Includes soils, land tenure and use, and forest ecology of the watershed.
- 99796 ENGLAND, C. B., and ONSTAD, C. A. Isolation and characterization of hydrologic response units within agricultural watersheds. *Water Resources Res.* 4(1):73-77, map. Ref. Feb. 1968. 292.8 W295
- 99797 HICKOK, R. B. Water management on semi-arid watersheds. *Ariz. Watershed Symp. Annu. Proc.* Sept. 1967:9-14, map. 292.9 Ar425
- 99798 JOHNSON, N. E. Arizona's new department of watershed and forestry. *Ariz. Watershed Symp. Annu. Proc.* Sept. 1967:36-38. 292.9 Ar425  
The Watershed and Forestry Division of the Land Department.
- 99799 JONAS, F., and MALY, V. Reclamation of land in strip-mined areas of the German Democratic Republic. (Cz) *Prague. Vyzk. Ustav Zemed. Vestn.* 13(4):154-164. 1966. 19.5 C333
- 99800 LASKOWSKI, S. The comparison of working of after-harvest cultivation, supplementary crop and stubble catch-crop in the rotation link. (Pol) *Stettin. Wyzsza Szkola Roln. Zeszyty Nauk.* 25:52-55. 1966, pub. 1967. 20.5 St4  
English summary.
- 99801 LASKOWSKI, S., and ZURANSKI, S. The stand choice for mangolds and its after-effect in the rotation link. (Pol) *Stettin. Wyzsza Szkola Roln. Zeszyty Nauk.* 25:55-59. 1966, pub. 1967. 20.5 St4
- 99802 MISHRA, P. R., DAYAL, R., and BHOLA, S. N. Case study in watershed research. *Indian Forest.* 93(6):411-412. June 1967. 99.8 In2



- 99803 MIYASAKA, S., and others. Effects of the incorporation of non decomposed organic matter into the soil immediately before planting time of dry beans. (Por) *Bragantia* 25(2):349-363. 1966. 102.5 B73Tb  
A. P. De Camargo, R. Inforzato, and T. Igue, joint authors.  
English summary.
- 99804 REVINGTON, E. D. The scope of civil engineering in a catchment plan. *New Zeal. J. Forest.* 12(2):102-113. 1967. 99.8 C162
- 99805 SHETTAR, M. G. Development of watersheds of river valley projects through soil conservation measures. *J. Soil Water Conserv. India* 15 (1/2):33-36. Jan./June 1967. 56.8 J824
- 99806 SUHR, W. Watershed action program - Tonto National Forest. *Ariz. Watershed Symp. Annu. Proc.* Sept.1967:20-24, map. 292.9 Ar425
- 99807 TAMHANE, R. V. Watershed protection and flood prevention in the River Valley projects. *J. Soil Water Conserv. India* 15(1/2):20-29. Jan./June 1967. 56.8 J824
- 99808 T'OJI KAERYANG CHOHP YONHAPHO. T'oji kaeryang saop isiyonsa [Twenty-year history of soil improvement], Edited by K. S. Pak. Seoul, 1967. 827 p. HD174.K876
- 99809 U. S. DEPT. OF AGRICULTURE. Restoring surface-mined land. U. S. D. A. Misc. Publ. 1082, 18 p. 1968. 1 Ag84M
- 99810 VAN WYK, S. P. Nurture potential for profit. *Farming S. Afr.* 43(12):47-53. Mar.1968. 24 So842  
Soil management.
- 99811 VASKAN, G. K. Preparing plum soil in orchard. (Rus) *Sadvodstvo* 12:19. Dec.1967. 80 Sa13
- 99812 WARSKOW, W. L. The Salt River Valley Water Users' Association's watershed rehabilitation program: a progress report. *Ariz. Watershed Symp. Annu. Proc.* Sept.1967:25-27, map. 292.9 Ar425
- 99813 WOODS, L. G. Watershed action programs. *Ariz. Watershed Symp. Annu. Proc.* Sept.1967: 15. 292.9 Ar425
- Soil Fertility
- 99814 AHMED, K. K., VENKATACHALAM, S., and KRISHNAMURTHY, P. Correlation of soil tests for phosphorus with response to added phosphorus in Red soils of Coimbatore. *Madras Agr. J.* 54(9):465-469. Ref. Sept.1967. 22 M262  
Ragi.
- 99815 AL'SHEVSKII, N. G. The effect of microelements on yield and quality of sugar beets. (Rus) *Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf.* 1967:245-250. S651.Z5
- 99816 ANANTHAPADMANABHAN, C. D., APPA-DURAI, R., and SESHU, K. A. Optimum dose of fertilizers for ragi in the Lower Bhavani Project. *Madras Agr. J.* 54(12):609-612. Dec.1967. 22 M262
- 99817 ANDERSON, C. A., and CALVERT, D. V. Effects on phosphate fertilizer on young citrus trees on flatwood soils. *Fla. State Hort. Soc. Proc.* 80:19-25. Ref. May 1, 1968. 81 F66
- 99818 ANGELI, L. Fertilizing experiment with table redpepper. (Hu) *Kertesz. Szoleszeti Foiskola. Kiadv.* 3(1):185-210. 1966. SB13.K4  
Stable manures and mineral fertilizers.
- 99819 ASKINAZI, D. L. Once more on conditions of using phosphate rock as fertilizers. (Rus) *Khim. Sel'skom Khoz.* 7:14-16. Ref. July 1967. 385 K524  
Field crops.
- 99820 AVRAMOVSKI, K. Top dressing of grapes. (Se) *Sovremeno Zemjod.* 14(5):10. May 1967. S13.S6
- 99821 BAKERMANS, W. A. P. Investigation on the factors limiting profitable beet production on sandy soils. (Du) *Neth. Dir. Landbouw. Landbouwvoorlichting* 24(12):439-449. Dec.1967. 12 N383M  
Fertilizers tests on fodder beets.
- 99822 BALCEREK, W. The effect of nitrogenous fertilization on the yields of two-mown mixtures off-shoots. (Pol) *Stettin. Wyzsza Roln. Zeszyty Nauk.* 25:117-119. 1966, pub.1967. 20.5 St4  
English summary.  
Forage plants.
- 99823 BARNASH, Z. S. The effect of nitrogen on the yield and quality of field crops under conditions prevailing in western Polesye, U.S.S.R. (Rus) *Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf.* 1967:288-290. S651.Z5
- 99824 BASTELAERE, H. VAN, and KEIJZER, R. DE. A 1967 test of early hothouse tomatoes using liquid fertilizer. (Fl) *Tuinbouwberichten* 31(11):379. Nov.1967. 80 T817
- 99825 BATES, T. E. Methods and times for fertilizer applications: cereal and forage crops. *Ontario Soil Crop Impr. Ass. Addresses Proc.* 1967: 58-59. 64.9 On83
- 99826 BATZ, G. Potatoes require generous doses of fertilizers. (Ge) *Kartoffelbau* 18(1):15. Jan. 1967. 75.8 K145  
For yields and quality.
- 99827 BAUER, A. Effects of zinc fertilizer on corn yield in southeastern North Dakota. *N. Dak. Farm Res.* 25(1):3-6. Sept./Oct.1967. 100 N813B
- 99828 BEDEI, M. I. Effect of mineral fertilizers on productivity of fescue [*Festuca*] meadows in the subalpine belt of the Carpathians. (Uk) *Ukr. Bot. Zh.* 25(1):55-61. Ref. Jan./Feb. 1968. 450 J8212J  
English summary.
- 99829 BEHR, A. A wet year means lime - three wet years mean a lot of lime! (Ge) *Zuckerrube* 16(6):20-21. Dec.1967. 66.8 Z82
- 99830 BENAC, R. Requirements in major elements by Arabica coffee grown in Bamoun-Land (Cameroun). 2. Foliar analysis. (Fr) *Cafe, Cacao, The* 10(4):311-335. Oct./Dec.1966. 68.8 C112  
English summary.
- 99831 BESTELAERE, H. VAN, and KEIJZER, R. DE. The influence of nitrogen, phosphorus, and potash in the use of liquid fertilizers. (Fl) *Tuinbouwberichten* 31(10):353-355. Oct.1967. 80 T817  
Effects on tomato yields.
- 99832 BIK, R. A., and WILCKE, R. Preliminary fertilizer trial with *Chrysanthemum*. (Du) *Aalsmeer. Proefsta. Bloemisterij. Jaarverslag* 1966:51-52. 86 Aa4
- 99833 BIK, R. A., and BROER, S. Preliminary trials with slow acting nitrogen fertilizers for roses. (Du) *Aalsmeer. Proefsta. Bloemisterij. Jaarverslag* 1966:105-106. 86 Aa4
- 99834 BIK, R. A. Step trials with the fertilizing of *Azalea "Ambrosius"* with nitrogen, phosphorus and potassium. (Du) *Aalsmeer. Proefsta. Bloemisterij. Jaarverslag* 1966:40-41. 86 Aa4
- 99835 BIK, R. A. Trials with slow acting nitrogen fertilizers for *Cyclamen*. (Du) *Aalsmeer. Proefsta. Bloemisterij. Jaarverslag* 1966:59-61. 86 Aa4
- 99836 BIK, R. A. Trials with slow working nitrogen fertilizers for potted *Chrysanthemum*. (Du) *Aalsmeer. Proefsta. Bloemisterij. Jaarverslag* 1966:53-54. 86 Aa4
- 99837 BLASER, R. E. Liming and fertilizing turf-grasses. *West. Va. Agr. Exp. Sta. Misc. Publ.* 5:21-26. May 1968. S127.E2  
Nitrogen, phosphorus, and potassium.
- 99838 BOEREMA, E. B. Placement of nitrogen fertilizer for rice in southern Australia. *Int. Rice Comm. News Lett.* 16(3):17-24. Ref. Sept.1967. 59.9 In83N

- 99839 BOLSENS, K. Fertilizing fruit trees. (Fr) Fruit Belg. 35(313):251-253. Sept. 1967. 80 F9493  
Organic, mineral and nitrogen fertilizers.
- 99840 BOLSENS, M. K. Fertilizing fruit trees: fertilizers on the plantation and application of fertilizers. (Fr) Fruit Belg. 35(312):287-289. Aug. 1967. 80 F9493
- 99841 BONDARENKO, V. M. The effect of nitrogen fertilizers combined with phosphorus and potassium on the yield and quality of hops. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:355-358. S651.Z5
- 99842 BOROS, R. Study of nutrient requirement of strawberry. (Hu) Kertesz. Szoleszeti Foiskola. Kiadv. 3(2):89-116. Ref. 1966. SB13.K4  
Fertilizing experiment.
- 99843 BRAMS, E. A., and FISKELL, J. G. A. Variability of root and soil analyses of a Valencia grove sampled in January. Fla. State Hort. Soc. Proc. 80:32-37. May 1, 1968. 81 F66
- 99844 BREDÁ, J., FREIRE, E. S., and ABRA-MIDES, E. Responses of sweet potatoes to increasing doses of nitrogen, phosphorus and potassium. (Por) Bragantia 25(2):291-296. 1966. 102.5 B73Tb  
English summary.
- 99845 BUCZAK, E. Some remarks on proper administration and effective making use of fertilizers (Pol) Nowe Roln. 16(4):11-12. 1967. 20.5 N86
- 99846 BURCZYK, H., and CWOJDZINSKI, W. Nitrogen fertilization of lucerne-grass mixtures. (Pol) Nowe Roln. 16(3):23-24. 1967. 20.5 N86
- 99847 BURSON, P. M. Fertilizer placement for corn. Minn. Sci. 24(2):10-12. Winter 1968. 100 M668
- 99848 CALDWELL, A. C., SEIM, E. C., and REHM, G. W. Sulfur deficiency in some Minnesota soils. Minn. Sci. 24(1):4-6, map. Fall 1967. 100 M668  
Fertilizer for alfalfa and corn.
- 99849 CAYFORD, J. H., and JARVIS, J. M. Fertilizing with ammonium nitrate improves red pine [*Pinus resinosa*] seed production. J. Forest. 65(6):402-403. June 1967. 99.8 F768
- 99850 CHEPIKOV, M. S. The effect of microelements (Cu, B) combined with nitrogen and potassium-phosphate fertilizers on the yield and quality of flax in dry soils. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:263-266. S651.Z5
- 99851 CHESNIN, L. Fall fertilizing can save time and money. Nebr. Univ. Coll. Agr. Home Econ. Quart. Serving Farm Ranch Home 11, i.e. 14(3):10-11. Fall 1967. 100 N27N  
Corn.
- 99852 COOPER, G. A look at liquid fertilizers. Arable Farmer 1(7):7, 9-10. May 1967. S3.A7  
Application in Great Britain.
- 99853 COOPER, G. A look at liquid fertilizers. Arable Farmer 1(8):20-21, 23. (Concl.) June 1967. S3.A7  
Application in Great Britain.
- 99854 CORNEIL, H. G. The efforts of governments and private investors in increasing the supply and use of chemical fertilizers in low income countries. Fert. Solutions 12(1):86-95. Jan./Feb. 1968. 57.8 So4
- 99855 DALAL, J. L., GILL, G. S., and BAINS, K. S. Study of fertilizer needs of linseed in Punjab. 2. NPK trials in the central districts. Punjab Agr. Univ. J. Res. 4(2):174-178. Ref. June 1967. S19.P8
- 99856 DEVERLA, N. A new approach to the fertilizing of peat areas. Forester 8(3):10-12. Dec. 1967. 99.8 F7635  
Forests.
- 99857 DIKSHIT, N. N., and others. Breeding rice varieties responsive to nitrogen fertilization in Uttar Pradesh. 1. Screening different strains for potential at two levels of fertility. Madras Agr. J. 54(9):489-491. Sept. 1967. 22 M262  
B. Sahai, J. C. Gupta, K. P. N. Singh, joint authors.  
Effect on yield in India.
- 99858 DOMRACHEV, D. I. Applying phosphorus and potassium fertilizers on clover. (Rus) Khim. Sel'skom Khoz. 5(6):4-6. June 1967. 385 K524  
Foliar application.
- 99859 DRAKE, F. R., and CURNOW, B. C. Sulphur in East Gippsland. J. Agr. [Melbourne] 65(6):229-233, map. June 1967. 23 V66J  
Pasture fertilizer.
- 99860 DUNCAN, O. W. Correction of zinc deficiency in linseed on the Darling Downs, Queensland. Queensland J. Agr. Anim. Sci. 24(3/4):301-307. Sept./Dec. 1967. 23 Q37  
Fertilizing.
- 99861 DUNCAN, O. W. Correction of zinc deficiency in maize on the Darling Downs, Queensland. Queensland J. Agr. Anim. Sci. 24(3/4):293-300. Sept./Dec. 1967. 23 Q37  
Fertilizing.
- 99862 DUNCAN, O. W. Correction of zinc deficiency in wheat on the Darling Downs, Queensland. Queensland J. Agr. Anim. Sci. 24(3/4):287-292. Sept./Dec. 1967. 23 Q37  
Fertilizing.
- 99863 DUNKER, R. Also on the spring tillage; Contract liming. (Ge) Lohnunternehmen Land-Förstwirtschaft. 23(3):72, 74. 1968. 58.8 D81  
Chiefly liming methods.
- 99864 DURING, C. Fertilizers and lime for North Auckland soils. New Zeal. Grassland Ass. Proc. 1967:15-23. 60.19 N48
- 99865 DZIKOVICH, K. A. Plant analysis as factor of determining the requirements of flax for boron fertilizers. (Rus) Khim. Sel'skom Khoz. 6(4):58-61. Apr. 1968. 385 K524
- 99866 FEDOROVA, N. A. The effect of nitrogen fertilizers on higher yields and grain quality of winter wheat in Polesye. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:60-64. S651.Z5
- 99867 FEKETE, Z., and TOTH, A. The effect of enriched peat fertilizing on grape in the Keszthely district. (Hu) Kertesz. Szoleszeti Foiskola. Kiadv. 3(2):359-377. Ref. 1966. SB13.K4
- 99868 FILHO, J. B., FREIRE, E. S., and ABRA-MIDES, E. Effect of nitrogen, phosphorus and potassium on sweet potatoes cultivated on "cerado" soils. (Por) Bragantia 25(1):241-251. 1966. 102.5 B73Tb  
English summary.
- 99869 FILIMONOV, D. A. Application of liquid nitrogen fertilizers on meadows. (Rus) Vses. Akad. Sel'skokhoz. Nauk V. I. Lenina. Dokl. 6:17-19. June 1967. 20 Akl
- 99870 FINN, R. F. Mineral nutrition. Walnut Workshop. Papers 1966:35-41. ASD397.W3W3  
Nitrogen and phosphorus fertilizer recommendations for forest species.
- 99871 FISHCHENKO, YU. G. The effect of nitrogen fertilizers on the yield and quality of winter rye grains. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:291-295. S651.Z5
- 99872 FISKELL, J. G. A., and others. Effect of fertilizer placements and rates on watermelon yields. Fla. State Hort. Soc. Proc. 80:168-173. Ref. May 1, 1968. 81 F66  
S. J. Locascio, P. H. Everett, and H. W. Lundy, joint authors.
- 99873 FOLSCHER, W. J., and BRUWER, A. A. B. Nutrient element status of leaves and quality characteristics of Valencia oranges. S. Afr. J. Agr. Sci. 10(1):267-277. Ref. Mar. 1967. 24 Su3
- 99874 FRYCEK, A. Application of mineral fertilizers on meadows and pastures. (Cz) Agrochemia [Bratislava] 7(10):299-301. Oct. 1967. 385 Ag88  
English summary.
- 99875 FUZZATTO, M. G., and CAVALERI, P. A. Correlation between cotton responses to phosphorus fertilization and chemical analysis on State of Sao Paulo soils. (Por) Bragantia 25(2):407-420. Ref. 1966. 102.5 B73Tb  
English summary.



- 99876 GAGNARD, J. Aspects of fertilizing in fruit culture. (Fr) Rev. Agr. France 70:33-35. Feb. 1968. 14 R326
- 99877 GARATTONI, C. Alfalfa fertilizing. (It) Agr. Zootec. 53(4):142-144. Apr. 1968. 16 R66
- 99878 GARNER, H. V. Results of fertilizer experiments on carrots in 1941 and 1942. J. Agr. Sci. [London] 69(2):209-215. Oct. 1967. 10 J822
- 99879 GARTNER, J. A. Fertilizer response of green panic [*Panicum maximum*] on the Atherton Tableland, Queensland. Queensland J. Agr. Anim. Sci. 24(3/4):245-252. Sept./Dec. 1967. 23 Q37
- 99880 GASSER, J. K. R., and PENNY, A. The value of urea nitrate and urea phosphate as nitrogen fertilizers for grass [*Lolium multiflorum*] and barley. J. Agr. Sci. [London] 69(1):139-145. Ref. Aug. 1967. 10 J822
- 99881 GEERING, J. Directions for the use of sewage sludge in Swiss forage and field culture. (Ge) Mitt. Schweiz. Landwirt. 16(1):1-16. Ref. Jan. 1968. 17 M69
- 99882 GEMBARZEWSKI, H. Mineral fertilization of lucerne-grass mixtures. (Pol) Nowe Roln. 16(3):22-23. 1967. 20.5 N86
- 99883 GERICKE, S. Successful phosphate fertilizing. (Ge) Kartoffelbau 18(1):8-9. Jan. 1967. 75.8 K145  
Potatoes.
- 99884 GETMANOV, P. I. Importance of minor element fertilizers while growing hemp on peat soils. (Rus) Khim. Sel'skom Khoz. 5(6):12-13. June 1967. 385 K524
- 99885 GIL BEROES, R. A., and MELENDEZ A., M. E. Comparison of two sources of phosphorus at different levels and its influence on yields of pangolagrass. (Sp) Jornadas. Agron. Mem., 6th Conf., v.2, paper 22, 7 p. 1966. S211.J6 1966
- 99886 GILL, G. S., BATRA, P. C., and SINGH, M. Effect of high doses of nitrogen on the forage of sudangrass (*Sorghum vulgare* var. sudanensis). Punjab Agr. Univ. J. Res. 4(2):179-184. Ref. June 1967. S19.P8  
Effects on the forage yields.
- 99887 GISIGER, L., and BONJOUR, R. Fertilization experiments on rape. (Ge) Schweiz. Landwirt. Forsch. 4(3):286-300. Ref. 1967. 17 Sch99  
English summary.  
Nitrogen, phosphoric acid, and potash.
- 99888 GODOVANYI, A. A. Activation of peat as a means to increase contents of available nitrogen forms and to raise the yield of potatoes. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:100-105. S651.Z5
- 99889 GORODNI, N. G., USTIMENKO, A. S., and ZHOLTONOGA, A. D. The effect of nitrogen fertilizers on the yield of peas and the formation of nodules. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:152-158. S651.Z5
- 99890 GREBENNIKOV, P. E., and ZAKHARYAN, N. A. Effects of fertilizers on yield and chemical composition of corn grown under conditions of Nagorno-Karabakh in the Azerbaijan SSR. (Rus) Khim. Sel'skom Khoz. 7:12-13. July 1967. 385 K524
- 99891 GRIGOR'EV, E. L., and IVANOVA, T. I. Effectiveness of nitrogen fertilizers applied on winter wheat as related to the content of organic matter in soil. (Rus) Khim. Sel'skom Khoz. 5(5):7-8. May 1967. 385 K524
- 99892 GRIMES, D. W., and HANWAY, J. J. An evaluation of the availability of K in crop residues. Soil Sci. Soc. Amer. Proc. 31(5):705-706. Sept./Oct. 1967. 56.9 So3
- 99893 GRUPCEV, M., and JAKOVSKI, B. Care of soils of fruit orchards. (Se) Sovremeno Zemjod. 14(4):11-12. Apr. 1967. S13.S6  
Includes green manures and mulching.
- 99894 GRUPCEV, M., and JAKOVSKI, B. Top dressing and irrigation of fruit. (Se) Sovremeno Zemjod. 13(6):6-8. June 1966. S13.S6
- 99895 GUGUVCEVSKI, M. Need for regular and abundant spring top dressing of winter wheat. (Se) Sovremeno Zemjod. 13(1):2-5. Jan. 1966. S13.S6
- 99896 GUGUVCEVSKI, M. Present state and future measures in the care of wheat. (Se) Sovremeno Zemjod. 14(2):7. Feb. 1967. S13.S6  
Application date of fertilizers.
- 99897 GUGUVCEVSKI, M. Top dressing of wheat. (Se) Sovremeno Zemjod. 13(12):2-3. Dec. 1966. S13.S6
- 99898 GUTSTEIN, Y., and KARADAVID, B. Yield and quality responses of irrigated sugar beet to manure, nitrogen and phosphorus fertilizers on three soil types in Israel. Israel J. Agr. Res. 17(4):199-212. Ref. Oct. 1967. 107 J552
- 99899 HAGSTROM, G. R., and KRESGE, C. B. A look at pop-up fertilizer. Fert. Solutions 12(1):48-53. Jan./Feb. 1968. 57.8 So4
- 99900 HAWAII FERTILIZER CONFERENCE. Proceedings, first annual [conference]. Hawaii. Univ. Ext. Misc. Publ. 39, 41 p. Ref. Mar. 1967. S544.3 H3H3
- 99901 HAYASE, T. On the slowly available nitrogen fertilizers. 1. (Ja) Tokyo. Nat. Inst. Agr. Sci. Bull. Ser. B (Soils Fert.) 18:129-303. Ref. Jan. 1967. 56.9 C432  
English summary.  
Chiefly for field crops.
- 99902 HEDDLE, R. G., and CROOKS, P. Long-term effects of fertilizers on herbage production. I-II. J. Agr. Sci. [London] 69(3):425-431, 433-441. Ref. Dec. 1967. 10 J822  
I, Yields and botanical composition, by R. G. Heddle; II, Chemical composition, by R. G. Heddle, and P. Crooks.  
Nitrogen, phosphorus and potassium as fertilizers and in forage plants.
- 99903 HEDDLE, R. G. Nitrogenous fertilization of Italian ryegrass in spring. Brit. Grassland Soc. J. 23(1):69-74. Mar. 1968. 60.19 B773  
Experiments in Scotland.
- 99904 HIBMA, H., and POSTMA, J. Decline: lack of calcium threatens the fertility of the Frisian marsh area. (Du) Neth. Provinc. Dir. Rijkslandbouwvoorlichting Friesland, Voorlichting Onderz. 1966:24-26. SB183.N4A3
- 99905 HOCKER, H. Forest fertilization. Forest Notes 96:25-27. Winter 1967/68. 98.8 F7691  
Nitrogen, phosphorus, potassium.
- 99906 HOLST, E. M. The importance of soil fertility in raising sugarbeets. Holly Agr. News 16(1):18-19. Spring 1968. 66.8 H72
- 99907 HOPKINS, D. P. Fertilizers. World Crops. 19(1):85-87. Ref. Mar. 1967. 281.8 W892
- 99908 HOWLETT, F. S., and KRETCHMAN, D. W. Effects of increasing amounts of nitrogen and potassium upon yield and quality in the greenhouse tomato. Ohio. Agr. Res. Develop. Center. Res. Sum. 26:15-19. Apr. 1968. 100 Oh3Rs
- 99909 HUBERT, G., and OUELLETTE, G. J. Behavior of various magnesium fertilizers in the soil. (Fr) Natur. Can. 94(6):727-734. Ref. Nov./Dec. 1967. 410 N216  
English summary.  
In relation to potato and alfalfa nutrition.
- 99910 HULETT, J. R. A method of selecting profitable nitrogen fertilizer rates for wheat in eastern Washington and eastern Oregon. Wash. Agr. Exp. Sta. Circ. 486, 12 p. May 1968. 100 W27S
- 99911 HUNTER, R. E., COLE, J. V., and MACK, E. A. Fruit potential of the Wahluke Slope of the Columbia Basin Project. Wash. State Hort. Ass. Proc. 1967:113-122, map. 81 W273  
Chiefly on suitability of soils and irrigation.

- 99912 IL'INSKII, N. N., and SUGROBOB, M. M. Effectiveness of mineral fertilizers applied on grain in the Rostov Region. (Rus) Khim. Sel'skom Khoz. 5(5):59-62. May 1967. 385 K524
- 99913 ILKOV, D., KLEVTSOV, V., and KHRISTOV, I. Effect and after-effect of manure and mineral fertilizers on leached Chernozem Smolnitza soils. (Bu) Pochvozn. Agrokhim. 2(5):45-53. 1967. S590.P6  
English summary.  
In Bulgaria.
- 99914 IVANOV, I. A. Applying superphosphates on potatoes grown on poorly cultivated sandy soils in the Pskov Region. (Rus) Khim. Sel'skom Khoz. 7:78-79. July 1967. 385 K524
- 99915 IVANOV, M. P. Nitrogen fertilizers and increase of proteins in animal nutrition. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:322-324. S651.Z5  
Forage plants.
- 99916 IVANOV, N. Experimental results concerning the application of chemical fertilizers to reed crops. (Rum) Celul. Hirtie 15(9):339-343. Sept. 1966. 309.8 C334  
English summary, sup., p.2.  
Arundo donax.
- 99917 JACKSON, T. L., and MACK, H. J. Bush bean management experiments. Oreg. Agr. Exp. Sta. Spec. Rep. 254:11-13. Apr. 1968. 100 Or3M  
Nitrogen fertilization and planting.
- 99918 JACKSON, T. L., and MACK, H. J. Methods of fertilizer application. Oreg. Agr. Exp. Sta. Spec. Rep. 254:13-15. Apr. 1968. 100 Or3M  
Phosphorus and potassium applied to sweet-corn.
- 99919 JOHNSON, J. R. Georgia's soil fertility program. Limestone 4(12):23,51. Summer 1967. 294.8 L62  
Use of lime.
- 99920 JONGKIND, M. Influence of topdressing on forcing. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:68. 86 Aa4  
Forsythia intermedia Spectabilis.
- 99921 JONSSON, A. Application of liquid ammonia. (Sw) Svensk Frotidn. 36(6):94. June 15, 1967. 61.8 Sv2
- 99922 KALCKMANN, R. E. Fertilization. I. A factor of basic importance in Brazilian food production. (Por) Pesquisa Agropecuar. Brasil. 1: 215-219. 1966. S15.P42  
English summary.  
Field crops.
- 99923 KALCKMANN, R. E. Fertilization. II. Some problems in the use of fertilizers. (Por) Pesquisa Agropecuar. Brasil. 1:221-223. 1966. S15.P42  
English summary.
- 99924 KANIVETS, I. I. Nitrogen in soil and fertilizers and its effect on maintaining high and stable yields in Polesye. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967: 7-22. S651.Z5  
Field crops.
- 99925 KANWAR, B. S., and BHUMBLA, D. R. Evaluation of different methods for the determination of available phosphorus in acid soils of the Punjab. Punjab Agr. Univ. J. Res. 4(1):7-15. Ref. Mar. 1967. S19.P8
- 99926 KANWAR, J. S., SEKHON, G. S., and BHUMBLA, D. R. Manuring requirements of a fixed crop rotation. I. Direct, residual and cumulative effects of nitrogenous, phosphatic and potassic fertilizers and bulky organic manure on the yield of wheat. Punjab Agr. Univ. J. Res. 4(2):162-165. June 1967. S19.P8
- 99927 KARASYUK, I. M., and LOPATIN, L. V. Comparative efficiency of liquid nitrogenous fertilizers applied on corn. (Uk) Visn. Sil's'kohospod. Nauk. 1:52-56. Jan. 1967. 20 V82  
English summary.
- 99928 KARASYUK, I. M. The effects of ammonia liquor on yields of sugar beets and corn under conditions of the forest steppes of the Ukraine. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:65-73. S651.Z5
- 99929 KARIM, A. O. M. B. Nutrient status of different soil tracts of East Pakistan. Symp. Sci. Probl. Humid Trop. Zone Deltas Implications. Proc. 1966:97-101. GB1205.S3
- 99930 KENWORTHY, A. L. A low cost fertilizer program for high quality fruit. Mich. State Hort. Soc. Annu. Rep. 96:125-129. 1966, pub. 1967. 81 M58  
Includes use of foliar diagnosis.
- 99931 KERESKES, J. Irrigation of Solanum laciniatum Ait. with nutrient solution. (Hu) Kertesz. Szoleszeti Foiskola. Kiadv. 3(1):211-218. 1966. SB13.K4  
Nitrogen, potassium and sodium application.
- 99932 KHANIN, M. D., and KRIVICH, N. YA. Effectiveness of various forms of potassium fertilizers on nitrogen and phosphorus fertilized peat-podzolic soils. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:453-455. S651.Z5
- 99933 KIM, S. I. Effect of fertilizer upon new bamboo grove. (Ko) Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep. 9(2):51-57. Ref. Dec. 1966. 22.5 K843
- 99934 KINCL, V. Agroecomic problems in the application of mineral fertilizers in Slovenia. (Sl) Nase Gospod. 12(5):140-144. Ref. May 25, 1966. 280.8 N17
- 99935 KLOCK, G. O. Sweet corn. Oreg. Agr. Exp. Sta. Spec. Rep. 254:26-28. Apr. 1968. 100 Or3M  
Nitrogen fertilization and irrigation tests.
- 99936 KLUGEN, Z. A. Dynamics of mobile nitrogen and other nutritive substances for apple trees when sodding around the trunks and introducing mineral fertilizers in peat-podzolic soils. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:383-387. S651.Z5  
Effect on yields
- 99937 KNAUER, N. Influence of increased supplies of phosphate and potassium on the yield of sugar beets. (Ge) Zucker 20(1):4-9. Jan. 1, 1967. 65.8 Z82  
English summary.  
Tests in Germany.
- 99938 KOFOED, A. D., LINDHARD, J., and KLAUSEN, P. S. Experiments with anhydrous ammonia as a nitrogenous fertilizer. (Da) Tidsskr. Planteavl 71(2):145-225. Ref. 1967. 11 T439  
English summary.  
Field crop fertilizing.
- 99939 KOMINAR, O. A. The effect of gabbro and epidotechloric slate on the yield of farm crops and the nitrogen content of soils and plants. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:512-514. S651.Z5  
Field crops.
- 99940 KOREN'KOV, D. A., and ROMANYUK, L. I. Liquid nitrogen fertilizers and their use. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:54-59. S651.Z5
- 99941 KOVAL'CHUK, P. V. The effect of fertilizers on the yield and quality of various types of potatoes. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:80-83. S651.Z5
- 99942 KOVAL'CHUK, V. P. The nutritive regime of peat-podzolic soils and the fertilizer coefficient applicable to barley. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967: 482-486. S651.Z5
- 99943 KRUEGER, C. R., and WALSH, L. M. The use of nitrogen on grasses and silage. Agr. Nitrogen News 17(4):14-16, 18. July/Aug. 1967. 381 Ag82



- 99944 KWARTA, C., and MASLANKOWSKA, L. Yield and the flora changes of newly established meadows according to some soil conditions and fertilization. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:267-271. 1966, pub. 1967. 20.5 St4  
English summary.
- 99945 LAMBERT, D. A. The effects of nitrogen and irrigation on timothy (*Phleum pratense*) grown for production of seed. I-II. J. Agr. Sci. [London] 69(2):225-239. Ref. Oct. 1967. 10 J822
- 99946 LASKOWSKI, S. The manurial value of companion crops ploughed-under for potatoes. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:49-52. 1966, pub. 1967. 20.5 St4  
English summary.
- 99947 LAUENSTEIN, A. Still another word on applying lime. (Ge) Kartoffelbau 18(2):40. Feb. 1967. 75.8 K145  
Necessary for potatoes.
- 99948 LAZURS'KYI, O. V., and KARDYNALOV'SKA, R. I. Effect of fertilizers on corn yield and its quality. (Uk) Visn. Sil's'kohospod. Nauk. 1:46-52. Jan. 1967. 20 V82  
Russian summary.
- 99949 LEBIEDZ, S. The effect of dates and rates of nitrogen fertilization on yield components and grain quality of spring wheat. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:232-236. 1966, pub. 1967. 20.5 St4  
English summary.
- 99950 LEBIEDZ, S. The effect of dates and rates of nitrogen fertilization on yield components and grain quality of winter wheat. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:236-240. 1966, pub. 1967. 20.5 St4  
English summary.
- 99951 LEBIEDZ, S. The effect of dates and rates of nitrogen fertilization on yield components and grain quality of winter wheat. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:240-244. 1966, pub. 1967. 20.5 St4  
English summary.
- 99952 LELEKOV, I. Fertilizers for grapes and their application. (Se) Sovremeno Zemjod. 13(1):11-13. Jan. 1966. S13.86
- 99953 LICHEV, S. The effect of dressing wheat crops grown on slopes and eroded soils. (Bu) Pochvozn. Agrokhim. 2(4):49-56. Ref. 1967. S590. P6  
English summary.  
In Bulgaria.
- 99954 LIN, C. F. Fertilizer experiments on lupine interplanted with tea bushes. (Ch) Taiwan Agr. Quart. 3(2):55-66. June 1967. S19. T3  
English summary.
- 99955 LITVAK, SH. I. The effectiveness of liquid nitrogen fertilizers on potatoes and corn in Polesye. (Rus) Zhytomys'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:49-53. S651. Z5  
Effect on yields.
- 99956 LORENZ, O. A. The new twist in tomato fertilization. Agrichem. West 10(5):8, 13. May 1967. 381 Ag85
- 99957 LYDUCH, L. Influence of organic fertilizing on hay yields of peat meadows. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:271-273. 1966, pub. 1967. 20.5 St4  
German summary.
- 99958 MADRAIMOV, I. L., and TASHMATOVA, A. N. Effectiveness of potassium fertilizer applied on cotton grown on light Sierozem soils. (Rus) Khim. Sel'skom Khoz. 5(6):2-3. June 1967. 385 K524
- 99959 MAERCKE, D. VAN. Foliar application of urea to fodder beet and kale. (Fl) Ghent. Rijksfac. Landbouwwetensch. Meded. 31(4):1209-1229. 1966. 105.1 G344  
English summary.
- 99960 MALM, N. R., and FINKNER, M. D. Fertilizer rates for irrigated grain sorghum on the High Plains. N. Mex. Agr. Exp. Sta. Bull. 523, 13 p. Ref. Jan. 1968. 100 N465  
Nitrogen, phosphorus, and potassium.
- 99961 MASCARENHAS, H. A. A., and others. Influence of various sources of nitrogen and dates of their application in the dry bean culture. (Por) Bragantia 25(1):XLI-XLIII. 1966. 102.5 B73Tb  
S. Miyasaka, T. Igue, A. de A. Veiga, and S. Alves, joint authors.  
English summary.
- 99962 MASLANKOWSKA, L. The effect of different composition of mixtures applied to sowing on the peat meadow on the yield and chemical composition of hay. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:254-253. 1966, pub. 1967. 20.5 St4  
English summary.  
Fertilizers.
- 99963 MASLANKOWSKA, L. The effectiveness of mineral and organic fertilization on the new-established peat meadow. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:258-261. 1966, pub. 1967. 20.5 St4  
English summary.
- 99964 MATE, F. Increasing fertility of mountain and hill soils and current problems of scientific investigation. (Hu) Agrartud. Kozlem. 26(3):465-470. 1967. 19 B855  
Erosion control, soil improvement and fertilizers.
- 99965 MATHEW, P. K., and MIR, A. Nutrient status of coffee soils in South India and its influence on crop yields. Indian Coffee 32(1):11-24. Ref. Jan. 1968. 68.29 In23M
- 99966 MAWLY, S. H. Fertilizer trials on cotton and other crops in South Arabia. Empire Cotton Growing Rev. 44(4):257-264, map. Oct. 1967. 72.8 Em7  
Field crops, fruits, and vegetables.
- 99967 MAZZANI, B., and others. Recent data on peanut fertilizing on the Guanipa Mesa. (Sp) Jornadas Agron. Mem., 6th Conf., v. 2, paper 20.9 p. 1966. S211. J6 1966  
S. Inojosa, D. Boscan, and J. Allievi, joint authors.
- 99968 MCNAUGHT, K. J., and LUDECKE, T. E. Effect of fertilisers on pasture magnesium levels. Ruakura Farmers Conf. Week Proc. 1967:63-69. Apr. 9, 1968. 49.9 R82  
For dairy cattle in New Zealand.
- 99969 MERZHVINSKAYA, I. M. The effect of foliar application of minor elements on the yield and quality of strawberries. (Rus) Zhytomys'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:397-399. S651. Z5
- 99970 MILLER, M. H. Fertility for top forage production. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:170-173. 64.9 On83  
Fertilizers application.
- 99971 MILLER, M. H. The future in fertilizers. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:31-33. 64.9 On83  
Effects on yields.
- 99972 MILLER, M. H. Predicting the nitrogen requirement of crops. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:111-112. 64.9 On83
- 99973 MIYASAKA, S., ALENCAR, C., and FREIRE, E. S. Effects of N, P, K, S and micro-nutrients on soybeans on poor land of Itare County. (Por) Bragantia 25(1):XXIX-XXXIII. 1966. 102.5 B73Tb  
English summary.  
Fertilizer trials.
- 99974 MIYASAKA, S., FREIRE, E. S., and ABRA-MIDES, E. Fertilizing soybeans. IV. Experiments on methods of applying liming materials. (Por) Bragantia 25(1):223-231. Ref. 1966. 102.5 B73Tb  
English summary.
- 99975 MIYASAKA, S., and others. Green manures for dry beans. (Por) Bragantia 25(1):277-289. Ref. 1966. 102.5 B73Tb  
E. S. Freire, H. A. A. Mascarenhas, C. Nery, M. Campana, and G. de Sordi, joint authors.  
English summary.

- 99976 MIYASAKA, S., and others. Mineral fertilizers for dry beans. II-VIII. (Por) *Bragantia* 25(1): 145-159, 179-188; (2): 297-305, 307-316, 371-405. Ref. 1966. 102.5 B73Tb  
E. S. Freire, T. Igue, M. Campana, S. Alves, T. R. Rocha, A. Pettinelli, N. C. Schmidt, N. Leite, H. A. A. Mascarenhas, E. Issa, and M. Alcover, joint authors.  
English summaries.  
Various combinations on various soil types.
- 99977 MOL'DERF, T. D. The effect of various nitrogen doses on flax in Ukrainian Polesye. (Rus) *Zhytomyr's'kyi Sil's'kohospod. Inst. Mater. Konf.* 1967:46-48. S651.Z5  
Effect on yields.
- 99978 MORRILL, L. G., CHRUDIMSKY, W. W., and TUCKER, B. B. Sorghum fertilization. Okla. Agr. Exp. Sta. Process. Ser. P-584:10-11. May 1968. 100 Ok4M  
Nitrogen, phosphorus, and potassium.
- 99979 MORRILL, L. G., BAKER, J. M., and TUCKER, B. B. Wheat fertilization. Okla. Agr. Exp. Sta. Process. Ser. P-584:12-14. May 1968. 100 Ok4M  
Nitrogen, phosphorus, and potassium.
- 99980 MULLER-FEMBECK, J. Foliar fertilizing research with Poly-Fertisal at Kirchfeld in Hetzendorf. (Ge) *Klosterneuburg. Hoheren Bundeslehr- Versuchsanst. Wein- Obstbau. Mitt.* 16(1):42-44. Jan. 1966. 105.9 K696  
English summary.  
Tests on apples.
- 99981 NATARAJAN, C. P., SOUNDARAJAN, S. K., and THYAGARAJAN, S. R. Studies on the effect of the "complex fertilizer" of the Neyveli Lignite Corporation on paddy yield and on some soil properties of Cauvery alluvium. *Madras Agr. J.* 54(7):370-375. July 1967. 22 M262
- 99982 NAVROTSKAYA, V. F. On some peculiarities of microelement nourishment of peas on leached Chernozemic soils. (Rus) *Zhytomyr's'kyi Sil's'kohospod. Inst. Mater. Konf.* 1967: 255-258. S651.Z5  
Chiefly effect on yields.
- 99983 NELLIAT, E. V. Red earth application—a short-cut to more coconut production in sandy soils. *Indian Farming* 18(1):35-38. Apr. 1968. 22 In283
- 99984 NETTLES, V. F., and HULBURT, W. C. Placement of liquid and dry fertilizer for vegetable crops. *Fla. State Hort. Soc. Proc.* 80:193-200. May 1, 1968. 81 F66
- 99985 NIESCHLAG, F. Fertilize potatoes according to intended use. (Ge) *Kartoffelbau* 18(1):5-6, 8. Jan. 1967. 75.8 K145  
Stress no longer only on yields.
- 99986 NIKLEWSKI, M., and KRZYWY, E. The experiment with fertilization and varieties of potatoes. (Pol) *Stettin. Wyzsza Szkola Roln. Zeszyty Nauk.* 25:187-191. 1966, pub. 1967. 20.5 St4  
English summary.
- 99987 NIKLEWSKI, M., KRZYWY, E., and TWAROG, J. The fertilization effectiveness of phosphorites, high-soluble basic slag and peat preparation in four-course rotation on light soil of Podsol type. (Pol) *Stettin Wyzsza Szkola Roln. Zeszyty Nauk.* 25:204-208. 1966, pub. 1967. 20.5 St4  
English summary.
- 99988 NIKLEWSKI, M., and TWAROG, J. The introductory results of experiment on raising the productiveness of Brown-Podsol soil with exhausted sorption complex. (Pol) *Stettin. Wyzsza Szkola Roln. Zeszyty Nauk.* 25:200-204. 1966, pub. 1967. 20.5 St4  
English summary.  
Lime and fertilizing.
- 99989 O'CONNOR, K. F. Engineering with grass: I. Counteracting soil frost. *Soil Water* 4(1): 3-6. Sept. 1967. 56.8 So323  
Prevention of erosion at high altitudes in New Zealand.
- 99990 ODELIEN, M. Micronutrients, magnesium, — sulfur and calcium. (No) *Ny Jord* 54(2):49-65. Apr. 1967. 282.28 N98  
English summary.  
Review of the literature.
- 99991 OH, W. K., and PARK, J. K. The effect of split application of nitrogen on paddy rice. (Ko) *Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep.* 10(3):63-70, map. Sept. 1967. 22.5 K843  
English summary.
- 99992 OH, W. K. A summary of results of experiments carried out on farmers' fields and their application in increasing agricultural production. *Korea. Min. Agr. Forest. Offic. Rural Develop. Res. Rep.* 10(3):149-156. Sept. 1967. 22.5 K843  
Factorial experiments in the use of NPK in rice production.
- 99993 OLESEN, J. The new nitrogen-phosphorus-potassium fertilizers. (Da) *Landbonyt* 21(9): 325-326, 328, 331-332, 334, 336, 361. Sept. 1967. 11 L2322  
Tests.
- 99994 OL'SHEVS'KYI, V. D. Effect of microfertilizers on yield, quality, fibre and seeds of flax. (Uk) *Visn. Sil's'kohospod. Nauk.* 5:62-63. May 1966. 20 V82  
Russian summary.
- 99995 OOSTENDORP, D., and BOXEM, T. Stikstofbemesting en gebruikswijze van grasland; verslag van een onderzoek naar de invloed van stikstofbemesting en gebruik op de opbrengst van grasland [Nitrogen fertilizing and utilization of grassland; report on an investigation of the influence of nitrogen fertilizing and use on grassland yields], v. 1. Wageningen. Proefsta. Akker- Weidebouw. Meded. 131, 91 p. Ref. Apr. 1967. 64.9 W122
- 99996 ORIHUELA GUEVARA, J. Effect of different sources and levels of nitrogen on yield of corn. (Sp) *Jornadas Agron. Mem., 6th Conf., v. 2, paper* 23, 18 p. 1966. S211.J6 1966
- 99997 OVCHINNIKOVA, N. G. Effect of evenness in distributing fertilizer on field crop yields. (Rus) *Vestnik Sel'skokhoz. Nauk. [Moscow]* 5: 130-132. May 1967. 20 V633  
Wheat and barley.
- 99998 PAAUW, F. VAN DER. Weather and soil fertility. (Du) *Landbouwkundig Tijdschr.* 79(3):75-78. Ref. Mar. 1967. 105.2 Or3  
English summary.
- 99999 PAILLUSSEAU, M. Observations on the mineral needs of forage plants. (Fr) *Potasse* 41(349): 195-198. Nov. 1967. 57.8 P84  
Fertilizer tests.
- 100000 PASHOVA, V. T. Fertility of genetically separated horizons of eroded common Chernozem soils. (Rus) *Vestnik Sel'skokhoz. Nauk. [Moscow]* 5:123-126. May 1967. 20 V633
- 100001 PEREZ SILVA, R. Experimental results of fertilizing cotton in Yacacy State. (Sp) *Jornadas Agron. Mem., 6th Conf., v. 2, paper* 19, 14 p. 1966. S211.J6 1966
- 100002 PESAK, M., and TOMAER, J. Level of the utilization of fertilizers. (Cz) *Agrochemia [Bratislava]* 7(10):308-310. Oct. 1967. 385 Ag88  
English summary.  
Effects on field crop and vegetable yields.
- 100003 PETROVICI, P., and PLESA, D. The effect of natural and mineral fertilizers on corn in field trials on eroded soils. (Rum) *Probl. Agr. [Bucharest]* 20(3):15-22. Ref. Mar. 1968. 21 R862  
English summary.  
Effect on yields.
- 100004 PODOV, P. M. The effect of fertilizers on forage beans under forest-steppe conditions in the district of Zhitomir. (Rus) *Zhytomyr's'kyi Sil's'kohospod. Inst. Mater. Konf.* 1967:198-201. S651.Z5  
Effect on yields.



- 100005 POSPISILOVA, K. Mechanized equipment for individual systems of the application of fertilizers. (Cz) *Agrochemia* [Bratislava] 7(10):314-316. Oct.1967. 385 Ag88  
English summary.
- 100006 POSTMA, J. Calcium fertilization and potato growing. (Du) *Neth. Provinc. Dir. Rijkslandbouwvoorlichting Friesland.Voorlichting Onderz.* 1966:28-29. SB183.N4A3
- 100007 POTHIRAJ, P., and SRINIVASAN, S. T. Improvement of unproductive alkali soils with compost. *Madras Agr. J.* 54(7):383-384. July 1967. 22 M262
- 100008 PRIMAK, A. K. Fertilization of orchards in the North Caucasus. (Rus) *Sadovodstvo* [Moscow] 11:22-23. 1967. 80 Sa13
- 100009 PSHEBEL'SKII, V. V., and NAZAROV, M. I. Effect of fertilization on pea yields. (Rus) *Khim. Sel'skom Khoz.* 7:7-9. July 1967. 385 K524
- 100010 QUAGLIOTTI, L. Seed production of snapdragon (*Antirrhinum majus* L.); experimental research on the effects of different levels of phosphatic and potash fertilizers. (It) *Turin. Univ. Fac. Sci. Agr. Ann.* 1:229-252. Ref. 1961-62, pub.1966. S9.T8  
English summary.
- 100011 RAK, S. I. The effect of nitrogen on the yield and nectar output of buckwheat. (Rus) *Zhytomyr's'kyi Sil's'kohospod. Inst. Mater. Konf.* 1967:74-76. S651.Z5
- 100012 RAMEAU, G., and CONCARET, J. Study of the agronomical characteristics of the soils of Yonne. (Fr) *Paris. Acad. Agr. France. Compt. Rend. Hebd. Seances* 53(17):1388-1394. Dec.6/13,1967. 14 P215Bc
- 100013 RASMUSSEN, A. Fertilizing 1968. (Da) *Landbonyt* 22(1):11-16,32. Jan.1968. 11 L2322  
In Denmark.  
Field crops.
- 100014 RAUPACH, M. Soil and fertilizer requirements for forests of *Pinus radiata*. *Advances Agron.* 19:307-353. Ref. 1966. 30 Ad9
- 100015 REDDY, G. P., and RATNAKAR, B. Effect of chemical fertilizers on the yield of castor. *Andhra Agr. J.* 14(3):85-90. 1967. 34.2 An4
- 100016 REDDY, M. R., and HUSAIN, M. M. Yield of hybrid maize as influenced by increasing levels of nitrogen. *Andhra Agr. J.* 14(3):81-84. 1967. 34.2 An4
- 100017 RICHARD, H. Accelerated progress of mineral fertilizing in France. Examination of the sixteen years 1951-52 to 1966-67; glance abroad. (Fr) *Paris. Acad. Agr. France. Compt. Rend. Hebd. Seances* 53(17):1281-1292. Dec.6/13, 1967. 14 P215Bc  
Includes discussion.
- 100018 RICHARDS, B. N. Introduction of the rain-forest species *Araucaria cunninghamii* Ait. to a dry sclerophyll forest environment. *Plant Soil* 27(2):201-216. Oct.1967. 450 P696  
Chiefly fertilizer requirements in Australia; includes culture.
- 100019 ROBERTSON, W. K. Soils and soil management. *Fla. Agr. Exp. Sta. Bull.* 716:34-46. Aug.1967. 100 F665  
Chiefly fertilizers for soybeans in Florida.
- 100020 RODRIGUEZ, J. M., and LOTERO C., J. Response of cos lettuce and alfalfa to sources and doses of phosphorus and lime in the acid, black organic soil of Antioquia. (Sp) *ICA (Inst. Colombiano Agropecuario.) Rev.* 2(2):135-153. Ref. June 1967. S15.I592  
English summary.
- 100021 RODRIGUEZ BELLO, A., and ARIAS RODRIGUEZ, C. Effects of nitrogen, phosphorus, and potassium on rice yields on soils of the Guarico, Calabozo Irrigation System. (Sp) *Jornadas Agron. Mem., 6th Conf., v.2, paper* 21,13 p. 1966. S211.J6 1966
- 100022 ROMANO, E. Organic fertilizing. (It) *Ita. Agr.* 104(4):485-490. Apr.1967. 16 It1
- 100023 ROSSNER, J. T., and FOOTE, W. H. Wheat. *Oreg. Agr. Exp. Sta. Spec. Rep.* 254:16-25. Apr.1968. 100 Or3M  
Nitrogen fertilization and irrigation tests.
- 100024 ROTH, D. The effect of increasing nitrogen fertilizer application on dry pastures. (Ge) *Z. Landes kult.* 8(4):281-294. Ref. 1967. 282.9 Z3  
English summary.  
In East Germany.
- 100025 RUBANOV, V. S., and BERESTOV, I. I. Effect of different application methods of nitrogen fertilizer on sugar beet yields. (Rus) *Khim. Sel'skom Khoz.* 5(5):2-3. May 1967. 385 K524
- 100026 SABIROV, M. K., and RAZZAKOV, M. D. Using different forms of nitrogen fertilizers while growing apple seedlings on irrigated Sierozem soils. (Rus) *Khim. Sel'skom Khoz.* 5(6):11-12. June 1967. 385 K524
- 100027 SANFORD, W. Research involving the application of fertilizer to pineapple. *Hawaii. Univ. Ext. Misc. Publ.* 39:9. Mar.1967. S544.3 H3H3
- 100028 SAPEGIN, L. M. Effects of mineral fertilizers on yields and chemical composition of grasses. (Rus) *Khim. Sel'skom Khoz.* 5(6):15-17. June 1967. 385 K524
- 100029 SARKANY, GY. Time and method of mineral fertilizing of fibre flax. (Hu) *Magyar Mezőgazdasag* 22(13):11. Mar.29,1967. 19 M27
- 100030 SCHMEHL, W. R. Fertilizing for high root yields and quality. *Plant Food Rev.* 13(1):5-7. 1967. 57.8 P694
- 100031 SCHMID, G. Manuring potatoes with lime. (Ge) *Kartoffelbau* 18(1):10-11. Jan.1967. 75.8 K145
- 100032 SCHMIDT, N. C., and GARGANTINI, H. Application of nitrogen as top dressing in rice crops. (Por) *Bragantia* 25(1):57-63. 1966. 102.5 B73Tb  
English summary.
- 100033 SCHULZE, H. Purposeful fertilizing always pays. (Ge) *Kartoffelbau* 18(1):14. Jan.1967. 75.8 K145  
For good yields of potatoes.
- 100034 SERPUKHOVITINA, K. A. Economic effectiveness of fertilizers. (Rus) *Sadovodstvo* [Moscow] 10:18-19. Oct.1967. 80 Sa13  
Applied on grapes.
- 100035 SHEDEROV, S. G. Application of new technology in using lime for soil improvement. (Rus) *Khim. Sel'skom Khoz.* 7:27-28. July 1967. 385 K524
- 100036 SHENG, C. Y., WANG, Y. P., and TANG, C. N. Effect of soil Mg K values and Mg K fertilizers on rice yield. (Ch) *J. Agr. Forest.* 15:73-77. Oct.1966. 22.5 J823  
English summary.
- 100037 SHERMAN, G. D. Current fertilizer practices in a tropical diversified agriculture. *Hawaii. Univ. Ext. Misc. Publ.* 39:10-15. Mar.1967. S544.3 H3H3
- 100038 SHOOP, G. J. Soil mixtures for golf course greens. *West. Va. Agr. Exp. Sta. Misc. Publ.* 5:27-33. May 1968. S127.E2
- 100039 SIMS, J. L., WELLS, J. P., and TACKETT, D. L. Predicting nitrogen availability to rice. I. Comparison of methods for determining available nitrogen to rice from field and reservoir soils. *Soil Sci. Soc. Amer. Proc.* 31(5):672-675. Ref. Sept./Oct.1967. 56.9 So3
- 100040 SIMS, J. L., and BLACKMON, B. G. Predicting nitrogen availability to rice. II. Assessing available nitrogen in silt loams with different previous year crop history. *Soil Sci. Soc. Amer. Proc.* 31(5):676-680. Sept./Oct.1967. 56.9 So3

- 100041 SIMSIMAN, G. V., DE DATTA, S. K., and MOO-MAW, J. C. Sources of nitrogen and methods of application for flooded rice. I. Comparison of two methods of applying slow release and standard fertilizer materials. *J. Agr. Sci. [London]* 69(2):189-196. Ref. Oct.1967. 10 J822  
Philippines.
- 100042 SINGH, H. D., and RAY, S. N. The effect of nitrogen fertilisation and different harvesting intervals on the yield and chemical composition of pangola grass (*Digitaria decumbens*). *Indian J. Dairy Sci.* 20(3):130-133. Ref. Sept.1967. 44.8 In28
- 100043 SINHA, N. S. Paddy husk for raising sugarcane yields. *Sugar Technol. Ass. India Proc.*, 35th Annu. Conv., pt.1:7-11. Ref. 1967. 65.9 Su35P  
Used as fertilizer in India.
- 100044 SKOROKHOD, V. I. Applying nitrophoska on heavy Chernozem soils. (Rum) *Khim. Sel'skom Khoz.* 5(5):9-11. May 1967. 385 K524  
Corn and sugar beets.
- 100045 SMITH, P. F. A comparison of three nitrogen sources on mature Valencia orange trees. *Fla. State Hort. Soc. Proc.* 80:1-7. Ref. May 1,1968. 81 F66  
Sodium nitrate, ammonium nitrate, anhydrous ammonia.
- 100046 SOBOTKA, O. Problem of the effectiveness of mineral fertilizers in agriculture. (Cz) *Agrochemia [Bratislava]* 7(10):292-294. Oct.1967. 385 Ag88  
English summary.  
Includes effect on yields of field crops and soil fertility.
- 100047 SOLOV'EV, N. R. The effect of potassium-phosphate fertilizers on lupine in peat-podzolic soils of Polesye. (Rus) *Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf.* 1967:309-312. S651.Z5  
Effect on yields.
- 100048 SOLOV'YANENKO, A. I., and SHCHETININĀ, L. L. The effect of organic nitrogen and microelements on the yield and quality of Polygonum seeds. (Rus) *Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf.* 1967:191-193. S651.Z5
- 100049 SOMOS, A., and TARJANYI, F. The effects of various basic manuring systems on the yield of irrigated vegetables. (Hu) *Kertes. Szolesz. Foiskola. Kiadv.* 3(1):53-84. Ref. 1966. SB13.K4  
Manures and mineral fertilizers.
- 100050 SONGIN, W. The effect of mineral fertilization on the height of potato yields on the light soil. (Pol) *Stettin. Wyzsza Szkola Roln. Zeszyty Nauk.* 25:88-91. 1966, pub.1967. 20.5 St4  
English summary.
- 100051 SONGIN, W. The effect of the lime fertilization on yields and reproductive quality of the potato seed tubers. (Pol) *Stettin. Wyzsza Szkola Roln. Zeszyty Nauk.* 25:91-94. 1966, pub.1967. 20.5 St4  
English summary.
- 100052 SPARR, M. C., SCHNEIDER, E. O., and SUL-LIVAN, L. J. Micronutrients—the fertilizer shoe-nails. *Fert. Solutions* 12(1):64-78. Jan./Feb.1968. 57.8 So4
- 100053 STEPHENS, D. Effects of grass fallow treatments in restoring fertility of Buganda clay loam in South Uganda. *J. Agr. Sci. [London]* 68(3):391-403. Ref. June 1967. 10 J822
- 100054 STEVENSON, C. K. Methods and times for fertilizer applications: inter-tilled crops. *Ontario Soil Crop Impr. Ass. Addresses Proc.* 1967:53-57. 64.9 On83  
Applying nitrogen, phosphorus and potassium to crops.
- 100055 STIVERS, R. K. Fertilization of continuous corn on Crosby silt loam, Lafayette, Indiana, 1963-66. *Ind. Agr. Exp. Sta. Res. Progr. Rep.* 329, 7 p. Mar.1968. 100 In2Res  
Nitrogen, phosphorus, and potassium.
- 100056 STRNAD, P. The effect of green manuring on yields of field crops planted under rotation system in beet production region. (Cz) *Czech. Min. Zemedel. Les. Hospodar. Ustav Vedeckotech. Inform. Rostlinna Vyroba* 40(6):575-588. Ref. June 1967. 64.9 C33  
English summary.
- 100057 STRNAD, P. Higher fertilizer rates and their effects on the productivity and economy in an agricultural enterprise in sugarbeet region. (Cz) *Agrochemia [Bratislava]* 7(10):294-299. Ref. Oct.1967. 385 Ag88  
English summary.
- 100058 STUDER, R., and THIOLETT, P. Nitrogenated fertilization of wheat in winter and its effect on yield. An example: the plain of Neuville-du-Poitou (Vienne). (Fr) *Bull. Engrais* 502:207-213. Dec.1967. 57.8 B87
- 100059 SUBRAMANIAM, A., SOUNDARARAJAN, T. G., and VAIRAVAN, S. A note on response of P. 216 F. cotton to application of heavy dosage of nitrogen. *Madras Agr. J.* 54(1):46. Jan.1967. 22 M262
- 100060 SZABO, I. Study of the effect of various doses of fertilizers and chemical fertilizing methods on the yield of potato. (Hu) *Kertes. Szolesz. Foiskola. Kiadv.* 3(1):259-277. 1966. SB13.K4
- 100061 SZYMKIEWICZ, J. The effect of stubble catch-crops on yields in the link of rotation. (Pol) *Stettin. Wyzsza Szkola Roln. Zeszyty Nauk.* 25:65-68. 1966, pub.1967. 20.5 St4  
English summary.
- 100062 TAL'KO, A. I. The quantity of mobile nitrogen in peat-podzolic soils and the yield of various types of apple trees. (Rus) *Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf.* 1967:393-396. S651.Z5
- 100063 TAMIMI, Y. N., GARCIA, C. W., and NOLAN, J. C. The effect of major and minor elements upon the yield of kikuyu grass. *Hawaii. Univ. Ext. Misc. Publ.* 45:23-26. Aug.26,1967. S544.3.H3H3  
Yields.
- 100064 TAMIMI, Y. N. The effect of nitrogen, phosphorus and potassium upon the yield of kikuyu and pangola grass. *Hawaii. Univ. Ext. Misc. Publ.* 45:11-22. Aug.26,1967. S544.3.H3H3
- 100065 TAMM, C. O. The effect of urea and calcium nitrate on spruce. (Sw) *Skogen (Stockholm)* 55(1):21. Jan.4,1968. 99.8 Sk51
- 100066 TOLHURST, J. A. H. Fertilizers and productivity. *Ceylon. Tea Res. Inst. Tea Quart.* 38(3):239-240. Sept.1967. 68.18 C33
- 100067 TSYGANOK, N. K. On the use of fertilizers for fiber-flax in the collective farms of the Polesye region of Zhitomir. (Rus) *Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf.* 1967:430-435. S651.Z5
- 100068 TUKALOVA, E. I. The effect of nitrogen fertilizers on the yield of vegetables. (Rus) *Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf.* 1967:400-404. S651.Z5
- 100069 TUPITSYN, V. Effectiveness of fertilizers on the Chernozem soils in Bashkiria. (Rus) *Sel'skokhoz. Proizvodstvo Povolzh'ya* 10:22-23. Oct.1967. 281.8 Se4  
Field crops.
- 100070 VALOVNENKO, D. K. The effect of nitrogen fertilizers on the yield of winter crops and Polygonum on peat-podzolic, sandy and sandy loam soils in Polesye. (Rus) *Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf.* 1967:313-317. S651.Z5  
Grains.
- 100071 VASCONCELOS, D. DE M., and ALMEIDA, L. M. DE. Chemical fertilization of rice in the Northeast. (Por) *Pesquisa Agropecuar. Brasil.* 1:353-356. 1966. S15.P42  
English summary.



- 100072 VERZHBITSKII, V. I. Magnesium as a factor of the increased yields of corn grown on peat-podzolic loamy sandy soils of the Polesye region of Zhitomir. (Rus) Zhytomyrs'kyi Sil's'k'ohospod. Inst. Mater. Konf. 1967:456-458. S651.Z5
- 100073 VIRO, P. J. Metsamaan viljavuuden maarittamisesta. On the estimation of forest soil fertility. Finland. Metsantutkimuslaitos. Julkaisuja 60(3), 22 p. 1966. 99.9 F493  
English summary.
- 100074 VOSSSEN, J. The Belgian pastures. (Fr) Potasse 41(349):209-215. Nov.1967. 57.8 P84  
Chiefly fertilization.
- 100075 WAELE, M. DE. Fertilizing fruit trees. (Fr) Fruit Belg. 35(311):257-260. July 1967. 80 F9493  
Calcium compounds as fertilizers.
- 100076 WALKER, M. E., and others. The effects of high fertilization on the production of cotton in the Coastal Plain. Ga. Agr. Exp. Sta. Res. Rep. 27, 13 p. Ref. May 1968. S51.E22  
S. A. Parham, R. B. Moss, and O. L. Brooks, joint authors.  
Nitrogen, phosphorus and potassium effects on yields.
- 100077 WALLRABENSTEIN, P. P. Trends in fertilizer use in Hawaii. Hawaii. Univ. Ext. Misc. Publ. 39:1-8. Mar.1967. S544.3 H3H3
- 100078 WARCHOL, P. Production results of farms without manure in the Szczecin voivodeship. (Pol) Nowe Roln. 16(1):24-26. 1967. 20.5 N86  
Field crops.
- 100079 WARD, D. K. Studies on the nutrient status of some tobacco soils in far north Queensland. Queensland J. Agr. Anim. Sci. 24(3/4):253-260. Sept./Dec.1967. 23 Q37
- 100080 WAY, W. A. Farm fertilizers. Vt. Univ. Ext. Brieflet 1153, 4 p. May 1967. 275.29 V59E  
Application.
- 100081 WELLS, B. R., and SIMS, J. L. Source of nitrogen for use on rice. Ark. Farm Res. 17(2): 5. Mar./Apr.1968. 100 Ar42F
- 100082 WHITE, G. C. The response of Merton Heart cherries to nitrogenous fertilizers. East Malling Res. Sta. Annu. Rep. Apr.1968:129-133. 103 Ea7
- 100083 WIDDOWSON, F. V., PENNY, A., and WILLIAMS, R. J. B. Experiments comparing the effects on yields of potatoes of three methods of applying three amounts of NPK fertilizer and the residual effects on following winter wheat. J. Agr. Sci. [London] 69(2):247-253. Oct.1967. 10 J822
- 100084 WIDDOWSON, F. V., PENNY, A., and WILLIAMS, R. J. B. Experiments measuring effects of ammonium and nitrate fertilizers, with and without sodium and potassium, on spring barley. J. Agr. Sci. [London] 69(2):197-207. Oct.1967. 10 J822
- 100085 WIEDERSUM, B. What nitrogen fertilizer for potatoes? (Ge) Kartoffelbau 18(1):14-15. Jan. 1967. 75.8 K145  
Effects on yields.
- 100086 YEH, S. F., and CHU, L. C. A study on the theory and the applications of orthogonal polynomials. (Ch) Agr. Ass. China J. (n.s.) 57:1-23. Mar.1967. 22.5 Ag862  
In studies of fertilizer effectiveness.
- 100087 YOUNG, T. W., and KOO, R. C. J. Effects of nitrogen and potassium fertilization on persian limes on Lakeland fine sand. Fla. State Hort. Soc. Proc. 80:337-342. May 1, 1968. 81 F66
- 100088 YUAN, W. L., and others. Studies on nitrogen of flooded soils. 1. The evaluation of nitrogen-supplying power of the flooded soils. (Ch) J. Agr. Forest. 15:63-71. Ref. Oct.1966. 22.5 J823  
C. S. Wu, C. L. Chi, and S. Kuo, joint authors.  
English summary.  
In relation rice yields.
- 100089 YURINA, L. V. The use of ammonia liquor to fertilize berries. (Rus) Zhytomyrs'kyi Sil's'k'ohospod. Inst. Mater. Konf. 1967:367-369. S651.Z5
- 100090 ZHYTOMIR. SIL'S'KOHOSPODARS'KYI INSTYTUT. Problema azota i urozhay na Poles'e. Materialy zonal'noy nauchno-proizvodstvennoy konferentsii sostoyavsheysya 3-5 marta, 1965, Zhytomyr. [Problems of nitrogen and yields in Polesye. Report of a regional scientific-industrial conference held March 3-5, 1965 in Zhitomir] Kiev, 1967. 523 p. S651.Z5

## Soil Tilth and Tillage

- 100091 AUBINEAU, M. Direct sowing with minimum cultivation. (Fr) Agriculture (Paris) 306:363-366. Dec.1967. 14 Ag823  
Wheat in France.
- 100092 BAETZ, G., BUHTZ, E., and GRUNERT, C. Methodical principles for designing soil cultivation experiments. (Ge) Albrecht-Thaer-Arch. 11(12):1149-1158. 1967. 18 AL1  
English summary.
- 100093 BERGLUND, G. Smoothing fields with a leveling planker. (Sw) Grundforbattring 2(20):61-67. 1967. 43.8 G92  
English summary.
- 100094 BOER, H. TEN, and BOUWMAN, O. J. Spring soil preparation for potatoes. (Du) Neth. Dir. Landbouw. Verslag Landbouwkundig Onderz. Noordelijk-Groningen. 1967:51-56. 12 N38Vg  
In the Netherlands.
- 100095 CEGLAREK, F. The effect of after-cultivations on the yield of spring wheat. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25: 179-181. 1966, pub. 1967. 20.5 St4  
English summary.  
Harrowing.
- 100096 CHOUDHARY, P. C., and CHATTERJEE, B. N. Moisture conservation under mulches in the eroded terraced soils of Ranchi. J. Soil Water Conserv. India 15(1/2):61-71. Ref. Jan./June 1967. 56.8 J824
- 100097 DE VECCHI, N. The cost of earth-moving. (It) Esso Agr. 16(4):10-11. Aug.1967. 58.8 Es7
- 100098 ENGSTAD, P. K. Plowing should be done airy and close. (No) Norsk Landbruk 2:10. Jan.26, 1968. 11 N8122
- 100099 GEORGIEV, D. Importance of soil cultivation for irrigated corn. (Bu) Rasteniyeudni Nauk. 4(10):51-63. Ref. 1967. 64.8 R18  
English summary.  
In Bulgaria.
- 100100 GHISLENI, P. L. Further results of four-year experiment on soil work in a vineyard. (It) Turin. Univ. Fac. Sci. Agr. Ann. 1:151-162. 1961-62, pub. 1966. S9.T8  
English summary.  
Manual tillage and weed cutting on slopes.
- 100101 GOWDER, K. R. K., and SIVANAPPAN, R. K. Levelling the new area in Agricultural College and Research Institute, Coimbatore. Madras Agr. J. 54(1):4-12. Jan.1967. 22 M262
- 100102 GREENHAM, D. W. P., and WHITE, G. C. The effects of grass sward, straw mulch, and cultivation on Laxton's Superb apple trees. East Malling Res. Sta. Annu. Rep., Apr.1968. 121-128. Ref. 103 Ea7
- 100103 GROVEN, I. Experiments with clean cultivation, cover crops and mulching fruit bushes. (Da) Tidsskr. Planteavl 71(2):226-230. 1967. 11 T439  
English summary.
- 100104 GRUPCEV, M., and JOKOVSKI, B. First spring works in fruit plantations. (Se) Sovremeno Zemjod. 14(2):12. Feb.1967. S13.S6  
Tillage and application of fertilizers.
- 100105 GUGUVCHEVSKI, M. Preparation of soil for planting wheat. (Se) Sovremeno Zemjod. 13(9):2-4. Sept.1966. S13.S6
- 100106 HERMSMEIER, L. F., and SOINE, O. C. Land forming—a means of controlling surface water on level fields. Minn. Sci. 23(3):24-25. Apr. 1967. 100 M668

- 100107 HULL, R., and WEBB, D. J. The effect of subsoiling and different levels of manuring on yields of cereals, lucerne and sugar beet. *J. Agr. Sci. [London]* 69(2):183-187. Oct. 1967. 10 J822  
Fertilizers.
- 100108 HULSMANN, G. Fundamentals of tillage, fertilizers, and seed potato treatment. (Ge) *Kartoffelbau* 18(3):71-72, 74-77. Mar. 1967. 75.8 K145
- 100109 HYAM, G. F. S. Soil moisture and food production. *S. Afr. J. Sci.* 64(1):13-19. Ref. Jan. 1968. 515 So84  
Dry farming and crop irrigation.
- 100110 KAWABE, Y., and others. Study on subsoiling and deep placement of basic fertilizer in rice culture. (Ja) *Konosu. Cent. Agr. Exp. Sta. J.* 10:1-22. Ref. May 1967. 107.6 K832  
T. Kaneko, S. Izumi, M. Himeda, and T. Nomo, joint authors.  
English summary.
- 100111 KOLANDAISWAMY, S., RANGANATHAN, A. K., and SRINIVASAN, V. Preliminary trial on agricultural mulch on cholam and cotton. *Madras Agr. J.* 54(4):195-197. Apr. 1967. 22 M262
- 100112 KOOPMANS, T. Soil preparation earlier in the season. (Du) *Neth. Provinc. Dir. Rijkslandbouwwoorlichting Friesland. Voorlichting Onderz.* 1966:20-22. SB183.N4A3  
May increase yield.
- 100113 KORNETI, D. Tillage of soil for planting corn. (Se) *Sovremeno Zemjod.* 14(2):7. Feb. 1967. S13.S6
- 100114 KOWSAR, A. Petroleum mulch. *Oreg. Agr. Exp. Sta. Spec. Rep.* 254:41-49. Apr. 1968. 100 Or3M
- 100115 KOZAREV, G., and others. On the residual effect of the deepening and dressing of leached cinnamonic forest soil. (Bu) *Pochvozn. Agrokhim.* 2(4):57-70. 1967. S590.P6  
D. Kovachev, L. Raicheva, T. Ovcharova, and M. Benevski, joint authors.  
English summary corn yields.
- 100116 KRSTIC, V. Preparation of soil for the planting of sunflowers. (Se) *Sovremeno Zemjod.* 14(2):2. Feb. 1967. S13.S6
- 100117 MACKIEWICZ, Z., and SONGIN, W. The effect of the after-cultivation of potatoes during the period from planting to seedlings on yields and the growth of weeds. (Pol) *Stettin. Wyzsza Roln. Zeszyty Nauk.* 25:77-81. 1966, pub. 1967. 20.5 St4  
English summary.
- 100118 MACKIEWICZ, Z., and SONGIN, W. Researches for the effects of ridging and weeding the potato inter-ridges in the period from seedlings to flowering. (Pol) *Stettin. Wyzsza Szkola Roln. Zeszyty Nauk.* 25:81-83. 1966, pub. 1967. 20.5 St4  
English summary.  
Yields.
- 100119 MEYER, H. Sugar beet culture 1968; good soil preparation—ensured yields. (Ge) *Grüne* 96 (12):403-410. Mar. 22, 1968. 17 Sch9  
Switzerland.
- 100120 MOSIN, V., and SHAFRONOV, O. Soil tillage, before planting potatoes. (Rus) *Kartofel' Ovoshchi* 2:8-9. Feb. 1968. 75.8 K147
- 100121 MQWALA, L. Z. The working and improving of the soil. *Ulimo Nemfuyo* 2(2):7. June 1966. S17.U4
- 100122 PEYER, E. Can one omit tillage in vineyards during the vegetation time? (Ge) *Schweiz. Z. Obst- Weinbau* 103(11):337-339. May 27, 1967. 80 Sch9
- 100123 POPOVIC, S. Preparation of soil for planting sugar beets. (Se) *Sovremeno Zemjod.* 13(3):2-4. Mar. 1966. S13.S6
- 100124 PYROZHENKO, H. S. Effect of intensive agricultural practices on nitrogen and humus content in soils of the Ukrainian forest-steppe zone and Polesie. (Uk) *Visn. Sil's'kohospod. Nauk.* 1:56-63. Jan. 1967. 20 V82  
Russian summary.
- 100125 ROHRBACH, U. Aid to the spring tillage 1968. (Ge) *Lohnunternehmen Land-Forstwirtschaft.* 23(3):81. 1968. 58.8 D81  
Includes chemical control of weeds.
- 100126 SCHMOLL, G. Minimal tillage of soil and friability of soils. (Ge) *Mitt. Deut. Landwirt.-Ges.* 82(49):1620, 1621-1622. Dec. 7, 1967. 18 N39
- 100127 STOJANOV, B. Evaluation of the quality of plowing. (Se) *Sovremeno Zemjod.* 13(11):2-3. Nov. 1966. S13.S6  
Includes subsoiling.
- 100128 ŠTRNAD, P. Soil tillage of catch crops for stubble mulching and method of planting them in beet production region. (Cz) *Czech. Min. Zemedel. Les Hospodar. Ustav Vedeckotech. Inform. Rostlinna Vyroba* 40(6):589-601. Ref. June 1967. 64.9 C33  
English summary.
- 100129 WINNER, C. Field trials on omitting mechanical hoeing when cultivating sugar beets. (Ge) *Zucker* 20(5):98-99. Feb. 15, 1967. 65.8 Z82  
English summary.  
Effects on yields.
- 100130 ZBIEC, I. The effect of different depths of before-winter ploughing on plant yields in the rotation link. (Pol) *Stettin. Wyzsza Szkola Roln. Zeszyty Nauk.* 25:68-71. 1966, pub. 1967. 20.5 St4  
English summary.
- 100131 ŽIYAZETDINOV, R., and BORISOV, O. Experience with subsurface tillage in the Bashkir Ural. (Rus) *Sel'skokhoz. Proizvodstvo Povolzh'ya* 8:22-23. Aug. 1967. 281.8 Se4
- 100132 ZSOLDOS, L. Effect of soil preparation before planting on properties of soil. (Hu) *Kertes. Szoleszeti Foiskola. Kiadv.* 3(2):73-88. 1966. SB13.K4
- 100133 ZYKOV, I. G. Experiment of mechanized soil preparation for anti-erosive planting in the Upper Dniepr state forests in Dnepropetrovsk Region. (Rus) *Lesovod. Agrolesomeliar.* 11:76-80. 1967. SD1.L44  
U. S. S. R.

#### Drainage, Irrigation, Water Supply, and Flood Control

- 100134 AANDERUD, W. G., and SORENSEN, R. Irrigation costs and returns. *S. Dak. State Univ. Ext. Circ. EC-661*, 11 p. June 1968. 275.29 So85
- 100135 ABBAS, B. M. Control of floods in East Pakistan. *Symp. Sci. Probl. Humid Trop. Zone Deltas Implications. Proc.* 1966:135-141, map. GB1205.S3
- 100136 ABELL, L. F. Abstracting journals covering the field of land reclamation and land improvement. *Int. Inst. Land Reclam. Impr. Annu. Rep.* 1966:64-69. 54.9 In8A
- 100137 ALPHEN, J. G. V. Some notes on the reclamation of sodic soils. *Int. Inst. Land Reclam. Impr. Annu. Rep.* 1966:28-35. Ref. 54.9 In8A  
Includes saline soils.
- 100138 AMOROCHO, J. The nonlinear prediction problem in the study of the runoff cycle. *Water Resources Res.* 3(3):861-880. Ref. 1967. 292.8 W295
- 100139 ANDREWS, W. H. The people factor and water resources research. *Utah Sci.* 28(1):5-6. Mar. 1967. 100 Ut1F  
Utah Center for Water Resources Research.
- 100140 ASHFORD, C. Water rights in Hawaii. *Nat. Reclam. Ass. Proc.* 1967:28-31. 55.9 N212
- 100141 ASPINALL, W. N. Dollars for national growth or for handouts - which shall it be? *Nat. Reclam. Ass. Proc.* 1967:184-193. 55.9 N212  
Government aid for reclamation.



- 100142 AZIZOV, E. M. Ridging of watering furrow-chaps under conditions of heavy texture soils. (Rus) *Gidrotekh. Melior.* 3:55-58. Mar.1968. 290.8 G362  
Irrigation of cereals.
- 100143 BADEN, W. Course of ground water and soil moisture—criteria for the drainage and irrigation requirements of moor and part-peat, part-mineral cultures. (Ge) *Bayer. Landwirt. Jahrbuch* 44(spec.no.3):228-232. 1967. 18 L24
- 100144 BAGLEY, J. M., SKOGERBOE, G. V., and HIGGINS, D. The Great Salt Lake; hub of Utah's water development. *Utah Sci.* 28(1):14-20, map. Mar.1967. 100 UtlF  
Irrigation water.
- 100145 BAKER, E. K. Wise use in flood plain planning. *Kans. State Univ. Ext. Looking Ahead K-State Econ.*, Apr.2,1968,2 p. HD9284.U5K3
- 100146 BANERJI, S. A balanced use of our water resources. *Yojana* 11(11):2-5, map. June 11, 1967. 280.8 Y7  
Precipitation in India.
- 100147 BARANELLO, N., and ARDEMAGNI, M. Experiments on irrigation systems. (It) *Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv.*, v.1:49-57. 1966, pub.1967. S675.C6 1966  
English summary.  
Sprinkler systems.
- 100148 BAUMANN, H. Development of irrigation in semi-arid areas. (Ge) *Z. Kulturtech. Flurbereinigung* 8(5):300-311. Ref. Sept./Oct.1967. S605.A1Z4  
English summary.
- 100149 BAUMANN, H. Preliminary results of experimentally drained fields in Schleswig-Holstein. (Ge) *Bayer. Landwirt. Jahrbuch* 44(spec.no.3):68-72. 1967. 18 L24
- 100150 BEATTIE, B. Harvesting the national forest water crop. *Nat. Reclam. Ass. Proc.* 1967:96-109. 55.9 N212  
In Western States.
- 100151 BEERS, W. F. J. V. The three main functions of a subsurface drainage system. *Int. Inst. Land Reclam. Impr. Annu. Rep.* 1966:14-17. 54.9 In8A  
Includes saline soils.
- 100152 BELLPORT, B. P. Today's look at desalination and weather modification. *Nat. Reclam. Ass. Proc.* 1967:110-118. 55.9 N212
- 100153 BENNETT, E. F. The Public Land Law Review Commission and water resource studies. *Ariz. Watershed Symp. Annu. Proc. Sept.* 1967:28-31. 292.9 Ar425
- 100154 BHUMBLA, D. R. You can use saline water too. *Indian Farming* 17(10):45-47. Jan.1968. 22 In283  
Irrigation with untreated ground water and effects of salts on plants.
- 100155 BILELLO, M. A., and PARROTT, W. H. Some new or experimental equipment for use on snow and ice. *East. Snow Conf. Proc.*, 24th Annu. Meeting:1-14. 1967. 341 Ea7p
- 100156 BINA, D. Building sources of water for irrigation should not be underestimated. (Cz) *Vystavba Soc. Vesn.* 9:212-213. 1966. 296.8 Z4  
Reservoirs.
- 100157 BLIDARU, V., BLIDARU, E., and CISMARU, C. Contributions to the selection of the form of the cross section of the reinforced concrete prefabricated gullies for irrigation. (Rum) *Hidroteh. Gospod. Apelor Meteorol.* 11(7):366-373. July 1966. 345 M562  
English summary, p.4 of supplement.
- 100158 BOUWER, H. Analyzing subsurface flow systems with electric analogs. *Water Resources Res.* 3(3):897-907. Ref. 1967. 292.8 W295
- 100159 BRAKENSIEK, D. L. Finite differencing methods. *Water Resources Res.* 3(3):847-860. Ref. 1967. 292.8 W295  
Hydrology.
- 100160 BRAKENSIEK, D. L., and ONSTAD, C. A. The synthesis of distributed inputs for hydrograph predictions. *Water Resources Res.* 4(1):79-85. Ref. Feb.1968. 292.8 W295
- 100161 BRANDA, G. Irrigation in the Province of Cuneo. II. (It) *Cuneo. Cam. Commer. Indus. Artigianato Agr. Notiz. Cam.* 22(4):83-87. Feb.28,1967. 287 C91
- 100162 BRANDA, G. Irrigation in the Province of Cuneo. III. (It) *Cuneo. Cam. Commer. Indus. Artigianato Agr. Notiz. Cam.* 22(5):113-118. Mar.15,1967. 287 C91
- 100163 BROUGH, C. R. New water storage at Scoresby Horticultural Research Station. *J. Agr. [Melbourne]* 65(6):241-242. June 1967. 23 V66J
- 100164 BROWN, R. F., and ALLRED, E. R. Ground water availability; data for development. *Minn. Sci.* 23(3):20-21, map. Apr.1967. 100 M668
- 100165 BURBANK, N. C. The quality of water in Hawaii. *Nat. Reclam. Ass. Proc.* 1967:40-50. 55.9 N212  
Includes water irrigation.
- 100166 BURT, O. R. Groundwater management under quadratic criterion functions. *Water Resources Res.* 3(3):673-682. 1967. 292.8 W295
- 100167 BURTCH, L. Irrigation principles stated in 1937 are still recommended. *Spreckels Sugar Beet Bull.* 29(4):27-28. July/Aug.1965. 66.8 Sp7
- 100168 CAID, J. A. Types and uses of plastic pipes. *Tex. Turfgrass Conf. Proc.* 22:43-46. Dec.1967. 60.19 T31  
In irrigation.
- 100169 CALVERT, D. V., KOO, R. C. J., and FORD, H. W. Flood irrigation studies with citrus. *Fla. State Hort. Soc. Proc.* 80:79-85. May 1, 1968. 81 F66
- 100170 CARTER, R. F. The role of public and agricultural agencies in the future of reclamation in the Western States. *Power relationships in your future. Nat. Reclam. Ass. Proc.* 1967:76-81. 55.9 N212  
Includes irrigation.
- 100171 CARUSO, P. Studies and investigations on hill lakes constructed in Sicily. (It) *Palermo. Univ. Ist. Agron. Gen. Colt. Erbacee. Quad. Agron.* 4:33-75. Ref., p.73-75. 1967, pub.1968. 16 P172  
English summary.  
Includes irrigation.
- 100172 CELESTRE, P. Most economical planning for hydraulic plants. (It) *Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv.*, v.1:265-304. Ref. 1966, pub.1967. S675.C6 1966  
English summary.  
Includes agricultural-irrigational aspects.
- 100173 CHADWICK, D. G. Development of a low-cost hydrologic sensing-telemetering system. *Utah Sci.* 28(1):11-13. Mar.1967. 100 UtlF
- 100174 CHAUDHRY, M. S., and PANDEY, R. G. Rice responds to good water management. *Indian Farming* 17(10):31-33. Jan.1968. 22 In283  
Varieties, fertilization, and yields under irrigation.
- 100175 CHERY, D. L. A review of rainfall-runoff, physical models as developed by dimensional analysis and other methods. *Water Resources Res.* 3(3):881-889. Ref. 1967. 292.8 W295
- 100176 CHOUDHURY, R. R. Sprinkler irrigation saves on expenses. *Intensive Agr.* 4(11):10-11, 16. Jan.1967. 22 In8
- 100177 COMINY, F. E. Dams save and serve. *Reclam. Era* 54(1):1-3. Feb.1968. 156.84 R24  
Water conservation.
- 100178 CRAIN, A. W. Water conservation in turf irrigation. *Tex. Turfgrass Conf. Proc.* 22:33-38. Dec.1967. 60.19 T31

- 100179 CROOCKEWIT, J. H. Water research in 1966. (Du) Aalsmeer. Proefsta. Bloemisterij. Jaarverslag 1966:146-147. 86 Aa4  
Includes irrigation water.
- 100180 DAHLGREN, K. Complementary costs in drainage projects. (Sw) Grundforbattring 2 (20):49-52. 1967. 54.8 G92
- 100181 DECROP, M. Different types of irrigation installations. (Fr) Potasse 42(351):3-10. Jan.1968. 57.8 P84
- 100182 DEGAN, A. Irrigation practice and field size in relation to agricultural mechanization. (It) Genio Rurale 30(5):411-416. May 1967. 281.8 R522
- 100183 DEGAN, A., and ACERBI, D. A positive example of planning agricultural problems as essential requisite to the technical and constructive choices of a wide irrigation plant. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.1:77-108. 1966, pub. 1967. S675.C6 1966  
English summary.  
Chiefly on planning irrigation project.
- 100184 DEGUCHI, K. The influence of hydraulic improvement works. Symp. Sci. Probl. Humid Trop. Zone Deltas Implications. Proc. 1966: 341-345. GB1205.S3  
Includes irrigation and drainage in rice fields.
- 100185 DELIBALTOV, I., and ZAKHARIEV, T. Sprinkling irrigation of corn at different hours during a 24 hr. period. (Bu) Rastenievudni Nauk. 4(9): 45-56. 1967. 64.8 R18  
English summary.
- 100186 DENIG, E. Renewal via voluntary land consolidation. (Du) Neth. Dir. Landbouw. Landbouwvoorlichting 24(12):425-429. Dec.1967. 12 N383M  
Reclamation.
- 100187 DIAZ, G., SEWELL, J. I., and SHELTON, C. H. An application of principal component analysis and factor analysis in the study of water yield. Water Resources Res. 4(2):299-306. Ref. Apr. 1968. 292.8 W295
- 100188 DIELEMAN, P. J. Leaching of soluble salts in soils. Int. Inst. Land Reclam. Impr. Annu. Rep. 1966:37-45. 54.9 In8A
- 100189 DOMENICO, P. A., ANDERSON, D. V., and CASE, C. M. Optimal ground-water mining. Water Resources Res. 4(2):247-255. Ref. Apr. 1968. 292.8 W295
- 100190 DOMINY, F. E. The last third of the century. Nat. Reclam. Ass. Proc. 1967:88-95. 55.9 N212  
Reclamation in United States.
- 100191 DOMINY, F. E. Promise for Limpopo. Reclam. Era 54(2):25-27. May 1968. 156.84 R24  
Irrigation in Mozambique.
- 100192 DREGNE, H. E., and ANDERSON, J. U. Irrigable land in Curry County. N. Mex. Agr. Exp. Sta. Res. Rep. 140, 10 p. May 1968. 100 N465R
- 100193 EASTERN SNOW CONFERENCE, 24, NIAGARA FALLS, ONTARIO, 1967. Proceedings. n.p., 1967. 107 p., map. 341 Ea7p
- 100194 EDGAR, B. D. A mobile de-silting pump. Soil Water 4(1):15-16. Sept.1967. 56.8 So323  
Developed in New Zealand; also used to supplement flood gates.
- 100195 ERICKSON, D. B. Our need for water. Kans. State Univ. Ext. Looking Ahead K-State Econ., Feb.20, 1968, 2 p. HD9284.U5K3  
Irrigation.
- 100196 FARNHAM, R. S. Potential of Minnesota's peat resources. Minn. Sci. 23(3):31-33. Apr. 1967. 100 M668  
Chiefly reclamation.
- 100197 FICCO, N. Irrigation and land lay-out. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.1:205-222. 1966, pub. 1967. S675.C6 1966  
English summary.
- 100198 FISCHBACH, P. E., WITTMUSS, H. D., and DECKER, J. F. Re-using irrigation runoff. Nebr. Univ. Coll. Agr. Home Econ. Quart. Serving Farm Ranch Home 14(4):15-16. Winter 1968. 100 N27N
- 100199 FLYNN, K. E. Supplementary spray irrigation on dairy farms. Dairyfarming Dig. 14(1):9-13. Feb.1967. 44.8 D1443  
Australia.
- 100200 FORD, H. W. Disintegration problems with tile drain filters. Sunshine State Agr. Res. Rep. [Fla. Sta.] 12(6):15. Nov.1967. 100 F66Su
- 100201 FRANK, W. H. Intermittent feeding of sand filters for the artificial enrichment of underground waters. (Fr) Int. Ass. Sci. Hydrol. Bull. 12(2):65-73, map. June 1967. 292.9 As7
- 100202 FUJII, K. On the calculation of variation of the groundwater table due to reclamation by filling-up in the coastal region. (Ja) Shimane Agr. Coll. Bull. 15(A-4):26-31. Jan.1967. S539.J3S5  
English summary.
- 100203 FUKUDA, K., IZUTSU, K., and MAEKAWA, T. Shallow ground water in the downstream basin of the Aya River, Kagawa prefecture. VI. On the characteristics of the belt of fluctuation of the water table during the period from October 1964 to September 1965. Kagawa Univ. Fac. Agr. Tech. Bull. 19(1):49-62, map. Ref. 1967. 107.6 K113
- 100204 FUKUDA, K., IZUTSU, K., and MAEKAWA, T. Shallow ground water in the downstream basin of the Aya River, Kagawa prefecture. VII. On the characteristics of the highest and the lowest stages of the water tables considered from the isobath maps, DA and CDA curves. I. Kagawa Univ. Fac. Agr. Tech. Bull. 19(1):64-77, map. Ref. 1967. 107.6 K113
- 100205 FUKUMA, J., SHIRATAKI, Y., and SUEZAWA, Y. Studies on some characteristics of runoff on the lake side. (II). (Ja) Shimane Agr. Coll. Bull. 15(A-4):1-7. Jan.1967. S539.J3S5  
English summary.
- 100206 GARZOLI, K. V. The trend of irrigated agriculture in Australia. World Crops 19(1):28-33, map. Mar.1967. 281.8 W892
- 100207 GOOR, G. A. W. V. D. Rice as a reclamation crop for saline soils. Int. Inst. Land Reclam. Impr. Annu. Rep. 1966:46-55. Ref. 54.9 In8A  
Iran.
- 100208 GROPP, H. Possibilities of using saline waters in irrigation. (Ge) Z. Landes kult. 8(4):255-264. Ref. 1967. 282.9 Z3
- 100209 GRUBINGER, H. Drainage problems in mountain country. (Ge) Bayer. Landwirt. Jahrbuch 44(spec.no.3):16-19. 1967. 18 L24
- 100210 HARKUSHA, M. A. Reclamation in the Ukraine. (Uk) Visn. Sil's'kohospod. Nauk. 1:3-9. Jan.1967. 20 V82
- 100211 HEBESTREIT, H. Field methods in reclamation extension. (Ge) Bayer. Landwirt. Jahrbuch 44(spec.no.3):287-296. Ref. 1967. 18 L24
- 100212 HENDRY, C. W. Geology and ground-water resources of Leon County, Florida. Fla. Geol. Surv. Bull. 47, 178 p., map. Ref. 1966. 406 F66B  
Includes irrigation.
- 100213 HENNING, H. Technological studies on the rationalization of irrigation. (Ge) Z. Agrarokon. 10(3):133-142. Ref. 1967. 281.8 Z3  
Policies in East Germany.
- 100214 HERSCHLER, L. H. Private industry water development in Hawaii. Nat. Reclam. Ass. Proc. 1967:32-39. 55.9 N212  
Includes water for irrigation.
- 100215 HIEKEL, W. Temperature of the surface and ground waters in the Vessertal. (Ge) Arch. Naturschutz Landschaftsforsch. 6(3):123-131. Ref. 1966. 279.8 Ar2  
English summary.



- 100216 HOMMIK, K. Calculation of runoff volume when planning drainage system. (Rus) Eesti Maaviljeluse Maaparanduse Tead. Uurimise Inst. Tead. Toode Kogumik 7:37-45. 1966. 20 Ee73T
- 100217 HOMMIK, K. Efficient planning of drainage system. (Rus) Eesti Maaviljeluse Maaparanduse Tead. Uurimise Inst. Tead. Toode Kogumik 7:10-16. 1966. 20 Ee73T
- 100218 HOMMIK, K. Index of drainage intensity and distribution of drains in dissimilar ground. (Rus) Eesti Maaviljeluse Maaparanduse Tead. Uurimise Inst. Tead. Toode Kogumik 7:27-36. 1966. 20 Ee73T
- 100219 HUISMAN, L. Ground water in deltas. Symp. Sci. Probl. Humid Trop. Zone Deltas Implications. Proc. 1966:157-168. GB1205.S3
- 100220 INTERNATIONAL INSTITUTE FOR LAND RECLAMATION AND IMPROVEMENT. Annual report, 1966. Wageningen, 1967. 106 p., map. 54.9 In8A
- 100221 IVANOV, P. Cultivating spring wheat under irrigation. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 4:21-22. Apr. 1967. 281.8 Se4
- 100222 IVANOV, V. M., and YANCHKOV'S'KYI, YU. Peculiarities of reclamation of saline soils near the Crimean Sivash for cultivation of rice. (Uk) Visn. Sil's'kohospod. Nauk. 1:76-80. Jan. 1967. 20 V82  
Russian summary.
- 100223 IZUTSU, K., FUKUDA, K., and MAEKAWA, T. Studies on diversion works. I. Hydraulic model tests on the S<sub>1</sub>-type of diversion throat. Kagawa Univ. Fac. Agr. Tech. Bull. 19(1):86-95. 1967. 107.6 K113  
Canal irrigation.
- 100224 JACKSON, H. M. Challenges in reclamation's future. Nat. Reclam. Ass. Proc. 1967:51-58. 55.9 N212
- 100225 JOHANSSON, W. The result of an irrigation project at Tonnersa experiment farm. (Sw) Hallands Lans Hushallningssallsk. Tidskr. 2:18-24. Mar. 1967. 11 H152
- 100226 JOHN, C. M. Water management in plantation crops. Indian Farming 17(10):37-40. Jan. 1968. 22 In283  
Irrigation and culture of coconuts and areca nuts.
- 100227 JOHNSON, L. N. The flood control program on the upper Thames. Watersheds 2(3):8-9. Fall 1967. S900 W3  
Canada.
- 100228 JONES, I. E. Flood protection for the Opotiki district. Soil Water 4(1):7-8, map. Sept. 1967. 56.8 So323
- 100229 JONES, O. R. Movement of coliform bacteria and organic matter in the Ogallala aquifer at Bushland, Texas. Tex. Agr. Exp. Sta. MP-873, 8 p. Feb. 1968. 100 T31M
- 100230 JOSEPH, A. P. Beat drought with leftover rains. Intensive Agr. 4(11):12. Jan. 1967. 22 In8  
Water and soil conservations.
- 100231 JUTRAS, P. J. Extent of agricultural drainage needs in Quebec. Can. Agr. Eng. 9(2):117-120, 125, map. Ref. July 1967. 58.8 C164
- 100232 KAMINSKI, F. Drainage problems. (Ge) Bayer. Landwirt. Jahrbuch 44(spec. no. 3):22-24. 1967. 18 L24
- 100233 KEMMERLING, W. Land development measures within the framework of improvement of agrarian structure as a function of agricultural hydrology. (Ge) Deut. Landwirt.-Ges. Arb. 108:13-29. 1966. 18 D48  
Drainage and flood control.
- 100234 KESSLER, J. Use of the water balance in drainage investigations. Int. Inst. Land Reclam. Impr. Annu. Rep. 1966:18-20. 54.9 In8A
- 100235 KHRAMOV, P., and SAVEL'EV, N. Irrigation of apple nurseries in the flood plain of the Saratov Region. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 10:42-43. Oct. 1967. 281.8 Se4
- 100236 KIDDER, E. H. Irrigation systems for field crops. Mich. State Hort. Soc. Annu. Rep. 96:124-125. 1966, pub. 1967. 81 M58  
Includes vegetables and field crops.
- 100237 KIRWAN, M. J. Response. Nat. Reclam. Ass. Proc. 1967:194-198. 55.9 N212  
Reclamation history.
- 100238 KLOCK, G. O., and BROOKS, R. H. Drainage experiment. Oreg. Agr. Exp. Sta. Spec. Rep. 254:29-41. Apr. 1968. 100 Or3M
- 100239 KONDOU, T. On the initial gradient in seepage flow. (Ja) Mie Univ. Fac. Agr. Bull. 35:53-61. Ref. Mar. 1967. 107.6 T78  
English summary.  
Groundwater movement in clayey soils.
- 100240 KOPF, E. Considerations on regulation of runoff in Vils of lower Bavaria. (Ge) Bayer. Landwirt. Jahrbuch 44(spec. no. 3):282-286, map. 1967. 18 L24
- 100241 KORNEV, K. S. Soil improvement in the Soviet Russia. (Rus) Gidrotekh. Melior. 11:1-31. Nov. 1967. 290.8 G362  
Drainage and irrigation chiefly.
- 100242 KOVACS, S. Problems of irrigation in large-scale fruit orchards. (Hu) Kertesz. Szoleszeti Foiskola. Kiadv. 3(2):165-186. 1966. SB13.K4
- 100243 KRSTIC, V. Irrigation of sunflowers. (Se) Sovremeno Zemjod. 14(5):2. May 1967. S13.S6
- 100244 KUZMANOVSKI, G. Contribution to the solution of the problem for concentrated production of tobacco seedlings from the aspect of irrigation. (Se) Tutun 5(6):127-136. May/June 1967. 69.8 T88  
In Yugoslavia.
- 100245 LARSON, C. L., and THORUD, D. B. Can we manage land for water production? Minn. Sci. 23(3):22-23, map. Apr. 1967. 100 M668
- 100246 LELEKOV, I. Irrigation of grapes. (Se) Sovremeno Zemjod. 13(7):15-17. July 1966. S13.S6
- 100247 LEMBKE, W. D., and WIERSMA, J. L. Planning your irrigation system; water use rates. S. Dak. Farm Home Res. 18(2):14-18. Spring 1967. 100 So82S
- 100248 LEWIS, D. C. Annual hydrologic response to watershed conversion from oak woodland to annual grassland. Water Resources Res. 4(1):59-72. Ref. Feb. 1968. 292.8 W295  
California experimental watershed; oak stand chemically killed.
- 100249 LIPPMAA, A., and TOMBERG, U. Irrigation of cultivated pastures in Estonia. (Es) Eesti Maaviljeluse Maaparanduse Tead. Uurimise Inst. Tead. Toode Kogumik 7:122-134. 1966. 20 Ee73T  
Russian summary.
- 100250 LOCKRIDGE, R. W. Changing views in water resource use. Fla. Natur. 40(1):19-20. Jan. 1967. 413.9 F66F  
In Florida.
- 100251 MANN, G. Investigation with Mitscherlich pots on the entry of soil material through openings of various size in PVC plates. (Ge) Bayer. Landwirt. Jahrbuch 44(spec. 3):25-29. 1967. 18 L24  
With reference of behavior of soil in plastic drainage pipes.
- 100252 MARTIN, K. H. Results of a five-year test with the irrigation of sugar beets based on the amount of soil moisture as a criterion for the application of irrigation. (Ge) Zucker 20(7):169-174. Ref. Apr. 1, 1967. 65.8 Z82  
English summary.
- 100253 MATARRESE, N. The extension index of farm irrigation affected by the specific intensity of water distribution networks. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v. 1:223-247. 1966, pub. 1967. S675.C6 1966  
English summary.

- 100254 MATEJKA, B. Drainage research plot at Vackovec. (Cz) Vystavba Soc. Vesn. 4:90-92. 1966. 296.8 Z4
- 100255 MCKAY, G. A. Snow measurement practices. East. Snow Conf. Proc., 24th Annu. Meeting:29-34. 1967. 341 Ea7p
- 100256 MCMULLEN, D. N. Patterns of spring runoff—Thames River, Ontario. East. Snow Conf. Proc., 24th Annu. Meeting:51-67, map. 1967. 341 Ea7p
- 100257 MEIER, W. L., and BEIGHTLER, C. S. An optimization method for branching multistage water resource systems. Water Resources Res. 3(3): 645-652. 1967. 292.8 W295
- 100258 MEIMBERG, R. The effect of subsoiling and mole drainage on the moisture condition of thickened soils. (Ge) Bayer. Landwirt. Jahrbuch 44(spec.no.3):55-61. 1967. 18 L24
- 100259 MELISENDA, I. Deducing irrigation from the drying law of soil. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.1:168-187. 1966, pub. 1967. S675.C6 1966  
English summary.
- 100260 MELISENDA, I. Experimentation in the field of education and science of the Chair of Agricultural Hydraulics [Cattedra di Idraulica Agraria]. (It) Palermo. Univ. Inst. Agron. Gen. Colt. Erbacee. Quad. Agron. 4:245-278. 1967, pub. 1968. 16 P172  
English summary.
- 100261 MERBITZ, H. Observations on the effect of drainage and measures for moisture management in practice. (Ge) Bayer. Landwirt. Jahrbuch 44(spec.no.3):62-67. 1967. 18 L24
- 100262 MEYER, J. L., and BOOHER, L. J. Irrigate at the flick of a switch with a solid set system. Big Farmer 40(2):38-39. Spring 1968. 58.8 B46
- 100263 MICHELET, R. Irrigation foresight. (Fr) Agriculture (Paris) 309:91-97. Mar. 1968. 14 Ag823  
Factors influencing irrigation.
- 100264 MILTON, L. E. An analysis of the laws of drainage net composition. Int. Ass. Sci. Hydrol. Bull. 12(4):51-56. Dec. 1967. 292.9 As7
- 100265 MINOVSKI, D. Method of fruit irrigation. (Se) Sovremeno Zemjod. 13(7):7-8. July 1966. S13.S6
- 100266 MORISHIMA, M. Application of activity analysis method for measuring the productivity of irrigation water. (Ja) Tokyo. Nat. Inst. Agr. Sci. Bull. Ser. H (Farm Manage. Land Util.) 37:189-218. Ref. Mar. 1967. 281.9 C434B  
Includes linear programming.
- 100267 MORRIS, A. C. Laminated timber culverts. New Zeal. J. Agr. 114(5):28-29. May 1967. 23 N48J  
Drainage.
- 100268 MOSES, R. J. Eleven states approach regional water planning together. Nat. Reclam. Ass. Proc. 1967:127-133. 55.9 N212  
Western States.
- 100269 NATIONAL RECLAMATION ASSOCIATION. Proceedings of the thirty-sixth convention, November 12-17, 1967, Honolulu, Hawaii. Hawaii, 1967. 278 p. 55.9 N212
- 100270 NILSSON, R. Drainage in Halland ought to be increased. (Sw) Hallands Lans Hushallnings-sallsk. Tidskr. 5:8-9. Sept. 1967. 11 H152  
Government aid to drainage in Sweden.
- 100271 NIXON, P. R., and LAWLESS, G. P. Advective influences on the reduction of evapotranspiration in a coastal environment. Water Resources Res. 4(1):39-46. Ref. Feb. 1968. 292.8 W295
- 100272 NORTON, A. C. A retrospective evaluation of public investment (drainage). Lincoln. Coll. Agr. Econ. Res. Unit Publ. 48:172-173. 1968. 281.9 L632
- 100273 NORTON, A. C. The use of evaluation methods in calculating the maximum feasible investment in a given project (drainage). Lincoln. Coll. Agr. Econ. Res. Unit Publ. 48:173-174. 1968. 281.9 L632
- 100274 OBMINSKA, J., and GERUS, J., comp. Bibliography of the papers of scientific workers of the College of Agriculture [Wyzsza Szkoła Rolnicza]-Land Improvement Department [Wydział Melioracji Wodnych] in Wrocław for the year 1964. (Pol) Wrocław Wyzsza Szkoła Roln. Zeszyty Nauk. Melior. 11:167-179. 1966. 54.9 B75  
Chiefly drainage and soil management.
- 100275 OCHI, T., FUKUDA, K., and AOKI, T. Shallow ground water in the downstream basin of the Aya river. VIII. (Ja) Kagawa Univ. Fac. Agr. Tech. Bull. 19(1):78-85, map. 1967. 107.6 K113  
English summary.
- 100276 OREGON. AGRICULTURAL EXPERIMENT STATION. Progress of irrigation research on Willamette Valley soils. Oreg. Agr. Exp. Sta. Spec. Rep. 254, 49 p. Apr. 1968. 100 Or3M  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 100277 OSBORN, H. B., and HICKOK, R. B. Variability of rainfall affecting runoff from a semiarid rangeland watershed. Water Resources Res. 4(1):199-203, map. Feb. 1968. 292.8 W295  
In Arizona.
- 100278 PALIWAL, K. V., and SINGH, R. Effect of gypsum application on the quality of irrigation water. Madras Agr. J. 54(12):464-467. Dec. 1967. 22 M262
- 100279 PANEL discussion - dollars in drainage. Ontario Soil Crop Impr. Ass. Addresses Proc. 1967:34-35. 64.9 On83
- 100280 PAPAKONSTANTINU, D. Drop irrigation system—applications to orchards. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.1:189-204. 1966, pub. 1967. S675.C6 1966  
English summary.  
Pear orchards.
- 100281 PASSERINI, G. B. Zelo and Stiența reclama-tion lands at the end of XVI century. (It) Riv. Storia Agr. 6(4):363-378. Ref. Dec. 1966. 30.98 R52  
English summary, p. 415.
- 100282 PAYNE, B. H. Surveying the potential for water yield increase in the Pacific Southwest. Ariz. Watershed Symp. Annu. Proc. Sept. 1967: 32-35. 292.9 Ar425
- 100283 PAZZI, J. J. O. Farmers, be considerate. Farming S. Afr. 43(3):31-32. June 1967. 24 So842  
Irrigation and conservation of underground water.
- 100284 PEIKERT, F. W. Pennsylvania farmers learn from 5 years of drought. Big Farmer 40(2):49. Spring 1968. 58.8 B46  
Use of overhead irrigation.
- 100285 PETERSON, C. Sprinklers are stretching the Corn Belt. Big Farmer 40(2):46-47. Spring 1968. 58.8 B46
- 100286 PETERSON, H. B. The Utah Center for Water Resources Research. Utah Sci. 28(1):3-4. Mar. 1967. 100 Ut1F
- 100287 PLUNKETT, H. J. A comparison of pre- and post-investment evaluation. Lincoln. Coll. Agr. Econ. Res. Unit Publ. 48:170-172. 1968. 281.9 L632  
With reference to the Ashley-Sefton drainage scheme.
- 100288 POPA, G., and BALUTA, D. Phreatic waters in the Arges river flood-land and their relation with the surface waters in the plain zone. (Rum) Hidroteh. Gospod. Apelor Meteorol. 12(5):255-258, map. May 1967. 345 M562  
English summary, Suppl., p. 3.
- 100289 PORTER, C. V. New approaches to water rights - quality as well as quantity. Nat. Reclam. Ass. Proc. 1967:119-126. 55.9 N212  
In California.
- 100290 POTOTS'KIY, H. S. Regulating water regime of reclaimed soils with overhead irrigation. (Uk) Visn. Sil's'kohospod. Nauk. 1:80-89. Jan. 1967. 20 V82  
Russian summary.  
Corn.



- 100291 PRASHAR, C. R. K. Sprinkler irrigation for — efficient and uniform application of water. *Indian Farming* 18(1):39-41, 52. Apr. 1968. 22 In283
- 100292 PRESTON, T. A. A computer programme for the evaluation of alternative methods. *Can. Agr. Eng.* 9(2):109-112. Ref. July 1967. 58.8 C164  
In irrigation.
- 100293 QUICK, D. L. Snow measurements practices. *East. Snow Conf. Proc., 24th Annu. Meeting*:18-28. 1967. 341 Ea7p
- 100294 QUIGLEY, J. M. Tomorrow's clean water for the West. *Nat. Reclam. Ass. Proc.* 1967:141-149. 55.9 N212
- 100295 RACHNER, M. Remarks on the importance of water resources of snow cover for the water supply of the region. (Ge) *Arch. Naturschutz Landschaftsforsch.* 6(4):207-225, map. Ref. 1966. 279.8 Ar2  
English summary.
- 100296 RAMESH, D., and RAO, A. R. Measurement of profitability of irrigation—an empirical exercise. *Agr. Situation India* 22(4):373-378. July 1967. 281.9 In23  
Field crops.
- 100297 RAYNER, F. A., and WYATT, A. W. Decline of water level 1966. *Cross Sect.* 13(11):1-3, map. Apr. 1967. 292.8 C88
- 100298 RAYNER, F. A. Potential for storage of water in Southern High Plains of Texas. *Cross Sect.* 13(11):1, 4. (Cont.) Apr. 1967. 292.8 C88
- 100299 RHODES, J. J. Reclamation — which street will it follow? *Nat. Reclam. Ass. Proc.* 1967:134-140. 55.9 N212  
Policies in the Western States.
- 100300 RICHARD, F. The problem of falling water table on sloping soils. (Ge) *Bayer. Landwirt. Jahrbuch* 44(spec.no.3):142-147. 1967. 18 L24
- 100301 ROBINSON, A. R. Trapezoidal flumes for measuring flow in irrigation channels. *U. S. Agr. Res. Serv. ARS-41-140*, 15 p. 1968. A56.9 R31
- 100302 ROBINSON, F. E., and LUTHIN, J. N. A comparison of deep and shallow drain tile for reduction of soil salinity in Imperial Valley. *Calif. Agr.* 21(2):2-4. Feb. 1967. 100 C12Cag
- 100303 ROBINSON, F. E., MCCOY, O. D., and WORKER, G. F. An evaluation of sprinkler irrigation for Imperial Valley. *Calif. Agr.* 21(2):6-8. Feb. 1967. 100 C12Cag
- 100304 ROMOSAN, S., COSMA, M., and ZANESCU, A. Drainage and construction of dams as an important factor of the agriculture in Banat region. (Rum) *Probl. Agr. [Bucharest]* 20(3):58-67, map. Mar. 1968. 21 R862
- 100305 SANTEMA, P. Influence of flood-protection works on physical and biological environment. *Symp. Sci. Probl. Humid Trop. Zone Deltas Implications. Proc.* 1966:333-339. GB1205.S3
- 100306 SARYEV, T. The effect of timely watering in the yield of thin fiber cotton. (Rus) *Akad. Nauk Turkm. SSR Izv. Ser. Biol. Nauk* 3:14-19. 1967. 442.9 Ak124
- 100307 SCHNEIDER, W. J. Snowfall, accumulation, and disposition as related to the Northeast drought. *East. Snow Conf. Proc., 24th Annu. Meeting*:68-81, map. 1967. 341 Ea7p
- 100308 SCHOELLER, M. Chemical concentration by evaporation in underground water in deltas. (Fr) *Symp. Sci. Probl. Humid Trop. Zone Deltas Implication. Proc.* 1966:169-173. GB1205.S3  
English summary.
- 100309 SCHUCH, M. A new method of determining the amount of surface runoff on only slightly sloping soils. (Ge) *Bayer. Landwirt. Jahrbuch* 44 (spec.no.3):156-159. 1967. 18 L24
- 100310 SCHULTE-KARRING, H. Improvement of the moisture supply of wet soils through systematic pipe drainage or deep breaking up of the soil. (Ge) *Bayer. Landwirt. Jahrbuch* 44(spec.no.3):43-54. 1967. 18 L24
- 100311 SCIUBBA, R. A method for the use of electric energy in portable irrigation equipment. (It) *Genio Rurale* 30(5):407-410. May 1967. 281.8 R522  
Includes costs.
- 100312 SERVANT, J., and COUSTURIE, B. Utilization of the Languedocian coast at the delta of the Orb. (Fr) *Potasse* 41(347):153-156, map. Sept. 1967. 57.8 P84  
Desalinization of soil.
- 100313 SHANNON, S., VITTUM, M. T., and GIBBS, G. H. Irrigating with waste water from processing plants. *N. Y. (State) Agr. Exp. Sta. Res. Circ.* 10,9 p. May 1968. 100 N48R  
Vegetables.
- 100314 SHOEMAKER, E. Comparison of hydraulic and electric sprinkler systems. *Tex. Turf-grass Conf. Proc.* 22:1-6. Dec. 1967. 60.19 T31
- 100315 SHUMAKOV, B. A. Development of the soil improvement in the North Caucasus. (Rus) *Gidrotekh. Melior.* 11:50-58. Nov. 1967. 290.8 G362  
Irrigation chiefly.
- 100316 SIGLER, W. F. Uranium mill wastes as stream pollutants. *Utah Sci.* 28(2):47-49, map. June 1967. 100 UtilF  
Includes disposal.
- 100317 SINGH, M. Measuring irrigation? Why not! *Indian Farming* 17(12):24-26. Mar. 1968. 22 In283
- 100318 SIVANAPPAN, R. K. Ground water - its source and movement. *Madras Agr. J.* 54(8):431-435. Aug. 1967. 22 M262
- 100319 SIVARAMAN, B. Ayacut Development Programme: What it is. *Indian Farming* 17(10):7-8. Jan. 1968. 22 In283  
Irrigation project.
- 100320 SMART, J. S., and SURKAN, A. J. The relation between mainstream length and area in drainage basins. *Water Resources Res.* 3(4):963-974. Ref. Fourth Q. 1967. 292.8W295
- 100321 SO, S. D. Flood routing and storage analysis in a streamflow. (Ko) *J. Agr. Eng.* 9(1):9-17. June 1967. 290.9 T12  
English summary.
- 100322 SOOVIK, E. On relative economic effectiveness of drainage of temporarily waterlogged mineral soils. (Es) *Eesti Maaviljeluse Maaparanduse Tead. Uurimise Inst. Tead. Toode Kogumik* 7:102-121. 1966. 20 Ee73T  
Russian summary.
- 100323 SOOVIK, E. Precision in determination of drainage volume. (Rus) *Eesti Maaviljeluse Maaparanduse Tead. Uurimise Inst. Tead. Toode Kogumik* 7:67-77. 1966. 20 Ee73T
- 100324 SPIOVSKI, J. Saline soils of Macedonia and their reclamation. (Se) *Sovremeno Zemjod.* 13(8):18-20. Aug. 1966. S13.S6
- 100325 STANGA, N. Observations on the effect of drainage on the fertility of waterlogged soils used as natural grasslands. (Rum) *Bucharest. Inst. Cent. Cercet. Agr. Sect. Pedol. An.* 34:371-385. Ref. 1966, pub. 1967. 21 R86A  
English summary.
- 100326 STAVEREN, J. M. V. The Institute's first ten years (1956-1966). *Int. Inst. Land Reclam. Impr. Annu. Rep.* 1966:4-5. 54.9 In8A
- 100327 STOJANOV, B. Methods of irrigation. (Se) *Sovremeno Zemjod.* 14(5):5-6. May 1967. S13.S6
- 100328 STURGES, D. L., and SUNDIN, R. E. Gross alpha and beta radiation in waters at a Wyoming mountain bog. *Water Resources Res.* 4(1):159-162. Feb. 1968. 292.8 W295
- 100329 STURGES, D. L. Water quality as affected by a Wyoming mountain bog. *Water Resources Res.* 3(4):1085-1089. Fourth Q. 1967. 292.8 W295
- 100330 SULLIVAN, G. D., WOOLF, W. F., and PHILLIPS, S. A. Profitability of irrigation and fertilization for cotton. *La. Agr.* 11(2):12-13. Winter 1967/68. 100 L939

- 100331 SULYOK-SCHULEK, B. A method for reducing the operating costs of fruit tree irrigation. (Ge) Klosterneuburg. Hoheren Bundeslehr-Versuchsanst. Wein-Obstbau. Mitt. 16(1):52-56. Jan.1966. 105.9 K696  
English summary.
- 100332 SYMPOSIUM ON ANALYTICAL METHODS IN HYDROLOGY. [Papers.] Water Resources Res. 3(3):805-808. Ref. 1967. 292.8 W295
- 100333 TAINSH, J. A. R., and LOCK, G. W. Evaluating gross domestic product of irrigation. World Crops 19(4):32-36. Sept.1967. 281.8 W892
- 100334 THIMMAIAH, G. Water rates in Mysore State. Agr. Situation India 22(3):255-262. June 1967. 281.9 In23  
For irrigation.
- 100335 TINNEY, E. R. Research on Washington's water resources. Wash. State Hort. Ass. Proc. 1967:68-72, map. 81 W273
- 100336 TOEBES, C. The place of hydrology in New Zealand's economy. J. Hydrol. 6(2):57-59. 1967. 292.8 J822
- 100337 TOMBERG, U. To each farm promising plan of development. (Es) Eesti Maaviljeluse Maaparanduse Tead. Uurimise Inst. Tead. Toode Kogumik 7:3-9. 1966. 20 Ee73T  
Russian summary.  
Reclamation policies.
- 100338 TOURNON, G. Experimenting new methods of land subirrigation. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.1:127-167. Ref. 1966, pub.1967. S675.C6 1966  
English summary.  
With plastic pipes.
- 100339 TRAVAGLINI, G. Experimental research on a venturimeter as a movable device for measuring discharge in irrigation networks. (It) Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.1:249-263. Ref. 1966, pub.1967. S675.C6 1966  
English summary.
- 100340 TSONEV, I. Irrigation with variable flows for the protection of land from irrigation erosion. (Bu) Pochvozn. Agrokhim. 2(4):71-76. 1967. S590.P6  
English summary.
- 100341 U. S. OFF. OF WATER RESOURCES RESEARCH. Cooperative water resources research and training; 1967 annual report pursuant to the Water Resources Research Act of 1964 as amended by Public Law 89-404. Washington, 1968. 287 p. HD1694.A3
- 100342 UGURCHINSKI, S., and CHEKHLAROV, A. Sprinkling irrigation of wheat and corn on steep lands aimed at avoiding soil erosion. (Bu) Rasteniyeudni Nauk. 4(9):57-70. Ref. 1967. 64.8 R18  
English summary.
- 100343 UNDERHILL, H. W., and VENKATASAWMY, K. Evaporation studies in Mauritius. Rev. Agr. Sucriere Ile Maurice 46(3):138-144, map. July/Sept.1967. 24 M44  
In relation to calculation of irrigation water requirements.
- 100344 VEMURI, V., and DRACUP, J. A. Analysis of nonlinearities in ground water hydrology: a hybrid computer approach. Water Resources Res. 3(4):1047-1058. Ref. Fourth Q.1967. 292.8 W295
- 100345 VENENI, M. Irrigation requirement of sugar beet under the conditions of central Vah Valley. (Cz) Pol'nohospodarstvo 14(2):86-94. Ref. 1968. 19.5 P752  
English summary.
- 100346 VERI, G. Evaporative demand and soil humidity as factors in determining when to irrigate. I: Validity of the criterion; experimental results. (It) Ric. Sci. 37(11):1021-1027. Ref. Nov.1967. Q4.R5
- 100347 VIDAL, H., and SCHUCH, M. Results from different runoff and ground water observations in uncultivated and cultivated upland moor spots of the south Chiemsee moor in the drainage year of 1966. (Ge) Bayer. Landwirt. Jahrbuch 44(5):577-591. Ref. 1967. 18 L24
- 100348 VIESSMAN, W. Runoff estimation for very small drainage areas. Water Resources Res. 4(1):87-93. Feb.1968. 292.8 W295
- 100349 VOLKER, A. Surface hydrology of deltaic areas. Symp. Sci. Probl. Humid Trop. Zone Deltas Implications. Proc. 1966:143-150. GB1205.S3  
Includes flood control and sedimentation.
- 100350 VOLSCHENK, J. E. Too compact—hence increase of brack. Farming S. Afr. 43(3):17, 19. June 1967. 24 So842  
Alfalfa irrigation problems due to soil compaction and saline water.
- 100351 WACKER, H. Land development measures within the framework of improvement of agrarian structure. (Ge) Deut. Landwirt.-Ges. Arb. 108:5-12. 1966. 18 D48  
Water and soil programs and consolidation of holdings.
- 100352 WATSON, W. O., and others. Hawaiian water use and development. Nat. Reclam. Ass. Proc. 1967:12-27. 55.9 N212  
Panel discussion.  
W. Y. Thompson, K. Hamada, G. A. L. Yuen, and W. L. Briant joint authors.
- 100353 WESSELS, W. P. J. Protect and utilise your soil and water. Farming S. Afr. 43(12):39-43. Mar.1968. 24 So842  
Irrigation, land leveling, and runoff.
- 100354 WEST, O. Irrigated pastures plan could save Lowveld. Mod. Farming Cent. Afr. 4(8):25, 27, 29. Feb.1968. 24 M72  
Rehabilitation of denuded grazing areas in Rhodesia.
- 100355 WHITELEY, E. L. Water—why and when to irrigate. Tex. Turfgrass Conf. Proc. 22:39-42. Dec.1967. 60.19 T31
- 100356 WIENER, A. The role of advanced techniques of groundwater management in Israel's national water supply system. Int. Ass. Sci. Hydrol. Bull. 12(2):32-38. June 1967. 292.9 As7
- 100357 WILCOX, J. C. Credit to give for rain when scheduling irrigations. Can. Agr. Eng. 9(2):103-107, 125. July 1967. 58.8 C164  
Statistical methods.
- 100358 WILL, H. Influence of irrigation on vegetable yields. (Ge) Indus. Obst-Gemüseverwertung 53(6):174-176. Mar.21, 1968. 389.8 K832
- 100359 WIPPLINGER, O. Desalination of water. Farming S. Afr. 43(1):50-53. Apr.1967. 24 So842
- 100360 WOHLRAB, B. Ecological investigations of hydraulic engineering and mining operations on soil and water utilization. (Ge) Z. Kulturtech. Flurbereinigung 8(5):291-299. Ref. Sept./Oct.1967. S605.A1Z4  
Review of the literature.  
Soil structure and underground water in relation to reclamation.
- 100361 WOHLRAB, B. On the drainage of agricultural soils in mountain areas that are sinking. (Ge) Bayer. Landwirt. Jahrbuch 44(spec.no.3):20-21. 1967. 18 L24
- 100362 WOOLHISER, D. A., and LIGGETT, J. A. Unsteady, one-dimensional flow over a plane - the rising hydrograph. Water Resources Res. 3(3):753-771. Ref. 1967. 292.8 W295
- 100363 YAKHTENFEL'D, P., and STEPANISHCHEV, N. Hard wheat—on the irrigated soils. (Rus) Sel'skokhoz. Proizvodstvo Povolzh'ya 9:23. Sept.1967. 281.8 Se4
- 100364 YAMADA, H., FISCHER, B. B., and ROMEROY, C. R. Effects of irrigation treatments on barley yields. Calif. Agr. 21(2):8-9. Feb.1967. 100 C12Cag



- 100365 YEVEJEVICH, V. Mean range of linearly dependent normal variables with application to storage problems. *Water Resources Res.* 3(3):663-671. 1967. 292.8 W295
- 100366 YEVEJEVICH, V. Misconceptions in hydrology and their consequences. *Water Resources Res.* 4(2):225-232. Apr. 1968. 292.8 W295
- 100367 ZAGNI, A. F. E. Conagro [Consorzio di Bonifica Agro Veronese]—irrigated agriculture in Verona. *World Crops* 19(4):25-28, map. Sept. 1967. 281.8 W892
- 100368 ZAITSEV, V. B. 50-year experience on rice irrigation. (Rus) *Gidrotekh. Melior.* 11:59-66. Ref. 290.8 G362
- 100369 ZHELESNYAKOV, G., and ANNAYEV, S. Forming bed of Kara-Kum canal. (Rus) *Vestnik Sel'skokhoz. Nauk.* [Moscow] 5:52-58. May 1967. 20 V633  
English summary.  
Irrigation.
- 100370 ZIJLSTRA, G. The irrigation requirements for wet rice cultivation in the lowlands of South-East Asia. *Int. Inst. Land Reclam. Impr. Annu. Rep.* 1966:56-63. 54.9 In8A
- 100371 ZWAARD, P. VAN DER. Mechanical irrigation of flowerpots. (Du) *Aalsmeer. Proefsta. Bloemisterij. Jaarverslag* 1966:127. 86 Aa4  
Cyclamen.
- Erosion and Erosion Control
- 100372 ALLEN, P. B., and WELCH, N. H. Sediment transport of streams in the Washita River Basin in Caddo and Grady Counties, Oklahoma. *Water Resources Res.* 3(3):777-784, map. 1967. 292.8 W295
- 100373 ANTONOVIC, G. M. Soil erosion and its control on red sandy soils of East Serbia. (Se) *Arh. Poljoprivredne Nauk.* 20(69):70-78. 1967. 21.5 Y9  
English summary.
- 100374 BALLATORE, G. P. Agronomical directions in soil protection in Italy. (It) Palermo. Univ. Ist. Agron. Gen. Colt. Erbacee. *Quad. Agron.* 4:1-32. Ref., p. 29-32. 1967, pub. 1968. 16 P172  
English summary.
- 100375 BESSARABOV, P. Protect soil—the source of wealth; agricultural practices in wind erosion control. (Rus) *Sel'skokhoz. Proizvodstvo Povolzh'ya* 8:21. Aug. 1967. 281.8 Se4
- 100376 BLAKE, G. R., and SWAN, J. B. New dimensions for soil and water conservation. *Minn. Sci.* 23(3):18-19. Apr. 1967. 100 M668
- 100377 BOUGHTON, W. C. Plots for evaluating the catchment characteristics affecting soil loss. 1. Design of experiments. *J. Hydrol.* 6(2):113-119. 1967. 292.8 J822  
New Zealand.
- 100378 CHEN, C. S. Integrated soil conservation treatments and orchard management on slope-land. (Ch) *Taiwan Agr. Quart.* 3(2):105-117. June 1967. S19.T3  
English summary.
- 100379 CHERNYSHEV, N. A. Recording eroded lands and the control of soil erosion. (Rus) *Uchet Finansy Kolkhoz. Sovkhoz.* 8:18-19. Aug. 1967. 30.69 Uc4
- 100380 CHOWDHURY, M. I. On the gradual shifting of the Ganges from west to east in the delta-building operations. *Symp. Sci. Probl. Humid Trop. Zone Deltas Implication. Proc.* 1966:35-40, map. GB1205.S3  
Includes discussion.
- 100381 CLARE, R. J. Wairakei soil reserve fills important role. *New Zeal. J. Agr.* 114(3):85, 87. Mar. 1967. 23 N48J
- 100382 DE KOCK, D. A. Loss of soil through water erosion. *Farming S. Afr.* 43(12):53-55. Mar. 1968. 24 So842  
Measurement of runoff.
- 100383 DE LA HARPE DE VILLIERS. The farmer and his soil. *Farming S. Afr.* 43(12):73-75. Mar. 1968. 24 So842  
Soil conservation.
- 100384 DEL PELO PARDI, T. Soil stabilization and lay-out in Castelmalnome area. (It) *Conv. Naz. Ass. Ital. Ing. Agr. Atti, 1st Conv., v.1:* 109-125. 1966, pub. 1967. S675.C6 1966  
English summary.  
Chiefly soil erosion control.
- 100385 ENDO, T., and TSURUTA, T. A study on environmental conditions of bare slopes originating from landslides and their vegetational recovery. I. The number of years required for the recovery of vegetations on bare slopes under natural conditions. (Ja) *Hokkaido. Forest Exp. Sta. Annu. Rep.* 1965:187-196. Dec. 1966. 99.9 J2724A  
English summary.
- 100386 ENDO, T., and TSURUTA, T. A study on environmental conditions of bare slopes originating from landslides and their vegetational recovery. II. Some characteristic features of the bare slopes evaluated from environmental factors and their classifications. (Ja) *Hokkaido. Forest Exp. Sta. Annu. Rep.* 1965:197-209. Dec. 1966. 99.9 J2724A  
English summary.
- 100387 GARRETT, J. W. Conservation in the development of an Otago Coastal Hill country farm. *Soil Water* 4(1):26-27. Sept. 1967. 56.8 So323  
Control of erosion in New Zealand.
- 100388 GEACH, C. H. Our living soil. *Farming S. Afr.* 43(12):57-59. Mar. 1968. 24 So842  
Soil conservation.
- 100389 GHUMARE, N. K. Survey and planning in soil conservation. *J. Soil Water Conserv.* India 15 (1/2):37-41. Ref. Jan./June 1967. 56.8 J824
- 100390 GOEBEL, N. B. Fertilizer helps prescription pine plantings reclaim eroded land. *Better Crops Plant Food* 52(2):8-9. 1968. 6 B46  
Loblolly pine.
- 100391 GUINARD, A. Conservation and improvement of soil fertility in Africa. 1. *World Crops* 19 (4):29-31. Sept. 1967. 281.8 W892
- 100392 GUPTA, S. K., and DALAL, S. S. Gabion structures for soil conservation. *Indian Forest.* 93(6):383-392. June 1967. 99.8 In2
- 100393 HAYWARD, J. A. Plots for evaluating the catchment characteristics affecting soil loss. 2 - Review of plot studies. *J. Hydrol.* 6(2):120-132. Ref. 1967. 292.8 J822
- 100394 HEEDE, B. H. The fusion of discontinuous gullies. *Int. Ass. Sci. Hydrol. Bull.* 12(4):42-50. Dec. 1967. 292.9 As7
- 100395 ISHIKAWA, M., and SUZUKI, T. Erosive processes of landslides in a frozen ground region in Hokkaido. (Ja) *Hokkaido. Forest Exp. Sta. Annu. Rep.* 1965:144-157. Ref. Dec. 1966. 99.9 J2724A  
English summary.
- 100396 JENT, C. H., BELL, F. F., and SPRINGER, M. E. Predicting soil losses in Tennessee under different management systems; guide for selecting systems and practices for soil and water conservation. *Tenn. Agr. Exp. Sta. Bull.* 418, 75 p. Ref. Apr. 1967. 100 T25S  
U. S. Department of Agriculture, cooperating.
- 100397 KALUTSKII, K. K., and KHOLYAVKO, V. S. Terracing of mountain slopes in northern Caucasus. (Rus) *Les. Khoz.* 3:71-73. Mar. 1967. 99.8 L5622  
Planting of trees for control of erosion.
- 100398 KARL, J. Investigations on soil erosion and sedimentation in mountain areas. (Ge) *Bayer. Landwirt. Jahrbuch* 44(specc.no.3):279-281. 1967. 18 L24
- 100399 KATSUMI, S. Transition of landslides observed by aerial photographs; study of landslides in afforested land on Tertiary in Hokkaido. *Forest. Exp. Sta. Annu. Rep.* 1965:178-186. Dec. 1966. 99.9 J2724A  
English summary.
- 100400 LUSBY, G. C., and HADLEY, R. F. Deposition behind low dams and barriers in the southwestern United States. *J. Hydrol.* 6(2):89-105, map. 1967. 292.8 J822

- 100401 MADAN, U. S. Role of farm forestry in soil & water conservation. *J. Soil Water Conserv. India* 15(1/2):30-32. Jan./June 1967. 56.8 J824
- 100402 MIKHAILOV, V. N. Hydrology and formation of river-mouth bars. *Symp. Sci. Probl. Humid Trop. Zone Deltas Implications. Proc.* 1966: 59-63. GB1205.S3
- 100403 MILLER, H. F., BAILEY, H. H., and CORDER, G. 4-H land judging in Kentucky. *Ky. Univ. Ext. 4-H 1186-D, rev.* 21 p. Apr. 1968. 275.29 K415Fh  
For proper soil conservation practices.
- 100404 ONCHEV, N., and NIKOLOV, S. Physical and chemical characteristics of the erosion run-off from cinnamonic forest soils. (Bu) *Pochvozn. Agrokhim.* 2(5):61-71. 1967. S590.P6  
English summary.  
In Bulgaria.
- 100405 PANI, S. M. C. Soil conservation as related to engineering projects. *J. Soil Water Conserv. India* 15(1/2):13-14. Jan./June 1967. 56.8 J824
- 100406 POPA, A., and LUCA, A. Investigations on microrelief and soil modification as a result of terracing in vineyards. (Rum) *Bucharest. Inst. Cent. Cercet. Agr. Sect. Pedol. Ann.* 34:387-400. 1966, pub. 1967. 21 R86A  
English summary.  
Includes physical and chemical changes.
- 100407 THE RISE of the conservation ideal in South Africa. *Farming S. Afr.* 43(12):65-71. Mar. 1968. 24 So842  
Soil conservation history and policies.
- 100408 ROMAS', V. Reforestation of mountain slopes of Markotkh Ridge. (Rus) *Les.Khoz.* 3:73-75. Mar. 1967. 99.8 L5622  
On terraces for erosion control.
- 100409 SEN, P., and others. Evaluation of subcatchments in the Upper Damodar Valley for undertaking soil conservation measures on priority basis. *J. Soil Water Conserv. India* 15(1/2):44-49. Jan./June 1967. 56.8 J824  
P. B. Bhattacharya, R. K. Mukherjee, and D. K. Roy, joint authors.
- 100410 SERFONTEIN, J. Proposed programme for the Festival of the Soil. *Farming S. Afr.* 43(12):35-37. Mar. 1968. 24 So842  
Soil conservation celebration.
- 100411 SIOLI, H. General features of the Delta of the Amazon. *Symp. Sci. Probl. Humid Trop. Zone Deltas Implications. Proc.* 1966:381-390, map. GB1205.S3  
Sedimentation and vegetation included.
- 100412 SVIRIDOV, A. S. Experience in reforestation for erosion control in forest-steppe. (Rus) *Nauch. Dokl. Vyssh. Shk. Biol. Nauk.* 4:128-131. 1967. 442.8 N22
- 100413 TISON, L. J. Problems of sedimentation in deltas. (Fr) *Symp. Sci. Probl. Humid Trop. Zone Deltas Implications. Proc.* 1966:41-57, map. GB1205.S3  
English summary.
- 100414 VAN DER MERWE, J. P. Soil conservation—where do we stand? *Farming S. Afr.* 42(5):46-47. Aug. 1966. 24 So842  
Government policy.
- 100415 VORSTER, B. J. Call to the Festival of the Soil. *Farming S. Afr.* 43(12):33-35. Mar. 1968. 24 So842  
Soil conservation celebration.
- 100416 YAMAMOTO, T., and ANDERSON, H. W. Erodibility indices for wildland soils of Oahu, Hawaii, as related to soil forming factors. *Water Resources Res.* 3(3):785-798, map. Ref. 1967. 292.8 W295
- 100417 ZEID, A. D. The calculation of the washing rate for meadow Solonchak in the Terek delta. (Rus) *Moscow Univ. Vestnik Ser. 6 Biol. Pochvoved.* 1:93-97. Jan./Feb. 1967. 442.9 M854
- 100418 ZHMAKIN, A. S. Rot-resistant aspen trees suitable for planting gully and ravine areas. (Rus) *Les. Khoz.* 1:73-74. Jan. 1967. 99.8 L5622  
Soil erosion control.
- Sanitation
- 100419 ADAMS, R. S. The fate of pesticide residues in soil. *Minn. Acad. Sci. J.* 34(1):44-48. Ref. 1967. 500 M663
- 100420 CHAWLA, R. P., and CHOPRA, S. L. Persistence of residues of DDT and BHC in normal and alkali soils. *Punjab Agr. Univ. J. Res.* 4(1):96-103. Ref. Mar. 1967. S19.P8
- 100421 GUENZI, W. D., and BEARD, W. E. Movement and persistence of DDT and lindane in soil columns. *Soil Sci. Soc. Amer. Proc.* 31(5):644-647. Sept./Oct. 1967. 56.9 So3
- 100422 HAMAKER, J. W. Mathematical prediction of cumulative levels of pesticides in soil. *Advances Chem. Ser.* 60:122-131. 1966. 381 Ad93
- 100423 INUBUSHI, S. Effects of the steam sterilization of soil on semi-forcing culture of cucumber. (Ja) *Kagawa Univ. Fac. Agr. Tech. Bull.* 19(1):110-114. 1967. 107.6 K113  
English summary.  
Compared with fumigation.
- 100424 STENERSEN, J. Insecticides gone astray. (No) *Norsk Landbruk* 12:10-11, 21. June 16, 1967. 11 N8122  
Insecticide residues in soil and water chiefly.
- 100425 TERRIERE, L. C., and others. Persistence of pesticides in orchards and orchard soils. *Advances Chem. Ser.* 60:263-270. Ref. 1966. 381 Ad93  
U. Kiigemagi, R. W. Zwick, and P. H. Westigard, joint authors.  
DDT.
- 100426 WOLFE, H. R., and DURHAM, W. F. Spillage of pesticides and residues in soil. *Wash. State Hort. Ass. Proc.* Dec. 5-7, 1966:91-92. 81 W273
- MATERIALS FOR SOIL IMPROVEMENT
- Chemical Fertilizers
- 100427 PETERBURGSKII, A. V. The leading role of nitrogen in agriculture and the outlook for the application of nitrogen fertilizer. (Rus) *Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf.* 1967:23-30. S651.Z5
- Fertilizer Technology and Statistics
- 100428 ACHORN, F. P., and BALAY, H. L. Suspensions by cold mixing. *Fert. Solutions* 12(1):38-45. Jan./Feb. 1968. 57.8 So4
- 100429 BABENKO, N. W., and CHERNOBAEVA, M. M. Effects of adjuvants on physical properties and effectiveness of nitroammophoska. (Rus) *Khim. Sel'skom Khoz.* 5(6):14-15. June 1967. 385 K524
- 100430 BARANOV, N. N. The economic effectiveness of nitrogen fertilizers. (Rus) *Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf.* 1967:407-415. S651.Z5
- 100431 BATYUTA, V. I., and VALOVNENKO, D. K. Economic effectiveness of nitrogen fertilizers application under conditions prevailing in the Polesye region of Zhitomir. (Rus) *Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf.* 1967: 427-429. S651.Z5
- 100432 CZUBA, R. Some present problems of fertilizers in Swedish agriculture. (Pol) *Nowe Roln* 16(4):30-32. 1967. 20.5 N86
- 100433 DWORECKI, E. Freight car delivery of fertilizers for Bydgoszcz Province. (Pol) *Nowe Roln.* 16(3):20. 1967. 20.5 N86
- 100434 GARUD, B. S. Reduction of operating costs through choice of process—hydrochloric acid process for the manufacture of phosphoric acid. *Seminar Cost Finan. Fert. Proj. India. Proc.* 1966:178-182. 1967. HD9483.S4 1966



- 100435 GILBERT, R. W., and PICKERING, A. Inspection of fertilizers made for the Rhode Island Department of Natural Resources. R. I. Agr. Exp. Sta. Annu. Fert. Circ., Dec. 1967, 29 p. 100 R34S
- 100436 GOLOMBA, R. A. The economic effectiveness of nitrogen fertilizers. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:418-426. S651.Z5
- 100437 KRESHKOVA, E. K., KOMAROVA, K. A., and YAROVENKO, A. N. Methods of potassium fertilizer analysis based on potentiometric titration in nonwater solutions. (Rus) Khim. Sel'skom Khoz. 5(6):61-66. Ref. June 1967. 385 K524
- 100438 MISSOURI AGRICULTURAL EXPERIMENT STATION. 1966-67 Missouri commercial fertilizer inspection and analysis. Mo. Agr. Exp. Sta. Bull. 873, 49 p., map. Feb. 1968. 100 M693
- 100439 RENGASAMY, P., SAVITHRI, P., and KAMALAM, N. A note of the biuret content of fertilizer grade urea. Madras Agr. J. 54(12):643. Dec. 1967. 22 M262
- 100440 REXROAD, P. R., and GEHRKE, C. W. Differences in potassium values determined by official AOAC extraction procedures. Ass. Offic. Anal. Chem. J. 50(3):714-717. Ref. June 1967. 381 As7  
Fertilizer analysis.
- 100441 ROBERTS, P. S. Future developments in fertilizers available. New Zeal. Agr. Sci. 2/3:91-93. Nov. 1967. S17.N4
- 100442 SADOWSKI, W., and ZAWILSKI, J. Evaluation of amount of mineral fertilizers used in 1966 crop year, based on results of a survey. (Pol) Nowe Roln. 16(1):18-21. 1967. 20.5 N86
- 100443 SCHMITZ, F. 2 Billion DM. for commercial fertilizers. (Ge) Kartoffelbau 18(1):4-5. Jan. 1967. 75.8 K145
- 100444 SIMA, J. Commercial technical services for handling and application of fertilizers. (Cz) Agrochemia [Bratislava] 7(10):312-313. Oct. 1967. 385 Ag88  
English summary.  
Includes mixing.
- 100445 SMITH, R. The Western Pacific-booming fertilizer market. Farm Chem. 130(8):54-57. Aug. 1967. 57.8 Am3
- 100446 UNGER, H. Topical material on fertilizer prices. (Ge) Betriebswirtsch. Mitt. Wirtschaftsberater 152:32. June 15, 1967. 281.8 B462
- 100447 WAGGAMAN, W. H., and HOFFMAN, W. M. "Let's drop the single evaluation method." Farm Chem. 130(8):66-72. Ref. Aug. 1967. 57.8 Am3  
Water solubility of phosphates.
- 100448 WHITLOCK, R. Facts about fertilizing. Arable Farmer 1(4):40-41, 43. Feb. 1967. S3.A7  
Handling.
- 100449 WILLIAMS, F. H. Fertilizers for 1967; list of fertilizers registered at the Office of the Director of Agriculture under the Fertilizer Act 1958 (No. 6250). J. Agr. [Melbourne] 65(6):264-275. June 1967. 23 V66J
- 100450 WILSON, L. H. Contacts, confidence and continuity. S. Dak. State Univ. Ext. Spec. Rep. 4:31-34. 1965. 275.29 S685Sr  
National Plant Food Institute (Washington, D. C.), the trade association of the fertilizer industry, and how it relates to extension programs.
- 100451 WUBBEN, G. H. H. E. New fertilizer factories on the Nieuwe Waterweg. (Du) Landbouwkundig Tijdschr. 79(8):259-260. Aug. 1967. 105.2 Or3
- 100452 ZINCHENKO, A. S. The economics of fertilizer application and the annual collective farm reports. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:416-417. S651.Z5
- Manures and Composts
- 100453 ALMASI, P. Fertilizer value of city sewage. (Hu) Kertesz. Szolesz. 16(15):20-21. Aug. 1967. 80 K474
- 100454 BARTON, K. P. Significance of pH in mushroom compost. World Crops 19(1):73. Mar. 1967. 281.8 W892
- 100455 BISHOP, R. A. Pigeon manure in Cappadocia. World Crops 19(1):38-39. Mar. 1967. 281.8 W892  
Keeping of pigeons for manure and its composition.
- 100456 CORPORACION NACIONAL DE FERTILIZANTES (PERU). Informes, estudios y diversos documentos resumen las actividades de esta Corporacion referentes a la conservacion de las aves guaneras [Reports, studies and various documents which summarize the activities of the Corporation in reference to the conservation of guano birds]. Corp. Nac. Fert. Bol. (ser. 2) 4(1/4), 108 p. Jan./Apr. 1966. 57.9 C73B  
Relation of the fishing industry to bird conservation and resultant guano production; includes reports by O. Diez Canseco, A. Castillo T., L. Gamarra Dulanto, and the Compania Administradora del Guano.
- 100457 DUNCAN, A. A. Composts for the garden. Oreg. State Univ. Ext. FS 134, 2 p. Mar. 1968. 275.29 Or36  
Chiefly preparation.
- 100458 GEERING, J., and KUENZLI, W. Effect comparison of liquid manure and sewage sludge as grassland fertilizers. (Ge) Schweiz. Landwirt. Forsch. 4(3):301-331. Ref. 1967. 17 Sch99  
English summary.  
Switzerland.
- 100459 IBRAHIM, I. Some characteristics of microorganisms activity in compost formation. (Ge) Zentralbl. Bakteriol. Parasitenk. Infektionskr. Hyg. Abt. II. Naturwiss. 122(1):42-88. Ref. 1968. 448.3 C33
- 100460 JENSEN, H. L. Silage effluent and its disposal. (Da) Grundforbattring 2(20):81-83. 1967. 54.8 G92  
English summary.  
Use as fertilizer.
- 100461 KOSMAT, H. Liquid manure fertilizing influences the surface of humus in grassland soils. (Ge) Forderungsdienst 15(2):41-43. Feb. 1967. 19 F75  
Austria.
- 100462 KUZINA, V. P. The effect of peat on the nitrogen status and fertility of sandy soils. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:92-99. S651.Z5  
Peat as fertilizer.
- 100463 LUPINOVICH, I. S., and KORIBSKAYA, V. P. The effect of hydrothermal conditions on the process of decomposition and mineralization of peat and improvement of its quality as a fertilizer. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:126-132. S651.Z5
- 100464 MARQUES GOMES, M. R. Utilization of grape twigs. (Por) Agricultural [Lisbon] 28:13-17. Oct./Dec. 1965. 15.5 Ag85  
Grinding up for fertilizer.
- 100465 NIKLEWSKI, M., and others. The productive value of farmyard manures on heavy brown soil taking into account different oxidizing agents and different time of decomposition. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:196-199. 1966, pub. 1967. 20.5 St4  
E. Wenglikowska, W. Nowak, and H. Rabin-ska, joint authors.  
English summary.  
Tests with potatoes and wheat.
- 100466 NIKLEWSKI, M., KRZYZANIAK, Z., and SALACIAK, A. Tests on composting farmyard manure with various Ca forms in heavy soils. (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:191-195. 1966, pub. 1967. 20.5 St4  
English summary.

- 100467 PANASYUK, YA. YA. Basic factors contributing to the effective action of peat and peat mixes. (Rus) Zhytomyrs'kyi Sil's'kohospod. Inst. Mater. Konf. 1967:113-115. S651.Z5
- 100468 SAMPSON, W. W. The need for solid organic waste reclamation. Pest Contr. Oper. News 27(5):16-17. (Cont.) May 1967. SB951.A194
- 100469 SHRAM, V. Preparing compost. (Rus) Sadovostvo [Moscow] 10:43. Oct. 1967. 80 Sa13
- 100470 VÁVRUSKA, A. Determination of chemical components in widely distributed aquatic, littoral and marshy plants from the point of view of their utilization for composts. (Cz) Vyzk. Ustav Rybarskeho Hydrobiol. Vod. Pr. 6:41-68. Ref. 1966. 414.9 V852  
English summary.



## MISCELLANEOUS

Publications of the U. S. Department of Agriculture, State Agricultural Experiment Stations, and State Agricultural Extension Services on home management, personnel, and other subjects not ordinarily covered in the Bibliography of Agriculture will be included in this list.

## GENERAL

- 100471 ABBOTT, D. C., and others. Thin-layer chromatographic separation, identification and estimation of residues of some carbamate and allied pesticides in soil and water. *J. Chromatography* 30(1):136-142. Sept. 1967. 475 J824  
K. W. Blake, K. R. Tarrant, and J. Thomson, joint authors.
- 100472 ALEXANDER, R. M. Pollution control for a quality environment. *Oreg. Agr. Progr.* 14 (1):2-3, 16. Spring/Summer 1967. 100 Or3Or
- 100473 ALVSBORGS LANS NORRA HUSHALLNINGSSALLSKAP. Report of Alvsborg Province Northern Agricultural Society, 1966. (Sw) Alvsborgs Lans Norra Hushallningssallskaps. *Tidskr.* 74(1):8-58. 1967. 11 AL82
- 100474 ANDRILENAS, P. Farmers' expenditures for pesticides in 1964. U. S. D. A. Agr. Econ. Rep. 106, 10 p. 1967. A281.9 Ag8A
- 100475 BEVENUE, A., and others. A survey of pentachlorophenol content in human urine. *Bull. Environ. Contamination Toxicol.* 2(6):319-332. Nov./Dec. 1967. RA1270.P35A1  
J. Wilson, L. J. Casarett, and H. W. Klemmer, joint authors.  
Pesticide residues.
- 100476 BLOMQUIST, T. W. The philosophies of natural resource management. *Ohio Woodlands* 6(3):14, 17. May/July 1968. 99.8 Oh34
- 100477 BONDO-ANDERSEN, A. Agriculture and nature protection. (Da) *Dansk Landbrug* 86(12):303-306, map. Dec. 1967. 280.28 V91
- 100478 BOOZ-ALLEN APPLIED RESEARCH, INC. Development of the Agricultural Research Service master automatic data processing plan. Bethesda, 1967. 41 p. HF5548.2.B62  
Excerpts from Interim Organization and Final Report Submitted to U.S. Dept. of Agriculture, Agricultural Research Service, Administrative Services Division.
- 100479 BOTTLE, R. T., and WYATT, H. V. The use of biological literature. Hamden, Connecticut, Archon Books, 1967. 286 p. Ref. QH303.B6 1967  
Includes agriculture.
- 100480 CASTLE, E. N. Environment policy education. *Farm Found. Increasing Understanding Public Probl. Policies* 1967:141-142. 275.29 F22
- 100481 COHEN, J. M., and PINKERTON, C. Wide-spread translocation of pesticides by air transport and rain-out. *Advances Chem. Ser.* 60:163-176. Ref. 1966. 381 Ad93
- 100482 COMBER, L. C. General problems in the teaching of ecology in the introductory stages of a school biology course. *Brit. Ecol. Soc. Symp.* 7:53-59. 1966. 451 B775
- 100483 CORDER, G. D., and MILLER, H. F. 4-H soil and water conservation unit 3: Wildlife. *Ky. Univ. Ext.* 4-H 1090, 22 p. Mar. 1968. 275.29 K415Fh
- 100484 COURTIER, M. Results of a new method of application. (Fr) *Paris. Acad. Agr. France Compt. Rend. Hebd. Seances* 53(15):1142-1152. Nov. 1967. 14 P215Bc  
Effects of pesticides on grains and animals.
- 100485 CROWLEY, J. M. The Ecology of North America, analysis of a work by V. E. Shelford. (Fr) *Soc. Biogr. Compt. Rend.* 375/376:92-100. Mar. 1967. 505 P216
- 100486 CURRENT topics in developmental biology. Volume 1. Edited by A. A. Moscona, and A. Monroy. New York, Academic Press, 1966. 299 p. QL951.C8  
Review of the literature.
- 100487 DECKER, B. Managing money in a farm supply business. *Feed Farm Supplier* 41(8):30-32. Aug. 1967. 47.8 H28  
Use of a record keeping system.
- 100488 DOWDESWELL, W. H. The place of ecology in the Nuffield scheme. *Brit. Ecol. Soc. Symp.* 7:83-90. 1966. 451 B775
- 100489 DULAK, K., and others. Test methods for pesticidal preparations and their normalisation. *Agrochimica [Bratislava]* 7(12):371-374. 1967. 385 Ag88  
R. Nadvornik, M. Toman, K. Ullrich, joint authors.
- 100490 ENGELGARDT, V. Soviet developments in molecular biology. 6 p. (JPRS 43,076; TT 67-33701) Transl. 16842  
Translation from *Kommunist [Erevan]* Aug. 22, 1967:2.  
Issued by CFSTI.
- 100491 EPPS, E. A., and others. Preliminary report on a pesticide monitoring study in Louisiana. *Bull. Environ. Contamination Toxicol.* 2(6):333-339. Nov./Dec. 1967. RA1270.P35A1  
F. L. Bonner, L. D. Newsom, R. Carlton, and R. O. Smitherman, joint authors.  
Residues.
- 100492 ERRO, F., BEVENUE, A., and BECKMAN, H. A method for the determination of toxaphene in the presence of DDT. *Bull. Environ. Contamination Toxicol.* 2(6):372-380. Ref. Nov./Dec. 1967. RA1270.P35A1
- 100493 FARNESS, S. S. Planning and managing our environment. *Farm Found. Increasing Understanding Public Probl. Policies* 1967:129-140. 275.29 F22  
To combat pollution.
- 100494 FINLAY, R. R. Land for learning: On school land laboratories, children get to know the out-of-doors. *Soil Conserv.* 33(12):267-268. July 1968. 1.6 So3S  
Natural resource conservation in Ohio.
- 100495 FREEMAN, O. L. Mr. Potato Grower meet your USDA. *Spudman*, Spring 1968:18-20, 24-25, 42. 75.8 Sp93  
Review of programs and agencies.
- 100496 FREY, J. C. Environment policy education. *Farm Found. Increasing Understanding Public Probl. Policies* 1967:145-149. 275.29 F22  
To combat pollution.
- 100497 GAUTHIER, S. B. The great outdoors is the greatest teacher. *Soil Conserv.* 33(12):278. July 1968. 1.6 So3S  
Conservation in Louisiana.
- 100498 GIBBS, B. M., and SKINNER, F. A. Identification methods for microbiologists. *Pt. A. Soc. Appl. Bacteriol. Tech. Ser.* 1, 145 p. Ref. 1966. QR41.S6
- 100499 GILL, J. N. Connecticut's open-space program. *J. Forest.* 65(12):873-875. Dec. 1967. 99.8 F768
- 100500 GIMINGHAM, C. H., and others. Postgraduate instructional courses in ecology. *Brit. Ecol. Soc. Symp.* 7:231-239. 1966. 451 B775  
J. B. Kenworthy, G. M. Dunnet, and H. Milne, joint authors.  
In Great Britain.
- 100501 GRATTO, C. P. Environment policy education. *Farm Found. Increasing Understanding Public Probl. Policies* 1967:143-144. 275.29 F22
- 100502 GRAY, J. H. The practical teaching of ecology in the introductory stages of a school biology course. *Brit. Ecol. Soc. Symp.* 7:61-68. Ref. 1966. 451 B775
- 100503 GRAY, P. The dictionary of the biological sciences. New York, Reinhold Publishing Corporation, 1967. 602 p. QH13.G7
- 100504 HEARD, W. L. Mississippi [State Conservation Education] Advisory Council enhances agency cooperation in conservation education. *Soil Conserv.* 33(12):279. July 1968. 1.6 So3S
- 100505 HOGL, O. What measures does the government take to protect consumers against misuse of pesticides? (Ge) *Alimenta* 5(6):225-226. 1966. TP368.A4

- 100506 HOOS, W. Are we powerless against the rat plague? (Ge) *Der praktische Schaedlingsbe-kaempfer* 19(8):111. Aug.1967. 421 P882
- 100507 HOWELL, K. A. A practical solution to your "help wanted" problem. *Feed Farm Supplier* 41(8):28-29. Aug.1967. 47.8 H28  
A training program in farm supplies.
- 100508 IOWA. AGRICULTURAL EXPERIMENT STA-TION. Nematology in the North Central Region, 1956-1966. Iowa. Agr. Home Econ. Exp. Sta. Spec. Rep. 58,20 p. May 1968. 100 Io9Sp  
Agricultural Experiment Stations of Alaska, Illinois, Indiana, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin; and U. S. Department of Agriculture, cooperating.  
Also North Central Regional Research Publi-cation No. 187.  
Description of research programs and list of publications, p.7,16-19.
- 100509 IRELAND. DEPT. OF AGRICULTURE AND FISHERIES. Annual report 1965-66. Dublin, 1967. 67 p. 10.5 Ir43A
- 100510 IVUSIC, C. W. 7 conservation centers keep go-ing. *Reclam. Era* 54(2):46-49. May 1968. 156.84 R24
- 100511 JOHNSON, R. A. Western teachers go to school in Oregon forest setting. *Soil Conserv.* 33(12): 269-270. July 1968. 1.6 So3S  
Natural resource conservation.
- 100512 JOLLES, Z. E., ed. Bromine and its com-pounds. London, Benn, 1966. 940 p. Ref. QD181.B7J6  
Includes agricultural pesticides.
- 100513 KAY, K. Effect of pesticides on enzyme sys-tems in mammals. *Advances Chem. Ser.* 60:54-66. 1966. 381 Ad93  
Review of the literature.
- 100514 KEMPIN, E. Pesticides export at a record high. (Ge) *Der praktische Schaedlingsbe-kaempfer* 19(8):110. Aug.1967. 421 P882  
In Germany.
- 100515 LAMBERT, J. M., and GOODMAN, G. T. Ba-sic problems in the teaching of ecology. *Brit. Ecol. Soc. Symp.* 7:3-10. Ref. 1966. 451 B775
- 100516 LANDFORCE, A. S. Care and culture of earth-worms. *Oreg. State Univ. Ext. FS* 140,2 p. Mar.1968. 275.29 Or36
- 100517 LUNDIN, A. Education in nature conservation at the Royal College of Forestry [Skogshogsko-lan]. (Sw) *Skogen* 54(20):500-501. Oct.12,1967. 99.8 Sk51
- 100518 MALAWI. DEPT. OF AGRICULTURE. Annual report for the year 1966. Part. I. Zomba, 1967. 36 p. 24 M29
- 100519 MALONE, T. F. Outlook on air and water pol-lution and economic poison residues situation. *Conn. Woodlands* 32(3):9-11. May/June 1967. 99.8 C76
- 100520 MANN, K. H. The approach through the eco-system. *Brit. Ecol. Soc. Symp.* 7:103-111. 1966. 451 B775  
Ecology teaching in Great Britain.
- 100521 MARGUS, M. Nature conservation societies in the fraternal republics. (Es) *Eesti Loodus* 3: 148-149. Mar.1968. 409.6 Ee7  
USSR bloc.
- 100522 MARRERO, J. F. De suelo y agua: Conserva-tionists of many lands learn in Puerto Rico. *Soil Conserv.* 33(12):273-274. July 1968. 1.6 So3S
- 100523 MCNULTY, C. Conservation education. *Con-servationist* 21(6):13. June/July 1967. 279.8 N48  
New York.
- 100524 MEUSEL, H. Natural resource protection with-in the framework of the IBP [International Bio-logical Program]. (Ge) *Arch. Naturschutz Landschaftsforsch.* 6(4):249-253. 1966. 279.8 Ar2
- 100525 MILLER, J. A., and SKALLAND, P. G. Michi-gan schools put real action into conservation education. *Soil Conserv.* 33(12):271-272. July 1968. 1.6 So3S
- 100526 MINTER, P. C. Our great need for pesticide education. *Agrichem. West* 10(5):16,18-20,22, 24-25. May 1967. 381 Ag85  
Extension programs.
- 100527 MITCHELL, L. E. Pesticides: properties and prognosis. *Advances Chem. Ser.* 60:1-22. Ref. 1966. 381 Ad93  
Includes toxicity.
- 100528 MOHRHARDT, F. E. National indexing and ab-stracting services. *Symp. Tex. Looks Sci. Inform. Proc.* 1965:86-111. 1966. Z699.5.S3S6  
Biological and agricultural documentation in-cluded.
- 100529 MOSKOVETS', S. M. Microbiology and virology in the Ukrainian S. S. R. for 50 years. (Uk) *Mikrobiol. Zhur.* 29(5):379-382. 1967. 448.3 K54  
English summary.
- 100530 MUTO, S., and SUZUKI, T. Analytical results of residual mercury in the Japanese storks, *Ciconia ciconia boyciana* swinhoe, which died at Obama and Toyooka regions. (Ja) *Jap. J. Appl. Entomol. Zool.* 11(1):15-20. Mar.1967. 475 J27  
English summary.  
In pesticides.
- 100531 NEWBOULD, P. J. Career opportunities for ecologists in the developed countries. *Brit. Ecol. Soc. Symp.* 7:255-281. 1966. 451 B775
- 100532 NYE, D., COLER, R. A., and WALL, W. J. A quantitative sample concentration procedure. *Bull. Environ. Contamination Toxicol.* 2(6):355-356. Nov./Dec.1967. RA1270.P35A1  
Pesticides chromatography.
- 100533 OLDFIELD, F. The linkage of ecological teaching with that in the earth sciences. *Brit. Ecol. Soc. Symp.* 7:33-40. 1966. 451 B775  
Biology, geography and geology education.
- 100534 PATRIC, E. F. Wildlife management series. 10. *Conservationist* 21(6):10-12. June/July 1967. 279.8 N48  
Pt. 10 of Wildlife Management Series.
- 100535 PERROTT, E. The place of ecology in the bio-logical sciences curriculum study. *Brit. Ecol. Soc. Symp.* 7:91-100. Ref. 1966. 451 B775
- 100536 POLAND, J. L. The pesticide industry needs more market research. *Farm Chem.* 130(8): 58-63. Aug.1967. 57.8 Am3
- 100537 PRITCHARD, T. General organization of field studies. *Brit. Ecol. Soc. Symp.* 7:213-220. 1966. 451 B775  
In teaching ecology.
- 100538 RAPOS, P. Organization and activity of the Research Institute of Agrochemical Technology in Bratislava [Vyskumny Ustav Agrochemickej Technologie v Bratislava]. (Cz) *Agrochemia (Bratislava)* 7(12):357-360. 1967. 385 Ag88
- 100539 RASSEL, A. The electron microscope. (Fr) *Ann. Gembloux* 73(2):89-104. 1967. 13 G28  
Includes history and general usage.
- 100540 RESTLE, B. Student teachers join in district program to give children the facts of conserva-tion. *Soil Conserv.* 33(12):275. July 1968. 1.6 So3S  
Indiana.
- 100541 ROSSMILLER, G. E., and HERVEY, J. L. Michigan demonstration finds farmers eager to know what's next from computers? *Ext. Serv. Rev.* 39(5):4-5. May 1968. 1 Ex892Ex  
Extension work.
- 100542 SEGELMAN, G. M. Agriculture. In Jolles, Z. E., ed. Bromine and its compounds, p.563-588. QD181.B7J6  
Bibliography, p.579-588.  
Economic poisons for various uses.
- 100543 SINKER, C. A. The role of field centres in ec-ological teaching. *Brit. Ecol. Soc. Symp.* 7: 221-228. 1966. 451 B775



- 100544 SMITH, C. J. An approach to the teaching of ecology at A-level. Brit. Ecol. Soc. Symp. 7: 69-74. 1966. 451 B774
- 100545 SOUTH DAKOTA ACADEMY OF SCIENCE. PROCEEDINGS, VOLUME 46, 1967. Vermillion, 1967. 268 p., map. Ref. 500 So82
- 100546 SVENSKA LANTMANNENS RIKSFÖRBUND. Årsredovisning [Annual report of the Federation of Swedish Farmers], 1967. Stockholm, 1968. 40 p., map. 11 Sv29
- 100547 SYMPOSIUM ON ORGANIC PESTICIDES IN THE ENVIRONMENT, ATLANTIC CITY, NEW JERSEY, 1965. [Papers]. Advances Chem. Ser. 60, 309 p. Ref. 1966. 381 Ad93  
Delivered at 150th Meeting of American Chemical Society. Chairmen: A. A. Rosen and H. F. Kraybill.
- 100548 SYMPOSIUM ON SCIENTIFIC PROBLEMS OF THE HUMID TROPICAL ZONE DELTAS AND THEIR IMPLICATIONS, DACCA, PAKISTAN. Proceedings. Paris, UNESCO, 1966. 422 p. Ref. GB1205.83  
Papers in English and French, concluding remarks and conclusion by F. R. Fosberg. Sections on geomorphology, sedimentation, pedology; hydrography and hydrology; vegetation; biology; human influences; and delta classification.
- 100549 SYMPOSIUM ON THE TEACHING OF ECOLOGY, LONDON, 1966. [Papers] edited by J. M. Lambert. Brit. Ecol. Soc. Symp. 7, 294 p. 1966. 451 B775  
Sponsored by British Ecological Society.
- 100550 TAORMINA, A. S. The natural values of marine wetlands. Conservationist 21(6):659. June/July 1967. 279.8 N48
- 100551 TASMANIA. DEPT. OF AGRICULTURE. Annual report for 1966-67. Hobart, 1967. 108 p. 23 T182R
- 100552 TELEMARKE LANDBRUKSELSKAP. Årsmelding [Annual report of Telemark Agricultural Society], 1967. Porsgrunn, 1968. 84 p. 1968. 11 T23
- 100553 THOMAS, A. K. Ecology at A-level: The experimental approach. Brit. Ecol. Soc. Symp. 7:75-81. Ref. 1966. 451 B775
- 100554 TRONDELAGE MYRSELSKAP. Annual report of the Trondelag Heath Society 1966. (No) Norkse Myrsele. Medd. 65(4):102-103. 1967. 11 N813
- 100555 TRUCHLIK, S. Twenty years of the Research Institute of Agrochemical Technology in Bratislava [Vyskumny Ústav Agrochemickej Technologie v Bratislava]. (Cz) Agrochemia [Bratislava] 7(12):353-357. 1967. 385 Ag88  
English summary.
- 100556 VAN CLEVE, J. W., and RIST, C. E. Migration of the p-nitrobenzoyl group: an attempted preparation of 1,3-di-O-p-nitrobenzoyl-D-erythritol. Carbohydr. Res. 4(1):95-96. Mar. 1967. 385 C172
- 100557 VAN CLEVE, J. W., and RIST, C. E. Synthesis of 3-O-benzyl-D-erythrose. Carbohydr. Res. 4(1):91-95. Mar. 1967. 385 C172
- 100558 VLASIN, R. D. Natural resource development. Minn. Sci. 23(3):3-4. Apr. 1967. 100 M668
- 100559 WASHINGTON, DEPT. OF AGRICULTURE. AGRICULTURAL CHEMICAL LABORATORY ON COMMERCIAL FEEDS, FERTILIZERS, PESTICIDES. Report for January 1, 1967 through June 30, 1967. Olympia, 1967. 55 p. 389.79 W523
- 100560 WEBER, W. J., and GOULD, J. P. Sorption of organic pesticides from aqueous solution. Advances Chem. Ser. 60:280-304. Ref. 1966. 381 Ad93
- 100561 WERMINGHAUSEN, B. Plastics for agriculture. (Ge) Chem. Tech. Landwirt. 18(12):420-421. (Cont.) Dec. 1967. 384 C4292
- 100562 WEST, I. Biological effects of pesticides in the environment. Advances Chem. Ser. 60:38-53. Ref. 1966. 381 Ad93  
Toxicity.

- 100563 WESTLAKE, W. E., and GUNTHER, F. A. Occurrence and mode of introduction of pesticides in the environment. Advances Chem. Ser. 60: 110-121. Ref. 1966. 381 Ad93
- 100564 WINTERLIN, W. L., RIVERS, J. B., and WALKER, G. O. A simple improved all-glass system for the microanalysis of pesticides on the Dohrmann model 100 gas chromatograph. Bull. Environ. Contamination Toxicol. 2(1):47-52. Jan./Feb. 1967. RA1270.P35A1

## BIOGRAPHY

- 100565 AAS, G. 70 Years. (No) Buskap Avdratt 3:149. 1967. 49 B96  
Biography of H. Baekkedal.
- 100566 ACADEMICIAN Georgi S. Khlebarov. (Bu) Zhivotnovudstvo 21(4):12-13. Apr. 1967. 49 Z62
- 100567 THE ADMINISTRATION of rivers and forests—retirement. (Fr) Soc. Roy. Forest Belg. Bull. 74(8/9):391-395. Aug./Sept. 1967. 99.9 B83  
L Britchet.
- 100568 ALDEN, J. C., and RUE, MRS J. L. William Franklin Turner 1887-1965. Ga. Entomol. Soc. J. 1(1):23-24. Jan. 1966. QL461.G4
- 100569 ANDROIC, M. In memoriam Prof. Dr. eng. Svetislav Zivojinovic. (Se) Sumarski List 91 (5/6):266. May/June 1967. 99.8 Su6
- 100570 ANIC, M. In memoriam Prof. Dr. Ivo Pevalšek. (Se) Sumarski List 91(5/6):262-264. May/June 1967. 99.8 Su6  
Includes list of his publications.
- 100571 ASSISTANT Director [David A. Burgoyne] retires. Utah Sci. 28(2):57. June 1967. 100 Ut1F
- 100572 ASTREGO, J. J. In memory of Lute Kamstra. (Sw) Neth. Dir. Tuinbouw. Mededel. 30(5):209. May 1967. 86 N384
- 100573 AWARDS. Amer. Vet. Med. Ass. J. 150(9): 1048-1050. May 1, 1967. 41.8 Am3  
Of the American Animal Hospital Association presented to J. T. McGrath, C. C. Snyder, and F. R. Booth.
- 100574 BALTHASAR, V. Dr. Leo Heyrovsky. (Cz) Ziva 15(5):183. Sept. 1967. 409.6 Z6
- 100575 BALTHASAR, V. RND, CSC Zdenek Tesar. (Cz) Ziva 15(5):184. Sept. 1967. 409.6 Z6
- 100576 BESTOWAL of the Peter Josef Lenne prizes 1967. (Ge) Landesver. Gartenbau. Landwirt. Berlin. Mitteilungsbl. 18(2):10. Feb. 1967. 85 L233  
To H. de la Chevallier and M. Heimer, for landscape gardening.
- 100577 BOB [M.] Hamilton retires. Cross Tie Bull. 48(11):46-47. Nov. 1967. 99.82 C87
- 100578 BONADONNA, T. Major General Vet. Dr. Filoteo Nelli. (It) Zootec. Vet. 22(5/6):191-192. May/June 1967. 41.8 Z7
- 100579 BONADONNA, T. Prof. Filippo Uselli. (It) Zootec. Vet. 22(5/6):196-197. May/June 1967. 41.8 Z7
- 100580 BONADONNA, T. Prof. Mario Scapaccino. (It) Zootec. Vet. 22(5/6):193-194. May/June 1967. 41.8 Z7
- 100581 BORDEN, T. B., and HOTCHKISS, C. W. Democracy in natural resource administration. J. Forest. 65(12):880-881. Dec. 1967. 99.8 F768
- 100582 BORJE Lundgren. (Sw) Skogs- Lantbruks- akad. Tidskr. 106(5):188-189. 1967. 104 Sw3  
Necrology.
- 100583 BOUDREAUX, H. B. In memoriam Percy Viosca, Jr., 1892-1961. La. Acad. Sci. Proc. 30: 5-6. 1967. 500 L932
- 100584 BRUNA, M. Farewell of a botanist. (Du) Natuurhist. Genoot. Limburg. Natuurhist. Maandbl. 56(1):6-7. Jan. 25, 1967. 409.6 N2123N  
Jos van Loo of the Botanic Garden of Terwindselen.

- 100585 BUCK, J. Frank Alexander McDermott (1885-1966). *Coleopt. Bull.* 21(4):116-121. Dec.1967. 421 C674  
Includes list of publications.
- 100586 CHENEY, R. H. Ralph Curtiss Benedict 1883-1965. *Torrey Bot. Club. Bull.* 94(2):107-108. Mar./Apr.1967. 451 T63B
- 100587 CHIEF forester [Hans Adolf] Wilkens in retirement. (Ge) *Forst- Holzwirt* 22(20):436-437. Oct.23,1967. 99.8 F7724
- 100588 CHIEF of Agricultural Education Division [E. T. Beruldsen] retires. *J. Agr. [Melbourne]* 65(6):234,258. June 1967. 23 V66J
- 100589 CHUDAEV, N. I. In memory of Leonid Antonovich Utkin. (Rus) *Bot. Zhur. [Moscow]* 52(9):1363-1364. Sept.1967. 451 R923
- 100590 COLIN G. Butler, M.A., Ph.D., F.R.P.S., F.Inst.Biol. *Bee World* 48(2):63-64. Summer 1967. 424.8 B399
- 100591 COWAN, C. F. Sir Hugh Low G.C.M.G. (1824-1905). *Soc. Bibliogr. Nat. Hist. J.* 4(7):327-343. Jan.1968. 241.7 S01
- 100592 CZOPOR, S. Gustaw Splawa-Neyman-obituary. (Pol) *Sylwan* 111(8):72-74. 1967. 99.8 Sy52
- 100593 THE DEATH of Dr. Ir. M. L. A. Verhaart. (Ge) *Zucker* 20(1):30-31. Jan.1,1967. 65.8 Z82
- 100594 DICKER, G. H. L. Arthur Morel Massee, O. B. E., D. Sc., F. R. E. S. *East Mallang Res. Sta. Annu. Rep.* Apr.1968:4-5. 103 Ea7
- 100595 DR. W. E. Cohen retires. *CSIRO (Commonwealth Sci. Indus. Res. Organ.) Forest Prod. Newslett.* 342:4. July 1967. 99.9 Au722F
- 100596 EIFRIG. Prof. Dr. [Werner] Lindenbein is 65 years old. (Ge) *Saatgut-Wirtsch.* 19(3):95-96. Mar.1967. 61.8 S01
- 100597 80 YEARS old. (No) *Norsk Skogindus.* 22(2):64. Feb.1968. 99.82 N81  
Rolf Rolfsen.
- 100598 ESCHWEILER. Dr. Hugo Herberg is 80 years old. (Ge) *Prakt. Tierarzt* 48(11):534-535. Nov.1,1967. 41.8 P882
- 100599 EYNDHOVEN, G. L. VAN. In memoriam Prof. Dr. Marc Andre 10-II-1900 - 31-V-1966. (Du) *Entomol. Ber.* 26(11):193-194. Nov.1,1966. 420 N38B
- 100600 FELDMANN, J. Tcharna Rayss (1890-1965), biographical note. (Fr) *Soc. Phycol. Fr. Bull.* 11:22-23. Feb.1967. 451 S0134
- 100601 FESTSCHRIFT: Friedrich Markgraf on the completion of his 70th year on February 1, 1967, edited by T. Eckardt and O. Rohweder. (Ge) *Bot. Jahrbucher* 86(1/4):555 p., map. Feb.1,1967. 450 En3B  
Biography and list of publications, p.III-XXIV.
- 100602 FIADEIRO, J. Professor Jose Miranda do Vã-le. (Por) *Lisbon. Escol. Super. Med. Vet. An.* 8:9,11,13. 1966, pub.1967. 41.9 L682
- 100603 FOR OUTSTANDING achievement and leadership the William Garfitt [Foundation] Award. *United Fresh Fruit Veg. Ass. Yearbook* 1968: 221. 280.3939 Un3  
Given to Roy R. Scott.
- 100604 FREDERIKSEN, E. In memoriam M. J. Christiansen. \*3.12.1896 - +5.19.1967. (Da) *Danske Dyrægefor. Medlemsbl.* 50(12):534-536. June 15,1967. 41.9 D23
- 100605 FRIEDRICH Saathoff has turned 60. (Ge) *Obstbauberatungsring. Mitteilungsbl.* 22(1):16. Feb.1967. 85 Ob72
- 100606 GAALEN, J. VAN. Bakker Arkema [P.W.] and Huizinga [T.S.] retired. (Du) *Neth. Dir. Landbouw. Landbouwvoorlichting* 24(12):409-413. Dec.1967. 12 N383M
- 100607 GUNNAR Olafson will be 50 years old. (No) *Gartneryrket* 43(57):933. Oct.27,1967. 80 G1938
- 100608 HALL, C. W., and BRUNER, M. H. A look at the man, Charles H. Flory. *Forest Farmer* 27(3):11,20-21. Dec.1967. 99.8 F7692
- 100609 HARVEY, J. M. William Salisbury Ballard, 1881-1966. *Phytopathology* 57(7):643. July 1967. 464.8 P56
- 100610 HATT, P. Marcel Goux (1920-1967). (Fr) *Rev. Forest. Franc.* 19(6):425-426. June 1967. 99.8 R329
- 100611 HEUELL, K. State forester [Roman Max] Beninde is 65 years old. (Ge) *Forst- Holzwirt* 22(20):437. Oct.23,1967. 99.8 F7724
- 100612 HEYMER, A., and SCHOTTNER, A. On the 75th birthday of Dr. Erich Schmidt. (Ge) *Deut. Entomol. Z. (n.s.)* 14(3/4):257-263. Oct.20, 1967. 421 D48  
Includes list of publications.
- 100613 HEYROVSKY, L. Dr. Vladimir Balthasar is seventy years old. (Cz) *Acta Entomol. Bohemoslov.* 64(5):402-404. Sept.20,1967. 420 C33  
German summary.  
Includes list of his publications from 1957 to 1967.
- 100614 HEYROVSKY, L. PhD, RND Vladimir Balthasar. (Cz) *Ziva* 15(5):183. Sept.1967. 409.6 Z6
- 100615 HOJER, E. W. Carl Kempe in memoriam. (Sw) *Skogen [Stockholm]* 54(16):396. Aug.17, 1967. 99.8 Sk51
- 100616 HOLGER Rasmussen will be 50 years old. (Da) *Dansk Pelsdyravl* 31(3):123. Mar.20,1968. 412.628 D23
- 100617 HOLLAND, G. P. George Johnston Spencer, 1888-1966. *Entomol. Soc. Amer. Ann.* 60(3): 710-711. May 15,1967. 420 En82
- 100618 HOOLBERG, Z., and REMPT, D. In memoriam Dr. D. W. Zuidam. (Du) *Tijdschr. Diergeneesk.* 93(5):329-331. Mar.1,1968. 41.8 T431
- 100619 HÖÖS, W., and HEHL, L. 75th birthday of Professor Dr. H. Kliewe [b. Sept.7,1892]. (Ge) *Der praktische Schaedlingsbekämpfer* 19(10):137. Oct.1967. 421 P882
- 100620 IN MEMORY of Academician N. I. Sus. (Rus) *Sel'skokhoz. Proizvodstvo Povolzh'ya* 10:47. Oct.1967. 281.8 Se4
- 100621 IN MEMORY of P. V. Gorskii. (Rus) *Lës. Khoz.* 3:60. Mar.1967. 99.8 L5622
- 100622 IN MEMORY OF V. B. GUSSAK. (Rus) *Pochvovedenie* 5:130-131. May 1968. 57.8 P34
- 100623 IN MEMORY of Vasilii Kirillovich Zakharov. (Rus) *Les. Khoz.* 6:50. June 1967. 99.9 L5622
- 100624 IVANOVSKII, V. A. I. Voeikov. (Rus) *Sel'skokhoz. Proizvodstvo Povolzh'ya* 9:39. Sept. 1967. 281.8 Se4
- 100625 JAAG, O. To the memory of Gottfried Huber-Pestalozzi. (Fr) *Rev. Algol.* 9(1):3-10. Sept. 1967. 450 R3212  
Includes list of publications.
- 100626 JENS Osteraas in memoriam. (No) *Meieriposten* 57(8):167. Feb.24,1968. 44.8 M47
- 100627 JOHAN Lindbert. (Sw) *Skogs- Lantbruksakad. Tidskr.* 106(5):187-188. 1967. 104 Sw3  
Necrology.
- 100628 KARPINSKI, J. J. Prof. A. I. Iljinski-75th birth anniversary and 55 years of scientific work. (Pol) *Sylwan* 111(8):55-56. 1967. 99.8 Sy52
- 100629 KEBBEL, R. Natur conservation--is it a task for the forester? (Ge) *Deut. Forstmann* 7(10): 2-4. Oct.1967. 99.8 D486
- 100630 KENDREW, J. C. Kurt Jacoby, to mark his seventy-fifth birthday. *J. Mol. Biol.* 30(2):15-16. Dec.14,1967. 442.8 J8224
- 100631 KOCHER, L. Obituary: Professor Lindberg. (Fr) *Soc. Sci. Natur. Phys. Maroc. Compt. Rend.* 32:10-11. 1966. 515 S01C
- 100632 KOLARIK, J. Dr. eng. Jan Tauber is 60 years old. (Cz) *Prague. Vyzk. Ustav Zemed. Vestn.* 13(7):325-326. 1966. 19.5 C333



- 100633 KOLLMANN, F. Prof. Dr. Ing. Edgar Morath is 70 years old. (Ge) Holz Roh- Werkstoff 25(7):274-276. July 1967. 99.81 H74  
Includes list of publications.
- 100634 KONIG, E. Chief forestry councilor Dr. J. Buttner, in memoriam. (Ge) Forst- Holzwirt 22(20):437-438. Oct.23,1967. 99.8 F7724
- 100635 KOPACHEVS'KA, YE. H., and BLYUM, O. B. Alfred Nikolaevich Oksner (on his 70th birthday). (Ukr) Ukr. Bot. Zh. 25(2):103-106. 1968. 450 J8212J
- 100636 LABIK, K. Eighty years of Prof. Dr. František Stencl. (Cz) Veterinarstvi 17(9):427-428. 1967. 41.8 V6439
- 100637 LANE, M. C., and NEWCOMER, E. J. William Carmichael Cook (1895-1967). Lepidopterists Soc. J. 21(4):279-280. 28 Nov.1967. 421 L554
- 100638 THE LARGE gold medal for professor [Gustav] Allinger. (Ge) Landesver. Gartenbau Landwirt wirt. Berlin. Mitteilungsbl. 18(2):9. Feb.1967. 85 L233  
Bestowed by the Zentralverband des Deutschen Gemuse-, Obst- und Gartenbaues for his services to horticultural expositions.
- 100639 LAX, T. Scientific road of academician Antonín Klobouk. (Cz) Veterinarstvi 17(9):425-427. 1967. 41.8 V6439
- 100640 LECRENIER, A. Belgian fruit arboriculture is in mourning—Edmond Van Cauwenbergh is dead. (Fr) Fruit Belg. 36(317):3-4. Jan.1968. 80 F9493
- 100641 LEE, D. J., and WATERHOUSE, D. F. Anthony Reeve Woodhill, 1900—1965. Linn. Soc. New S. Wales. Proc. 92(3):285-297. 1968. 514 Sy2  
Includes list of publications.
- 100642 LOUB, W. Prof. Herbert Franz upon his 60th birthday. (Ge) Bodenkultur 19(1):I-II. Feb. 1968. 19 B635
- 100643 MAGNAN, J. C. The career of George Maheux. (Fr) Agriculture [Montreal] 24(2):11-12. June 1967. 7 Ag82
- 100644 MARECEK, F. On 65th birthday of Prof. Dr. eng. Bohumil Kavka. (Cz) Prague. Vyzk. Ustav Zemed. Vestn. 13(5):246-247. 1966. 19.5 C333
- 100645 MARZA, V. D., and CERCHEZ, N. Charles Naudin, a pioneer of contemporary biology. (1815-1899). J. Agr. Trop. Bot. Appl. 14(10-11):369-401. Oct./Nov.1967. 26 J822  
Botanist.  
Includes list of publications.
- 100646 MELCHIOR, H. Ernst Tiegs 20. July 1884—16. April 1967. (Ge) Deut. Bot. Ges. Ber. 80 (4):255-264. 1967. 451 D48  
Includes list of publications.
- 100647 MELEKHOV, I. S. G. F. Morozov and his ideas. (Rus) Les. Khoz. 1:11-18. Jan.1967. 99.8 L5622
- 100648 MENAPACE, G. Dr. Luigi Lintas. (It) Zootec. Vet. 22(5/6):190-191. May/June 1967. 41.8 Z7
- 100649 NESTEROV, YA. S. S. F. Chernenko. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 5:135-136. May 1967. 20 V633
- 100650 90 YEARS old. (No) Norsk Skogindus. 22(2):63-64. Feb.1968. 99.82 N81  
Kristoffer Morch.
- 100651 NORDQUIST, M. Erik Lindeberg - in memoriam. (Sw) Skogen (Stockholm) 54(22):558. Nov.9,1967. 99.8 SK51
- 100652 ORLOVS'KII, M. I., and OKANENKO, A. S. Professor V. V. Kolkunov. (Ukr) Visn. Sil's'ko-hospod. Nauk. 4:123-124. Apr.1966. 20 V82
- 100653 PALCZEWSKI, H. Gerrit de Ruiter—a Dutch rose breeder. (Pol) Pol. Tow. Milosnikow Roz. Roczn. 1:106-107. 1965, pub.1966. SB403.P6
- 100654 PANTAGAR scientist gets FAO award [Food and Agriculture Organization of the United Nations]. Indian Farming 17(9):53. Dec.1967. 22 In283  
Dr. Y. L. Nene for work on a zinc deficiency disease of rice.
- 100655 PARTYKA, T., and SZYMANSKI, B. Lech Zielinski—Obituary. (Pol) Sylwan 111(8):70-72. 1967. 99.8 Sy52  
Includes list of publications.
- 100656 PASAK, V. On 70th birthday of eng. Dr. Otaka Lhota. (Cz) Prague. Vyzk. Ustav Zemed. Vestn. 13(5):248. 1966. 19.5 C333
- 100657 PAUL M. Dunn past president of SAF to retire. J. Forest. 65(12):912. Dec.1967. 99.8 F768
- 100658 PERISIC, M., and TESIC, Z. On the occasion of 70th birthday and 50 years of scientific activity of academician Dr. Mladen Josifovic, professor of Belgrade University. (Se) Zastita Bilja 93/95:5-10. 1967. 464.8 Z1  
Includes list of his publications.
- 100659 PETR Dmitrievich Glebov. (Rus) Gidrotekh. Melior. 12:119-120. Dec.1967. 290.8 G362
- 100660 PEYER, E. Z. Turkovic, Zagreb, is 75 years old. (Ge) Schweiz. Z. Obst- Weinbau 103(11):363-364. May 27,1967. 80 Sch9
- 100661 PIERRE Grasset-Morel (1908—1967). (Fr) Rev. Forest. Franc. 19(6):423-424. June 1967. 99.8 R329
- 100662 PILAT, A. Academician Ctibor Blatný is 70 years old. (Cz) Ziva 15(5):180. Sept.1967. 409.6 Z6
- 100663 POUL Mørch-Hansen is 60 years old. (Da) Dansk Pelsdyravl 31(3):123. Mar.20,1968. 412.628 D23
- 100664 PROF. Dr. Harald Richter's 65th birthday. (Ge) Gesunde Pflanzen 19(9):173-174. Sept. 1967. 464.8 G33
- 100665 PROFESSOR Dr. Emil Lowig is 65. (Ge) Saatgut-Wirtsch. 19(3):96-97. Mar.1967. 61.8 Sal
- 100666 A PROMINENT scientist. (Rus) Len Konoplya 12:35-37. 1967. 73.8 L542  
N. I. Vavilov.
- 100667 REED, H. E. Plant disease investigations of Dr. C. D. Sherbakoff. Tenn. Farm Home Sci. Progr. Rep. 65:24-29. Jan./Mar.1968. 100 T25F  
Biography.
- 100668 REGINALD Crundall Punnet 1875—1967. (Ja) Jap. J. Genet. 42(4):283-284. Aug.1967. 442.9 J27
- 100669 RICHARD Hoppner on his 75th birthday. (Ge) Kartoffelbau 18(3):106. Mar.1967. 75.8 K145
- 100670 ROBERT Fries. (Sw) Skogs- Lantbruksakad. Tidskr. 106(5):186-187. 1967. 104 Sw3  
Necrology.
- 100671 ROHM, H. Otto Schiller's work and achievements. (Ge) Z. Ausländische Landwirt. 6(2):213-223. June 1967. 281.8 Z32  
Includes a list of publications.
- 100672 ROS, W. Ernst V. Staxang - in memoriam. (Sw) Skogen [Stockholm] 55(1):6. Jan.4,1968. 99.8 Sk51
- 100673 RUDOLF Eklund in memoriam. (Sw) Skogsbruken 37(5):137. 1967. 99.8 Sk59
- 100674 SASAKI, S. A eulogy dedicated to the scientific achievements of Prof. S. Yamada. (Ja) Pedologist 11(1):2-6. June 1967. 56.8 P344  
Includes list of publications.
- 100675 SAVOV, T. 80th anniversary of academician G. S. Khlebarov's birth. (Bu) Zhivotnovudni Nauk. 4(3):111-112. 1967. 49 Z65
- 100676 SCHINDLER, W. Heinrich and Wilhelm Cotta in the eyes of their contemporaries. (Ge) Arch. Forstwesen 17(1):53-64. Ref. 1968. 99.8 Ar22  
English summary.

- 100677 SCHNECKENBURGER, F. New director of the State Viticulture Institute [Staatliches Weinbauinstitut] in Freiburg in Breisgau. (Ge) Schweiz. Z. Obst- Weinbau 103(13):413-414. June 24, 1967. 80 Sch9  
Dr. Bruno Gotz.
- 100678 SCHOMBERG, F. We congratulate Karl Zorn on his 60th birthday. (Ge) Landesver. Gartenbau Landwirt. Berlin. Mitteilungsbl. 18(2):6. Feb. 1967. 85 L233
- 100679 SCHWENKE, W. Hans Sachtleben. (Ge) Z. Angew. Entomol. 60(1):137-138. June 1967. 421 Z36
- 100680 SCHWENKE, W. In memoriam Wilhelm Zwolfer. (Ge) Z. Angew. Entomol. 60(1):1-2. June 1967. 421 Z36
- 100681 SCHWENKE, W. Prof. Dr. Janos Györfi. (Ge) Z. Angew. Entomol. 59(3):319-320. Mar. 1967. 421 Z36
- 100682 SERRA, A. Count Dr. Paolo Thaon di Revel. (It) Zootec. Vet. 22(5/6):194-196. May/June 1967. 41.8 Z7
- 100683 SEVELIUS, F. Halvar Arne in memoriam. (Sw) Svensk Veterinartidn. 19(23):669. Dec. 1967. 41.9 Sv23
- 100684 70th ANNIVERSARY of P. G. Naidin. (Rus) Khim. Sel'skom Khoz. 5(6):80. June 1967. 385 K524
- 100685 70 YEARS old. (Da) Maelkeritidende 81(11):231. Mar. 15, 1968. 44.8 M26  
Arne Busk.
- 100686 70 YEARS old. (No) Norsk Skogindus. 22(2):64-65. Feb. 1968. 99.82 N81  
Kaare Haug.
- 100687 SINYAGIN, L. I. In memory of Professor N. S. Sokolov. (Rus) Vestnik Sel'skokhoz. Nauk. [Moscow] 5:137-138. May 1967. 20 V633
- 100688 SKUHRAVY, V. Prof. RND, DSc Frantisek Milner. (Cz) Ziva 15(5):184. Sept. 1967. 409.6 Z6
- 100689 SOIL scientist [Sterling A. Taylor], Dept. Head, dies. Utah Sci. 28(2):49. June 1967. 100 Ut1F
- 100690 SOMKUTI, E. Ervin Barlai, 1899-1967. (Hu) Faipar 17(9):292. Sept. 1967. 99.82 F14
- 100691 SPEISER, H. To the memory of Willi Kloth, Nov. 8, 1891-Sept. 11, 1967, and Carl-Heinrich Dencker, May 23, 1900-Oct. 9, 1967. (Ge) Landtech. Forsch. 17(5):135-137. 1967. 58.8 L2332
- 100692 STAUB, C. Dr. med. vet. Karl Notter, veterinarian from Zug died. (Ge) Schweiz. Arch. Tierheilk. 109(10):570-571. Oct. 1967. 41.8 Sch9
- 100693 STROMME, E. Karsten Mathisen will be 50 years old October 24. (No) Gartneryrket 42(57):899. Oct. 20, 1967. 80 G1938
- 100694 SWETNAM, G. Jumping-off place. Our Public Lands 18(1):6-8. Winter 1968. 156.55 Ou7  
Land surveys; the place of Thomas Hutchins in history.
- 100695 SZCZERBINSKI, W. Edmund Bartz—obituary. (Pol) Sylwan 111(8):74-75. 1967. 99.8 Sy52
- 100696 TAMMES, P. M. L., and EYNDHOVEN, G. L. VAN. In memoriam Dr. A. Reyne, June 18, 1890-May 24, 1967. (Du) Entomol. Ber. 27(7):121-122. July 1, 1967. 420 N38B
- 100697 THEODORE W. Bretz dies. Arborists News 33(2):7. Feb. 1968. 99.8 Ar14
- 100698 THLJE, J. H. TEN. In memoriam E. Rutgers. (Du) Tijdschr. Diergeneesk. 93(6):404-407. Mar. 15, 1968. 41.8 T431
- 100699 TILL, J. Herbert Noack is 75 years old. (Ge) Entomol. Z. 77(8):95-96. Apr. 15, 1967. 421 En85
- 100700 TOMTER, A. Karl S. Lang-Ree†. (No) Norske Myrselsk. Medd. 65(4):101. 1967. 11 N813
- 100701 URANOV, A. A., and SPRYGINA, L. I. Boris Petrovich Satserdotov. (1898-1966). (Rus) Bot. Zhur. [Moscow] 52(9):1364-1365. Sept. 1967. 451 R923
- 100702 VERBEEK, W. A. The President J. C. Swart. (Af) S. Afr. Soc. Anim. Prod. Proc. 5:3-4. 1966. 49.9 So822
- 100703 VERESHCHAGINA, V. A., and SHAMURIN, V. F. Anatolii Nicolayevich Ponomarev (his 60th birthday). (Rus) Bot. Zhur. [Moscow] 52(9):1375-1380. Sept. 1967. 451 R923  
Includes list of publications.
- 100704 VLADUTIU, O. Birth centenary of professor Gh. Udriști. (Rum) Rev. Zooteh. Med. Vet. 17(10):60-62. Oct. 1967. 49 P943
- 100705 VODRAZKA, J. In memoriam of Professor Jaroslava Lebduska. (Cz) Folia Vet. 10(2):276-278. 1966. 41.8 F712
- 100706 WASHINGTON STATE UNIVERSITY. EXTENSION SERV. Application for the Arabian Horse Association of Washington's 4-H Arabian gelding award. Wash. State Univ. Ext. E. M. 2844, rev., 1 p. Feb. 1968. 275.29 W27M
- 100707 WENNER, H. L. Professor Carl Heinrich Dencker in memoriam. (Ge) Grundlagen Landtech. 17(6):227-228. Ref. 1967. 58.8 G92
- 100708 WETZEL, T. Prof. Dr. E. Muhle on his 60th birthday. (Ge) Z. Angew. Entomol. 59(3):229-230. Mar. 1967. 421 Z36
- 100709 WILDE, G. L. Sir Dudley Stamp 1898-1966. Great Brit. Min. Agr. Fish. Food. Agr. 73(12):588-589. Dec. 1966. 10 G79J
- 100710 WITKIN, E. M. Milislav Demerec. Mutation Res. 4(3):237-239. May/June 1967. 443.8 M98
- 100711 WOOD salutes Dr. Alan A. Marra. Wood Wood Prod. 72(12):104. Dec. 1967. 99.82 W856
- 100712 YAKUBYUK, A. N., and others. Reminiscences of students of G. F. Morozov. (Rus) Les. Khoz. 1:25-28. Jan. 1967. 99.8 L5622  
D. P. Boshnyakovich, A. P. Sulkhanov, A. I. Vanin, B. P. Zaitsev, K. P. Smelov, and N. Obozov, joint authors.
- 100713 ZADONTSEV, A. I., and others. Serhii Ivanovich Chornobryvenko (1899-1967). (Ukr) Ukr. Bot. Zh. 25(1):107-108. Jan./Feb. 1968. 450 J8212J

## HISTORY

- 100714 COOL, L. F. From acorns to supermarkets. Calif. Dep. Agr. Bull. 55(1):1-10. 1966. 2 C12M  
Highlights on the history of agriculture of California.
- 100715 FLANNERY, K. V., and others. Farming systems and political growth in ancient Oaxaca. Science 158(3800):445-454, map. Ref. Oct. 27, 1967. 470 Sci2  
A. V. T. Kirkby, M. J. Kirkby, and A. W. Williams, joint authors.
- 100716 SAALFELD, D. The production and intensity of agriculture in Germany and bordering areas around 1800. (Ge) Z. Agrargesch. Agrarsoziol. 15(2):137-175. Ref. Oct. 1967. 30.98 Z3

## HOME MANAGEMENT

- 100717 ALEXANDER, F. D. Evaluation of Family Service Program, Home Economics Division of Cooperative Extension, Clinton County, New York; supplement. Cornell Univ. Ext. Stud. 15, 32 p. Feb. 1968. 275.29 N48Ex
- 100718 BARRIER, D. L. Fabric preparation for sewing. N. C. Univ. Ext. Home Econ. Ser. 93, 4 p. May 1968. 275.29 N811Hom
- 100719 BARRIER, D. L. Sewing on today's fabrics; diagonals, plaids and checks. N. C. Univ. Ext. Home Econ. Ser. 92, 4 p. May 1968. 275.29 N811Hom
- 100720 BARRIER, D. L., and MILLER, R. T. Sewing on today's fabrics; double knit fabrics. N. C. Univ. Ext. Home Econ. Ser. 88, 4 p. May 1968. 275.29 N811Hom
- 100721 BARRIER, D. L., and MILLER, R. T. Sewing on today's fabrics; stretch and vinyl fabrics. N. C. Univ. Ext. Home Econ. Ser. 89, 4 p. May 1968. 275.29 N811Hom



- 100722 CROFT, J. Clothing leaders' guide. Wyo. Univ. Ext. [4-H Club Circ.] CL-6-67,90 p. Oct. 1967. 275.29 W99Fc  
Four-H Club sewing instruction.
- 100723 CROFT, J., and others. Guides for judges, home economics. Wyo. Univ. Ext. [4-H Club Circ.] G-33-67,17 p. July 1967. 275.29 W99Fc  
W. Walton, M. Ulrich, and H. Miller, joint authors.
- 100724 GEORGE, R. Young homemakers, a receptive audience; Missouri Extension reaches them with program assistants. Ext. Serv. Rev. 39 (5):12-13. May 1968. 1 Ex892Ex
- 100725 MARSHALL, M. H. Patterns & fabrics for easy-to-make garments. Ky. Univ. Ext. H.E. 2-337,9 p. Apr. 1968. 275.29 K415H
- 100726 MILLER, H. G. Home management. Wyo. Univ. Ext. [4-H Club Circ.] HM-5-68,23 p. Apr. 1968. 275.29 W99Fc
- 100727 MILLER, R. T., and BARRIER, D. L. Sewing on today's fabrics; bonded and laminated fabrics. N. C. Univ. Ext. Home Econ. Ser. 87, 4 p. May 1968. 275.29 N811Hom
- 100728 MILLER, R. T., and BARRIER, D. L. Sewing on today's fabrics; fake fur, deep pile, and pile fabrics. N. C. Univ. Ext. Home Econ. Ser. 91, 4 p. May 1968. 275.29 N811Hom
- 100729 MILLER, R. T., and BARRIER, D. L. Sewing on today's fabrics; woven fabrics of man-made fibres. N. C. Univ. Ext. Home Econ. Ser. 90, 4 p. May 1968. 275.29 N811Hom
- 100730 PALMER, M. DE L. A. Program evaluation in home economics extension. S. Dak. State Univ. Ext. Spec. Rep. 4:85-86. 1965. 275.29 So85Sr  
Brazil.
- 100731 SEBREE, K. G. Flatter your rooms with pattern. Ky. Univ. Ext. H.E. 4-114,8 p. May 1968. 275.29 K415H
- 100732 VERMONT. UNIVERSITY. AGRICULTURAL EXTENSION SERV. Clothes and you. Vt. Univ. Ext. Brieflet 1157,21 p. Dec. 1967. 275.29 V59E  
Sewing.
- 100733 WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Little ways to improve the laundry area. Wash. State Univ. Ext. E. M. 2900,2 p. Feb. 1968. 275.29 W27Mi
- 100734 WYOMING. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Home management record. Wyo. Univ. Ext. [4-H Club Circ.] HM-5a-68,11 p. Apr. 1968. 275.29 W99Fc
- 100735 WYOMING. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Judging helps for 1967, home economics. Wyo. Univ. Ext. [4-H Club Circ.] G-35,48 p. 1967. 275.29 W99Fc
- 100736 WYOMING. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Wyoming 4-H Club home economics record, clothing. Wyo. Univ. Ext. [4-H Club Circ.] CL-5a-67,12 p. May 1967. 275.29 W99Fc

## INTERNATIONAL RELATIONS

- 100737 MIZUTA, M., and MATSUI, M. Record of the group of Japanese on the second Ajia Nogyo visit to China. (Ja) Agr. Asia 5(6):23-31. June 1967. 22.5 Aj5
- 100738 PROBLEMS in agricultural cooperation for southeast Asia. (Ja) Agr. Asia 5(8):3-25. Aug. 1967. 22.5 Aj5  
Panel discussion; Moderator: S. Yasuda; members: T. Kondo, Y. Togari, T. Matsuo, H. Ishigura, M. Yamada, and G. Nishikawa, joint authors.

## METEOROLOGY

- 100739 ALEXANDER, K. E. F. Weather report for the year 1st June, 1966 - 31st May, 1967. S. Afr. Sugar Technol. Ass. Proc. 1967:124-125. 65.9 So83

- 100740 ALTHERR, J. D. Radar and forecasting hail. (Ge) Schweiz. Z. Obst. Weinbau 103(12):365-368. June 10, 1967. 80 Sch9
- 100741 ANDERSON, E. A. Development and testing of snow pack energy balance equations. Water Resources Res. 4(1):19-37. Ref. Feb. 1968. 292.8 W295
- 100742 BAKER, D. G., and HAINES, D. A. Climate as a resource. Minn. Sci. 23(3):16-17, map. Apr. 1967. 100 M668
- 100743 BARFUSS, B. W., RICHARDSON, E. A., and ASHCROFT, G. L. Utah weather reporting; its origin and destiny. Utah Sci. 28(1):22-25. Mar. 1967. 100 Ut1F
- 100744 BARY, G. A. V., and ROBERTS, W. B. Run of the wind anemometer. Australian Forest Res. 2(1):51-53. 1966. 99.8 Au76
- 100745 BORHIDI, A., and DOBOSI, Z. Areal distribution of surface albedo values in Hungary. (Hu) Idojaras 71(3):150-157, map. Ref. May/June 1967. 340.8 Id5  
English summary.
- 100746 BUTSON, K. D., and PRINE, G. M. Weekly rainfall frequencies in Florida. Fla. Agr. Exp. Sta. Circ. S-187,41 p. Apr. 1968. 100 F66Ci  
Includes forecasts.
- 100747 CERVELLINI, A., SALATI, E., and GODOY, H. An estimate on the distribution of solar energy in the State of Sao Paulo. (Por) Bragantia 25(1):31-39. 1966. 102.5 B73Tb  
English summary.
- 100748 ERICKSON, D. B. Probability of rainfall in Kansas. Kans. State Univ. Ext. Looking Ahead K-State Econ., Mar. 26, 1968, 2 p., map. HD9284. U5K3
- 100749 GEOFFRION, R. Some popular sayings concerning weather prediction confronted meteorological and agricultural reading. (Fr) Phytoma 19(184):21-26. (cont.) Jan. 1967. 464.8 P563
- 100750 GREEN, G. C. The farmer and the weather. Farming S. Afr. 43(12):29-32. Mar. 1968. 23 So842
- 100751 LEEPER, G. W., PRIESTLEY, C. H. B., and TROUP, A. J. Sequences of dry and of wet months. Australian J. Sci. 29(10):375-376. Apr. 1967. 475 Au72
- 100752 NAQVI, S. N. The meteorological problems of the deltaic flood-plains of East Pakistan. Symp. Sci. Probl. Humid Trop. Zone Deltas Implications. Proc. 1966:123-133, map. GB1205.S3  
With reference to agriculture and forestry.
- 100753 PRAWDZIC, K. Characteristics of the course of weather in the Lipki and Ostoja Research Institutes (1961-1965). (Pol) Stettin. Wyzsza Szkola Roln. Zeszyty Nauk. 25:5-12. 1966, pub. 1967. 20.5 St4  
German summary.
- 100754 ROCKCASTLE, V. N. Snow and ice. Cornell Sci. Leaflet. 61(2), 29 p. 1968. 275.29 N48R  
Meteorology teaching aid.
- 100755 SCHMEIDL, H. Frost duration at 2.05 meters above sea-level in southern Chiemsee moor. (Ge) Bayer. Landwirt. Jahrbuch 44(5):592-604. Ref. 1967. 18 L24
- 100756 SIEVERS, E. Climate diagrams to characterize the changing weather, as an aid in breeding and selection as well as irrigation requirements, viewed in the light of the weather in 1964. (Ge) Weinberg Keller 13(12):553-560. Ref. Dec. 1966. 95.8 W435
- 100757 TROWELL, G. F. Weather conditions from 1st October 1966 to 30th September 1967. East Malling Res. Sta. Annu. Rep. Apr. 1968:95-98. 103 Ea7

## RESEARCH

- 100758 CARVER RESEARCH FOUNDATION. Three-year report 1963-1966. Tuskegee, 1967. 25 p. 330.9 G29  
Agricultural research included

- 100759 CHILE. INSTITUTO DE INVESTIGACIONES AGROPECUARIAS. Tercera memoria anual [Third annual report] 1966-1967. Santiago, 1967. 170 p. S193.15
- 100760 EAST AFRICAN AGRICULTURE AND FORESTRY RESEARCH ORGANIZATION. Record of research for the period 1st January to 31st December, 1965; annual report, 1965. Nairobi, Kenya, 1966. 201 p., map. 24 Ea75
- 100761 GORKA-NIWINSKI, S. Development and production activity of agricultural research institutes of the agricultural universities in Szczecin. (Pol) Stettin. Wyższa Szkoła Roln. Zeszyty Nauk. 25:333-349. 1966, pub. 1967. 20.5 St4 German summary.
- 100762 GREAT BRITAIN. AGRICULTURAL RESEARCH COUNCIL. DITTON LABORATORY. Annual report, June 1966-May 1967. England, 1967. 44 p. SB4.D5
- 100763 HANKE, P. Zu einigen Fragen der Entwicklung und Organisation der Forschung [Problems in the development and organization of research]. Deut. Akad. Landwirtschaftswiss. Sitzungsber. 15(7), 27 p. Ref. 1966. 18 D4825 English summary.
- 100764 HUEG, W. F. Research in a growing Minnesota. Minn. Sci. 24(1):2-3. Fall 1967. 100 M668 Minneosta Agricultural Experiment Station.
- 100765 INSTITUTO NACIONAL DE INVESTIGACIONES AGROPECUARIAS (ECUADOR). Informe 1966 [Report 1966 of the National Institute of Agricultural Research]. Quito, 1967. 203 p. SI5.I52
- 100766 MAYNE, E. The Agricultural Trust. Agr. Northern Ireland 42(9):288-290. Jan. 1968. 256.13 Ag82M  
Research projects.
- 100767 MCARTHUR, A. T. G. Evaluation of research projects. Lincoln. Coll. Agr. Econ. Res. Unit Publ. 48:169. 1968. 281.9 L632  
Benefit-cost analysis.
- 100768 MIRANDA, R. M. DE. DPEA [Departamento de Pesquisas e Experimentação Agropecuárias, Department of Agricultural Research and Experimentation]-history of one more step in the development of agricultural research in the Ministry of Agriculture. (Por) Pesquisa Agropecuar. Brasil. 1:xiii-xv. 1966. SI5.P42
- 100769 NEW ZEALAND. DEPT. OF AGRICULTURE. AGRICULTURAL RESEARCH DIV. Research in the Department of Agriculture; annual report, 1965-66. Wellington, 1966. 168 p. 49.9 N484A  
First consolidated report of the Division, formed in 1964.
- 100770 NONGSA CHIN HUNG CH'ONG. Nongsa sihom yon'gu saop yonbo [Annual report of agricultural experimental research operations of the Agency for Promotion of Agriculture], 1966. n.p., 1967. 475 p. 22.5 K846  
Includes statistics.
- 100771 NORDISKE JORDBRUKSFORSKERES FORENING. Annual report of the Society for Farm Research in Scandinavia, 1967. Nord. Jordbrugsforsk. 50(1):1-78. 1968. 11 N752  
Text in Norwegian, Danish or Swedish.
- 100772 OHIO. AGRICULTURAL RESEARCH AND DEVELOPMENT CENTER. New wealth through agricultural research and development, 86th annual report, 1967. Ohio Agr. Res. Develop. Center. Bull. 1008, 45 p. 1967. 100 Oh3S
- 100773 PALM, C. E. The Agricultural Board: its role in meeting agricultural problems, domestic and international. Nat. Res. Council. Agr. Res. Inst. Proc. Oct. 16-17, 1967:241-245. 4 N2122
- 100774 RASMUSSEN, D. E. The application of R&D at Battelle-Northwest to agricultural research. Wash. State Hort. Ass. Proc. Dec. 5-7, 1966:19-22, 24. 81 W273  
Some current projects of the Research and Development sections.
- 100775 REGISTER van die huidige wetenskaplike navorsing aan Suid-Afrikaanse universiteite. Register of current scientific research at South African universities, 1966. Pretoria, Council for Scientific and Industrial Research, 1966. 205 p. 239 R26  
Research in the agricultural sciences included.
- 100776 ROBINS, J. S. Horticultural industry looks ahead on current support for agricultural research. Wash. State Hort. Ass. Proc. 1967:51-53. 81 W273  
Federal, state, and private support.
- 100777 TAIWAN. AGRICULTURAL RESEARCH INSTITUTE. Nien Pao [Annual Report], 1966. n.p., 1967. 231 p. 22.5 F764Ni  
Includes a list of important agricultural experiences of TARI and of its six substations.
- 100778 TENNESSEE. AGRICULTURAL EXPERIMENT STATION. Eightieth annual report, 1967. Knoxville, 1968. 60 p. 100 T25S
- 100779 WASHINGTON. AGRICULTURAL EXPERIMENT STATION. 1968 research progress. Wash. Agr. Exp. Sta. Bull. 698, 49 p. 1968. 100 W27E
- 100780 WILCKE, H. L. Charting the course for the Agricultural Research Institute. Nat. Res. Council. Agr. Res. Inst. Proc. Oct. 16-17, 1967:233-240. 4 N2122
- 100781 WISCONSIN. AGRICULTURAL EXPERIMENT STATION. What's new in farm science, annual report. 2, compiled by D. D. Sorenson, and J. Guerrero. Wis. Agr. Exp. Sta. Bull. 587, 64 p. Fall 1967. 100 W75

## STATISTICS

- 100782 ASTHANA, B. N., and SRIVASTAVA, S. S. Applied statistics of India. Ed. 4. Allahabad, Chaitanya, 1967. 484 p. HA37.I4A8 1967  
Includes a chapter on agricultural statistics.
- 100783 KOEHLER, F. E., and MOODIE, C. D. Society policy on obligatory use of metric units questioned. Soil Sci. Soc. Amer. Proc. 31(5):712. Sept./Oct. 1967. 56.9 So3  
Use of metric system in agricultural statistics.
- 100784 VRIES, P. G. DE. A gadget for quick reading of nomograms with an auxiliary axis. (Du) Landbouwkundig Tijdschr. 79(8):248-250. Aug. 1967. 105.2 Or3  
English summary.

## NEW PERIODICALS AND SERIALS

- ASSOCIATION FORET-CELLULOSE. Documents AFOCEL. No.1. Paris, 1966? SD1.A7
- ATALANTA. v.1. Apr. 1967. Oslo, Norsk lepidopterologisk selskap. QL541.A7
- BANCO CENTRAL DE VENEZUELA. Revista. v.27, No.263/265. Jan./Mar. 1967. Caracas. HC236.B3
- BIBLIOGRAPHY OF THE HISTORY OF MEDICINE. No.2. 1966, pub. 1967. Bethesda. Z6658.A1B5
- CESKE BUDEJOVICE. VYSOKA SKOLA ZEMEDLSKA. PROVOZNE-EKONOMICKA FAKULTA. Sbornik-Polytematicka rada. v.1, No.1. Ceske Budejovice, 1963. HD1940.C95C4
- CHEMIE IN UNSERER ZEIT. v.1, No.1. Mar. 1967. Heidelberg, Gesellschaft Deutscher Chemiker. QD1.C4
- CHUNG-HUA MIN KUO T'AI-WAN SHENG HO TSO NIEN CHIEN. Year book of co-operation, Taiwan, the Republic of China. T'ai-pei, Chung-kuo ho tso shih yeh hsieh hui, T'ai-wan sheng fen hui, 1962. HD3536.5 41C5



CONTRIBUTI SCIENTIFICO-PRATICI PER UNA MIGLIORE CONOSCENZA ED UTILIZZAZIONE DEL LEGNO. No.1. Firenze, 1957. SD430.C6

DIE ANGEWANDTE MAKROMOLEKULARE CHEMIE. v.1. Dec.1967. Basel. QD1.A52

ECONOMIC SURVEY. SEMANARIO ECONOMICO. v.23No.1111. Nov.21,1967. Buenos Aires. HC171.E2

EXPERIMENTAL BIOLOGY AND MEDICINE. v.1. Basel, 1967. QH301.E9

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. EUROPEAN COMMISSION ON AGRICULTURE. WORKING PARTY ON WATER RESOURCES AND IRRIGATION. Report of the 2d session, 1966. Rome. (ECA/WR/66/REP, etc.) TD201.F6

GENDAI NO SEIBUTSU-GAKU. v.1,ed.2. 1967. Tokyo, Iwanami Shoten, 1965. QH307.G4

INSTITUT ZA STOCARSTVO. Godisnji izveštaj. Annual report, 1964. Novi Sad. SF1.I5

INSTITUTE OF BIOLOGY. Studies in biology. No.2. New York, 1966. QH301.I52

JUNTA NACIONAL DE GRANOS. Boletin mensual. No.22. Apr.1965. Buenos Aires. HD9044.A7J8

KERALA. AGRICULTURAL INFORMATION SERV. Farm bulletin. No.4. Trivandrum, 1965. S280.K4A3

MAO I YU LU YU. TRADE AND TOURS. Nov. 1967. Hong Kong, Mao i yu fu wu she. HF41.M3

MAX C. FLEISCHMANN COLLEGE OF AGRICULTURE. B. Sept.1965. Reno. S537.M3A1

MAX C. FLEISCHMANN COLLEGE OF AGRICULTURE. C.69. Jan.1967. Reno. S537.M3A2

MAX C. FLEISCHMANN COLLEGE OF AGRICULTURE. R. Apr.1965. S537.M3A24

MAX C. FLEISCHMANN COLLEGE OF AGRICULTURE. T.3. May 1967. Reno. S537.M3A26

MIKOLOGIYA I FITOPATOLOGIYA. v.1. Leningrad, Akademiya Nauk SSSR, 1967. QK600.M5

NAUCHNAYA KONFERENTSIYA MOLODYKH UCHENYKH MOLDAVII, 3d, KISHINEV, 1963. Trudy. No.2. Kishinev, Kariya moldovenyaskie, 1964. Q111.N3 1963

NAUKA O ZEMI. SCIENCE OF THE EARTH. Pedologica. No.3. Bratislava, Vydavatel'stvo Slovenskej adademie vied, 1967. S590.N3

NEW ZEALAND DAIRY RESEARCH INSTITUTE. Publication. No.438. Palmerston North, 1966. 44.9 D146

NOTIZIARIO AVICOLO. COMUNICATO. v.4, No.1. Jan.15,1967. Varese, Camera di commercio, industria e agricoltura. SF481.N62

OFFICE DE LA RECHERCHE SCIENTIFIQUE ET TECHNIQUE OUTRE-MER, PARIS. Memoires ORSTOM. No.20. Paris, 1967. QH3.O3

ORYZA. v.2, No.1. Cuttack, India, Association of Rice Research Workers, 1965. SB191.R507

POLYMER MECHANICS. v.1, No.1. Jan./Feb. 1965. New York. QD471.A1P63

REVISTA DE HORTICULTURA SI VITICULTURA. v.16, No.5. Bucuresti, Consiliu Superior al Agriculturii, 1967. SB13.R4

REVISTA DE NUTRICION ANIMAL. v.3, No.1. Jan./Mar.1965. Madrid, Sociedad Iberica de Nutricion Animal. SF95.R42

SCIENTIFIC RESEARCH. v.1, No.5. May 1966. New York. Q181.A1S36

SOIL CONSERVATION RESEARCH DEMONSTRATION AND TRAINING CENTRE, CHATRA. Progress report, 1963. Chatra, 1963. S625.I4S66

SOIL CONSERVATION RESEARCH DEMONSTRATION AND TRAINING CENTRE, OOTACAMUND. Report, 1964. Ootacamund, 1964. S625.I4S65

TASMANIAN YEAR BOOK. No.2. Hobart, Australia. Commonwealth Bureau of Census and Statistics, Tasmanian Office, 1968. DU450.T3

THEORETICAL AND EXPERIMENTAL CHEMISTRY. v.1. Jan./Feb.1965. New York. QD1.T453

U. S. RURAL ELECTRIFICATION ADMINISTRATION. Annual statistical report, rural telephone borrowers. 1966. Washington, 1967. (Its REA bulletin 300-4, etc.) aTK23.A3

VSESOYUZNYI NAUCHNO-ISSLEDOVATELSKII INSTITUT ZERNOBOBOVYKH KUL'TUR. Nauchnye trudy. v.1. Orel, 1966. SB203.A1V75

#### TRANSLATIONS

Includes translations received in the Library during the preceding month. Except for articles in journals translated in full and received on subscription (starred items), the translations are included also in the classified section and indexed in the personal and subject indexes.

No copies are available for distribution. Photocopies may be ordered from the Library.

ABRAMOV, V. Centralized soykhoz investments and their financing. U. S. Joint Publ. Res. Serv. Transl. USSR Agr. 226:56-61. Nov.30,1967. (JPRS 43,507) 173 J663Tso  
Translation from Ekonomicheskaya Gazeta 40:36. Oct.1967.  
Issued by CFSIL

AFONIA, E. D. Self-sharpening plowshares. 5 p. Transl. 16887

Translation from Kuibyshevskii Sel'skokhozyaistvennyi Institut. Izvestiya 18:234-238. 1966.

AFONIN, E. D. The problem of the theory of operation of plow shares. 15 p. Ref. Transl. 16885

Translation from Kuibyshevskii Sel'skokhozyaistvennyi Institut. Izvestiya 18:245-259. 1966.

AFONIN, E. D. The problems of estimating the reliability and life of plowshares. 7 p. Transl. 16886

Translation from Kuibyshevskii Sel'skokhozyaistvennyi Institut. Izvestiya 18:33-37. 1966.

\*AGNISTIKOVA, V. N., and MUROMTSEV, G. S. Comparative study of the physiological activity of five gibberellins. Soviet Plant Physiol. 14(3): 387-392. Ref. May/June 1967. 450 F58Ae

\*ALEKPEROV, U. K., and SHCHERBAKOV, V. K. Nucleocytoplasmic relationship and aneuploidy of cells on the diploid and polyploid levels. Acad. Sci. USSR. Dokl. Biol. Sci. 175 (1/6):421-423. Ref. July/Aug.1967. 511 P444Aeh

ALEXANDRU, S., and others. Blade tensioning in band saws used in the lumber industry. 8 p. Transl. 16888

Translation from Industria Lemnului 17(6): 221-225. 1966.

- AMBROSOV, V. Economic grading of feeds. U. S. Joint Publ. Res. Serv. Transl. USSR Agr. 224:12-15. Nov. 16, 1967. (JPRS 43,343; TT 67-33967) 173 J663Tso  
Translation from Ekonomika Sovetskoy Ukrainy 8:83-86. Aug. 1967.  
Issued by CFSTI.
- ARIPOV, E. A., and others. Saponification of polyacrylonitrile with alkali solutions in soft conditions. 7 p. Transl. 16889  
M. A. Sarukhanov, S. Z. Zainutdinov, and K. S. Akhmedov, joint authors.  
Translation from Uzbekskaa Khimicheskii Zhurnal, No. 2, 1965.
- \*AVUNDZHYAN, E. S., and others. Investigation of the bleeding sap of grape vines. Soviet Plant Physiol. 14(3):344-351. Ref. May/June 1967. 450 F58Ae  
S. A. Marutyan, A. D. Dogramadzhyan, and Zh. A. Petrosyan, joint authors.
- \*BABENKO, V. I., and GEVORKYAN, A. M. Accumulation of oligosaccharides and their significance in the low-temperature hardening of cereal grains. Soviet Plant Physiol. 14(4):613-621. Ref. July/Aug. 1967. 450 F58Ae
- \*BEKHTEREVA, M. N., and others. Formation of beta-carotene in *Blakeslea trispora*. Microbiology 36(1):37-40. Ref. Jan./Feb. 1967. 448.3 M582Ae  
N. V. Tarasova, E. P. Feofilova, V. I. Kudryavtsev, M. G. Folsheva, and L. A. Belyakova, joint authors.
- \*BELYAEVA, E. S., GUBENKO, I. S., and SHERUDILO, A. I. Nonuniformity in the incorporation of H<sup>3</sup>-thymidine into the nuclei of plant and animal cell at various stages in DNA synthesis. Acad. Sci. USSR. Dokl. Biol. Sci. 175(1/6):418-420. Ref. July/Aug. 1967. 511 P444Aeb
- BERNACKI, H. Dynamic forces acting during rotary tiller operation. 19 p. Transl. 16881  
Translation from Warsaw. Instytut Mechanizacji i Elektryfikacji Rolnictwa. Biuletyn 2:65-87. 1962.
- BIRECKI, M., and RUDKIEWICZ, F. Density of sowing corn. II. Effects of various spacings between plants on yields of corn grown for silage. General characteristics of research work accomplished and of experimental conditions. 12 p. (TT 65-50347) Transl. 16784  
Translation from Instytut Uprawy, Nawożenia i Gleboznawstwa. Pamietnik Pulawski. Prace 10:281-299. 1963.  
Issued by CFSTI.
- BITTERLICH, W. Angle count sampling. 22 p. (FS-566) Transl. 16879  
Translation from Zentralblatt für Gesamte Forst- und Holzwirtschaft 71(3):191-205. n.d.
- \*BOCHAROVA-MESSNER, O. M., and YANCHUK, K. A. Changes in the ultrastructure of the wing muscles of the domestic cricket (*Acheta domestica* L.) in ontogenesis. Acad. Sci. USSR. Dokl. Biol. Sci. 170(1/6):657-660. Sept./Oct. 1966. 511 P444Aeb
- BOEHM, B. Relations between fat body, oenocytes and wax-gland development in *Apis mellifera* L. 21 p. Ref. Transl. 16878  
Translation from Zeitschrift für Zellforschung 65(1):74-115. 1965.
- \*BROVCHENKO, M. I. Some proofs of the splitting of sucrose during its movement from mesophyll into the fine bundles of sugar beet leaves. Soviet Plant Physiol. 14(3):352-359. Ref. May/June 1967. 450 F58Ae
- \*BRUTKO, L. I., MASSAGETOV, P. S., and UTKIN, L. M. The alkaloid Smirnovine from *Astragalus tibetanus*. Chem. Natur. Compounds 2(6):362. Nov./Dec. 1966. QD241.K453
- CARNERO, R., and others. African swine fever. 9 p. Transl. 16876  
B. Larenaudie, F. R. Gonzalvo, and J. Haag, joint authors.  
Translation from Recueil de Medecine Veterinaire 163(1):49-59. Jan. 1967.
- CHEREPOV, V. T., and KULIKOV, S. Differentiation of *Streptococcus pluton* and *Bacterium pluton*. 3 p. Transl. 16874  
Translation from Veterinariya 6:25-26. June 1966.
- CHEVALIER, F. The ejido and stability in Mexico. Joint Publ. Res. Serv. Econ. Geogr. Transl. Lat. Amer. 93:17-45. Ref. Oct. 5, 1967. (JPRS 42,852; TT 67-33478) HC121.E2  
Translation from America Indigena 27(2): 163-197. April 1967.  
Issued by CFSTI.
- CHIKUBU, S., ENDO, L., and TANI, T. Studies on cooking and eating qualities of white rice. 2. Measurement of visco-elastic behavior of cooked rice by the parallel plate plastometer. 8 p. Transl. 16875  
Translation from Japanese Society of Food and Nutrition. Journal 16(5). 1964.
- CHING, C. K. Cultivation of sea kale in China. 13 p. Ref. (JPRS 20,013; OTS 63-31200) Transl. 14111  
Translation from Komissiya po Rybkhozyaistvennom Issledovaniyu Zapadnoi Chasti Tikhogo Okeana. II. Plenum. Sbornik Dokladov 1962: 235-245.  
Issued by CFSTI.
- \*CHMORA, S. N., and OYA, V. M. Photosynthesis in leaves as a function of temperature. Soviet Plant Physiol. 14(4):513-519. Ref. July/Aug. 1967. 450 F58Ae
- \*CHUVAEV, P. P. Effect of magnetic field and rotation of the earth on seed germination and shoot growth. Soviet Plant Physiol. 14(3):456-458. May/June 1967. 450 F58Ae
- CREMER, E., and RIEDMANN, M. Gas-chromatographic investigations on the question of honey aroma. 3 p. Ref. Transl. 16873  
Translation from Monatshefte für Chemie 96(2):364-368. 1965.
- \*DAVYDOVA, E. D. Effects of ablation and implantation of corpora allata and cardiaca on wing development and metamorphosis in *Lampyrus noctiluca* L. (Coleoptera, Lampyridae). Acad. Sci. USSR. Dokl. Biol. Sci. 172(1/6):44-48. Jan./Feb. 1967. 511 P444Aeb
- DEMIDKO, M. E. Operation of cultivators and disk tillers at high speeds. 7 p. Transl. 16872  
Translation from Traktory i Sel'khoz mashiny 32(3):29-31. 1962.
- \*DERYUGINA, L. I. Astroside—a new isoflavone glycoside from *Astragalus austriacus*. Chem. Natur. Compounds 2(5):256-258. Sept./Oct. 1966. QD241.K453
- \*DERYUGINA, L. I., MAKSYUTINA, N. P., and KRIVENCHUK, P. E. The flavonoids of the milk vetches: *Astragaloside*. Chem. Natur. Compounds 2(6):322-326. Ref. Nov./Dec. 1966. QD241.K453
- \*DIBROVA, V. S. Effect of zinc fertilizers on the biochemical characteristics of corn at different zinc-supply levels. Soviet Plant Physiol. 14(4):566-569. Ref. July/Aug. 1967. 450 F58Ae
- DO HUY BICH. Protecting medicinal plants. Joint Publ. Res. Serv. Transl. N. Vietnam 316: 81-82. Feb. 28, 1968. (JPRS 44,523) DS557.A7J6  
Translation from Nhan Dan, Dec. 12, 1967:2.  
Issued by CFSTI.
- \*DOBROBRAYOVA, E. K., and MARKMAN, A. L. Chromatopolarographic determination of the alkaloids from the seeds of *Haplophyllum perforatum*. Chem. Natur. Compounds 2(5):272-275. Sept./Oct. 1966. QD241.K453
- \*DOBROTVORTSEVA, V. G., BUDNITSKAYA, E. V., and STOLETOV, V. N. Variability in content of certain phosphorus and nitrogen compounds in wheat grains and embryos. Acad. Sci. USSR. Dokl. Biol. Sci. 175(1/6):449-451. Ref. July/Aug. 1967. 511 P444Aeb



DOBROWOLSKI, W. Present and future role of rye production in Poland. U. S. Joint Publ. 630:21-28. Mar. 4, 1968. (JPRS 44,573) 173 J663Ste

Translation from Nowe Rolnictwo 1:20-22. Jan. 1968.

Issued by CFSTI.

\*DRANIK, L. I. A spectroscopic investigation of the phenolcarboxylic acids of *Cynara scolymus*. Chem. Natur. Compounds 2(5):246-248. Sept./Oct. 1966. QD241.K453

\*DUBININ, N. P., and others. Complex mutagens for plant breeding. Acad. Sci. USSR. Dokl. Biol. Sci. 175(1/6):455-458. Ref. 511 P444Aeb  
V. K. Shcherbakov, L. A. Suikova, D. O. Gassanov, N. K. Bliznyuk, and A. F. Kolomiets, joint authors.

\*DUBININA, L. G., and DUBININ, N. P. Proof of injury to chromosomes by alkylating compounds in the presynthetic phase of the cell cycle. Acad. Sci. USSR. Dokl. Biol. Sci. 175(1/6):446-448. July/Aug. 1967. 511 P444Aeb

DUNSKII, V. F., and NIKITIN, N. V. The workbench for testing spray nozzles. 14 p. Transl. 16775

Translation from Traktory i Sel'khoz mashiny 3:66-67. 1967.

EGNER, K., JAGFELD, P., and KOLB, H. Experiments on the use of finger joints in window frames. 21 p. Transl. 16869

Translation from Berichte aus der Bauforschung 47:24-55. 1966.

EGNER, K., and JAGFELD, P. Investigations on finger jointed planks after many years continuous service—behaviour under repetitive tensile stress. 11 p. Transl. 16868

Translation from Berichte aus der Bauforschung 47:2-12. 1966.

ELGURT, YA. B. Some elements of a theory of rotary tiller drums for loosening soil. 4 p. Transl. 16865

Translation from Moskovskii Institut Inzhenerov Sel'skokhozyaistvennogo Proizvodstva. Doklady 3(1):41-44. 1966.

ENGEL'GARDT, V. Soviet developments in molecular biology. 6 p. (JPRS 43,076; TT 67-33701) Transl. 16842

Translation from Kommunist [Erevan] Aug. 22, 1967:2.

Issued by CFSTI.

\*ERMOLAEVA, V. YU. A morphological and physiological investigation of the cortico-reticular systems of the somatosensory zones of the cat's brain. Acad. Sci. USSR. Dokl. Biol. Sci. 170(1/6):712-715. Sept./Oct. 1966. 511 P444Aeb

FABRICIUS, L. An odd case of redwood formation. 3 p. (FPL Transl. No. 42) Transl. 16866

Translation from Forstwissenschaftliches Centralblatt 76(12):422-424. 1932.

\*FAINBERG, E. Z., and MIKHAILOV, N. V. Molecular and supramolecular structure of cellulose fibres. Polymer Sci. U.S.S.R. 8(9):1805-1812. Ref. 1966. 381 P763

FOURCHE, J. Action of ecdysone on the larvae of *Drosophila melanogaster* subjected to fasting; existence of double conditioning for the formation of the puparium. 2 p. Transl. 16863

Translation from Academie des Sciences. Comptes Rendus. Serie D, 264(20):2398-2400. May 17, 1967.

FRESNAYE, J. The artificial insemination of queen bees. 10 p. Ref. Transl. 16853

Translation from Annales de l'Abeille 9(3):251-263. 1966.

FRESNAYE, J. Influence of variations in the age of sexual maturity on queen bees (*Apis mellifera mellifera*) fertilized by artificial insemination. 5 p. Ref. Transl. 13662

Translation from Annales de l'Abeille 9(3):237-242. 1966.

FREUDENSTEIN, H. Influence of pollen nutrition on the comb-building capacity, wax glands and fat body of the honey bee (*Apis mellifera* L.). 29 p. Ref. Transl. 16864

Translation from Zoologische Jahrbucher. Abteilung fur Allgemeine Zoologie und Physiologie der Tiere 69(1):95-124. July 15, 1960.

FUJII, N., and TOYAMA, N. Application of cellulase in brewing. V. Action of a cell separating enzyme and cellulase on rice. 9 p. Transl. 16862

Translation from Society of Fermentation Technology, Japan. Journal of Fermentation Technology 45(7). 1967.

FUJIKAWA, T., UTSUNOMIYA, T., and OKADOME, Z. On the seed disinfection effect of mercuric tabloid (Luberol) applied to the blast disease of rice plants. 3 p. Transl. 16861

Translation from Kyushu Agricultural Research, No. 19. Mar. 1967.

FUKANO, H., YOKOYAMA, S., and YOSHIDA, K. On the seed disinfection method by REE-emulsion [ethyl cyanatoacetate] to prevent the rice white-tip. 12 p. Transl. 16859

Translation from Fukuoka Prefectural Experimental Farm. Report 2:42-47. Mar. 1964.

FUKE, Y. Studies on the photoperiodism of rice plants. 13 p. Transl. 16858

Translation from Kagaku 12(11):410-413. 1942.

FUKUI, T., FUJII, M., and NIKUNI, Z. Digestion of raw starch granules, particularly rice starch granules, by the action of amylase. 13 p. Ref. Transl. 16857

Translation from Agricultural Chemical Society of Japan. Journal 38(5):262-266. 1964.

\*GAIDAMAKINA, L. F. Influence of different types of salinization on mitosis in the roots of sunflowers and barley shoots. Soviet Plant Physiol. 14(4):625-627. Ref. July/Aug. 1967. 450 F58Ae

\*GAPOCHKA, L. D., and others. The effect of sugar mixtures on yield of the blue-green alga *Anacystis nidulans*, as determined by the random balance method. Acad. Sci. USSR. Dokl. Biol. Sci. 170(1/6):671-673. Sept./Oct. 1966. 511 P444Aeb

V. N. Maksimov, V. D. Fedorov, and V. G. Bogorov, joint authors.

GARCIA, J. J. M. Moisture content changes in *Eucalyptus viminalis* logs. 9 p. Transl. 16855

Translation from Argentina. Administracion Nacional de Bosques. Direccion de Investigaciones Forestales. Notas Tecnologicas Forestales No. 20. 1962.

GAST, R. Investigations on the influence of queen substance on the development of the endocrine glands in the honey-bee worker (*Apis mellifera*). 9 p. Ref. Transl. 16854

Translation from Insectes Sociaux 14(1):1-12. Mar. 1967.

\*GETSEN, M. V. Distribution of Desmidiaceae algae in the basin of the river Pechora. Acad. Sci. USSR. Dokl. Biol. Sci. 175(1/6):471-472. Ref. July/Aug. 1967. 511 P444Aeb

GIAUFFRET, A., DUTHOIT, J. L., and CAUCAT, M. J. Virological study of some cases of "honey bee paralysis" in France. 7 p. Ref. Transl. 16852

Translation from Recueil de Medecine Veterinaire 142:819-829. Sept. 1966.

GIRBARDT, M. Light and electron microscopic investigations on *Polystictus versicolor*. III. Change in the basic plasma structures during formation of the clamp connection. 6 p. Transl. 16850

Translation from Zeitschrift fur Naturforschung 17b:49-53. 1962.

GIRBARDT, M. Light and electron microscopic investigations on *Polystictus versicolor*. VIII. Dye colour analysis of the vegetative nuclear division. 15 p. Ref. Transl. 16851

Translation from Planta 58:1-21. 1962.

- \*GLEZER, V. D., TROSHIKHINA, YU. G., and DASHIN, I. I. Coding of brightness by neurons of the optic cortex of the cat. Acad. Sci. USSR. Dokl. Biol. Sci. 170(1/6):734-737. Sept./Oct. 1966. 511 P444Aeb
- GLINSKI, J., and GRAJPEL, A. Application of the sifting and single-increment techniques in spectral analysis of soils. 7 p. Ref. (TT 67-56069) Transl. 16848
- Translation from Chemia Analityczna 10(4): 681-686. 1965.
- Issued by CFSTI.
- GNILOMEDOV, V. P. The problem of spacing sweeps on cultivator frames. 7 p. Transl. 16856
- Translation from Kuibyshevskii Sel'skokhozyaistvennyi Institut. Izvestiya 18:25-32. 1966.
- \*GODNEV, T. N., and SHABEL'SKAYA, E. F. Influence of prolonged shading upon the pigments and plastid apparatus of some sun and shade plants. Soviet Plant Physiol. 14(3):382-386. Ref. May/June 1967. 450 F58Ae
- \*GOLYASKAYA, E. L., and others. Biochemical characteristics of the generative systems of high and low heterosis lines of maize in relation to heterosis. Soviet Plant Physiol. 14(4):592-598. Ref. July/Aug. 1967. 450 F58Ae
- T. M. Grigorenko, T. V. Zhigalenko, and N. K. Oman, joint authors.
- \*GRANDILEVSKAYA-DEKSBAKH, M. L., NECHAEV, YU. A., and SHILKOVA, E. V. On the distribution and biology of the sand hopper Iphigenella acanthopoda Gr. in the Irikla Reservoir (on the Ural River). Acad. Sci. USSR. Dokl. Biol. Sci. 170(1/6):749-750. Sept./Oct. 1966. 511 P444Aeb
- HARA, S. Genetical studies on the wild rice of Formosa. 4 p. Transl. 16846
- Translation from Japanese Journal of Genetics 18(4):183-184. 1942.
- HARTMANN, F. Anent "An odd case of redwood formation." 7 p. (FPL Transl. No. 42) Transl. 16866
- Translation from Forstwissenschaftliches Centralblatt 76(14):494-496. 1932.
- HARTMANN, F. Three fundamental forms of redwood arrangement in coniferous species. 17 p. (FPL Transl. No. 42) Transl. 16866
- Translation from Forstwissenschaftliches Centralblatt 77(9):314-322. 1933.
- HASEGAWA, S. Proteolytic enzyme in chick egg white. 11 p. Transl. 16371
- Translation from Seikagaku (Biochemistry) 33:87-91. 1961.
- HASHIOKA, Y. A simplification method for seed rice disinfection and application of Arasan. 10 p. Ref. Transl. 16845
- Translation from Plant Protection 4:173-175. 1952.
- HAYAKAWA, H., and KISHINO, K. Studies on the bionomics of the rice stem maggot in Nagano Prefecture. 4 p. Transl. 16844
- Translation from Kanto-Tosan Plant Protection Society. Proceedings 9:52. 1962.
- HESELHAUS, F. The epidermal glands of honeybees and related forms. 63 p. Ref. Transl. 16843
- Translation from Zoologische Jahrbucher. Abteilung fur Anatomie und Ontogenie 43(3): 396-464. 1922.
- HORIUCHI, H., CHIKUBU, S., and TANI, T. Studies on cereal starches. IV. Rheological and chemical properties of domestic rice starches. 14 p. Ref. Transl. 16790
- Translation from Agricultural Chemical Society of Japan. Journal 35(6). 1961.
- HUGEL, M. F. Composition and characteristics of pollen: A review of recent works. 8 p. Ref. Transl. 16840
- Translation from Annales de l'Abeille 8(4): 299-307. 1965.
- \*IGNAT'eva, N. S., and NIKONOV, G. K. Furocoumarins from the roots of Angelica brevicaulis. Chem. Natur. Compounds 2(6):357. Nov./Dec. 1966. QD241.K453
- \*IGNAT'EVSKAYA, M. A., and REIKOV, N. I. Effect of concentration of nutrient medium on the physiology of Anacystus nidulans in intensive-culture conditions. Soviet Plant Physiol. 14(4):538-545. Ref. July/Aug. 1967. 450 F58Ae
- \*IVANOV, V. P., YAKOBSON, G. A., and SMIRNOVA, V. I. Role of rhizospheral microorganisms in the relationships of plants through their root secretions. Soviet Plant Physiol. 14(4):577-584. Ref. July/Aug. 1967. 450 F58Ae
- \*IVANOVA, M. B. Certain quantitative relations of Cladocera filtration. Acad. Sci. USSR. Dokl. Biol. Sci. 170(1/6):751-752. Sept./Oct. 1966. 511 P444Aeb
- JOHANSSON, I., and RENDEL, J. Genetics and animal breeding. San Francisco, Freeman, 1968. 489 p. Ref. SF105J63
- Translation of Arftlighet och husdjursforadling.
- \*KABANOV, V. V., and AZIYASHVILI, L. N. Charge in nucleic acid metabolism in plants under saline conditions. Soviet Plant Physiol. 14(4):606-612. July/Aug. 1967. 450 F58Ae
- KAGEYAMA, Y., and KUNISADA, N. Research on sake Aspergillus oryzae; protein decomposition of sake koji. 1. Measurement of the protein decomposition ability by Folin-Ciocalteu phenol reagent. 8 p. Transl. 14749
- No source of translation given.
- \*KHARANYAN, N. N. Effect of 2-chloroethyltrimethylammonium chloride (CCC) on some characteristics of the water conditions in plants. Soviet Plant Physiol. 14(3):465-468. Ref. May/June 1967. 450 F58Ae
- \*KHMELEVA, N. N. Conversion of energy in Artemia salina (L.). Acad. Sci. USSR. Dokl. Biol. Sci. 175(1/6):435-438. Ref. July/Aug. 1967. 511 P444Aeb
- \*KHOLODOVA, V. P. Localization of sucrose in tissues of the storage root of the sugar beet. Soviet Plant Physiol. 14(3):376-381. Ref. May/June 1967. 450 F58Ae
- KHUDAYBERDYEV, N. Strides in Uzbek agriculture cited. U. S. Joint Publ. Res. Serv. Transl. USSR Agr. 224:16-19. Nov. 16, 1967. (JPRS 43,343; TT 67-33967) 173 J663Tso
- Translation from Pravda Vostoka, Oct. 8, 1967:1-2.
- Issued by CFSTI.
- KIJAJIC, R. Determination of the lethal doses of Co-60 gamma rays for certain phytopathogenic fungi. 7 p. Ref. Transl. 14701
- Translation from Journal for Scientific Agricultural Research 13(39). 1960.
- \*KISLICHENKO, S. G., MAKAREVICH, I. F., and KOLESNIKOV, D. G. Cardiac glycosides of the seeds of Evonymus europaea. Chem. Natur. Compounds 2(6):360-362. Nov./Dec. 1966. QD241.K453
- KLIMOV, A. New developments in Soviet consumer cooperatives. U. S. Joint Publ. Res. Serv. Transl. USSR Consum. Goods Dom. Trade 191:6-17. Sept. 1, 1967. (JPRS 42,365; TT 67-32994) 173 J663Tro
- Translation from Ekonomicheskaya Gazeta 29:6-7. July 1967.
- Issued by CFSTI.
- \*KOVARSKII, A. E., KOVARSKII, V. A., and KAZANTSEV, E. F. Correlation between energy threshold of photo-induced epr signal of the seeds of Zea mays and genotype. Acad. Sci. USSR. Dokl. Biol. Sci. 175(1/6):452-454. July/Aug. 1967. 511 P444Aeb
- \*KRASAVTSEV, F. A. Resistance of hardened woody plants to dehydration at low temperatures. Soviet Plant Physiol. 14(3):433-439. Ref. May/June 1967. 450 F58Ae
- \*KUPERMAN, I. A., KHITROVO, E. V., and BOCHKOV, G. A. New apparatus for determination of plant respiration. Soviet Plant Physiol. 14(4):636-640. July/Aug. 1967. 450 F58Ae
- \*KUZNETSOV, E. D. Growth and mineral nutrition of Chlorella on a balanced medium. Soviet Plant Physiol. 14(4):532-537. Ref. July/Aug. 1967. 450 F58Ae



- \*KUZNETSOVA, G. A., and others. A new coumarin, pranferol, from the roots of *Prangos ferulacea*. *Chem. Natur. Compounds* 2(5):252-255. Ref. Sept./Oct.1966. QD241.K453  
A. Z. Abyshev, M. E. Perel'son, Yu. N. Sheinker, and G. Yu. Pek, joint authors.
- \*LESHKOVITSEVA, I. I. Formation of sporogenous cells in the culture of isolated male flower buds of woody plants (effect of heteroauxine and kinetin). *Soviet Plant Physiol.* 14(4):599-605. Ref. July/Aug.1967. 450 F58Ae  
LOGUTENOK, E. P. The operation of shredding drums with hinged hammers. 7 p.  
Transl. 16774  
Translation from *Traktory i Sel'khoz mashiny* 12:18-20. 1963.
- \*LOPUKHINA, G. I. Free amino acids in the root system of the pea. *Soviet Plant Physiol.* 14(4):570-576. Ref. July/Aug.1967. 450 F58Ae
- \*LUBENNIKOVA, E. I. Method of labeling cells at different stages of the mitotic cycle. *Acad. Sci. USSR, Dokl. Biol. Sci.* 175(1/6):409-411. July/Aug.1967. 511 P444Aeb
- MAKAROV, YU. I. New tick disease. 1 p.  
Transl. 15852  
Translation from *Pchelovodstvo* 5:38. May 1965.
- \*MAKSYUTINA, N. P., LITVINENKO, V. I., and KOVALEV, I. P. The flavonoids of the Cruciferae. II. *Chem. Natur. Compounds* 2(6):316-321. Ref. Nov./Dec.1966. QD241.K453
- \*MANUILOVA, N. A., BABICHEVA, R. N., and POPOV, V. V. The effect of intermittent lighting on the mitotic activity of cells in the retina and in the optic lobes of the chick embryo. *Acad. Sci. USSR, Dokl. Biol. Sci.* 170(1/6):700-703. Sept./Oct.1966. 511 P444Aeb
- \*MZHEL'SKAYA, L. G., YATSYN, V. K., and ABUBAKIROV, Triterpene glycosides of *Leonice eversmannii*. I. *Chem. Natur. Compounds* 2(6):345-348. Nov./Dec.1966. QD241.K453  
NEGRUTIU, T. Strict prophylactic measures against the African swine plague. 4 p.  
(JPRS 42,249; TT 67-32878) Transl. 16778  
Translation from *Scienteia* 7403:3. July 16, 1967.  
Issued by CFSTI.
- \*OVODOV, YU. S., and SOLOV'EVA, T. F. Polysaccharides of *Panax ginseng*. *Chem. Natur. Compounds* 2(5):243-245. Ref. Sept./Oct.1966. QD241.K453
- \*PANIN, V. A., and SHEVTSOV, I. A. Investigation of the compatibility of tetraploid sugar beets of different heterozygosity. *Acad. Sci. USSR, Dokl. Biol. Sci.* 175(1/6):459-460. Ref. July/Aug.1967. 511 P444Aeb
- \*PANOV, A. A. Neurosecretory cells in the brain of the mulberry silkworm, and their reaction to starvation. *Acad. Sci. USSR, Dokl. Biol. Sci.* 170(1/6):661-664. Sept./Oct.1966. 511 P444Aeb
- \*PARIBOK, V. P., and KAL'NII, V. S. Effect of compressed gases on oxygen transport in roots (diffusion mechanism of the radiation protection effect of compressed gases). *Soviet Plant Physiol.* 14(4):558-565. Ref. July/Aug.1967. 450 F58Ae
- \*POLEVAYA, V. S. Effect of light of various spectral compositions on some aspects of auxin metabolism in cultures of isolated carrot tissue. *Soviet Plant Physiol.* 14(4):496-503. Ref. July/Aug.1967. 450 F58Ae
- \*POLIVANOVA, E. N. Relationship between dimensions of the egg in *Eurygaster intergriceps* Put. and its resistance to desiccation at various temperatures. *Acad. Sci. USSR, Dokl. Biol. Sci.* 170(1/6):608-610. Sept./Oct.1966. 511 P444Aeb
- \*PONTOVICH, V. E. Uptake of sugars by the root of sugar beet. *Soviet Plant Physiol.* 14(3):368-375. Ref. May/June 1968. 450 F58Ae
- PREOBRAZHenskAYA, E. I. The viability of shoots grown from seeds irradiated by powerful doses of gamma-rays  $Co^{60}$ . 4 p.  
Transl. 14745  
Translation from All-Union Academy of Agricultural Sciences. Agrophysical Scientific-Research Institute. Collection of Works in the Physics of Agronomy. No. 9. 1962.
- \*RAKHIMOV, U. KH. Transpiration and diffusion pressure deficit of broom rape [*Orobancha cumanal*] and the plant host. *Soviet Plant Physiol.* 14(4):631-632. July/Aug.1967. 450 F58Ae
- \*RAZMAEV, I. I. Diurnal rhythm of nitrogen metabolism in plants. *Soviet Plant Physiol.* 14(3):462-464. Ref. May/June 1967. 450 F58Ae
- \*RODIONOV, V. S. Total rate of expenditure of  $C^{14}$ -assimilates in translocation and respiration in the leaves of various beet and tomato varieties. *Soviet Plant Physiol.* 14(3):459-461. Ref. May/June 1967. 450 F58Ae
- \*ROSTOV'TSEVA, E. P. Change in the cytophysiological state of the apical meristem of barley shoots in connection with the transition to the reproductive phase. *Soviet Plant Physiol.* 14(3):411-417. Ref. May/June 1968. 450 F58Ae
- \*SABIROV, K. A., SHAKIROV, T. T., and SHAM-SUTDINOV, M. R. I. Technology of the isolation of cytosine from *Thermopsis alterniflora*. *Chem. Natur. Compounds* 2(6):364. Nov./Dec. 1966. QD241.K453
- \*SARICH, M., and others. Investigation of amino acid metabolism with  $C^{14}$  in young corn plants raised under different nutrition conditions. *Soviet Plant Physiol.* 14(4):585-591. July/Aug. 1967. 450 F58Ae  
T. Chupina, I. Gerich, and I. Vereshbarani, joint authors.
- \*SAVITSKAYA, N. N. Accumulation of free proline in barley plants in the presence of insufficient soil water. *Soviet Plant Physiol.* 14(4):622-624. Ref. July/Aug.1967. 450 F58Ae  
SEKOYAN, S. Growth of the woodworking industry in Armenia. U. S. Joint Publ. Res. Serv. Transl. USSR Consum. Goods Dom. Trade 191:25-27. Sept.1,1967. (JPRS 42,365; TT 67-32994) 173 J663Tro  
Translation from *Kommunist*, July 26, 1967: 2.  
Issued by CFSTI.
- \*SEMENENKO, V. E., VLADIMIROVA, M. G., and ORLEANSKAYA, O. B. Physiological characteristics of *Chlorella* sp. K at high extremal temperatures. 1. Decoupling effect of extremal rella. *Soviet Plant Physiol.* 14(4):520-531. Ref. July/Aug.1967. 450 F58Ae
- \*SEVAST'YANOVA, G. A., and SMOLIN, A. N. Free nucleotides and their derivatives in the fat body of the oak silkworm larva *Antheraea pernyi* G. *Biochemistry (Biokhimiya)* 32(3, pt.2):452-460. Ref. May/June 1967. 385 B523Ae
- \*SHLYK, A. A., LOSEV, A. P., and SHEVEHUK, S. N. Ratio of specific activities of chlorophylls A and B in greening etiolated seedlings. *Soviet Plant Physiol.* 14(4):389-495. Ref. July/Aug. 1967. 450 F58Ae
- \*SHUL'GIN, I. A. Adaptation of green plants to the spectral composition of solar radiation. *Soviet Plant Physiol.* 14(4):504-512. Ref. July/Aug.1967. 450 F58Ae
- \*SILAEVA, A. M., and SHIRYAEV, A. I. Fine structure of chloroplast osmophilic globules. *Acad. Sci. USSR, Dokl. Biol. Sci.* 170(1/6):595-597. Ref. Sept./Oct.1966. 511 P444Aeb
- \*SINYUKHIN, A. M., and BRITIKOV, E. A. Generation of potentials in the pistils of *Incarvillea* and lily in conjunction with movement of the stigma and fertilization. *Soviet Plant Physiol.* 14(3):393-403. Ref. May/June 1967. 450 F58Ae
- \*SINYUKHIN, A. M., and VYSKREBENTSEVA, E. I. Influence of potassium ions on the resting potential of the root cells of *Cucurbita pepo*. *Soviet Plant Physiol.* 14(4):553-567. Ref. July/Aug.1967. 450 F58Ae

- \*SKUL'SKII, I. A., and SUROVINA, I. V. Types of steady-state distribution of ions of the alkali metals in the animal body. Acad. Sci. USSR. Dokl. Biol. Sci. 170(1/6):604-607. Ref. Sept./Oct.1966. 511 P444Aeb
- \*SMIRNOVA, Z. S., and TAPTYKOVA, S. D. Utilization of propane and its derivatives by certain Proactinomyces species. Microbiology 36(3):311-314. Ref. May/June 1967. 448.3 M582Ae
- \*SOLOV'EVA, I. A. Development of receptors with annular neural apparatuses in the chick esophagus. Acad. Sci. USSR. Dokl. Biol. Sci. 170(1/6):653-656. Sept./Oct.1966. 511 P444Aeb
- \*SOVIET ANTARCTIC EXPEDITION. Atlas of Antarctica. Volume I. Soviet Geogr. Rev. Transl. 8(5/6):261-507. May/June 1967. 331.8 So8
- \*STROGANOV, N. S. The use of organic tin compounds in the control of plankton. Acad. Sci. USSR. Dokl. Biol. Sci. 170(1/6):674-676. Ref. Sept./Oct.1966. 511 P444Aeb  
D. A. Kochkin, V. G. Khobotev, and L. S. Koslova, joint authors.
- SVENSHNIKOVA, I. N., and BOLZAKINA, --  
YU. P. Electron microscopic examination of sunflower seeds and accumulation of reserve substances. 6 p. Transl. 14461  
Translation from Akademiya Nauk SSSR. Doklady 151(5):1222-1224. 1963.
- TINBERGEN, N. Tierbeobachtungen zwischen Arktis und Afrika; Forscherfreuden in freier Natur [Animal observation between the Arctic and Africa; the joys of research in nature]. Ed. 3. Berlin, Parey, 1967. 228 p. Ref. QL463.T52 1967  
Earlier editions entitled: Wo die Bienenwolfe jagen; neugierige Forscher in freier Natur. Translation of Curious Naturalists.
- \*TROSHCHENKO, A. T., and LIMASOVA, T. I. 5-O-desmethylnobiletin from Aster altaicus. Chem. Natur. Compounds 2(6):357-358. Nov./Dec.1966. QD241.K453
- \*TSINGER, N. V., and PETROVSKAYA-BARANOVA, T. P. Formation and physiological role of callose pollen tube plugs. Soviet Plant Physiol. 14(3):404-410. Ref. May/June 1968. 450 F58Ae
- \*TUMANOV, I. I. Physiological mechanism of frost resistance of plants. Soviet Plant Physiol. 14(3):440-455. Ref. May/June 1967. 450 F58Ae
- \*TURKINA, M. V., and SOKOLOVA, S. V. Sucrose transport across the cell membranes of vascular tissue. Soviet Plant Physiol. 14(3):360-367. Ref. May/June 1967. 450 F58Ae
- \*UTKIN, L. M., and SEREBRYAKOVA, A. P. A new flavone glycoside from Antitoxicum fennebrae. Chem. Natur. Compounds 2(5):259-260. Sept./Oct.1966. QD241.K453
- \*VAKHMISTROV, D. B. Localization of the free space in barley roots. Soviet Plant Physiol. 14(3):337-343. Ref. May/June 1967. 450 F58Ae
- VASIL'KOVSKII, S. M. The work of active operating cultivator sweeps. 8 p. Transl. 16768  
Translation from Kuibyshevskii Sel'skokhozyaistvennyi Institut. Izvestiya 18:38-45. 1966.
- \*VOLKOVA, T. M., and MEISEL', M. N. Changes in the structure and ultrastructure of Rhodotorula aurantiaca induced by vitamin B<sub>1</sub>. Microbiology 36(4):549-555. Ref. July/Aug. 1967. 448.3 M582Ae
- \*ZAKHAROVA, N. I., NEMTSEVA, ZH. I., and KUTYURIN, V. M. Stably bound manganese in chloroplasts. Soviet Plant Physiol. 14(4):628-630. Ref. July/Aug.1967. 450 R58Ae
- \*ZENON Iosifovich Zhurbitskii (on his seventieth birthday). Soviet Plant Physiol. 14(3):483-486. May/June 1967. 450 F58Ae



## CHECKLISTS

Checklists of publications of the U. S. D. A., State Agricultural Experiment Stations, and State Agricultural Extension Services are prepared for the convenience of those who wish to follow the literature from these sources. All such publications are included also in the classified section and indexed in the author and subject indexes.

U. S. D. A. PUBLICATIONS

Publications in the various United States Department of Agriculture series are listed first, followed by publications issued by the various agencies within the Department, arranged alphabetically by name of agency.

Domestic requests for publications in the various Department series will be filled free to libraries and other qualified agencies and organizations upon application to the United States Department of Agriculture, Office of Information, Washington, D.C., 20250, as long as the supply lasts. They may also be purchased from the Superintendent of Documents, Washington, D.C., 20250.

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Agricultural Economic Reports

ANDRILENAS, P. Farmers' expenditures for pesticides in 1964. U. S. D. A. Agr. Econ. Rep. 106,10 p. 1967. A281.9 Ag8A

BIRD, A. R., and MCCOY, J. L. White Americans in rural poverty. U. S. D. A. Agr. Econ. Rep. 124,18 p.,map. Ref. Nov.1967. A281.9 Ag8A

HOLMES, O. W. The impact of public spending in a low-income rural area: A case study of Fort Leonard Wood, Mo. U. S. D. A. Agr. Econ. Rep. 135,26 p.,map. June 1968. A281.9 Ag8A

Agriculture Information Bulletins

U. S. DEPT. OF AGRICULTURE. Science and food for freedom. U. S. D. A. Agr. Inform. Bull. 317,slightly rev.,8 p. Feb.1968. 1 Ag84Ab

Farmers' Bulletins

U. S. AGRICULTURAL RESEARCH SERV. CROPS RESEARCH DIV. Strawberry culture; eastern United States. U. S. D. A. Farmers' Bull. 1028,slightly rev.,20 p.,map. Mar.1968. 1 Ag84F

U. S. AGRICULTURAL RESEARCH SERV. CROPS RESEARCH DIV. Growing pumpkins and squashes, prepared by Crops Research Division and Entomology Research Division, Agricultural Research Service. U. S. D. A. Farmers' Bull. 2086,21 p. 1968. 1 Ag84F

Foreign Agricultural Economic Reports

HENDRIX, W. E., NAIVE, J. J., and ADAMS, W. E. Accelerating India's food grain production, 1967-68 to 1970-71; requirements and prospects for a yearly growth rate of 5 percent. U. S. D. A. Foreign Agr. Econ. Rep. 40,28 p. 1968. A281.9 Ag8F  
Bibliography, p.20.

Marketing Bulletins

U. S. CONSUMER AND MARKETING SERV. Federal-State Market News Service. U. S. D. A. Marketing Bull. 40,4 p. Apr.1968. A280.39 Ag8M

Marketing Research Reports

SPALDING, D. H. Effects of ozone atmospheres on spoilage of fruits and vegetables after harvest. U. S. D. A. Marketing Res. Rep. 801,9 p. 1968. 1 Ag84Mr

VOSLOH, C. J. Costs and economies of scale in feed manufacturing. U. S. D. A. Marketing Res. Rep. 815,66 p. 1968. 1 Ag84 Mr

--

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Miscellaneous Publications

U. S. AGRICULTURAL STABILIZATION SERV. Your career in ASCS. U. S. D. A. Misc. Publ. 1078,folder. Apr.1968. 1 Ag84M

U. S. AGRICULTURAL RESEARCH SERV. Laying house; cooperative farm building plan No. 5990. U. S. D. A. Misc. Publ. 1080,2 p. May 1968. 1 Ag84M

U. S. DEPT. OF AGRICULTURE. Restoring surface-mined land. U. S. D. A. Misc. Publ. 1082,18 p. 1968. 1 Ag84M

U. S. AGRICULTURAL RESEARCH SERV. Horse show rings for indoor and outdoor events; cooperative farm building plan No. 6015. U. S. D. A. Misc. Publ. 1084,2 p. June 1968. 1 Ag84M

Program Aid

U. S. AGRICULTURAL RESEARCH SERV. ANIMAL HEALTH DIV. Anthrax in livestock; how to fight it. U. S. D. A. PA-431,8 p. 1968. 1 Ag84Pro

U. S. DEPT. OF AGRICULTURE. OFF. OF INFORMATION. 3 leaves mean poison ivy. U. S. D. A. PA-839,folder. Feb.1968. 1 Ag84Pro

NIEDERFRANK, E. J. Helping the handicapped in rural areas. U. S. D. A. PA-860,11 p. Apr.1968. 1 Ag84Pro

Statistical Bulletins

U. S. DEPT. OF AGRICULTURE. ECONOMIC RESEARCH SERV. Livestock and meat statistics. U. S. D. A. Statist. Bull. 333(sup.),159 p. June 1968. 1 Ag84St

U. S. Department of Agriculture, Statistical Reporting Service, and U. S. Consumer and Marketing Service, cooperating.

JONES, M. V., and CLAYTON, L. B. Supplement for 1967 to wool statistics and related data, 1920-64. U. S. D. A. Statist. Bull. 363(sup.)124 p. May 1968. 1 Ag84St

SMITH, H. V., and DOESCHER, C. O. Corn growing practices, 1965. U. S. D. A. Statist. Bull. 418,18 p. 1968. 1 Ag84St

U. S. CONSUMER AND MARKETING SERV. DAIRY DIV. Federal milk order market statistics, annual summary for 1967. U. S. D. A. Statist. Bull. 426,111 p.,map. May 1968. 1 Ag84St

U. S. CONSUMER AND MARKETING SERV. FRUIT AND VEGETABLE DIV. Fresh fruit and vegetable prices, 1967. U. S. D. A. Statist. Bull. 427,35 p. June 1968. 1 Ag84St

Technical Bulletins

VERRALL, A. F. *Poria incrassata* rot: prevention and control in buildings. U. S. D. A. Tech. Bull. 1385, 27 p. Ref. 1968. 1 Ag84Te

Unnumbered Publications

FREEMAN, O. L. Communities of tomorrow; agriculture/2000. Washington, U. S. D. A., 1967. 31 p. aHD1761.F7

NATIONAL BRUCELLOSIS COMMITTEE. Proceedings, 1966. Washington, U. S. Department of Agriculture, 1966. 44 p., map. aSF809.B8N3

**AGRICULTURAL RESEARCH SERVICE**

CONNIN, R. V., and others. Mass rearing of the cereal leaf beetle [*Oulema melanopus*]. U. S. Agr. Res. Serv. ARS-33-125, 11 p. Feb. 1968. A420 R31

D. L. Cobb, J. C. Arnsman, and G. Lawson, joint authors.

CORN (maize) viruses in the continental United States and Canada, by W. N. Stoner. U. S. Agr. Res. Serv. ARS-33-118, 99 p. Mar. 1968. A420 R31

ROBINSON, A. R. Trapezoidal flumes for measuring flow in irrigation channels. U. S. Agr. Res. Serv. ARS-41-140, 15 p. 1968. A56.9 R31

WILLSON, G. B. Lateral pressures on walls of potato storage bins. U. S. Agr. Res. Serv. ARS-52-32, 15 p. June 1968. A289.9 R31

U. S. AGRICULTURAL RESEARCH SERV. Food buying guide and recipes. Prepared for the Office of Economic Opportunity. Washington, 1967. 119 p. TX356.A2

U. S. Consumer and Marketing Service, cooperating.

U. S. Office of Economic Opportunity. Project Head Start, 3A.

**AGRICULTURAL STABILIZATION AND CONSERVATION SERVICE**

U. S. AGRICULTURAL STABILIZATION AND CONSERVATION SERV. Agricultural Conservation Program; 1967, 1966, 1965 summary. Washington, 1968. 91 p. A281.9 C76

**CONSUMER AND MARKETING SERVICE**

U. S. CONSUMER AND MARKETING SERV. DAIRY DIV. Summary of major provisions in Federal milk marketing orders, January 1, 1968. Washington, 1968. 76 p. aHD9282.U5A3

U. S. CONSUMER AND MARKETING SERV. FRUIT AND VEGETABLE DIV. FRESH PRODUCTS STANDARDIZATION AND INSPECTION BR. Farmers' stock peanuts; inspection instructions. Washington, 1968. 27 p., rev. A280.3909 C762

U. S. CONSUMER AND MARKETING SERV. TECHNICAL SERVICES DIV. List of chemical compounds authorized for use under USDA poultry, meat, rabbit and egg products inspection programs. Washington, 1968. 122 p. aTX501.A3U5

**ECONOMIC RESEARCH SERVICE**

SANTMYER, C. Morocco's agricultural economy in brief. U. S. D. A. Econ. Res. Serv. ERS-Foreign 214, 12 p. 1968. A281.9 Ag83

**FOREST SERVICE**

JENSEN, K. F. Measuring oxygen and carbon dioxide in red oak trees. U. S. Forest Serv. Res. Note NE-74, 4 p. 1967. A99.9 F7622U

KOELLING, M. R. A portable field shelter. U. S. Forest Serv. Res. Note NE-70, 4 p. 1967. A99.9 F7622U

MCCONKEY, T. W. Light-weight extension tubes for compressed-air garden sprayers. U. S. Forest Serv. Res. Note NE-73, 8 p. 1967. A99.9 F7622U

U. S. FOREST SERV. Forest insect conditions in the United States, 1967. Washington, 1968. 39 p., map. A423.9 F763

U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. List of publications on glue, glued products, and veneer. Madison, 1968. 32 p. A241.4 F762Fo

U. S. FOREST SERV. FOREST PRODUCTS LABORATORY. List of publications on the growth, structure, and identification of wood. Madison, 1967. 34 p. A241.01 F762Fg Wisconsin University, cooperating.

U. S. FOREST SERV. PACIFIC NORTHWEST REGION. Snoqualmie National Forest; 1967 letter to the stockholders. Washington, 1968? 25 p. A99.9 Sh5

U. S. FOREST SERV. PACIFIC NORTHWEST REGION. DIV. OF TIMBER MANAGEMENT. INSECT AND DISEASE CONTROL BR. Forest insect conditions in the Pacific Northwest during 1967, by R. E. Dolph, and L. F. Pettinger. Washington, 1968. 73 p., map. 1.967 F4F76

Oregon State Board of Forestry, and Washington Department of Natural Resources, cooperating.

**NATIONAL AGRICULTURAL LIBRARY**

CONDON, P. A. The toxicity of herbicides to mammals, aquatic life, soil microorganisms, beneficial insects and cultivated plants, 1950-65; a list of selected references. U. S. Natl. Agr. Libr. Libr. List 87, 161 p. Apr. 1968. 1.916 L612

**SECRETARY, OFFICE OF**

U. S. DEPT. OF AGRICULTURE. Agriculture/2000; report of the Secretary of Agriculture, 1967. Washington, 1968. 105 p. 1 Ag84A

**SOIL CONSERVATION SERVICE**

U. S. SOIL CONSERVATION SERV. Soil survey laboratory methods and procedures for collecting soil samples. U. S. Soil Conserv. Serv. Soil Surv. Invest. Rep. 1, 50 p. Ref. 1967. aS591.A2

U. S. SOIL CONSERVATION. Soil survey of Columbiana County, Ohio, by H. D. Lessig, W. F. Hale and J. L. Yohn. Washington, 1968. 132 p., map. Ref. aS591.A3L42 Ohio Department of Natural Resources, Div. of Land and Soil and Ohio Agricultural Experiment Station, cooperating.

U. S. SOIL CONSERVATION SERV. Soil survey of Giles County, Tennessee, by J. C. True, J. F. Campbell, E. P. Davis, and D. L. Montgomery. Washington, 1968. 69 p., map. Ref. aS591.A3S64

Tennessee Agricultural Experiment Station, cooperating



U. S. SOIL CONSERVATION SERV. Soil survey of Randolph County, Alabama, by W. B. Parker, B. D. Batchelor, O. R. Carter, L. A. Dungan, and H. L. Mathews. Washington, 1967. 69 p., map. Ref. aS591.A3P32

Alabama Agricultural Experiment Station, and Alabama Department of Agriculture and Industries, cooperating.

U. S. SOIL CONSERVATION SERV. Soil survey of Robertson County, Tennessee, by R. H. Moneymaker, J. F. Brasfield, J. B. Cothran, B. B. Hinton, E. T. Lampley, and J. P. Sutton. Washington, 1968. 61 p., map. Ref. aS591.A3S65

Tennessee Agricultural Experiment Station, cooperating.

#### STATISTICAL REPORTING SERVICE

U. S. CROP REPORTING BOARD. Agricultural prices; 1967 annual summary. Washington, 1968. 179 p. A284.39 M343

STATE AGRICULTURAL EXPERIMENT STATION  
PUBLICATIONS

Publications issued by the State Agricultural Experiment Stations are usually available from the issuing experiment station, except where noted, and as long as the supply lasts. The National Agricultural Library does not distribute them.

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Alabama Agricultural Experiment Station, Auburn

HAMMETT, R. A. Response of homemakers to food information in mass media of Anniston, Birmingham, Montgomery. Ala. Agr. Exp. Sta. Bull. 377,42 p. Ref. Apr.1968. 100 AL1S

HAMMETT, R. A. Meat buying habits of urban homemakers. Ala. Agr. Exp. Sta. Bull. 378, 31 p. Apr.1968. 100 AL1S

Alaska Agricultural Experiment Station, Palmer

ALLEN, L. D. Fuels and heating systems for Alaskan homes. Alaska. Agr. Exp. Sta. Circ. 27,5 p. Mar.1968. 100 AL122E

Arkansas Agricultural Experiment Station, Fayetteville

BUDD, K. B., and CHARLTON, J. L. Analysis of county school districts in Arkansas. Ark. Agr. Exp. Sta. Bull. 731,60 p.,map. June 1968. 100 Ar42

PRICE, C. Economic returns from irrigated vegetable production on Arkansas hill farms; two years of case studies. Ark. Agr. Exp. Sta. Bull. 732,34 p.,map. June 1968. 100 Ar42

LAFFERTY, D. G., and DELZELL, F. Cost of owning and operating cotton stripper machines. Ark. Agr. Exp. Sta. Rep. Ser. 169,13 p. May 1968. 100 Ar42R

MULLINS, T., and GRANT, W. R. Enterprise costs and returns on rice farms in the Delta, Arkansas. Ark. Agr. Exp. Sta. Rep. Ser. 170, 26 p.,map. Ref. June 1968. 100 Ar42R  
U. S. Department of Agriculture, cooperating.

BROWN, C. J., and LUEKER, C. Performance of bulls on Arkansas cooperative beef bull performance test 6. Ark. Agr. Exp. Sta. Rep. Ser. 171,16 p.-folder. June 1968. 100 Ar42R

ARKANSAS farm research 17(2),16 p. Mar./Apr.1968. 100 Ar42F

California Agricultural Experiment Station, Berkeley

LOGAN, S. H. Economic structure of cattle slaughtering in the Western United States. Calif. Agr. Exp. Sta. Bull. 836,28 p.,map. Ref. Jan.1968. 100 C12S  
Western Regional Research Publication.

MCKILLOP, W., and HOYER-NIELSEN, S. Production and inventory planning in lumber manufacturing. Calif. Agr. Exp. Sta. Bull. 837,32 p. Mar.1968. 100 C12S

WAGNON, K. A. Use of different classes of range land by cattle. Calif. Agr. Exp. Sta. Bull. 838,16 p.,map. Mar.1968. 100 C12S

MATHIAS, M. E., and others. Ornamentals for California's middle elevation desert. Calif. Agr. Exp. Sta. Bull. 839,43 p.,map. Mar.1968. 100 C12S

W. Metcalf, M. H. Kimball, C. L. Hemstreet, D. E. Gilbert, and W. B. Davis, joint authors.

POWELL, J. A. Host associations and taxonomy of nearctic conifer cone moths in the genus *Eucosma* (Lepidoptera: Tortricidae). Hilgardia 39(1),36 p.,map. Ref. Jan.1968. 100 C12H

BROWN, D. S., BUCHANAN, J. R., and HICKS, J. R. Volatiles from apples, as related to variety, season, maturity, and storage. Hilgardia 39(2):37-67. Ref. Mar.1968. 100 C12H

MALCOLM, C. V., STOLZY, L. H., and JENSEN, C. R. Effect of artificial leaf coatings on foliar chloride uptake during sprinkler irrigation. Hilgardia 39(3):69-85. Ref. May 1968. 100 C12H

GILMORE, A. E. Phycomycetous mycorrhizal organisms collected by open-pot culture methods. Hilgardia 39(4):87-105. Ref. May 1968. 100 C12H

DAVIS, R. M., and others. Plant growth as a function of soil texture in the Hanford series. Hilgardia 39(5):107-120. Ref. May 1968. 100 C12H

P. E. Martin, A. W. Fry, L. M. Carter, M. B. Zahara, and R. M. Hagan, joint authors.

STARK, R. W., and others. Photochemical oxidant injury and bark beetle (Coleoptera: Scolytidae) infestation of ponderosa pine [*Pinus ponderosa*]. I-II. Hilgardia 39(6):121-152. Ref. May 1968. 100 C12H

P. R. Miller, F. W. Cobb, D. L. Wood, J. R. Parmeter, and E. Zavarin, joint authors.

Colorado Agricultural Experiment Station, Fort Collins

LUEPSCHEN, N. S., and ROHRBACH, K. G. The effect of surfactants on botran applications in controlling *Rhizopus* [stolonifer] decay of peaches. Colo. Agr. Exp. Sta. Colo. Progr. Rep. 68-3,4 p. Apr.1968. 100 C71C

Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.

TUNG, T. H., REU, L., and MILLAR, R. H. A location programming model of the Colorado dairy industry. Colo. Agr. Exp. Sta. Tech. Bull. 99,22 p.,map. Ref. May 1968. 100 C71S

Connecticut (Storrs) Agricultural Experiment Station, Storrs

STOCKWELL, E. G. Income characteristics of the population in Connecticut and the Northeast Region. Conn. (Storrs) Agr. Exp. Sta. Res. Rep. 24,39 p. Sept.1967. 100 C76Re

Delaware Agricultural Experiment Station, Newark

WILSON, R. R., and COLE, R. H. The potential of dwarf soybean varieties. Del. Agr. Exp. Sta. Bull. 367,17 p. Ref. Apr.1968. 100 D37S

Florida Agricultural Experiment Station, Gainesville

SECHLER, D., CHAPMAN, W. H., and LUKE, H. H. Florida 501 oats. Fla. Agr. Exp. Sta. Circ. S-185,10 p. Mar.1968. 100 F66Ci



BUTSON, K. D., and PRINE, G. M. Weekly rainfall frequencies in Florida. Fla. Agr. Exp. Sta. Circ. S-187, 41 p. Apr. 1968. 100 F66Ci

HARRIS, H. C., SCHRODER, V. N., and GILMAN, R. L. Nutrient deficiency effects on yield and chemical composition of plants grown on Leon fine sand. Fla. Agr. Exp. Sta. Tech. Bull. 725, 39 p. Ref. May 1968. 100 F66S

SUNSHINE State agricultural research report 13(2), 16 p. Mar. 1968. 100 F66Su

#### Florida Everglades Experiment Station, Belle Glade

FLORIDA. AGRICULTURAL EXPERIMENT STATION. 1968 vegetable Crops Field Day. Fla. Everglades Exp. Sta. Mimeo Rep. EES68-8, 6 p. May 9, 1968. 100 F663

BURDINE, H. W., and GUZMAN, V. L. Some soil pH effects on soil tests and growth of some vegetable crops on Everglades organic soil. Fla. Everglades Exp. Sta. Mimeo Rep. EES68-9, 8 p. May 1968. 100 F663

Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.

#### Georgia Agricultural Experiment Stations, Athens

LASSITER, J. W., and others. Mineral content of some Georgia livestock feeds. Ga. Agr. Exp. Sta. Res. Bull. 25, 23 p. Ref. Dec. 1967. S51.E2

J. V. Mason, H. F. Perkins, A. R. Brown, and E. R. Beaty, joint authors.

JACKSON, C. R. A field study of fungal associations on peanut fruit. Ga. Agr. Exp. Sta. Res. Bull. 26, 29 p. Ref. Feb. 1968. S51.E2

BROOKS, O. L., and others. Pelleted Coastal bermudagrass; comprehensive investigations. Ga. Agr. Exp. Sta. Res. Bull. 27, 43 p. Ref. Feb. 1968. S51.E2

W. J. Miller, E. R. Beaty, and C. M. Clifton, joint authors.

BROWN, J. D., and ELROD, J. C. Competitive position of the Georgia watermelon producing industry. Ga. Agr. Exp. Sta. Res. Bull. 28, 39 p., map. Apr. 1968. S51.E2

KUNZE, J. H., BROWN, E. E., and BRANNEN, S. J. The economic feasibility of secondary processing [canning] of light fowl in Georgia. Ga. Agr. Exp. Sta. Res. Bull. 29, 27 p., map. Mar. 1968. S51.E2

SAVAGE, E. F., HAYDEN, R. A., and WARD, W. E. The effect of subsoiling on the growth and yield of peach trees. Ga. Agr. Exp. Sta. Res. Bull. 30, 15 p. Mar. 1968. S51.E2

JOHNSTONE, F. E., COBB, C., and CARTER, H. S. Effects of elevation and slope exposure on air and soil temperatures for the typical Georgia piedmont farm. Ga. Agr. Exp. Sta. Res. Bull. 31, 26 p. Ref. Mar. 1968. S51.E2

HOLLEY, K. T., and HAMMONS, R. O. Strain and seasonal effects on peanut characteristics. Ga. Agr. Exp. Sta. Res. Bull. 32, 27 p. Ref. Apr. 1968. S51.E2

TIPPINS, H. H., MORGAN, L. W., and BECKHAM, C. M. Biology of *Derobrachus brevicollis*, a pest of bahiagrass and peanuts. Ga. Agr. Exp. Sta. Res. Bull. 33, 18 p., map. Apr. 1968. S51.E2

MARTIN, N. R., and others. Effects of alternative production practices on costs and returns in producing cotton in selected areas of Georgia. Ga. Agr. Exp. Sta. Res. Bull. 34, 38 p., map. May 1968. S51.E2

J. E. Nix, W. C. McArthur, and S. J. Brannen, joint authors.

U. S. Department of Agriculture, cooperating.

PURCELL, J. C. Trends and relations in the livestock-meat sector affecting prices and revenue to primary producers. Ga. Agr. Exp. Sta. Res. Bull. 35, 34 p. Ref. May 1968. S51.E2

TARVER, J. D. Migration in Georgia. Ga. Agr. Exp. Sta. Res. Rep. 26, 62 p., map. Ref. May 1968. S51.E22

WALKER, M. E., and others. The effects of high fertilization on the production of cotton in the Coastal Plain. Ga. Agr. Exp. Sta. Res. Rep. 27, 13 p. Ref. May 1968. S51.E22

S. A. Parham, R. B. Moss, and O. L. Brooks, joint authors.

#### Hawaii Agricultural Experiment Station, Honolulu

BARMETTLER, E. R., and HIROSHIGE, H. M. An economic evaluation of Lalamilo farm operations. Hawaii. Agr. Exp. Sta. Agr. Econ. Rep. 76, 19 p. Nov. 1967. 275.29 H312Ae

ROTAR, P. P., and others. Crossing and flowering behavior in Spanish clover, *Desmodium sandwichense* E. Mey., and other *Desmodium* species. Hawaii. Agr. Exp. Sta. Tech. Progr. Rep. 164, 13 p. Ref. Nov. 1967. 100 H313P

S. J. Park, A. Bromdey, and U. Urata, joint authors.

#### Idaho Agricultural Experiment Station, Moscow

STEVLINGSON, D. J., and EVERSON, D. O. Spring and fall freezing temperatures in Idaho. Idaho. Agr. Exp. Sta. Bull. 494, 19 p., map. Apr. 1968. 100 Id14

ROMANKO, R. R., LIKENS, S. T., and SHEPHARD, J. C. Talisman, a new American clusters-type hop variety. Idaho. Agr. Exp. Sta. Bull. 496, 15 p. Mar. 1968. 100 Id14

BELL, T. D., ORME, L. E., and BAKER, J. P. Ammonium polyphosphate as a source of nitrogen and phosphorus in cattle rations. Idaho. Agr. Exp. Sta. Bull. 497, 15 p. Ref. Apr. 1968. 100 Id14

DAHMEN, J. J., and BELL, T. D. Drylot versus pasture-managed ewes. VI-VII. Idaho Agr. Res. Progr. Rep. 137, 32 p. May 1968. S53.E2

IDAHO. AGRICULTURAL EXPERIMENT STATION. CALDWELL BR. 41st annual Beef Cattle Research Field Day. Idaho Agr. Res. Progr. Rep. 139, 34 p. May 1968. S53.E2

#### Illinois Agricultural Experiment Station, Urbana

DUE, J. M. Changes in imports of capital goods—Sierra Leone, 1950–1965. Ill. Agr. Exp. Sta. Bull. 730, 43 p. May 1968. 100 IL6S

Indiana Agricultural Experiment Station, Lafayette

INDIANA. AGRICULTURAL EXPERIMENT STATION. Automatic classification of green vegetation, soil and water. Ind. Agr. Exp. Sta. Res. Progr. Rep. 310,7 p. Feb.1968. 100 In2Res

ECKELMAN, C. A., and GOODRICK, F. E. Computer analysis of member stresses in chair side frames. Ind. Agr. Exp. Sta. Res. Progr. Rep. 325,11 p. Jan.1968. 100 In2Res

BAUMAN, L. F., and CRANE, P. L. 1967 performance trials of experimental Dent corn hybrids. Ind. Agr. Exp. Sta. Res. Progr. Rep. 326,24 p. Feb.1968. 100 In2Res

ASHMAN, R. B., and REED, J. 1967 hybrid popcorn performance trials. Ind. Agr. Exp. Sta. Res. Progr. Rep. 327,23 p. Feb.1968. 100 In2Res

SCHAFER, J. F., and others. Jefferson winter barley. Ind. Agr. Exp. Sta. Res. Progr. Rep. 328,2 p. Mar.1968. 100 In2Res  
F. L. Patterson, R. M. Caldwell, and L. E. Compton, joint authors.  
U. S. Department of Agriculture, cooperating.

STIVERS, R. K. Fertilization of continuous corn on Crosby silt loam, Lafayette, Indiana, 1963-66. Ind. Agr. Exp. Sta. Res. Progr. Rep. 329,7 p. Mar.1968. 100 In2Res

HULL, R. J. Johnsongrass life cycle—implications for improving cultural control practices. Ind. Agr. Exp. Sta. Res. Progr. Rep. 330,5 p. Mar.1968. 100 In2Res

PERRY, T. W., and CALDWELL, D. M. The value of corn silage made from the corn plant at various stages of maturity. Ind. Agr. Exp. Sta. Res. Progr. Rep. 331,4 p. Apr.1968. 100 In2Res

PERRY, T. W., and MUDD, C. A. Gelatinized vs. raw corn and cochina shells vs. oyster shells for finishing beef cattle. Ind. Agr. Exp. Sta. Res. Progr. Rep. 332,4 p. Apr.1968. 100 In2Res

BEESON, W. M., PERRY, T. W., and MOHLER, M. T. Supplementation of a full-feed of corn for steers on pasture with various levels of supplement A or Purdue 64. Ind. Agr. Exp. Sta. Res. Progr. Rep. 333,5 p. Apr.1968. 100 In2Res

BEESON, W. M., and others. The value of chlortetracycline and sulfamethazine for conditioning newly arrived cattle. Ind. Agr. Exp. Sta. Res. Progr. Rep. 334,4 p. Apr.1968. 100 In2Res

T. W. Perry, P. N. Boehm, C. J. Callahan, and M. T. Mohler, joint authors.

Iowa Agricultural and Home Economics Experiment Station, Ames

BEAL, G. M., BOHLEN, J. M.; and WARLAND, R. H. Rural value-orientations and farm-policy positions and actions. Iowa. Agr. Home Econ. Exp. Sta. Res. Bull. 561,178 p. May 1968. 100 Io9

IOWA. AGRICULTURAL EXPERIMENT STATION. Nematology in the North Central Region, 1956-66. Iowa. Agr. Home Econ. Exp. Sta. Spec. Rep. 58,20 p. May 1968. 100 Io9Sp  
Agricultural Experiment Stations of Alaska, Illinois, Indiana, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin; and U. S. Department of Agriculture, cooperating.

Kentucky Agricultural Experiment Station, Lexington

KENTUCKY. AGRICULTURAL EXPERIMENT STATION. Commercial feeds in Kentucky, 1967. Ky. Agr. Exp. Sta. Regulat. Bull. 198, 32 p. May 1968. 100 K41

Louisiana Agricultural Experiment Station, University Station, Baton Rouge

HORN, N. L., CARVER, R. B., and CARVER, R. G. The five most serious diseases of Louisiana strawberries. La. Agr. Exp. Sta. Bull. 624,18 p. Ref. Dec.1967. 100 L93

MARLIN, C. B. How should the cost of forest fire protection be shared? La. Agr. Exp. Sta. Bull. 625,19 p. Feb.1968. 100 L93

HODSON, R. C., and SULLIVAN, G. D. Leasing versus buying land for sugarcane production. La. Agr. Exp. Sta. DAE Res. Rep. 370,13 p. Mar.1968. 100 L935

HOBGOOD, W. B., and TYNER, F. H. Development of new industry as related to resources and employment in rural areas of north Louisiana, 1950-1966. La. Agr. Exp. Sta. DAE Res. Rep. 371,92 p. Ref. Apr.1968. 100 L935

PENN, J. B., BOLTON, B., and WOOLF, W. F. The farm land market in the Mississippi River delta cotton region, 1964-1965. La. Agr. Exp. Sta. DAE Res. Rep. 372,68 p. Apr.1968. 100 L935  
U. S. Department of Agriculture, cooperating.

CAMPBELL, J. R. Returns, costs, and profits for large-scale sugar cane farms in Louisiana; 1964-1966. La. Agr. Exp. Sta. DAE Res. Rep. 373,60 p. Apr.1968. 100 L935

CAMPBELL, J. R. Raw sugar mills in Louisiana, 1964-1966; returns, costs, and profits. La. Agr. Exp. Sta. DAE Res. Rep. 375,66 p. May 1968. 100 L935

CAMPBELL, J. R. Family-type sugar cane farms in Louisiana, 1965 and 1966; returns, costs, and profits. La. Agr. Exp. Sta. DAE Res. Rep. 377,82 p. May 1968. 100 L935

LOUISIANA. AGRICULTURAL EXPERIMENT STATION. 59th annual progress report, Rice Experiment Station, Crowley, Louisiana, 1967. n.p., 1967? 262 p. 100 L93  
U. S. Department of Agriculture, cooperating.

Maine Agricultural Experiment Station, Orono

DIMOND, J. B., and BISHOP, R. H. Susceptibility and vulnerability of forests to the pine leaf aphid *Pineus pinifoliae* (Fitch) (Adelgidae). Maine. Agr. Exp. Sta. Bull. 658,16 p.,map. Ref. Mar.1968. 100 M28S

HUTCHINSON, F. E. The chemical properties of seven agricultural soil series and their relationship to soil fertility. Maine. Agr. Exp. Sta. Tech. Bull. 31,35 p. Ref. Mar.1968. 100 M28B

STRATTON, K. G., and STRUCHTEMEYER, R. A. Evaluation of soil sites for white pine [*Pinus strobus*] in Maine. Maine. Agr. Exp. Sta. Tech. Bull. 32,17 p.,map. Apr.1968. 100 M28B



Maryland Agricultural Experiment Station, College Park

KULP, L. A. The taxonomic status of dipterous holly leaf miners (Diptera: Agomyzidae). Md. Agr. Exp. Sta. Bull. A-155, 42 p. Ref. May 1968. 100 M36S

FOSTER, P., and YOST, L. Population growth and rural development in Buganda, [Uganda]; a simulation of a micro-socio-economic system. Md. Agr. Exp. Sta. Misc. Publ. 621, 87 p. Apr. 1968. 100 M36M

MURRAY, R. A., and CISSEL, E. I. The transfer of farm and open country real estate in Queen Anne's County, Maryland, 1964. Md. Agr. Exp. Sta. Misc. Publ. 632, 25 p., map. Aug. 1967. 100 M36M

MURRAY, R. A., and CISSEL, E. I. The transfer of farm and open country real estate in Kent County, Maryland, 1964. Md. Agr. Exp. Sta. Misc. Publ. 634, 29 p., map. Aug. 1967. 100 M36M

SMITH, H. D., and BURNETT, J. O. Market structure of the sawmill industry in the handling of forest products in Maryland. Md. Agr. Exp. Sta. Misc. Publ. 645, 19 p. Apr. 1968. 100 M36M

MCKEE, C. G. Maryland 64, a high yielding, later maturing variety of Maryland tobacco. Md. Agr. Exp. Sta. Misc. Publ. 654, 4 p. Mar. 1968. 100 M36M

MURRAY, R. A., and CISSEL, E. I. The transfer of farm and open country real estate in Washington County, Maryland, 1964. Md. Agr. Exp. Sta. Misc. Publ. 656, 33 p., map. Nov. 1967. 100 M36M

MURRAY, R. A., and CISSEL, E. I. The transfer of farm and open country real estate in Worcester County, Maryland, 1964. Md. Agr. Exp. Sta. Misc. Publ. 658, 27 p., map. Dec. 1967. 100 M36M

Massachusetts Agricultural Experiment Station, Amherst

MAWSON, J. C. Form-class volume tables for white pine in southern New England. Mass. Agr. Exp. Sta. Bull. 566, 20 p. Oct. 1967. 100 M38H

Michigan Agricultural Experiment Station, East Lansing

GREIG, W. S. Consumer images of sugar and synthetic sweeteners. Mich. Agr. Exp. Sta. Res. Bull. 18, 41 p. Ref. 1968. 100 M58R

Minnesota Agricultural Experiment Station,  
St. Paul Campus, St. Paul 1

BUXTON, B. M., and JENSEN, H. R. Economies of size in Minnesota dairy farming. Minn. Agr. Exp. Sta. Bull. 488, 55 p. Ref. 1968. 100 M66

U. S. Department of Agriculture, cooperating.

JORDAN, R. M., and others. Year-round sheep nutrition and feeding programs. Minn. Agr. Exp. Sta. Bull. 489, 13 p. June 1968. 100 M66

H. E. Hanke, G. C. Marten, and J. W. Rust, joint authors.

RADCLIFFE, E. B., and LAUER, F. I. Resistance to *Myzus persicae*, *Macrosiphum euphorbiae*, and *Empoasca fabae* in the wild tuber-bearing *Solanum L.* species. Minn. Agr. Exp. Sta. Tech. Bull. 259, 27 p. Ref. 1968. 100 M66

NOREEN, P. A., and HUGHES, J. M. Some economic guides for alternative uses of aspen [*Populus tremuloides* and *P. grandidentata*] logs. Minn. Agr. Exp. Sta. Tech. Bull. (ser. 3) 260, 19 p. Ref. June 1968. 100 M66

MINNESOTA science 24(2), 24 p. Winter 1968. 100 M66S

Mississippi Agricultural Experiment Station, State College

ROBERTS, T. N., and HURT, V. G. Costs and returns to grade "A" dairy farms in Mississippi. Miss. Agr. Exp. Sta. Bull. 760, 23 p., map. May 1968. 100 M69

Missouri Agricultural Experiment Station, Columbia

MISSOURI AGRICULTURAL EXPERIMENT STATION. 1966-67 Missouri commercial fertilizer inspection and analysis. Mo. Agr. Exp. Sta. Bull. 873, 49 p., map. Feb. 1968. 100 M693

CAMPBELL, R. R., and DILLEY, M. College attendance plans of high school seniors in Missouri. Mo. Agr. Exp. Sta. Bull. 874, 34 p. May 1968. 100 M693

LANGEMEIER, L. N., and FINLEY, R. M. Effect of capital rationing and time on optimal farm organizations. Mo. Agr. Exp. Sta. Res. Bull. 929, 49 p. Jan. 1968. 100 M693

Nevada Agricultural Experiment Station, Reno

MYLES, G. A. Water based recreation in Nevada; statistical appendix. Nev. Agr. Exp. Sta. B 18, 80 p. Feb. 1968. 100 N41B

New Jersey Agricultural Experiment Station, New Brunswick

BAKER, M., and GOODRICH, D. C. Flower retailing by mass outlets. N. J. Agr. Exp. Sta. Bull. 817, 31 p. Mar. 1968. 100 N46S

Northeastern Regional Research Publication.

FAUST, S. D. Care of water for home swimming pools. N. J. Agr. Exp. Sta. Circ. 591-A, 11 p. May 1968. 100 N46S

New Mexico Agricultural Experiment Station,  
University Park

MALM, N. R., and FINKNER, M. D. Fertilizer rates for irrigated grain sorghum on the High Plains. N. Mex. Agr. Exp. Sta. Bull. 523, 13 p. Ref. Jan. 1968. 100 N46S

NOUR, M., and others. 1966 vegetable variety trials. N. Mex. Agr. Exp. Sta. Res. Rep. 125, 9 p. Apr. 1968. 100 N465R

R. M. Nakayama, J. N. Corgan, D. C. H. Hsi, and P. M. Trujillo, joint authors.

WILLIAMS, D. H. Irrigated castorbean, soybean, and safflower trials at the Northeastern Branch Station. N. Mex. Agr. Exp. Sta. Res. Rep. 133, 12 p. Mar. 1968. 100 N465R

DREGNE, H. E., and ANDERSON, J. U. Irrigable land in Curry County. N. Mex. Agr. Exp. Sta. Res. Rep. 140, 10 p. May 1968. 100 N465R

TRUJILLO, P. M. Performance of small grain varieties at the Espanola Valley Branch Station. N. Mex. Agr. Exp. Sta. Res. Rep. 141, 6 p. May 1968. 100 N465R

New York (Cornell) Agricultural Experiment Station, Ithaca

DEVINO, G. T., and APLIN, R. D. Measuring and improving the profitability of milk distribution routes. N. Y. (Cornell) Agr. Exp. Sta. Bull. 1015, 48 p. May 1968. 100 N48C

New York (State) Agricultural Experiment Station, Geneva

CLARK, B. E., and PECK, N. H. Relationship between the size and performance of snap bean seeds. N. Y. (State) Agr. Exp. Sta. Bull. 819, 30 p. Mar. 1968. 100 N48

SHANNON, S., VITTUM, M. T., and GIBBS, G. H. Irrigating with waste water from processing plants. N. Y. (State) Agr. Exp. Sta. Res. Circ. 10, 9 p. May 1968. 100 N48R

North Carolina Agricultural Experiment Station, State College Station, Raleigh

PORTER, D. M., and AYCOCK, R. Snapdragon leafspot caused by *Cercospora antirrhina*. N. C. Agr. Exp. Sta. Tech. Bull. 179, 31 p. Ref. Dec. 1967. 100 N81

DOLMAN, J. D., and BUOL, S. W. A study of organic soils (Histosols) in the Tidewater region of North Carolina. N. C. Agr. Exp. Sta. Tech. Bull. 181, 52 p., map. Dec. 1967. 100 N81

ROBINSON, B. H., and HOOVER, D. M. An economic analysis of factors affecting the acreage of corn in North Carolina. N. C. Agr. Exp. Sta. Tech. Bull. 182, 51 p. Ref. Jan. 1968. 100 N81

U. S. Department of Agriculture, cooperating.

TERRY, D. L., and MCCANTS, C. B. The leaching of ions in soils. N. C. Agr. Exp. Sta. Tech. Bull. 184, 16 p. Ref., p. 14-16. Feb. 1968. 100 N81

SPERRY, I. V., and HERRIN, A. E. Educational and vocational goals of rural and urban youth in North Carolina. N. C. Agr. Exp. Sta. Tech. Bull. 186, 30 p. Ref. Dec. 1967. 100 N81

North Carolina University, School of Home Economics, cooperating.

TOBACCO abstracts 11(6):499-604. June 1967. 241 T55

Ohio Agricultural Research and Development Center, Wooster

OHIO. AGRICULTURAL RESEARCH AND DEVELOPMENT CENTER. New wealth through agricultural research and development, 86th annual report, 1967. Ohio Agr. Res. Develop. Center. Bull. 1008, 45 p. 1967. 100 Oh3S

HUNT, F. E. Practices in handling and storing commercially frozen food in Ohio households. Ohio Agr. Res. Develop. Center. Bull. 1010, 14 p., map. Ref. May 1968. 100 Oh3S

HIBBS, J. W., CONRAD, H. R., and JOHNSON, W. H. Macerated, dewatered vs. wilted alfalfa-grass silage for dairy cows. Ohio. Agr. Res. Develop. Center. Res. Bull. 1013, 9 p. May 1968. 100 Oh3S

DEACON, R. E., and MALOCH, F. Two-year financial records for 26 Ohio rural nonfarm families in transition. Ohio. Agr. Res. Develop. Center. Res. Circ. 159, 15 p. May 1968. 100 Oh3R

POLIVKA, J. B., and HEDDEN, O. K. Determining potential corn rootworm [*Diabrotica longicornis*] populations and residual effectiveness of insecticides. Ohio. Agr. Res. Develop. Center. Res. Circ. 160, 12 p. May 1968. 100 Oh3R

OHIO. AGRICULTURAL RESEARCH AND DEVELOPMENT CENTER. Greenhouse vegetable research 1968. Ohio. Agr. Res. Develop. Center. Res. Sum. 26, 40 p. Apr. 1968. 100 Oh3Rs

Oklahoma Agricultural Experiment Station, Stillwater

OKLAHOMA. AGRICULTURAL EXPERIMENT STATION. Animal science research with sheep, swine and beef cattle; a progress report, 1967-68. Okla. Agr. Exp. Sta. Misc. Publ. 80, 113 p. Apr. 1968. 100 Ok4

Oklahoma State University of Agriculture and Applied Science, and U. S. Department of Agriculture, cooperating.

ELDER, W. C., and TUCKER, B. B. Pasture management; biennial report of progress for 1966 & 1967 on forage crop grazing studies and fertility tests. Okla. Agr. Exp. Sta. Process. Ser. P-583, 35 p. Apr. 1968. 100 Ok4M

OKLAHOMA. AGRICULTURAL EXPERIMENT STATION. EASTERN OKLAHOMA PASTURE STATION. Research progress report, 1968. Okla. Agr. Exp. Sta. Process. Ser. P-584, 28 p. May 1968. 100 Ok4M

MARTIN, J. E. Computer algorithms for estimating the parameters of selected classes of non-linear, single equation models. Okla. Agr. Exp. Sta. Process. Ser. P-585, 19 p. May 1968. 100 Ok4M

MCNEELY, J. G., and BADGER, D. D. Demand for selected recreational activities in south central Oklahoma. Okla. Agr. Exp. Sta. Tech. Bull. T-126, 44 p., map. May 1968. 100 Ok4



Oregon Agricultural Experiment Station, Corvallis

VARSEVELD, G. W., and OLSON, D. W. Sources of variation in lot sampling of raw shelled peas for tenderometer test. *Oreg. Agr. Exp. Sta. Spec. Rep.* 248,30 p. Feb.1968. 100 Or3M  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.

OREGON. AGRICULTURAL EXPERIMENT STATION. Summary of reports; tenth annual Beef Cattle Day. *Oreg. Agr. Exp. Sta. Spec. Rep.* 253,23 p. May 1968. 100 Or3M

OREGON. AGRICULTURAL EXPERIMENT STATION. Progress of irrigation research on Willamette Valley soils. *Oreg. Agr. Exp. Sta. Spec. Rep.* 254,49 p. Apr.1968. 100 Or3M  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.

OREGON. AGRICULTURAL EXPERIMENT STATION. Summary of reports; 1968 Sheep and Wool Day. *Oreg. Agr. Exp. Sta. Spec. Rep.* 255,12 p. May 1968. 100 Or3M  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.

OREGON. AGRICULTURAL EXPERIMENT STATION. Characteristics of the Pacific Northwest beef industry. *Oreg. Agr. Exp. Sta. Spec. Rep.* 256,60 p.,map. May 1968. 100 Or3M  
U.S. Department of Agriculture, cooperating.  
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.

HEDRICK, D. W., and others. Effects of forest and grazing practices on mixed coniferous forests of northeastern Oregon. *Oreg. Agr. Exp. Sta. Tech. Bull.* 103,24 p. Feb.1968. 100 Or3S  
J. A. Young, J. A. B. McArthur, and R. F. Keniston, joint authors.

Rhode Island Agricultural Experiment Station, Kingston

GILBERT, R. W., and PICKERING, A. Inspection of fertilizers made for the Rhode Island Department of Natural Resources. *R. I. Agr. Exp. Sta. Annu. Fert. Circ.*, Dec.1967,29 p. 100 R34S

South Carolina Agricultural Experiment Station, Clemson

VAN BLARICOM, L. O., and others. Evaluation of peach varieties for processing in South Carolina. *S. C. Agr. Exp. Sta. Bull.* 539,19 p. Feb.1968. 100 So8  
H. J. Sefick, R. A. Baumgardner, and R. J. Ferree, joint authors.

South Dakota Agricultural Experiment Station, Brookings

BERRY, R. L. Flexible cash rents. *S. Dak. Agr. Exp. Sta. Bull.* 185,14 p. 1966. 100 So82

WALSTROM, R. J., and JONES, P. A. Alfalfa leaf-cutter bee [*Megachile rotundata*]; management for alfalfa pollination in South Dakota. *S. Dak. Agr. Exp. Sta. Bull.* 544,12 p. May 1968. 100 So82

POWERS, M. Hedging, forward contracting and agricultural credit; a study of factors in making loans to farmers and firms. *S. Dak. Agr. Exp. Sta. Bull.* 545,27 p. Ref. June 1968. 100 So82

MOORE, R. A., and others. Long span fences. *S. Dak. Agr. Exp. Sta. Bull.* 546,15 p. June 1968. 100 So82  
H. G. Young, M. E. Larson, and G. B. Haiwick, joint authors.

ULLRICH, E. O., SANDERSON, J. T., and AANDERUD, W. G. Machinery costs on typical wheat farms in central South Dakota; Buffalo, Hyde, and Hand Counties. *S. Dak. Agr. Exp. Sta. Circ.* 186,24 p.,map. June 1968. 100 So82  
U. S. Department of Agriculture, cooperating.

ULLRICH, E. O., SANDERSON, J. T., and AANDERUD, W. G. Machinery costs on typical wheat farms in central South Dakota; Sully and Hughes Counties. *S. Dak. Agr. Exp. Sta. Circ.* 187,19 p.,map. July 1968. 100 So82  
U. S. Department of Agriculture, cooperating.

ULLRICH, E. O., SANDERSON, J. T., and AANDERUD, W. G. Machinery costs on typical wheat farms in north eastern South Dakota; Beadle, Clark, Codington, Day, Roberts, and Marshall Counties. *S. Dak. Agr. Exp. Sta. Circ.* 190,16 p.,map. June 1968. 100 So82  
U. S. Department of Agriculture, cooperating.

ULLRICH, E. O., SANDERSON, J. T., and AANDERUD, W. G. Machinery costs on typical wheat farms in north central South Dakota; Campbell, Edmunds, Walworth, and McPherson Counties. *S. Dak. Agr. Exp. Sta. Circ.* 193, 15 p.,map. June 1968. 100 So82  
U. S. Department of Agriculture, cooperating.

SEERLEY, R. W., and WAHLSTROM, R. C. Dehydrated alfalfa meal in rations for pigs and brood sows in confinement. *S. Dak. Agr. Exp. Sta. Tech. Bull.* 32,22 p. Ref. June 1968. 100 So82

Tennessee Agricultural Experiment Station, Knoxville

JENT, C. H., BELL, F. F., and SPRINGER, M. E. Predicting soil losses in Tennessee under different management systems; guide for selecting systems and practices for soil and water conservation. *Tenn. Agr. Exp. Sta. Bull.* 418,75 p. Ref. Apr.1967. 100 T25S  
U. S. Department of Agriculture, cooperating.

GILMORE, T. R. Apple production on the Cumberland Plateau. *Tenn. Agr. Exp. Sta. Bull.* 432,31 p. Oct.1967. 100 T25S

SMITH, H. J., and MCLAREN, J. B. Performance of breeds and breed crosses of swine. *Tenn. Agr. Exp. Sta. Bull.* 434,27 p. Dec.1967. 100 T25S

SEWELL, J. I. Laboratory and field tests of pond sealing by chemical treatment. *Tenn. Agr. Exp. Sta. Bull.* 437,25 p. Ref. Mar.1968. 100 T25S

TENNESSEE farm and home science progress report 65,32 p. Jan./Mar.1968. 100 T25F

TENNESSEE. AGRICULTURAL EXPERIMENT STATION. Eightieth annual report, 1967. Knoxville, 1968. 60 p. 100 T25S

Texas Agricultural Experiment Station, College Station

TEXAS. AGRICULTURAL EXPERIMENT STATION. Sheep and Angora goat, wool and mohair; research reports. Tex. Agr. Exp. Sta. Consolidated Progr. Rep. PR-2512-2528, 32 p. Feb. 1968. 100 T31P

WELSCH, D. E. Impact of yield and acreage changes on rice drying and storage facilities in Texas. Tex. Agr. Exp. Sta. MP-862, 12 p. Ref. Jan. 1968. 100 T31M

BOYKIN, C. C. Economic and operational characteristics of cattle ranches; Texas High Plains and Rolling Plains. Tex. Agr. Exp. Sta. MP-866, 20 p., map. Jan. 1968. 100 T31M  
U. S. Department of Agriculture, cooperating.

BRASHEARS, A. D., KIRK, I. W., and HUDSPETH, E. B. Effects of row spacing and plant population on double-row cotton. Tex. Agr. Exp. Sta. MP-872, 7 p. Feb. 1968. 100 T31M

JONES, O. R. Movement of coliform bacteria and organic matter in the Ogallala aquifer at Bushland, Texas. Tex. Agr. Exp. Sta. MP-873, 8 p. Feb. 1968. 100 T31M

NEMEC, S. J., and ADKISSON, P. L. Laboratory tests of effectiveness of certain insecticidal sprays for controlling the bollworm [*Heliothis zea*], tobacco budworm [*H. virescens*] and boll weevil [*Anthonomus grandis*]. Tex. Agr. Exp. Sta. MP-876, 7 p. Ref. Mar. 1968. 100 T31M

WIESE, A. F., and HUDSPETH, E. B. Effects on DSMA and MSMA [Monosodium acid methanearsonate] on cotton yield and arsenic content of cottonseed. Tex. Agr. Exp. Sta. MP-877, 4 p. Mar. 1968. 100 T31M

MCDONALD, R. E., and BURNS, E. E. Effects of storage on starch characteristics of Irish potatoes. Tex. Agr. Exp. Sta. MP-880, 2 p. Mar. 1968. 100 T31M

DANIELS, N. E. Insecticidal residue in soil and grain sorghum. Tex. Agr. Exp. Sta. Progr. Rep. PR-2531, 2 p. Mar. 27, 1968. 100 T31P

KYLE, J. H., PERRY, B. A., and WOODFIN, V. I. Irish potato variety and breeding evaluations for north central Texas, 1967. Tex. Agr. Exp. Sta. Progr. Rep. PR-2536, 10 p. May 15, 1968. 100 T31P

KYLE, J. H., and REGIER, C. Onion variety trials on the Northern High Plains of Texas. Tex. Agr. Exp. Sta. Progr. Rep. PR-2538, 8 p. May 15, 1968. 100 T31P

KYLE, J. H. Applications of soil fungicides to control *Rhizoctonia solani* on Irish potatoes. Tex. Agr. Exp. Sta. Progr. Rep. PR-2539, 9 p. May 15, 1968. 100 T31P

LONGENECKER, D. E. Response of American-Egyptian cotton varieties to nitrogen, water and plant population on clay loam soils of the El Paso Valley. Tex. Agr. Exp. Sta. Progr. Rep. PR-2541, 8 p. May 15, 1968. 100 T31P

WENDT, C. W., and RUNKLES, J. R. A study of evaporation suppressants under greenhouse conditions. II. Tex. Agr. Exp. Sta. Progr. Rep. PR-2542, 13 p. May 15, 1968. 100 T31P

BOTTRELL, D. G. Comparative effectiveness of malathion and asinphosmethyl applied as ultra-low-volume sprays in a fall boll weevil [*Anthonomus grandis*] control experiment. Tex. Agr. Exp. Sta. Progr. Rep. PR-2543, 7 p. May 15, 1968. 100 T31P

Utah Agricultural Experiment Station, Logan

ABAZA, R. H., BLAKE, J. T., and FISHER, E. J. Chemical analyses for nutritional elements and toxic oxalate compounds of sedges, rushes, and certain broad-leaved plants typifying inter-mountain meadowland forage. Utah. Agr. Exp. Sta. Mimeogr. Ser. 504, 26 p. Dec. 1967. 100 UtlMl

Vermont Agricultural Experiment Station, Burlington

HOPP, R. J. Muskmelons in Vermont. Vt. Agr. Exp. Sta. Bull. 653, 8 p. Apr. 1968. 100 V59

Washington Agricultural Experiment Stations, Pullman

ZUROSKE, C. H. Apple production costs and returns. Wash. Agr. Exp. Sta. Bull. 696, 6 p. Apr. 1968. 100 W27E

JAMES, D. W., WEAVER, W. H., and REEDER, R. L. Soil test index of plant-available potassium and the effects of cropping and fertilization in central Washington irrigated soils. Wash. Agr. Exp. Sta. Bull. 697, 12 p. Ref. May 1968. 100 W27E

WASHINGTON. AGRICULTURAL EXPERIMENT STATION. 1968 research progress. Wash. Agr. Exp. Sta. Bull. 698, 49 p. 1968. 100 W27E

INGALSBE, D. W., CLORE, W. J., and CONE, W. W. Measurement and removal of dirt on Concord grapes grown in central Washington 1967. Wash. Agr. Exp. Sta. Circ. 485, 11 p. May 1968. 100 W27S

HULETT, J. R. A method of selecting profitable nitrogen fertilizer rates for wheat in eastern Washington and eastern Oregon. Wash. Agr. Exp. Sta. Circ. 486, 12 p. May 1968. 100 W27S

WHITTLESEY, N. K. Production costs on specialized alfalfa hay farms in the Columbia Basin project. Wash. Agr. Exp. Sta. Circ. 487, 29 p. May 1968. 100 W27S

CHAWLA, S. S., and HARWOOD, R. F. Artificial diets for the European pine shoot moth, *Rhyacionia buoliana* (Schiffermuller) (Lepidoptera; Olethreutidae). Wash. Agr. Exp. Sta. Tech. Bull. 59, 13 p. Ref. Apr. 1968. 100 W27T

West Virginia Agricultural Experiment Station, Morgantown

CARVELL, K. L. The response of understory oak seedlings to release after partial cutting. W. Va. Agr. Exp. Sta. Bull. 553, 20 p. Sept. 1967. 100 W52



WASHKO, J. B., and others. Management and productivity of perennial grasses in the Northeast. III. Orchardgrass [*Dactylis glomerata*]. W. Va. Agr. Exp. Sta. Bull. 557T, 48 p. Ref. Dec. 1967. 100 W52

G. A. Jung, A. M. Decker, R. C. Wakefield, D. D. Wolf, and M. J. Wright, joint authors. Northeast Regional Research Publication.

WEST VIRGINIA TURFGRASS CONFERENCE, MORGANTOWN, AUGUST 2 AND 3, 1967. Proceedings. West. Va. Agr. Exp. Sta. Misc. Publ. 5, 44 p. Ref. May 1968. S127.E2

#### Wisconsin Agricultural Experiment Station, Madison

LIBBY, J. L. Insect pests of Nigerian crops. Wis. Agr. Exp. Sta. Bull. 269, 69 p. Ref. Feb. 1968. 100 W75

U. S. Agency for International Development, and University of Ife (Nigeria); cooperating.

CROPP, R. A., MOEDE, H. H., and GRAF, T. F. Marketing potential for sterilized milk concentrate in institutional outlets. Wis. Agr. Exp. Sta. Res. Bull. 271, 32 p. June 1968. 100 W75

WISCONSIN. AGRICULTURAL EXPERIMENT STATION. What's new in farm science, annual report. 2, compiled by D. D. Sorenson, and J. Guerrero. Wis. Agr. Exp. Sta. Bull. 587, 64 p. Fall 1967. 100 W75

CHRISTIANSEN, R. A., and others. The Wisconsin ski industry; some economic aspects. Wis. Agr. Exp. Sta. Res. Rep. 33, 8 p., map. Mar. 1968. 100 W75R

S. D. Staniforth, A. Johnson, and R. Cooper, joint authors.

--

#### REGIONAL PUBLICATIONS

##### North Central Region

IOWA. AGRICULTURAL EXPERIMENT STATION. Nematology in the North Central Region, 1956-1966. Iowa. Agr. Home Econ. Exp. Sta. Spec. Rep. 58, 20 p. May 1968. 100 I09Sp

Agricultural Experiment Stations of Alaska, Illinois, Indiana, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin; and U. S. Department of Agriculture, cooperating.

Also North Central Regional Research Publication No. 187.

##### Southern Cooperative Series

AMICK, R. J., and others. Cotton; the effects of allotments on supply and farm resource use. S. Coop. Ser. 128, 81 p., map. Ref. May 1968. 100 G29S0

C. P. Butler, P. L. Strickland, and J. H. White, joint authors.

Agricultural Experiment Stations of Alabama, Arkansas, Georgia, Kentucky, Louisiana, Mississippi, Missouri, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, and Virginia; and U. S. Department of Agriculture, cooperating.

STATE AGRICULTURAL EXTENSION SERVICE  
PUBLICATIONS

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Reproductions of material not available from the various State institutions may be ordered at regular Library rates from the United States Department of Agriculture, National Agricultural Library, Photoduplication Section, Washington, D.C., 20250.

CALIFORNIA University, Agricultural Extension Service, Berkeley

EBELING, W. Termites; identification, biology, and control of termites attacking buildings. Calif. Univ. Agr. Ext. Manual 38,74 p. Ref. Apr.1968. 100 C124

Published jointly with California Agricultural Experiment Station.

CALIFORNIA. UNIVERSITY. AGRICULTURAL EXTENSION SERV. Estate planning for farmers. Calif. Univ. Ext. Circ. 461,rev.,35 p. May 1968. 100 C125

REED, A. D., and SNYDER, J. H. What you should know about farm leases. Calif. Univ. Ext. Circ. 491,rev.,10 p. Jan.1968. 100 C12S --

SIEBERT, J. B., and COURTNEY, R. H. A market study of corn production in California. Calif. Univ. Ext. Inform. Ser. Agr. Econ. 67-3,28 p. Ref. Dec.1967,pub.1968. 275.29 C121

Published jointly with California Agricultural Experiment Station.

FLORIDA University, Agricultural Extension Service, Gainesville

MONTELARO, J., and MARVEL, M. E. Celery production guide. Fla. Univ. Ext. Circ. 121A, 12 p. May 1968. 275.29 F66C

LUTRICK, M. C., and others. A home orchard for north Florida. Fla. Univ. Ext. Circ. 322, 24 p. May 1968. 275.29 F66C

J. S. Shoemaker, A. H. Krezdorn, and J. E. Brogdon, joint authors.

MULLIN, R. S., and WHITTY, E. B. The soybean cyst nematode [*Heterodera glycines*] in Florida. Fla. Univ. Ext. Circ. 324,6 p.-folder. Jan.1968. 275.29 F66C

SHERMAN, W. B., and WESTGATE, P. J. Blackberry production in Florida. Fla. Univ. Ext. Circ. 325,12 p. May 1968. 275.29 F66C

ARRINGTON, L. R. Raising laboratory animals and other small stock. Fla. Univ. Ext. Circ. 326,10 p. June 1968. 275.29 F66C

EVANS, S. F. "A Florida garden room addition" for your home. Fla. Univ. Ext. Circ. 329, 12 p. June 1968. 275.29 F66C

FLORIDA. UNIVERSITY. AGRICULTURAL EXTENSION SERV. 1967 annual report. Gainesville, 1968? 33 p. 275.29 F66A

GEORGIA University, College of Agriculture, Extension Service, Athens

ALMAND, J. D. Six keys to fish pond management. Ga. Univ. Ext. Bull. 669,26 p. Apr.1968. 275.29 G29B

COX, C. J. Oil those eggs! Ga. Univ. Ext. Circ. 583,6 p.-folder. Apr.1968. 275.29 G29C

WALKER, G. D. Mr. Homebuilder: Save that shade. Ga. Univ. Ext. Circ. 586,8 p. May 1968. 275.29 G29C

GEORGIA. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Available publications; University of Georgia, College of Agriculture, 1968. Athens, 1968. 47 p. 275.29 G29A

HAWAII University, Agricultural Extension Service, Honolulu

HAWAII. UNIVERSITY. AGRICULTURAL EXTENSION SERV. Proceedings of the third annual Beef Cattle Field Day: Pasture management. Hawaii. Univ. Ext. Misc. Publ. 45,50 p. Aug.26,1967. S544.3.H3H3

HAWAII TROPICAL FRUIT PROCESSING CONFERENCE. Proceedings. Hawaii. Univ. Ext. Misc. Publ. 47,64 p. Dec.1967. S544.3 H3H3

HAWAII. UNIVERSITY. AGRICULTURAL EXTENSION SERV. Proceedings; third Biennium Agricultural Cooperative Conference [1967]. Hawaii. Univ. Ext. Misc. Publ. 48,38 p. Feb. 1968. S544.3.H3H3

Hawaii Department of Agriculture, and Hawaii Farm Bureau Federation, cooperating.

HAWAII PAPAYA INDUSTRY ASSOCIATION. Proceedings: Third annual meeting. Hawaii. Univ. Ext. Misc. Publ. 49,44 p. Feb.1968. S544.3 H3H3

IDAHO University, College of Agriculture, Extension Service, Moscow

MODEN, W. L., and ROYLANCE, H. B. Combine adjustment for harvesting alfalfa seed. Idaho. Univ. Ext. Idaho. Curr. Inform. Ser. 78,4 p. May 1968. 275.29 Id13Idc

WILSON, E. Food for small children. Idaho. Univ. Ext. Idaho. Curr. Inform. Ser. 79,2 p. May 1968. 275.29 Id13Idc

IOWA. STATE UNIVERSITY OF SCIENCE AND TECHNOLOGY. Preventing root graft transmission of Dutch elm disease. Idaho. Univ. Ext. Idaho. Curr. Inform. Ser. 82,2 p. May 1968. 275.29 Id13Idc

ILLINOIS University, Cooperative Extension Service in Agriculture and Home Economics, Urbana

ILLINOIS. UNIVERSITY. COOPERATIVE EXTENSION SERV. IN AGRICULTURE AND HOME ECONOMICS. 1968 suggested insecticide guide; insect control for livestock and livestock barns. Ill. Univ. Ext. Circ. 898,4 p. Dec.1967. 275.29 IL62C

Illinois Natural History Survey, cooperating.

SHOVE, G. C. Aerating stored dry grain. Ill. Univ. Ext. Circ. 984,12 p. Apr.1968. 275.29 IL62C

KANSAS State University of Agriculture and Applied Science, Extension Service, Manhattan

KANSAS. STATE UNIVERSITY OF AGRICULTURE AND APPLIED SCIENCE. EXTENSION SERV. What does Extension do? Kans. State Univ. Agr. Ext. L-216,4 p. Oct.1967. 275.29 K13Le

PARKS, C. E., and NIGHSWONGER, J. J. Landscape development for an urban home. Kans. State Univ. Ext. C-379,24 p. May 1967. 275.29 K13Ex



- NIGHSWONGER, J. J., and PARKS, C. E. Site planning for home landscape development. Kans. State Univ. Ext. C-381, 12 p., map. Mar. 1968. 275.29 K13Ex
- THAMES, G. Furniture restoration. Kans. State Univ. Ext. C-384, 32 p. Aug. 1967. 275.29 K13Ex
- THOMAS, W. B., MCREYNOLDS, K. L., and OVERLEY, F. L. Beef production on a business basis. I. Kans. State Univ. Ext. C-386, 20 p., map. Jan. 1968. 275.29 K13Ex
- THOMAS, W. B., and TREAT, J. L. Beef production on a business basis. II. Kans. State Univ. Ext. C-387, 15 p., map. Dec. 1967. 275.29 K13Ex
- THOMAS, W. B., and FIGURSKI, D. L. Pork production on a business basis. Kans. State Univ. Ext. C-388, 19 p., map. Feb. 1968. 275.29 K13Ex
- SJO, J. Personality characteristics of successful farm managers. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Jan. 3, 1967, 2 p. HD9004.A1K3
- CHRIST, P. G. Developments in outside markets for Kansas milk. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Jan. 10, 1967, 2 p. HD9004.A1K3
- KNIGHT, D. A. Computer analysis of Farm Management Association records. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Jan. 17, 1967, 2 p. HD9004.A1K3
- BAGLEY, E. S. Short-term business forecasting; science or art? Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Jan. 24, 1967, 2 p. HD9004.A1K3
- KOUDELE, J. W. Product differentiation, advertising and your food marketing bill. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Jan. 31, 1967, 2 p. HD9004.A1K3
- TYRCHNIEWICZ, E. W. Minimum wage legislation in agriculture. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Feb. 7, 1967, 2 p. HD9004.A1K3
- CLIFTON, R. E. The new Food-for-Freedom Program; what it means to Kansas farmers. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Feb. 14, 1967, 2 p. HD9004.A1K3
- MANUEL, M. L. Farmers promote the sale of farm products. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Feb. 22, 1967, 2 p. HD9004.A1K3
- MONTGOMERY, G. Are there more hungry people. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Feb. 28, 1967, 2 p. HD9004.A1K3
- PINE, W. H. Farm real estate taxes. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Mar. 7, 1967, 2 p. HD9004.A1K3
- SORENSEN, L. O. U.S. agricultural exports. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Mar. 14, 1967, 2 p. HD9004.A1K3
- ORAZEM, F. The role of farming in Kansas economy. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Mar. 28, 1967, 2 p. HD9004.A1K3
- SCHRUBEN, L. W. Soybean meal production trends. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Apr. 4, 1967, 2 p. HD9004.A1K3
- BULLER, O. Impact of monetary and fiscal policies on agriculture. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Apr. 11, 1967, 2 p. HD9004.A1K3
- OLSON, R. A. Changes in Kansas livestock production. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Apr. 18, 1967, 2 p. HD9004.A1K3
- SJO, J. Goals, values, and attitudes of farmers. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Apr. 25, 1967, 2 p. HD9004.A1K3
- KNIGHT, D. A. A study of farm size and efficiency. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., May 9, 1967, 2 p. HD9004.A1K3
- BAGLEY, E. S. Agriculture and the business cycle. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., May 16, 1967, 2 p. HD9004.A1K3
- KOUDELE, J. W. Retailing in the future. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., May 23, 1967, 2 p. HD9004.A1K3
- CHRIST, P. G. Regional patterns of milk production. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., May 23, 1967, 2 p. HD9004.A1K3
- TYRCHNIEWICZ, E. W. Prospects for unionization of farm workers. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., May 30, 1967, 2 p. HD9004.A1K3
- CLIFTON, R. E. The new International Grains Arrangement. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., June 6, 1967, 2 p. HD9004.A1K3
- MANUEL, M. L. Business coordination in agriculture. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., June 14, 1967, 2 p. HD9004.A1K3
- MONTGOMERY, G. International economic changes. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., June 21, 1967, 2 p. HD9004.A1K3
- PINE, W. H. Public lands. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., June 27, 1967, 2 p. HD9004.A1K3
- SORENSEN, L. O. Railroad freight car situation. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., July 5, 1967, 2 p. HD9004.A1K3
- ORAZEM, F., and LOVE, H. M. A perennial conflict. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., July 11, 1967, 2 p. HD9004.A1K3
- SCHRUBEN, L. W. Food marketing cost. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., July 18, 1967, 2 p. HD9004.A1K3
- BULLER, O. Minimum cost vs. maximum profits. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., July 25, 1967, 2 p. HD9004.A1K3
- MCCOY, J. H. [Beef] cattle feeding economics; know your costs. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Aug. 1, 1967, 2 p. HD9004.A1K3
- SJO, J. Farm management; a behavioral approach. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Aug. 8, 1967, 2 p. HD9004.A1K3
- KNIGHT, D. A. Research on farm size and efficiency. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Aug. 15, 1967, 2 p. HD9004.A1K3
- BAGLEY, E. S. Bargaining power and farm incomes. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Aug. 22, 1967, 2 p. HD9004.A1K3
- KOUDELE, J. W. The world food problem. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Aug. 29, 1967, 2 p. HD9004.A1K3
- CLIFTON, R. E. Moisture content of grain affects marketing decisions. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Sept. 5, 1967, 2 p. HD9004.A1K3
- MANUEL, M. Some current trends in farmer cooperatives in Kansas. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Sept. 12, 1967, 2 p. HD9004.A1K3
- MONTGOMERY, G. PL [Public Law] 480 wheat to India. Kans. State Univ. Ext. Econ. Kans. Farm Bus. Inform., Sept. 19, 1967, 2 p. HD9004.A1K3

- ERICKSON, D. B. Rural zoning and Kansas. *Kans. State Univ. Ext. Ext. Econ. Kans. Farm Bus. Inform.*, Sept. 26, 1967, 2 p. HD9004.A1K3
- NAGARAJAN, P. The vertical integration of produce wholesaling with retailing. *Kans. State Univ. Ext. Ext. Econ. Kans. Farm Bus. Inform.*, Oct. 3, 1967, 2 p. HD9004.A1K3
- PINE, W. H. Weather and climate modification. *Kans. State Univ. Ext. Ext. Econ. Kans. Farm Bus. Inform.*, Oct. 10, 1967, 2 p. HD9004.A1K3
- MCCOY, J. H. High level meat production, a factor in livestock prices. *Kans. State Univ. Ext. Ext. Econ. Kans. Farm Bus. Inform.*, Jan. 30, 1968, 2 p. HD9004.A1K3
- KELLOGG, C. Impact of retirement and death of older farmers on resource adjustments in Kansas. *Kans. State Univ. Ext. Ext. Econ. Kans. Farm Bus. Inform.*, Feb. 6, 1968, 2 p., map. HD9004.A1K3
- BAGLEY, E. S. Who gets the benefits of technological progress? *Kans. State Univ. Ext. Ext. Econ. Kans. Farm Bus. Inform.*, Feb. 20, 1968, 2 p. HD9004.A1K3
- KOUDELE, J. W. Competition of synthetic products and raw materials in agricultural markets. *Kans. State Univ. Ext. Ext. Econ. Kans. Farm Bus. Inform.*, Feb. 27, 1968, 3 p. HD9004.A1K3
- CLIFTON, R. E. Parity ratio dips to depression levels. *Kans. State Univ. Ext. Ext. Econ. Kans. Farm Bus. Inform.*, Mar. 5, 1968, 2 p. HD9004.A1K3
- RICHARDS, J. A. International gold problems; domestic and international money. *Kans. State Univ. Ext. Ext. Econ. Kans. Farm Bus. Inform.*, Mar. 26, 1968, 2 p. HD9004.A1K3
- RICHARDS, J. A. International gold problems; U.S. balance of payments deficit. *Kans. State Univ. Ext. Ext. Econ. Kans. Farm Bus. Inform.*, Apr. 2, 1968, 2 p. HD9004.A1K3
- RICHARDS, J. A. International gold problems; how will the solution affect you? *Kans. State Univ. Ext. Ext. Econ. Kans. Farm Bus. Inform.*, Apr. 10, 1968, 2 p. HD9004.A1K3
- SORENSEN, O. Agricultural outlook and market forecasts. *Kans. State Univ. Ext. Ext. Econ. Kans. Farm Bus. Inform.*, Apr. 17, 1968, 2 p. HD9004.A1K3
- ORAZEM, F. Some facts and figures relating to U.S. agriculture. *Kans. State Univ. Ext. Ext. Econ. Kans. Farm Bus. Inform.*, Apr. 24, 1968, 2 p. HD9004.A1K3
- CLIFTON, R. E. Kansas reduces grain acreage in 1968. *Kans. State Univ. Ext. Ext. Econ. Kans. Farm Bus. Inform.*, May 1, 1968, 2 p. HD9004.A1K3
- SCHILLING, D. R. World population and food. *Kans. State Univ. Ext. Ext. Econ. Kans. Farm Bus. Inform.*, May 8, 1968, 2 p. HD9004.A1K3
- MCCOY, J. H. What's ahead for beef cattle? *Kans. State Univ. Ext. Ext. Econ. Kans. Farm Bus. Inform.*, May 15, 1968, 2 p. HD9004.A1K3
- BRUNING, G. Decision-making in farm management. *Kans. State Univ. Ext. Ext. Econ. Kans. Farm Bus. Inform.*, May 22, 1968, 2 p. HD9004.A1K3
- KNIGHT, D. A. Farm record analysis and changes in agriculture. *Kans. State Univ. Ext. Ext. Econ. Kans. Farm Bus. Inform.*, May 29, 1968, 1 p. HD9004.A1K3
- LEE, S. The effect of underground water on land values in southwestern Kansas. *Kans. State Univ. Ext. Ext. Econ. Kans. Farm Bus. Inform.*, June 5, 1968, 2 p. HD9004.A1K3
- KOUDELE, J. W. The Fair Packaging and Labeling Act [of 1966]. *Kans. State Univ. Ext. Ext. Econ. Kans. Farm Bus. Inform.*, June 12, 1968, 2 p. HD9004.A1K3
- CLIFTON, R. E. Demand for Kansas farm products. *Kans. State Univ. Ext. Ext. Econ. Kans. Farm Bus. Inform.*, June 19, 1968, 2 p. HD9004.A1K3
- PINE, W. H. Assessment of property for taxation in Kansas. *Kans. State Univ. Ext. Ext. Econ. Kans. Farm Bus. Inform.*, June 26, 1968, 2 p. HD9004.A1K3
- RICHARDS, J. A. Devaluation of the pound and the U.S. economy. *Kans. State Univ. Ext. Looking Ahead K-State Econ.*, Nov. 28, 1967, 2 p. HD9284.U5K3
- FRAZIER, L. Economic growth of smaller towns. *Kans. State Univ. Ext. Looking Ahead K-State Econ.*, Dec. 5, 1967, 2 p. HD9284.U5K3
- JACKSON, M. E. The egg industry still has problems. *Kans. State Univ. Ext. Looking Ahead K-State Econ.*, Jan. 9, 1968, 1 p. HD9284.U5K3
- RICHARDS, J. A. Why is less government spending not an economic issue. *Kans. State Univ. Ext. Looking Ahead K-State Econ.*, Feb. 6, 1968, 2 p. HD9284.U5K3
- RICHARDS, J. A. Monetary policy and the surtax. *Kans. State Univ. Ext. Looking Ahead K-State Econ.*, Feb. 13, 1968, 2 p. HD9284.U5K3
- ERICKSON, D. B. Our need for water. *Kans. State Univ. Ext. Looking Ahead K-State Econ.*, Feb. 20, 1968, 2 p. HD9284.U5K3
- TRIEB, S. E. Current issues in food retailing. *Kans. State Univ. Ext. Looking Ahead K-State Econ.*, Feb. 27, 1968, 2 p. HD9284.U5K3
- FRAZIER, L. Industries for towns and small cities. *Kans. State Univ. Ext. Looking Ahead K-State Econ.*, Mar. 5, 1968, 2 p. HD9284.U5K3
- THOMAS, W. B. Premiums and penalties in pork production. *Kans. State Univ. Ext. Looking Ahead K-State Econ.*, Mar. 12, 1968, 2 p. HD9284.U5K3
- ERICKSON, D. B. Probability of rainfall in Kansas. *Kans. State Univ. Ext. Looking Ahead K-State Econ.*, Mar. 26, 1968, 2 p., map. HD9284.U5K3
- BAKER, E. K. Wise use in flood plain planning. *Kans. State Univ. Ext. Looking Ahead K-State Econ.*, Apr. 2, 1968, 2 p. HD9284.U5K3
- JACKSON, M. E. An increase in egg prices coming soon. *Kans. State Univ. Ext. Looking Ahead K-State Econ.*, Apr. 10, 1968, 1 p. HD9284.U5K3
- COPPERSMITH, R. L. Hog outlook. *Kans. State Univ. Ext. Looking Ahead K-State Econ.*, Apr. 17, 1968, 1 p. HD9284.U5K3
- LANGEMEIER, L. N. The concept of forward planning. *Kans. State Univ. Ext. Looking Ahead K-State Econ.*, Apr. 24, 1968, 2 p. HD9284.U5K3
- COOLIDGE, J. H. A look at 1967 on Farm Management Association farms. *Kans. State Univ. Ext. Looking Ahead K-State Econ.*, May 1, 1968, 2 p. HD9284.U5K3
- WALKER, M. L. Frozen meats in your future. *Kans. State Univ. Ext. Looking Ahead K-State Econ.*, May 8, 1968, 2 p. HD9284.U5K3
- RICHARDS, J. A. A tax increase now? *Kans. State Univ. Ext. Looking Ahead K-State Econ.*, May 15, 1968, 2 p. HD9284.U5K3
- ERICKSON, D. B. Planning activities in Kansas. *Kans. State Univ. Ext. Looking Ahead K-State Econ.*, May 22, 1968, 2 p. HD9284.U5K3
- TRIEB, S. E. Managerial leadership. *Kans. State Univ. Ext. Looking Ahead K-State Econ.*, May 29, 1968, 2 p. HD9284.U5K3
- FRAZIER, L. Preserving the family sized farm. *Kans. State Univ. Ext. Looking Ahead K-State Econ.*, June 5, 1968, 2 p., map. HD9284.U5K3
- THOMAS, W. B. How much debt can a farm carry? *Kans. State Univ. Ext. Looking Ahead K-State Econ.*, June 12, 1968, 2 p. HD9284.U5K3
- SMYTHE, P. E. Conducting a feasibility study for a proposed outdoor recreation enterprise. *Kans. State Univ. Ext. Looking Ahead K-State Econ.*, June 19, 1968, 2 p. HD9284.U5K3



KENTUCKY University, Agricultural Extension Service,  
Lexington

STALLARD, F. Doing business at the bank. Ky. Univ. Ext. Circ. 573-A, 15 p. Apr. 1968. 275.29 K415

CORDER, G. D., and MILLER, H. F. 4-H soil and water conservation unit 3: Wildlife. Ky. Univ. Ext. 4-H 1090, 22 p. Mar. 1968. 275.29 K415Fh

MILLER, H. F., BAILEY, H. H., and CORDER, G. 4-H land judging in Kentucky. Ky. Univ. Ext. 4-H 1186-D, rev., 21 p. Apr. 1968. 275.29 K415Fh

MARSHALL, M. H. Patterns & fabrics for easy-to-make garments. Ky. Univ. Ext. H.E. 2-337, 9 p. Apr. 1968. 275.29 K415H

SEBREE, K. G. Flatter your rooms with pattern. Ky. Univ. Ext. H.E. 4-114, 8 p. May 1968. 275.29 K415H

SEBREE, K. G. Wood floors finished for beauty. Ky. Univ. Ext. H.E. 4-203 B, rev., 5 p. Apr. 1968. 275.29 K415H

HERRON, J. W., DRISKILL, K., and FREEMAN, J. F. Nodding thistle [*Carduus nutans*] control with 2,4-D. Ky. Univ. Ext. Leaflet 227-B, rev., 5 p.-folder. Mar. 1968. 275.29 K415Le

WALLACE, R. Fabric tips; wash and wear. Ky. Univ. Ext. Leaflet 304, 6 p.-folder. May 1968. 275.29 K415Le

DEAN, B., and THOMPSON, W. C. Pastures for hogs. Ky. Univ. Ext. Leaflet 312, 6 p.-folder. Jan. 1968. 275.29 K415Le

PHILLIPS, S. H., FINKNER, V. C., and TUTT, C. R. Barsoy, a new early winter barley variety. Ky. Univ. Ext. Leaflet 313, 4 p. May 1968. 275.29 K415Le

SCHEIBNER, R. A. Occasional insect nuisance pests of households. Ky. Univ. Ext. Misc. 364, 2 p. Mar. 1968. 275.29 K415M

MARYLAND University, Cooperative Extension Service,  
College Park

BLACK, W. E. Sources of capital for individuals, firms and institutions in rural Maryland. Md. Univ. Ext. Agr. Econ. Inform. Ser. 46, 21 p. Apr. 1968. 275.29 M36Agr

CASON, J. L., and FAIRCHILD, T. P. Selecting dairy sires. Md. Univ. Ext. Fact Sheet 147, 4 p. Mar. 1968. 275.29 M36Fa

MICHIGAN State University of Agriculture and Applied  
Science, Cooperative Extension Service, East Lansing

DEAN, A. Changing food habits. Mich. State Univ. Ext. Ext. Bull. 613, 15 p. June 1968. 275.29 M58B

BARTELLI, I. May is morel month in Michigan; identifying morels for food. Mich. State Univ. Ext. Ext. Bull. E-614, 22 p. Apr. 1968. 275.29 M58B

NEAL, J. Familiar trees of Michigan. Mich. State Univ. Ext. Ext. Bull. E-616, 22 p. May 1968. 275.29 M58B

HILLMAN, D., and others. Nutritional differences in hay. Mich. State Univ. Ext. Ext. Bull. 626, 4 p. May 1968. 275.29 M58B

B. H. Bean, J. W. Thomas, and E. J. Benne, joint authors.

MINNESOTA University, Agricultural Extension Service,  
St. Paul

LOFGREN, J. A., and others. Evergreens. Minn. Univ. Ext. Ext. Bull. 258, 36 p. Mar. 1968. 275.29 M66S

H. G. Johnson, M. C. Eisel, M. E. Smith, and J. P. McKinnon, joint authors.

FRENCH, D. W., LOFGREN, J. A., and HODSON, A. C. The Dutch elm disease. Minn. Univ. Ext. Ext. Folder 211, rev., 8 p.-folder. 1968. 275.29 M66Ex

CHRISTENSEN, C. M., and KAUFMANN, H. H. Maintenance of quality in stored grains and seeds. Minn. Univ. Ext. Ext. Folder 226, rev., 4 p. 1968. 275.29 M66Ex

MISSOURI University, College of Agriculture, Extension  
Service, Columbia

METZEN, E. J., and JOHNSON, M. L. A will of your own; answers to questions about your property and heirs. Mo. Univ. Ext. Circ. C-863, 26 p. May 1966. 275.29 M69C

NEW YORK - Cornell University, State College of  
Agriculture, Extension Service, Ithaca

FORNEY, J. L. Raising bait fish and crayfish in New York ponds. Cornell Univ. Ext. Cornell Ext. Bull. 986, rev., 31 p. Apr. 1968. 275.29 N48E

LAMB, R. C., and WATSON, J. P. Peach and nectarine varieties for New York State. Cornell Univ. Ext. Cornell Ext. Bull. 1200, 7 p. Mar. 1968. 275.29 N48E

EINSET, J., KIMBALL, K., and WATSON, J. Grape varieties for New York State. Cornell Univ. Ext. Cornell Ext. Bull. 1201, 8 p. Mar. 1968. 275.29 N48E

SCHULTZ, O. E. Common foliar diseases of alfalfa and clovers. Cornell Univ. Ext. Cornell Ext. Bull. 1205, 7 p. May 1968. 275.29 N48E

CORNELL UNIVERSITY. STATE COLLEGE OF AGRICULTURE. EXTENSION SERV. Cornell recommendations for commercial production and maintenance of trees and shrubs. Cornell Univ. Ext. Cornell Misc. Bull., Mar. 1968, rev., 50 p. 275.29 N48Cm

ALEXANDER, F. D. Evaluation of Family Service Program, Home Economics Division of Cooperative Extension, Clinton County, New York; supplement. Cornell Univ. Ext. Ext. Stud. 15, 32 p. Feb. 1968. 275.29 N48Ex

ALEXANDER, F. D. Readiness of New York Cooperative Extension to undertake a farm labor program. Cornell Univ. Ext. Ext. Stud. 16, 119 p. Nov. 1967. 275.29 N48Ex

NORTH CAROLINA University, Extension Service,  
State College Station, Raleigh

ALLEN, A. V., DOBSON, S. H., and WEATHERS, C. R. A look at beef; for more income on North Carolina farms. N. C. Univ. Ext. Ext. Circ. 493, 23 p. Apr. 1968. 275.29 N811

ROBERTSON, R. L. Mimosa webworm and its control. N. C. Univ. Ext. Ext. Folder 175, rev., 4 p. May 1968. 275.29 N811Ex

KOLBE, M. H., and others. Good apple recipes. N. C. Univ. Ext. Ext. Folder 189, rev., 6 p. July 1967. 275.29 N811Ex

I. Pritchard, N. Orr, and M. M. Donnelly, joint authors.

MILLER, R. T., and BARRIER, D. L. Sewing on today's fabrics; bonded and laminated fabrics. N. C. Univ. Ext. Home Econ. Ser. 87, 4 p. May 1968. 275.29 N811Hom

BARRIER, D. L., and MILLER, R. T. Sewing on today's fabrics; double knit fabrics. N. C. Univ. Ext. Home Econ. Ser. 88, 4 p. May 1968. 275.29 N811Hom

BARRIER, D. L., and MILLER, R. T. Sewing on today's fabrics; stretch and vinyl fabrics. N. C. Univ. Ext. Home Econ. Ser. 89, 4 p. May 1968. 275.29 N811Hom

MILLER, R. T., and BARRIER, D. L. Sewing on today's fabrics; woven fabrics of man-made fibers. N. C. Univ. Ext. Home Econ. Ser. 90, 4 p. May 1968. 275.29 N811Hom

MILLER, R. T., and BARRIER, D. L. Sewing on today's fabrics; fake fur, deep pile, and pile fabrics. N. C. Univ. Ext. Home Econ. Ser. 91, 4 p. May 1968. 275.29 N811Hom

BARRIER, D. L. Sewing on today's fabrics; diagonals, plaids and checks. N. C. Univ. Ext. Home Econ. Ser. 92, 4 p. May 1968. 275.29 N811Hom

BARRIER, D. L. Fabric preparation for sewing. N. C. Univ. Ext. Home Econ. Ser. 93, 4 p. May 1968. 275.29 N811Hom

HAWKINS, L. F. Investing in family relationships. N. C. Univ. Ext. Home Econ. Ser. 94, 2 p. May 1968. 275.29 N811Hom

WRIGHT, C. G., ROBERTSON, R. L., and SCOTT, H. E. Household pest control for 1968. N. C. Univ. Ext. Leaflet. 139, 4 p. Mar. 1968. 275.29 N811L

BROOKS, R. C., and JOHNSON, W. G. Marketing high IQ [Improved Quality] cotton for the highest price. N. C. Univ. Ext. Leaflet. 145, 6 p.-folder. July 1968. 275.29 N811L

OHIO State University, Cooperative Extension Service, Columbus

MILLER, R. W., and others. Your lawn. Ohio. State Univ. Ext. Bull. 271, rev., 35 p. May 1968. 275.29 Oh32

R. L. Miller, R. E. Partyka, E. W. Stroube, R. R. Davis, and M. H. Niehaus, joint authors.

GOLEMAN, D. L. Be prepared! when using pesticides. Ohio. State Univ. Ext. Leaflet. L-152, 8 p. Mar. 1968. 275.29 Oh32EL

OREGON State University, Federal Cooperative Extension Service, Corvallis

OREGON. STATE UNIVERSITY. FEDERAL CO-OPERATIVE EXTENSION SERV. A will of your own; answers to questions about your property and heirs. Oreg. State Univ. Ext. Ext. Bull. 807, rev., 23 p. Apr. 1968. 275.29 Or32B

BURKHART, A. C. Prepared and precooked foods for the freezer. Oreg. State Univ. Ext. Ext. Bull. 820, 23 p. Sept. 1967. 275.29 Or32B

CRABTREE, G., and DUNCAN, A. A. 1968 weed control recommendations for commercial vegetable crops in Oregon. Oreg. State Univ. Ext. FS 6, rev., 2 p. Apr. 1968. 275.29 Or36

DUNCAN, A. A. Composts for the garden. Oreg. State Univ. Ext. FS 134, 2 p. Mar. 1968. 275.29 Or36

DUNCAN, A. A. Ornamental gourds. Oreg. State Univ. Ext. FS 136, 2 p. Mar. 1968. 275.29 Or36

DUNCAN, A. A., and MACSWAN, I. C. Blossom-end rot of tomatoes. Oreg. State Univ. Ext. FS 139, 2 p. Mar. 1968. 275.29 Or36

LANDFORCE, A. S. Care and culture of earthworms. Oreg. State Univ. Ext. FS 140, 2 p. Mar. 1968. 275.29 Or36

GRODER, R. H. Market News Service on fruits and vegetables. Oreg. State Univ. Ext. FS 142, 2 p. Mar. 1968. 275.29 Or36

STEBBINS, R. L. Fruit and nut varieties for home orchards. Oreg. State Univ. Ext. FS 143, 2 p., map. Apr. 1968. 275.29 Or36

CRABTREE, G., and STEBBINS, R. L. 1968 weed control recommendations for Oregon orchards. Oreg. State Univ. Ext. FS 144, 2 p. Apr. 1968. 275.29 Or36

CRABTREE, G., and MARTIN, L. 1968 Oregon weed control recommendations for commercial small-fruit crops. Oreg. State Univ. Ext. FS 145, 2 p. Apr. 1968. 275.29 Or36

OREGON. STATE UNIVERSITY. FEDERAL CO-OPERATIVE EXTENSION SERV. 1968 Wasco County spray schedule. Dalles, 1968. chart. 275.29 Or32Sp

OREGON. STATE UNIVERSITY. FEDERAL CO-OPERATIVE EXTENSION SERV. Oregon weed control handbook, April 1968; with a special section on plant-growth regulators, compiled by R. Warren. Corvallis, 1968. 256 p. Ref. 275.28 Or3

PENNSYLVANIA State University, Colleges of Agriculture and Home Economics, Extension Service, University Park

NICHOLS, L. P. Tree diseases, description and control. Penn. State Univ. Ext. Spec. Circ. 85, 29 p. 1968? 275.29 P382Sp

PUERTO RICO University, Extension Service, Rio Piedras

GONZALEZ VILLAFANE, E., PRINGLE, G. E., and CONDE RAMIREZ, A. Several factors affecting the efficiency of cutting sugarcane in Puerto Rico. (Sp) P. R. (Rio Piedras) Agr. Exp. Sta. Bull. 210, 14 p. Mar. 1968. 100 P83 English summary.

SOUTH DAKOTA State University, Cooperative Extension Service, Brookings

AANDERUD, W. G., and SORENSEN, R. Irrigation costs and returns. S. Dak. State Univ. Ext. Ext. Circ. EC-661, 11 p. June 1968. 275.29 So85

CLINE, R. A., and SANDERSON, E. E. Field crop varieties recommended in South Dakota for 1968. S. Dak. State Univ. Ext. FS 382, 2 p., map. Dec. 1967. 275.29 So85Fs

JORGENSEN, N. A., and KLEEN, E. J. Milk production. S. Dak. State Univ. Ext. FS 403, 6 p.-folder. Mar. 1968. 275.29 So85Fs

KLEEN, E. J., and JORGENSEN, N. A. The milking machine. S. Dak. State Univ. Ext. FS 404, 4 p. Apr. 1968. 275.29 So85Fs

YOUNG, J. O., and KLEEN, E. J. Screening tests for abnormal milk. S. Dak. State Univ. Ext. FS 405, 2 p. Mar. 1968. 275.29 So85Fs

JORGENSEN, N. A., KURTZ, E. V., and KLEEN, E. J. Urea for dairy cattle. S. Dak. State Univ. Ext. FS 406, 4 p. Apr. 1968. 275.29 So85Fs

KERR, F. F., SORENSEN, R. P., and AANDERUD, W. G. Eastern South Dakota irrigation yields and management. S. Dak. State Univ. Ext. FS 408, 6 p.-folder, map. May 1968. 275.29 So85Fs

PARKER, R., and DERSCHIED, L. A. Wild oats [Avena fatua]. S. Dak. State Univ. Ext. FS 410, 4 p. Apr. 1968. 275.29 So85Fs

SOUTH DAKOTA, STATE UNIVERSITY. CO-OPERATIVE EXTENSION SERV. Irrigation well construction. S. Dak. State Univ. Ext. FS 411, 6 p.-folder. May 1968. 275.29 So85Fs

VERMONT University, Agricultural Extension Service, Burlington

HOPP, R. J. Home garden vegetables; the ABC of better gardening. Vt. Univ. Ext. Brieflet 1149, 8 p. Feb. 1967. 275.29 V59E



- GERMAIN, A., and TREMBLAY, R. H. India, (Bharat is the native name). Vt. Univ. Ext. Brieflet 1150, 9 p. Jan. 1967. 275.29 V59E
- SARGENT, F. O. Town planning. Vt. Univ. Ext. Brieflet 1151, 8 p. Apr. 1967. 275.29 V59E
- FISHER, K. D., CALAHAN, C. L., and MILLS, W. D. Understanding apple scab. Vt. Univ. Ext. Brieflet 1152, 7 p. Apr. 1967. 275.29 V59E
- WAY, W. A. Farm fertilizers. Vt. Univ. Ext. Brieflet 1153, 4 p. May 1967. 275.29 V59E
- LINDSAY, J. J. Outdoor recreation development; cluster design. Vt. Univ. Ext. Brieflet 1154, 11 p. July 1967. 275.29 V59E
- NIELSEN, G. R. How to control ants in the home and garden. Vt. Univ. Ext. Brieflet 1155, 2 p. June 1967. 275.29 V59E
- FOULDS, R. T. How to shear spruce and fir Christmas trees. Vt. Univ. Ext. Brieflet 1156, 2 p. 1967? 275.29 V59E
- VERMONT. UNIVERSITY. AGRICULTURAL EXTENSION SERV. Clothes and you. Vt. Univ. Ext. Brieflet 1157, 21 p. Dec. 1967. 275.29 V59E

**WASHINGTON State University, Extension Service,  
Pullman**

- ENTENMANN, F. M., MORRISON, K. J., and YOUNGMAN, V. E. Growing lentils in Washington. Wash. State Univ. Ext. Ext. Bull. 590, 7 p. Feb. 1968. 275.29 W27P
- WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Invitation to serve young people. Wash. State Univ. Ext. Ext. Circ. 354, 4 p. Apr. 1968. 275.29 W27C
- WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Activities for delegates; State 4-H Conference. Wash. State Univ. Ext. E. M. 1503A, rev., 8 p. May 1968. 275.29 W27Mi
- WASHINGTON. STATE UNIVERSITY. LIBRARY. SOCIAL SCIENCE DIV. Selected list of books, films and periodicals on community planning. Wash. State Univ. Ext. E. M. 1884, rev., 7 p. May 1968. 275.29 W27Mi
- WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Horse magazines. Wash. State Univ. Ext. E. M. 2016, rev., 3 p. Feb. 1968. 275.29 W27Mi
- WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; sweet cherries. Wash. State Univ. Ext. E. M. 2277, rev., 2 p. Mar. 1968. 275.29 W27Mi
- WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. How you can prepare for the State 4-H Conference as a county delegation. Wash. State Univ. Ext. E. M. 2286, rev., 4 p. Apr. 1968. 275.29 W27Mi
- WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; Bartlett pears. Wash. State Univ. Ext. E. M. 2290, rev., 2 p. Mar. 1968. 275.29 W27Mi
- WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; pears, non Bartlett. Wash. State Univ. Ext. E. M. 2291, rev., 2 p. Apr. 1968. 275.29 W27Mi
- WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; strawberries. Wash. State Univ. Ext. E. M. 2367, rev., 2 p. Mar. 1968. 275.29 W27Mi
- WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; apples. Wash. State Univ. Ext. E. M. 2376, rev., 2 p. Feb. 1968. 275.29 W27Mi
- WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; peaches. Wash. State Univ. Ext. E. M. 2377, rev., 2 p. Apr. 1968. 275.29 W27Mi
- WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; apricots. Wash. State Univ. Ext. E. M. 2378, rev., 2 p. Feb. 1968. 275.29 W27Mi
- WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; filberts. Wash. State Univ. Ext. E. M. 2382, rev., 2 p. Apr. 1968. 275.29 W27Mi
- WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Plan a better house; publications available. Wash. State Univ. Ext. E. M. 2385, rev., 3 p. Feb. 1968. 275.29 W27Mi
- WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; sour cherries. Wash. State Univ. Ext. E. M. 2392, rev., 2 p. Mar. 1968. 275.29 W27Mi
- WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; prunes. Wash. State Univ. Ext. E. M. 2393, rev., 2 p. Apr. 1968. 275.29 W27Mi
- WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Disease spray schedule for home orchards. Wash. State Univ. Ext. E. M. 2465, rev., 8 p. May 1968. 275.29 W27Mi
- LIGGETT, E. P. Social security. Wash. State Univ. Ext. E. M. 2466, rev., 8 p. Apr. 1968. 275.29 W27Mi
- WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; dry edible beans. Wash. State Univ. Ext. E. M. 2487, rev., 2 p. Mar. 1968. 275.29 W27Mi
- WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; dry edible peas. Wash. State Univ. Ext. E. M. 2516, rev., 2 p. May 1968. 275.29 W27Mi
- WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; snap and lima beans for processing. Wash. State Univ. Ext. E. M. 2525, rev., 2 p. May 1968. 275.29 W27Mi
- WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; cucumbers and spinach for processing. Wash. State Univ. Ext. E. M. 2526, rev., 2 p. May 1968. 275.29 W27Mi
- WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; blueberries. Wash. State Univ. Ext. E. M. 2572, rev., 2 p. Feb. 1968. 275.29 W27Mi
- WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Potato insect calendar for Washington. Wash. State Univ. Ext. E. M. 2603, rev., 13 p. Apr. 1968. 275.29 W27Mi
- WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Washington State commodity data sheet; lentils. Wash. State Univ. Ext. E. M. 2798, rev., 2 p. May 1968. 275.29 W27Mi
- DORAN, S. M., ANDERSON, F. A., and KEENE, J. The cost of establishing Concord grapes on a double curtain trellis, Yakima Valley, Washington. Wash. State Univ. Ext. E. M. 2835, 12 p. July 1967. 275.29 W27Mi
- WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Application for the Arabian Horse Association of Washington's 4-H Arabian gelding award. Wash. State Univ. Ext. E. M. 2844, rev., 1 p. Feb. 1968. 275.29 W27Mi
- WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Herbicide evaluation sheet. Wash. State Univ. Ext. E. M. 2897, 1 p. Feb. 1968. 275.29 W27Mi
- WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Little ways to improve the laundry area. Wash. State Univ. Ext. E. M. 2900, 2 p. Feb. 1968. 275.29 W27Mi
- WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Checklist; ideas for outdoor recreation profit. Wash. State Univ. Ext. E. M. 2902, 7 p. Feb. 1968. 275.29 W27Mi

WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Checklist; outdoor recreation potential. Wash. State Univ. Ext. E. M. 2903, 12 p. Feb. 1968. 275.29 W27Mi

WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Checklist; outdoor recreation budget. Wash. State Univ. Ext. E. M. 2904, 8 p. Feb. 1968. 275.29 W27Mi

WILSON, E. B. Leafcutting bee storage. Wash. State Univ. Ext. E. M. 2909, 5 p. Mar. 1968. 275.29 W27Mi

WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Control of insect and mite pests of tree fruits (home orchard). Wash. State Univ. Ext. E. M. 2915, 14 p. Jan. 1968. 275.29 W27Mi

WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Control of insect and mite pests of ornamental trees and shrubs. Wash. State Univ. Ext. E. M. 2918, 7 p. Jan. 1968. 275.29 W27Mi

WASHINGTON. STATE UNIVERSITY. EXTENSION SERV. Your 4-H group studies Japan. Wash. State Univ. Ext. E. M. 2924, 4 p. Apr. 1968. 275.29 W27Mi

WISCONSIN University, College of Agriculture, Extension Service, Madison

YOUNG, L. A., and HIRSCHINGER, C. W. Your farm and family cash flow planning guide. Wis. Univ. Ext. Spec. Circ. 136, 4 p. Apr. 1968. 275.29 W75S

WYOMING University, College of Agriculture, Extension Service, Laramie

OLSEN, B. K. Dance leadership. Wyo. Univ. Ext. [4-H Club Circ.] 1967, 28 p. 275.29 W99Fc

OLSEN, B. K. Game leadership. Wyo. Univ. Ext. [4-H Club Circ.] 1967, 33 p. 275.29 W99Fc

WYOMING. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Wyoming 4-H Club home economics record, clothing. Wyo. Univ. Ext. [4-H Club Circ.] CL-5a-67, 12 p. May 1967. 275.29 W99Fc

CROFT, J. Clothing leaders' guide. Wyo. Univ. Ext. [4-H Club Circ.] CL-6-67, 90 p. Oct. 1967. 275.29 W99Fc

WYOMING. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Know your government, a group citizenship activity for Wyoming 4-H Clubs: The State government phase. Wyo. Univ. Ext. [4-H Club Circ.] CZ-10a-67, 19 p. May 1967. 275.29 W99Fc

CROFT, J., and WALTON, W. Food and nutrition. II. Fun with foods. Wyo. Univ. Ext. [4-H Club Circ.] F-10-67, 36 p. June 1967. 275.29 W99Fc

WYOMING. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. 4-H films. Wyo. Univ. Ext. [4-H Club Circ.] G-13-67, 15 p. Apr. 1967. 275.29 W99Fc

WYOMING. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. 4-H contests, awards, and recognitions. Wyo. Univ. Ext. [4-H Club Circ.] G-19-67, 39 p. Mar. 1967. 275.29 W99Fc

CROFT, J., and others. Guides for judges, home economics. Wyo. Univ. Ext. [4-H Club Circ.] G-33-67, 17 p. July 1967. 275.29 W99Fc  
W. Walton, M. Ulrich, and H. Miller, joint authors.

WYOMING. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Judging helps for 1967, home economics. Wyo. Univ. Ext. [4-H Club Circ.] G-35, 48 p. 1967. 275.29 W99Fc

WYOMING. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Your opportunities and privileges as a 4-H Club leader. Wyo. Univ. Ext. [4-H Club Circ.] G-37-68, 6 p. -folder. 1968? 275.29 W99Fc

CROFT, J. Origin of Rural Life Sunday. Wyo. Univ. Ext. [4-H Club Circ.] G-39-67, 58 p. Ref. May 1967. 275.29 W99Fc

WYOMING. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Reference list for requesting 4-H Club kits. Wyo. Univ. Ext. [4-H Club Circ.] G-46-68, rev., 15 p. 1968. 275.29 W99Fc

WYOMING. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. 4-H vegetable garden. Wyo. Univ. Ext. [4-H Club Circ.] GN-5-67, 37 p. July 1967. 275.29 W99Fc

WYOMING. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Small grain. Wyo. Univ. Ext. [4-H Club Circ.] GR-5-67, 7 p. June 1967. 275.29 W99Fc

WYOMING. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Vegetable garden record book. Wyo. Univ. Ext. [4-H Club Circ.] GN-5a-67, 14 p. May 1967. 275.29 W99Fc

CROFT, E. J. Passport to health; sanitation and disease prevention. Wyo. Univ. Ext. [4-H Club Circ.] H-1-67, 17 p. Nov. 1967. 275.29 W99Fc

CROFT, J. Passport to health; sanitation and disease prevention: Leaders' guide. Wyo. Univ. Ext. [4-H Club Circ.] H-2-67, 17 p. Jan. 1968. 275.29 W99Fc

CROFT, E. J. Understanding yourself. Wyo. Univ. Ext. [4-H Club Circ.] H-14-67, 27 p. Ref. Jan. 1967. 275.29 W99Fc

MILLER, H. G. Home management. Wyo. Univ. Ext. [4-H Club Circ.] HM-5-68, 23 p. Apr. 1968. 275.29 W99Fc

WYOMING. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Home management record. Wyo. Univ. Ext. [4-H Club Circ.] HM-5a-68, 11 p. Apr. 1968. 275.29 W99Fc

WYOMING. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Home management leader's guide. Wyo. Univ. Ext. [4-H Club Circ.] HM-6-68, 7 p. Mar. 1968. 275.29 W99Fc

WYOMING. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Junior leadership record book. Wyo. Univ. Ext. [4-H Club Circ.] JL-5a-67, 18 p. Sept. 1967. 275.29 W99Fc

MOE, R. A Wyoming 4-H Club handicraft project. I. Leathercraft. Wyo. Univ. Ext. [4-H Club Circ.] LC-5-67, 52 p. June 1967. 275.29 W99Fc

EASTMAN, W. R., and POWNALL, H. D. Photography record book, Unit I. Adventures with your camera. Wyo. Univ. Ext. [4-H Club Circ.] Ph-5a-67, 31 p. Jan. 1967. 275.29 W99Fc

EASTMAN, W. R., and POWNALL, H. D. Photography record book, Unit II. Challenges in picture taking. Wyo. Univ. Ext. [4-H Club Circ.] Ph-10a-67, 31 p. Jan. 1967. 275.29 W99Fc

EASTMAN, W. R., and POWNALL, H. D. Photography record book, Unit III. Exploring photography. Wyo. Univ. Ext. [4-H Club Circ.] Ph-15a-67, 39 p. Jan. 1967. 275.29 W99Fc

WYOMING. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. 4-H sugar beet project record and story book. Wyo. Univ. Ext. [4-H Club Circ.] SB-5a-67, 15 p. May 1967. 275.29 W99Fc

WYOMING. UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Swine project. Wyo. Univ. Ext. [4-H Club Circ.] SW-1-67, 53 p. July 1967. 275.29 W99Fc



WYOMING, UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. 4-H tractor program record book. Wyo. Univ. Ext. [4-H Club Circ.] T-5a-67,8 p. May 1967.

275.29 W99Fc

WYOMING, UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Veterinary science. Wyo. Univ. Ext. [4-H Club Circ.] V-5a-67,7 p. Feb. 1967. 275.29 W99Fc

WYOMING, UNIVERSITY. COLLEGE OF AGRICULTURE. EXTENSION SERV. Fish and fishing in Wyoming. Wyo. Univ. Ext. [4-H Club Circ.] WL-5-67,48 p., map. Ref. June 1967. 275.29 W99Fc

Wyoming Game and Fish Department, cooperating.

# FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS

Includes publications received in the Library during the preceding month.

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. COMMISSION FOR CONTROLLING THE DESERT LOCUST IN THE EASTERN REGION OF ITS DISTRIBUTION AREA IN SOUTHWEST ASIA. Report of the third session held in New Delhi, India, 6-9, March 1967. Rome, 1967. 37 p. SB945.L7F6

INTERNATIONAL RICE COMMISSION. Report of the tenth session held at New Delhi, 3-8 October 1966. Rome, Food and Agriculture Organization of the United Nations, 1967. 44 p. 59.9 In83

SYMPOSIUM ON THE USE OF ISOTOPES IN WEED RESEARCH, VIENNA, 1965. Isotopes in weed research. Proceedings. Vienna, International Atomic Energy Agency, 1966. 237 p. Ref. (Proceedings series) S589.S9

Organized jointly by International Atomic Energy Agency and Food and Agriculture Organization of the United Nations.

Includes herbicide research.

TIMBER bulletin for Europe 19(4), 88 p. 1967. 99.9 F73T

Production, trade and price statistics January-December, 1965 and 1966; market review to 28 February 1967.

TIMBER bulletin for Europe, January-June 1967 20(2), 81 p. 99.9 F73T

Text also in French.  
Production and trade.

VASUDEVA, R. S., and MANSER, P. D. Rapport au Gouvernement du Togo sur la maladie de kaincope du cocotier et sur certaines autres maladies des plantes cultivees au Togo [Report to the Government of Togo on kaincope disease of coconuts and on certain other diseases of cultivated plants in Togo]. Rome, 1966. 23 p. 281.9 F733E







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